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L. A. POST, L.H.D. E. H. WARMINGTON, M.A., F.R.HIST.SOC.

PLINY

NATURAL HISTORY

VIII

LIBRI XXVIII—XXXII

PLINY
NATURAL HISTORY

WITH AN ENGLISH TRANSLATION
IN TEN VOLUMES

VOLUME VIII
LIBRI XXVIII-XXXII

BY

W. H. S. JONES, LITT.D., F.B.A.,

HONORARY FELLOW, ST. CATHARINE'S COLLEGE, CAMBRIDGE



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INTRODUCTION

FOR the contents of this volume there must be noted the following additions to the authorities already mentioned:

Codex Bambergensis, the oldest manuscript, 10th-century, with several correcting hands, styled B.

Codex Toletanus, 13th century, of the same family as V, R, d, styled T.

Green, Peter, *Prolegomena to the study of Magic and superstition in the Natural History of Pliny the Elder*, 1952, a typed doctoral thesis in the Cambridge University Library.

Wolters, X. F. M. G., *Notes on Antique Folklore based on Pliny's Natural History XXVIII, 22-29*, Amsterdam 1935.

Professor E. H. Warmington translated Book XXXII, sections 142-154; and compiled the Index of Fishes. He expresses his grateful thanks to Professor A. C. Andrews of the University of Miami for invaluable help in the identification of aquatic creatures in Pliny; and to members of the staff of the British Museum (Natural History), especially A. Wheeler, I. Galbraith, Miss J. E. King, Dr. Isabella Gordon, Miss A. M. Clark, and W. J. Rees, for bringing the scientific nomenclature up to date.

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NATURAL HISTORY
BOOK XXVIII

PLINII NATURALIS HISTORIAE

LIBER XXVIII

I. Dicta erat natura omnium rerum inter caelum ac terram nascentium restabantque quae ex ipsa tellure fodiuntur, si non herbarum ac fruticum tractata remedia auferrent transversos ex ipsis animalibus quae sanantur reperta maiore medicina. quid ergo? dixerimus herbas et florum imagines ac pleraque inventu rara ac difficilia, iidem tacebimus quid in ipso homine prosit homini ceteraque genera remediorum inter nos viventia, cum praesertim nisi carenti doloribus morbisque vita ipsa poena fiat? 2 minime vero, omnemque insumemus operam, licet fastidii periculum urgeat, quando ita decretum est, minorem gratiae quam utilitatum vitae respectum habere. quin immo externa quoque et barbaros etiam ritus indagabimus. fides tantum auctores appellet, quamquam et ipsi consensu prope iudicii ista eligere laboravimus potiusque curae rerum quam 3 copiae institimus. illud admonuisse perquam neces-

^a Or, "to more potent remedies." So Littré.

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BOOK XXVIII

I. I should have finished describing the character of all things growing between heaven and earth, leaving only whatever is dug out of the ground itself, if dealing with remedies derived from plants and shrubs did not make me digress to the wider sphere of medicines ^{Remedies from animals.} ^a obtained from the very living creatures that themselves are healed. Well then, shall I, who have described plants and forms of flowers, including many rare things that are difficult to find, say nothing about the benefits to man that are to be found in man himself, nothing about the other kinds of remedies that live among us, especially as life itself becomes a punishment for those who are not free from pains and diseases? Surely I must, and I shall devote all my care to the task, although I realize the risk of causing disgust, since it is my fixed determination to have less regard for popularity than for benefiting human life. Furthermore, my investigations will include foreign things and even outlandish customs; belief here can appeal only to authority, although I myself also, when choosing my detail, have striven to find views almost universally believed, and I have stressed careful research rather than abundance of material. One

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sarium est, dictas iam a nobis naturas animalium et quae cuiusque essent inventa—neque enim minus profuere medicinas reperiendo quam prosunt praebendo—nunc quae in ipsis auxiliuntur indicari, neque illic in totum omissa, itaque haec esse quidem alia, illis tamen conexas.

- 4 II. Incipiemus autem ab homine ipsum sibi exquirente,¹ immensa statim difficultate obvia. sanguinem quoque gladiatorum bibunt ut viventibus poculis comitiales [morbi],² quod spectare facientes in eadem arena feras quoque horror est. at, Hercule, illi ex homine ipso sorbere efficacissimum putant calidum spirantemque et vivam³ ipsam animam ex osculo vulnerum, cum plagis omnino ne⁴ ferarum quidem admoveri ora mos sit humanus.⁵ alii medullas crurum quaerunt et cerebrum infantium.
- 5 nec pauci apud Graecos singulorum viscerum membrorumque etiam sapes dixere omnia persecuti ad resigmina unguium, quasi vero sanitas videri possit feram ex homine fieri morboque dignum in ipsa medicina, egregia, Hercules, frustratione, si non prosit. aspici humana exta nefas habetur, quid

¹ exquirente *Urlichs*: exquirentes *RdE*: exquirentis *V*.

² morbi *in uncis Mayhoff*. *Sed cf. § 7 et § 35*.

³ vivam *Detlefsen*: unam *codd.*: una *Warmington*.

⁴ omnino ne *Mayhoff*: omne *V²Er*: ne *Gelenius, Detlefsen*.

⁵ mos sit humanus *Mayhoff*: fas sit. humanas *Detlefsen*. mos *Tf*: mus *V¹R*: mus fas *V²*: fas *Er*: humanus *omnes codd.*

^a See VIII. §§ 97 foll. and XXV. §§ 89 foll.

^b This seems to refer to the difficulty discussed in §§ 10 foll. Perhaps the rest of the chapter is an afterthought of

thing it is very necessary to point out: I have already described ^a the natures of living creatures and the discoveries we owe to each (for they did no less good by discovering medicines than they do by supplying them), I am now showing what help is to be found in the creatures themselves. I did not entirely leave out this then; so although the new matter is different, it is yet intimately connected with the old.

II. But I shall begin with man seeking aid for himself out of himself, and at the outset there will meet us a most baffling puzzle.^b The blood too of gladiators is drunk by epileptics as though it were a draught of life, though we shudder with horror when in the same arena we look at even the beasts doing the same thing. But, by Heaven!, the patients think it most effectual to suck from a man himself warm, living blood, and putting their lips to the wound ^c to drain the very life, although it is not the custom of men to apply their mouths at all to the wounds even of wild beasts. Others seek to secure the leg-marrow and the brain of infants. Not a few among the Greeks have even spoken of the flavour of each organ and limb, going into all details, not excluding nail parings; just as though it could be thought health for a man to become a beast, and to deserve disease as punishment in the very process of healing.^d And, by Heaven!, well deserved is the disappointment if these remedies prove of no avail. To look at human entrails is considered sin; what Pliny; Mayhoff, while reading *quoque* in his text, suggests *quippe* in his textual notes.

^c Perhaps, "by kissing the wounds," or, as Littré, "from the gaping wounds."

^d Or: "for the very remedies he adopts."

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6 mandi? quis ista invenit, Osthane? tecum enim
res erit, eversor iuris humani monstrorumque artifex
qui primus ea condidisti, credo, ne vita tui oblivis-
ceretur. quis invenit singula membra humana
mandere? qua coniectura inductus? quam potest
medicina ista originem habuisse? quis veneficia
innocentiora fecit quam remedia? esto, barbari
externique ritus invenerant, etiamne Graeci suas
7 fecere has artes? extant commentationes Demo-
criti ad aliud noxii hominis ex capite ossa plus
prodesse, ad alia amici et hospitis. iam vero
vi interempti dente gingivas in dolore scariphari
Apollonius efficacissimum scripsit, Meletos oculorum
suffusiones felle hominis sanari. Artemon calvaria
interfecti neque cremati propinavit aquam e fonte
noctu comitialibus morbis. ex eadem suspensio
interempti catapotia fecit contra canis rabiosi
8 morsus Antaeus. atque etiam quadrupedes homine¹
sanavere, contra inflationes boum perforatis cornibus
inserentes ossa humana, ubi homo occisus esset aut
crematus siliginem quae pernoctasset suum morbis
dando. procul a nobis nostrisque litteris absint
ista. nos auxilia dicemus, non piacula, sicubi lactis
puerperarum usus mederi poterit, sicubi saliva
9 tactusve corporis ceteraque similia. vitam quidem

¹ homine *Pintianus, Mayhoff*: homines *codd., Detlefsen*.

^a A Persian Magus of the early fifth century B.C. to whom were attributed many works on oriental magic.

^b Possibly, "guess-work."

^c Diogenes Laertius attributes to this philosopher works on medicine and regimen, and probably many spurious works also were foisted on him.

^d Probably a physician who lived in the first century B.C.

^e An unknown.

must it be to eat them? Who was the first, Osthane^a, to think of such devices as yours? For it is you who must bear the blame, you destroyer of human rights and worker of horrors; you were their first founder, in order, I suppose, to perpetuate your memory. Who first thought of chewing one by one human limbs? What soothsaying^b guided him? What origin could your medical practices have had? Who made magic potions more innocent than their remedies? Granted that foreigners and barbarians had discovered the rites, did the Greeks also make these arts their own? There is extant a treatise of Democritus^c stating that one complaint is more benefited by bones from the head of a criminal, and other complaints by those of a friend or guest. Moreover, Apollonius^d put in writing that to scrape sore gums with the tooth of a man killed by violence is most efficacious, and Meletos^e that the gall of a human being cures cataract. Artemon^f treated epilepsy with draughts of water drawn from a spring by night and drunk out of the skull of a man killed but not cremated. From the skull of a man hanged Antaeus^g made pills to cure the bites of a mad dog. Even quadrupeds too have been cured by remedies taken from a man; to cure flatulence in oxen their horns have been pierced and human bones inserted; for sick pigs wheat has been given which had remained for a whole night where a man had been killed or cremated. Far from me and my writings be such horrors. I shall speak not of sins but of aids, such as when will prove an effective remedy the milk of lying-in women, or human saliva, or contact with a human body, and the like. I do

^f An unknown.

^g An unknown.

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non adeo expetendam censemus ut quoquo modo trahenda sit. quisquis es talis,¹ aequae moriere, etiam cum² obscaenus vixeris aut nefandus. quapropter hoc primum quisque in remediis animi sui habeat, ex omnibus bonis quae homini tribuit natura nullum melius esse tempesteriva morte, idque in ea optimum quod illam sibi quisque praestare poterit.

- 10 III. Ex homine remediorum primum maximae quaestionis et semper incertae est, polleantne³ aliquid verba et incantamenta carminum. quod si verum est, homini acceptum fieri oportere conveniat, sed viritum sapientissimi cuiusque respuit fides, in universum vero omnibus horis credit vita nec sentit. quippe victimas caedi sine precatione
11 non videtur referre aut deos rite consuli. praeterea alia sunt verba inpetritis, alia depulsoriis, alia commendationis, videmusque certis precationibus obsecrasse⁴ summos magistratus et, ne quod verborum praetereatur aut praeposterum dicatur, de scripto praeire aliquem rursusque alium custodem dari qui adtendat, alium vero praeponi qui favere linguis iubeat, tibicinem canere, ne quid aliud exaudiatur, utraque memoria insigni, quotiens ipsae

¹ *Comma ante talis trans. Mayhoff.*

² *etiam cum multi codd., vulg., Detlefsen: etiam quam VT: tamquam Mayhoff.*

³ *polleantne VRdTf Mayhoff: valeantne Er vulg., Detlefsen.*

⁴ *obsecrasse] obsecrare coni. Mayhoff.*

^a With Mayhoff's reading: "Whoever you are, as such you will die, just as if your life will have been one of foulness or sin."

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- dirae obstrepentes nocuerint quotiensve precatio erraverit, sic repente extis adimi capita vel corda
12 aut geminari victima stante. durat inmenso exemplo Deciorum patris filiique quo se devovere carmen, extat Tucciae Vestalis incesti deprecatio qua usa aquam in cribro tulit anno urbis DXVIII. boario vero in foro Graecum Graecamque defossos aut aliarum gentium cum quibus tum res esset etiam nostra aetas vidit. cuius sacri precationem qua solet praeire XVvirum collegii magister si quis legat, profecto vim carminum fateatur, ea omnia adprobantibus DCCCXXX annorum eventibus.
- 13 Vestales nostras hodie credimus nondum egressa urbe mancipia fugitiva retinere in loco precatione, cum, si semel recipiatur ea ratio et deos preces aliquas exaudire aut ullis moveri verbis, confitendum sit de tota coniectatione. prisci quidem nostri perpetuo talia prodidere, difficillimumque ex his etiam fulmina elici, ut suo loco docuimus.
- 14 IV. L. Piso primo annalium auctor est Tullum Hostilium regem ex Numae libris eodem quo illum sacrificio Iovem caelo devocare conatum, quoniam parum rite quaedam fecisset, fulmine ictum, multi vero magnarum rerum fata et ostenta verbis per-

^a See Livy VIII. 9 and X. 28.

^b See Valerius Maximus VIII. 1.

^c 145 B.C.

^d Plutarch *Roman Questions* 283.

^e Or: "all magical charms must be accepted."

^f See Book II. § 140.

^g Consul in 133 B.C. and an opponent of the Gracchi.

denly the head of the liver, or the heart, has disappeared from the entrails, or these have been doubled, while the victim was standing. There has come down to us a striking example of ritual in that with which the Decii,^a father and son, devoted themselves; extant too is the plea of innocence uttered by the Vestal Tuccia^b when, accused of unchastity, she carried water in a sieve, in the year of the City six hundred and nine.^c Our own generation indeed even saw buried alive in the Cattle Market a Greek man and a Greek woman, and victims from other peoples with whom at the time we were at war.^d The prayer used at this ceremony is wont to be dictated by the Master of the College of the Quindecimviri, and if one reads it one is forced to admit that there is power in ritual formulas, the events of eight hundred and thirty years showing this for all of them. It is believed today that our Vestal virgins by a spell root to the spot runaway slaves, provided they have not left the City bounds, and yet, if this view is once admitted, that the gods hear certain prayers, or are moved by any form of words, the whole question must be answered in the affirmative.^e Our ancestors, indeed, reported such wonders again and again, and that, most impossible of all, even lightning can be brought by charms from the sky, as I have mentioned^f on the proper occasion.

IV. Lucius Piso^g in the first Book of his *Annals* tells us that King Tullus Hostilius used the same sacrificial ritual as Numa, which he found in Numa's books, in an attempt to draw Jupiter down from the sky, and was struck by lightning because he made certain mistakes in the ceremony; many indeed assure us that by words the destinies and omens of

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15 mutari. cum in Tarpeio fodientes delubro funda-
menta caput humanum invenissent, missis ob id ad
se legatis Etruriae celeberrimus vates Olenus Calenus
praeclarum id fortunatumque cernens interrogatione
in suam gentem transferre temptavit. scipione prius
determinata templi imagine in solo ante se: Hoc
ergo dicitis, Romani? hic templum Iovis optimi
maximi futurum est, hic caput invenimus? constan-
tissima annalium adfirmatione transiturum fuisse
16 fatum in Etruriam, ni praemoniti a filio vatis legati
Romani respondissent: Non plane hic sed Romae
16 inventum caput dicimus. iterum id accidisse tra-
dunt, cum in fastigium eiusdem delubri praeparatae
quadrigae fictiles in fornace crevissent, et iterum
17 simili modo retentum augurium. haec satis sint
exemplis ut appareat ostentorum vires et in nostra
potestate esse ac prout quaeque accepta sint ita
valere. in augurum certe disciplina constat neque
diras neque ulla auspicia pertinere ad eos qui
quamcumque¹ rem ingredientes observare se ea
negaverint, quo munere divinae indulgentiae maius
nullum est. quid? non et legum ipsarum in duo-
18 decim tabulis verba sunt: qui fruges excantassit, et
alibi: qui malum carmen incantassit? Verrius Flaccus
auctores ponit quibus credatur² in obpugnationibus

¹ qui quamcumque *coni. Mayhoff*: quicumque *Detlefsen*:
qui quamque *Mayhoff in textu, RdE vulg.*: quicquam quae V.

² credatur *Warmington*: credat *codd.*

^a Perhaps "obviously."

^b See *Remains of Old Latin* (Loeb) vol. III, pp. 474, 475 and 478, 479.

^c A distinguished writer of the latter part of the first century B.C. He wrote on history and antiquities, dying in the reign of Tiberius.

mighty events are changed. During the digging of foundations for a shrine on the Tarpeian Hill there was discovered a human head. For an interpretation envoys were sent to Olenus of Cales, the most distinguished seer of Etruria. Perceiving that the sign portended glory and success, Olenus tried by questioning to divert the blessing to his own people. He first traced with his staff the outline of a temple on the ground in front of him, and then asked: "Is this then, Romans, what you say? 'Here will be the temple of Jupiter, All-good and Almighty; here we found the head?'" The *Annals* most firmly insists that the destiny of Rome would have passed to Etruria, had not the Roman envoys, forewarned by the seer's son, replied: "Not exactly^a here, but it was in Rome that we say the head was found." It is said that the same thing happened again when a clay four-horse chariot, designed for the roof of the same shrine, grew larger in the furnace, and once more in a similar way was the happy augury retained. Let these instances suffice to show that the power of omens is really in our own control, and that their influence is conditional upon the way we receive each. At any rate, in the teaching of the augurs it is a fundamental principle that neither evil omens nor any auspices affect those who at the outset of any undertaking declare that they take no notice of them; no greater instance of the divine mercy could be found than this boon. Again, in the actual laws of the Twelve Tables we find also these words:^b "Whoever shall have bewitched the crops," and in another place: "whoever shall have cast an evil spell." Verrius Flaccus^c cites trustworthy authorities to show that it was the custom, at the

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ante omnia solitum a Romanis sacerdotibus evocari
deum cuius in tutela id oppidum esset promittique
illi eundem aut ampliorem apud Romanos cultum.
et durat in pontificum disciplina id sacrum, constat-
que ideo occultatum in cuius dei tutela Roma esset,
19 ne qui hostium simili modo agerent. defigi quidem
diris deprecationibus nemo non metuit. hoc pertinet
ovorum quae exorbuerit quisque calices coclearum-
que protinus frangi aut isdem coclearibus perforari.
hinc Theocriti apud Graecos, Catulli apud nos
proximeque Vergilii incantamentorum amatoria imi-
tatio. multi figlinarum opera rumpi credunt tali
modo, non pauci etiam serpentes; ipsas recanere
et hunc unum illis esse intellectum contrahique
Marsorum cantu etiam in nocturna quiete. etiam¹
parietes incendiolorum deprecationibus conscribuntur.
20 neque est facile dictu externa verba atque ineffabilia
abrogent fidem validius an Latina inopinata et²
quae inridicula videri cogit animus semper aliquid
inmensum exspectans ac dignum deo movendo,
21 immo vero quod numini imperet. dixit Homerus
profluvium sanguinis vulnerato femine Ulixen inhi-
buisse carmine, Theophrastus ischiadicos sanari,
Cato prodidit luxatis membris carmen auxiliare,

¹ etiam *multi codd.* *Detlefsen* : iam d, *Mayhoff*.

² et post Latina trans. *Mayhoff*.

^a See *Idyll* II.

^b See *Eclogues* VIII. The Catullus passages are not extant.

^c Referring to the so-called *Ephesia grammata* and gibberish of many incantations.

^d See *Odyssey* XIX. 457, where it is not Odysseus, but Autolycus and his sons that effect the cure.

^e See Athenaeus XIV. 18.

very beginning of a siege, for the Roman priests to call forth the divinity under whose protection the besieged town was, and to promise him the same or even more splendid worship among the Roman people. Down to the present day this ritual has remained part of the doctrine of the Pontiffs, and it is certain that the reason why the tutelary deity of Rome has been kept a secret is to prevent any enemy from acting in a similar way. There is indeed nobody who does not fear to be spell-bound by imprecations. A similar feeling makes everybody break the shells of eggs or snails immediately after eating them, or else pierce them with the spoon that they have used. And so Theocritus^a among the Greeks, Catullus and quite recently Virgil^b among ourselves, have represented love charms in their poems. Many believe that by charms pottery can be crushed, and not a few even serpents; that these themselves can break the spell, this being the only kind of intelligence they possess; and by the charms of the Marsi they are gathered together even when asleep at night. On walls too are written prayers to avert fires. It is not easy to say whether our faith is more violently shaken by the foreign, unpronounceable words,^c or by the unexpected Latin ones, which our mind forces us to consider absurd, being always on the look-out for something big, something adequate to move a god, or rather to impose its will on his divinity. Homer said that by a magic formula Ulysses^d stayed the haemorrhage from his wounded thigh; Theophrastus^e that there is a formula to cure sciatica; Cato^f handed down one to set dis-

^f See Cato CLX.

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M. Varro podagris. Caesarem dictatorem post unum ancipitem vehiculi casum ferunt semper ut primum consedisset, id quod plerosque nunc facere scimus, carmine ter repetito securitatem itinerum aucupari solitum.

- 22 V. Libet hanc partem singulorum quoque conscientia coarguere. cur enim primum anni incipientes¹ diem lactis precationibus invicem faustum ominamur? cur publicis lustris etiam nomina victimas ducentium prospera eligimus? cur effascinationibus adoratione peculiari occurrimus, alii Graecam Nemesis invocantes, cuius ob id Romae simulacrum in Capitolio est, quamvis Latinum
- 23 nomen non sit? cur ad mentionem defunctorum testamur memoriam eorum a nobis non sollicitari? cur in pares numeros ad omnia vehementiores credimus, idque in febribus dierum observatione intellegitur? cur ad primitias pomorum haec vetera esse dicimus, alia nova optamus? cur sternuentes salutamus, quod etiam Tiberium Caesarem, tristissimum, ut constat, hominum in vehiculo exegisse tradunt, et aliqui nomine quoque consalutare re-
- 24 ligiosius putant? quin et absentes tinnitu aurium praesentire sermones de se receptum est. Attalus adfirmat, scorpione viso si quis dicat duo, cohiberi nec vibrare ictus, et quoniam scorpio admonuit, in

¹ incipientes V(?)E *Detlefsen*: incipientis *Mayhoff*.

^a See Varro *R.R.* I. ii. 27.

^b Or (Wolters), "their rest is not being disturbed."

^c Or, "the more scrupulous think that they must."

^d Probably not Attalus III, King of Pergamus, who died in 133 B.C. Perhaps an unknown physician. See Wolters, p. 52.

^e "Africa was personified, in the time of Hadrian, as a woman, represented in divers ways on bronze coins, with a scorpion in her hand or on her head" (Wolters, p. 56).

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Africa nemo destinat aliquid nisi praefatus Africam, in ceteris vero gentibus deos ante obtestatus ut velint. nam si mensa adsit,¹ anulum ponere translaticium videmus, quoniam etiam mutas² religiones pollere
25 manifestum est. alius saliva post aurem digito relata sollicitudinem animi propitiat. pollices, cum faveamus, premere etiam proverbio iubemur. in adorando dextram ad osculum referimus totumque corpus circumagimus, quod in laevum fecisse Galliae religiosius credunt. fulgetras poppysmis adorare
26 consensus gentium est. incendia inter epulas nominata aquis sub mensam profusis abominamur. recedente aliquo ab epulis simul verri solum aut bibente conviva mensam vel repositorium tolli inauspicatissimum iudicatur. Ser. Sulpicii principis viri commentatio est quamobrem mensa linquenda³ non sit, nondum enim plures quam convivae numerabantur. nam sternumento revocari ferculum mensamve, si non postea gustetur aliquid, inter diras

¹ mensa adsit VRd, *Mayhoff*: mens adflicta sit *Detlefsen*.

² mutas *Sillig*: multas *codd.*: quin etiam mutas . . . est; nam si mensa adsit *Wolters*.

³ linquenda *codd.*: admovenda *Wolters*, qui nondum . . . numerabantur *in uncis ponit*.

^a *Mayhoff* would emend this dubious Plinian *nam* to *iam*, which is an improvement, but to transpose the clauses of this sentence (with *Wolters*) makes it possible to give *nam* its usual meaning: "Moreover, it is clear that actions even without words have powers, for it is a universal custom, we see, etc."

reminds me that in Africa nobody decides on anything without first saying "Africa," whereas among all other peoples a man prays first for the approval of the gods. But ^a when a table is ready it is a universal custom, we see, to take off one's ring, since it is clear that scrupulous actions, even without words, have their powers. Some people, to calm mental anxiety, carry saliva with the finger to behind the ear. There is even a proverb that bids us turn down ^b our thumbs to show approval. In worshipping we raise our right hand to our lips and turn round our whole body, the Gauls considering it more effective ^c to make the turn to the left. All peoples agree in worshipping lightning by clucking with the tongue. If during a banquet fires have been mentioned we avert the omen by pouring water under the table. It is supposed to be a most unlucky sign for the floor to be swept while a diner is leaving the banquet, or for a table or dumb-waiter to be removed while a guest is drinking. Servius Sulpicius, ^d a noble Roman, has left an essay on why we should not leave the table; ^e for in his day it was not the custom to have more tables than there were guests; for if a course or a table is recalled by a sneeze and nothing of it tasted afterwards, it is considered an evil portent, as

*Superstiti
at table.*

^b See Mayor on Juvenal III. 36. Wolters translates *premere* "to enclose."

^c So Wolters, making *religiosius* objective. Perhaps, however, it is subjective, meaning "more devout."

^d A contemporary of Cicero, who took part in the troublous politics of the period.

^e A difficult sentence. Wolters reads *admovenda* for *linquenda* and brackets *nondum . . . numerabantur* as a gloss. He also brackets *aut omnino non esse*. Much of the difficulty of this passage comes from the ambiguity of the word *mensa*. See the additional note A, page 563.

PLINY: NATURAL HISTORY

27 habetur, aut omnino non¹ esse. haec instituere illi qui omnibus negotiis horisque interesse credebant deos, et ideo placatos etiam vitiis nostris reliquerunt. quin et repente conticescere convivium adnotatum est² non nisi in pari praesentium numero, isque famae labor est ad quemcumque eorum pertinens. cibus etiam e manu prolapsus reddebatur³ utique per mensas, vetabantque munditiarum causa deflare, et sunt condita auguria, quid loquenti cogitante id acciderit, inter execratissima, si pontifici accidat dicis causa epulanti. in mensa utique id reponi
28 adolerique ad Larem piatio est. medicamenta priusquam adhibeantur in mensa forte deposita negant prodesse. ungues resecari nundinis Romanis tacenti atque a digito indice multorum persuasione⁴ religiosum est, capillum vero contra defluvia ac dolores capitis XVII luna atque XXVIII. pagana lege in plerisque Italiae praediis cavetur ne mulieres per itinera ambulantes torqueant fusos aut omnino detectos ferant, quoniam adversetur id omnium spei,
29 praecipue frugum. M. Servilius Nonianus princeps

¹ non *Gelenius*: nam E: inane fere omnes codd., *Mayhoff*, qui lacunam post habetur indicat: *del.* aut . . . esse *Wolters*.

² est codd.: set *Mayhoff*.

³ *Ante* reddebatur addit non *Wolters*.

⁴ multorum persuasione *Mayhoff*: mulierum peculiare *Detlefsen*: multorum pecuniae codd. *Fortasse* opinione (*Haupt*).

^a This could mean: "either considered an evil portent or none at all." (Warmington.)

^b Littré says "malgré nos vices."

^c So Bostock and Riley, and also *Wolters*, but Littré has: "de l'un quelconque d'entre eux."

^d The emendation of *Wolters*: "used not to be put back," is more in accordance with customs elsewhere.

is to eat nothing at all.^a These customs were established by those of old, who believed that gods are present on all occasions and at all times, and therefore left them to us reconciled even in our faults.^b Moreover, it has been remarked that a sudden silence falls on a banquet only when the number of those present is even, and that it portends danger to the reputation of each ^c of them. Food also that fell from the hand used to be put back ^d at least during courses, and it was forbidden to blow off, for tidiness, any dirt;^e auguries have been recorded from the words or thoughts of the diner who dropped food, a very dreadful omen being if the Pontiff should do so at a formal dinner. In any case putting it back on the table and burning it before the Lar counts as expiation.^f Medicines set down by chance on a table before being used are said to lose their efficacy. To cut the nails on the market days at Rome in silence, beginning with the forefinger, is a custom many people feel binding on them; while to cut the hair on the seventeenth day of the month and on the twenty-ninth prevents its falling out as well as headaches. A country rule observed on most Italian farms forbids women to twirl their spindles while walking along the road, or even to carry them uncovered, on the ground that such action blights the hopes of everything, especially the hope of a good harvest. Marcus Servilius Nonianus,^g a leading

*Various
other super-
stitions.*

^a Wolters thinks that *deflare* here means, "to remove." Perhaps: "blow off any crumbs to tidy up." So Warmington.

^f Wolters translates "as sin." He says that *piatio* here is the same as *piaculum*, holding that dropped food was left where it was.

^g Consul A.D. 35, died 59, and known personally to Pliny, who mentions him several times.

PLINY: NATURAL HISTORY

civitatis non pridem in metu lippitudinis, priusquam ipse eam nominaret aliusve ei praediceret, duabus litteris Graecis PA chartam inscriptam circumligatam lino subnectebat collo, Mucianus ter consul eadem observatione viventem muscam in linteolo albo, his remediis carere ipsos lippitudine praedicantes. carmina quidem extant contra grandines contraque morborum genera contraque ambusta, quaedam etiam experta, sed prodendo obstat ingens verecundia in tanta animorum varietate. quapropter de his ut cuique libitum fuerit opinetur.

30 VI. Hominum monstrificas naturas et veneficos aspectus diximus in portentis gentium et multas animalium proprietates, quae repeti supervacuum est. quorundam hominum tota corpora prosunt, ut ex his familiis quae sunt terrori serpentibus tactu ipso levant percussos suctuve madido,¹ quorum e genere sunt Psylli Marsique et qui Ophiogenes vocantur in insula Cypro, ex qua familia legatus Evagon nomine a consulibus Romae in dolium serpentium coniectus experimenti causa circum-
31 mulcentibus linguis miraculum praebuit. signum eius familiae est, si modo adhuc durat, vernis temporibus odoris virus. atque eorum sudor quoque

¹ madido E *Detlefsen*: modo *Mayhoff*: tumodo R: tumido *multi codd.*

^a These letters have no hidden meaning; "they probably belong to the abracadabra of magic" (Wolters). Perhaps they were intended to be the last two letters of it.

^b C. Licinius Mucianus was consul for the third time in A.D. 72. In 68-69 he was governor of Syria with a command of four legions. See Tacitus *Histories* I. 10.

^c See Book VII. §§ 13 foll.

citizen of Rome, who was not so long ago afraid of ophthalmia, used to tie round his neck, before he mentioned the disease himself or any one else spoke to him about it, a sheet of paper fastened with thread, on which were written the two Greek letters rho and alpha;^a Mucianus,^b three times consul, following the same observance, used a living fly in a white linen bag. Both avowed that by these remedies they themselves were kept free from ophthalmia. We certainly still have formulas to charm away hail, various diseases, and burns, some actually tested by experience, but I am very shy of quoting them, because of the widely different feelings they arouse. Wherefore everyone must form his own opinion about them as he pleases.

VI. Persons possessed of powers of witchcraft and of the evil eye, along with many peculiar characteristics of animals, I have spoken of^c when dealing with marvels of the nations; it is superfluous to go over the ground again. Of certain men the whole bodies are beneficent, for example the members of those families that frighten serpents. These by a mere touch or by wet suction^d relieve bitten victims. In this class are the Psylli, the Marsi, and the Ophiogenes, as they are called, in the island of Cyprus. An envoy from this family, by name Evagon, was at Rome thrown by the consuls as a test into a cask of serpents, which to the general amazement licked him all over. A feature of this family, if it still survives, is the foul smell of its members in spring. Their sweat also, not only

*People with
magic
power^s.*

^a There is much to be said for Mayhoff's *modo*, "only." But *madido* suggests that much fluid was drawn from the wound. Salmasius in fact conjectured *umido*.

PLINY: NATURAL HISTORY

medebatur, non modo saliva. nam in insula Nili Tentyri nascentes tanto sunt crocodilis terrori ut vocem quoque eorum fugiant. horum omnium generum insita¹ repugnantia interventum quoque mederi constat; sicuti adgravari vulnera introitu corum qui umquam fuerint serpentium canisve dente
32 laesi. iidem gallinarum incubitus, pecorum fetus abortu vitiant. tantum remanet virus ex accepto semel malo ut venefici fiant venena passi. remedio est ablui prius manus eorum aquaque illa eos quibus medearis inspergi. rursus a scorpione aliquando percussi numquam postea a crabronibus, vespis
33 apibusve feriuntur. minus miretur hoc qui sciat vestem a tineis non attingi quae fuerit in funere, serpentes aegre praeterquam laeva manu extrahi. e Pythagorae inventis non temere fallere,² impositivorum nominum inparem vocalium numerum clauditates oculive orbitatem ac similes casus dextris adsignare partibus, parem laevis. ferunt difficiles partus statim solvi, cum quis tectum in quo sit gravida transmiserit lapide vel missili ex his qui tria animalia singulis ictibus interfecerint, hominem, aprum,
34 ursum. probabilius id facit hasta velitaris evulsa corpori hominis, si terram non attigerit. eosdem enim inlata effectus habet. sic et sagittas corpori eductas, si terram non attigerint, subiectas cubantibus

¹ insita *Mayhoff*: in sua *codd.*

² fallere] *Mayhoff* fallare *coni.*, ut arbitrere *XI* § 82.

^a *I.e.* to disease, poison etc.

^b The *Thesaurus* gives *impositus* and *inditus* as equivalents of *impositivus*. A *nomen impositivum* would be any name

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PLINY: NATURAL HISTORY

amatorium esse Orpheus et Archelaus scribunt, quin et comitiales morbos sanari cibo e carne ferae occisae eodem ferro quo homo interfectus sit. quorundam partes medicae sunt, sicuti diximus de Pyrrhi regis pollice, et Elide solebat ostendi Pelopis scapula,¹ quam eburneam adfirmabant. naevos in facie tondere religiosum habent etiam nunc multi.

35 VII. Omnium vero in primis ieiunam salivam contra serpentes praesidio esse docuimus, sed et alios efficaces eius usus recognoscat vita. despuimus comitiales morbos, hoc est contagia regerimus. similimodo et fascinationes repercutimus dextraeque
36 clauditis occursum. veniam quoque a deis spei alicuius audacioris petimus in sinum spuendo, et iam² eadem ratione terna despuere precatatione³ in omni medicina mos est, atque ita effectus adiuvaré, incipientes furunculos ter praesignare ieiuna saliva. mirum dicimus, sed experimento facile: si quem paeniteat ictus eminus comminusve inlati et statim

¹ scapula quam *Gronovius, Detlefsen, qui lacunam indicat*: os ulnamque eam *Mayhoff*: pro scapula varia (ostilnam, ostiliam, ostiliani) *codd.*

² et iam *Detlefsen, Mayhoff, qui etenim vel multis etiam coni.*: etiam *Er*: om. plerique *codd.*

³ precatatione *Urlichs, Mayhoff*: deprecatione *Detlefsen, vulg.*: praedicatione *codd.*: an pro precatatione?

^a Many spurious works of a medical nature were attributed to the Orpheus of mythology.

^b Archelaus was possibly the Greek poet living in Egypt, some of whose epigrams are in the *Anthology*.

^c See Book VII. § 20.

^d Pausanias (V. 13, 4) says that the bone was the ὠμοπλάτη (shoulder blade), and that it had disappeared (ἠφάνιστο) by his time. Mayhoff's conjecture would mean "elbow."

^e Mayhoff brackets the last sentence, which seems out of place.

spear is carried indoors. So too, as Orpheus^a and Archelaus^b write, arrows drawn out of a body and not allowed to touch the ground act as a love-charm upon those under whom when in bed they have been placed. Moreover, add these authorities, epilepsy is cured by food taken from the flesh of a wild beast killed by the same iron weapon that has killed a human being. Some men have healing powers confined to parts of their body. We have mentioned the thumb of King Pyrrhus,^c and at Elis there used to be shown a shoulder blade^d of Pelops, which was stated to be of ivory. Many men even today have scruples about cutting hair from moles on the face.^e

VII. I have however pointed out that the best of all safeguards against serpents is the saliva of a fasting human being, but our daily experience may teach us^f yet other values of its use. We spit on epileptics in a fit, that is, we throw back infection.^g In a similar way we ward off witchcraft and the bad luck that follows meeting a person lame in the right leg. We also ask forgiveness of the gods for a too presumptuous hope by spitting into our bosom; the same reason again accounts for the custom, in using any remedy, of spitting on the ground three times by way of ritual,^h thus increasing its efficacy, and of marking early incipient boils three times with fasting saliva. It is surprising, but easily tested, that if one is sorry for a blow, whether inflicted by hand or by a missile, and at once

*Remedial
uses of
human
saliva.*

^f Or, "should examine."

^g From *hoc* to *regerimus* may be a gloss.

^h A curious ablative. Perhaps *pro precatone* or *cum precatone*. Spitting three times is a regular part of preparing or giving medicine or treatment.

PLINY: NATURAL HISTORY

expuat in mediam manum qua percussit, levatur
ilico in percusso culpa.¹ hoc saepe delumbata
quadrupede adprobatur statim a tali remedio correcto
37 animalis ingressu. quidam vero adgravant ictus
ante conatum simili modo saliva in manum ingesta.
credamus ergo et lichenas leprasque ieiunae inlitu
adsiduo arceri, item lippitudines matutina cottidie
velut inunctione, carcinomata † malo terrae subacto, †²
cervicis dolores saliva ieiuni dextra manu ad dextrum
poplitem relata, laeva ad sinistrum, si quod animal
38 aurem intraverit et inspuatur, exire. inter amuleta
est editae quemque urinae inspuere, similiter in
calciamentum dextri pedis priusquam induatur,
item cum quis transeat locum in quo aliquod periculum
adierit. Marcion Zmyrnaeus, qui de simplicibus
effectibus scripsit, rumpi scolopendras marinas sputo
trahit, item rubetas aliasque ranas, Ofilius serpentes,
si quis in hiatum earum expuat, Salpe torporem
sedari quocumque membro stupente, si quis in sinum
expuat aut si superiores palpebrae saliva tangantur.³
39 nos si haec et illa⁴ credamus rite fieri, extranei
interventu aut, si dormiens spectetur infans, a

¹ culpa *codd.* : poena *vulg.* : *Mayhoff* plaga *coni.*

² malo terrae subacto] *Mayhoff* terra ea subacta *coni.*
sed putat locum nondum sanatum esse.

³ superiores palpebrae saliva tangantur *ego* : superiores
palpebras saliva tangat. cur *Mayhoff* : superior palpebra
multi codd. : tangantur (*Vr*), tangatur, tangant *codd.*

⁴ Nos si haec et illa *Hermolaus Barbarus* : eo magis
Detlefsen : non et *Mayhoff* : nos aut eos *codd.*

^a See critical note and *Index of Plants* in vol. VII. There
is perhaps a lacuna, or *subacto* may be corrupt.

spits into the palm of the hand that gave the wound, the resentment of the victim is immediately softened. Corroborative evidence is often seen in draught animals; when the animal has been flogged to lameness, after the remedy of spitting has been tried, it at once resumes its pace. Some persons indeed add force to their blows in a similar way by spitting into the hand before making their effort. Let us therefore believe that lichens too and leprous sores are kept in check by continual application of fasting saliva, as is also ophthalmia by using saliva every morning as eye ointment, carcinomata by kneading earth apple ^a with saliva, and pains in the neck by applying fasting saliva with the right hand to the right knee and with the left hand to the left knee; let us also believe that any insect that has entered the ear, if spat upon, comes out. It acts as a charm for a man to spit on the urine he has voided; similarly to spit into the right shoe before putting it on, also when passing a place where one has run into some danger. Marcion of Smyrna,^b who wrote on the virtues of simples, tells us that the sea scolopendra bursts if spat upon, as do also bramble and other toads. Ofilius^c says that serpents too burst if one spits into their open mouths, and Salpe^d that sensation in any numbed limb is restored by spitting into the bosom, or if the upper eyelids are touched with saliva. If we hold these beliefs, we should also believe that the right course, on the arrival of a stranger, or if a sleeping baby is looked at, is for the nurse to spit three times at

^b An unknown.

^c Perhaps an error for Opilius, which is read by the MS d.

^d A woman of Lemnos who wrote on the diseases of women.

PLINY: NATURAL HISTORY

nutrice terna adspui? ¹ quamquam ² religione tutatur et Fascinus, imperatorum quoque, non solum infantium custos, qui deus inter sacra Romana a Vestalibus colitur et currus triumphantium sub his pendens defendit medicus invidiae, iubetque eosdem respicere ³ similis medicina linguae, ut sit exorata a tergo Fortuna gloriae carnifex.

40 VIII. Morsus hominis inter asperrimos quosque numeratur. medentur sordes ex auribus ac, ne quis miretur, etiam scorpionum ictibus serpentiumque statim inpositae, melius ex percussi auribus. produnt ita et redivias sanari, serpentium vero ictum contusi dentis humani farina.

41 IX. Capillus puero qui primum decisis est podagrae inpetus dicitur levare circumligatus, et in totum inpubium inpositus. virorum quoque capillus canis morsibus medetur ex aceto et capitum volneribus ex oleo aut vino; si credimus, a revulso cruci quartanis, combustus utique capillus carcinomati. pueri qui primus ceciderit dens, ut terram non attingat, inclusus in armillam et adsidue in brachio
42 habitus muliebrium locorum dolores prohibet. pollex in pede praeligatus proximo digito tumores inguinum

¹ adspui *codd. et edd.*: despui *C. F. W. Müller.*

² quamquam *E Detlefsen*: in os? quamquam *Mayhoff*: quamquam illos *VRdT.*

³ respicere *Gronovius*: recipere *codd.*

^a With the reading *despui*, "on the ground"; with *Mayhoff's* reading, "in the baby's face," or "mouth."

^b Fascinus was the spirit or daemon of the phallus, an emblem of which was hung round the necks of infants to keep away evil influences. An image was also attached to the car of a triumphant general, in which, too, was a slave, who bade him look back, saying: *respice post te, hominem te memento.* See *Juvenal X. 41.*

her charge.^a And yet the baby is further under the divine protection of Fascinus,^b guardian not only of babies but of generals, a deity whose worship, part of the Roman religion, is entrusted to the Vestals; hanging under the chariots of generals at their triumphs he defends them as a physician from jealousy, and the similar physic of the tongue bids them look back, so that at the back Fortune, destroyer of fame, may be won over.^c

VIII. The bite of a human being is considered *Human bite* to be a most serious one. It is treated with ear wax, and (let no one be surprised) this, if applied locally at once, is also good for the stings of scorpions and for the bites of serpents, being more efficacious if taken from the ears of the sufferer. Hangnails too are said to be cured in this way; the bite of serpents by a human tooth ground to powder.

IX. The hair cut off first from a child's head, if *Use of hair etc.* tied round the affected part,^d is said to relieve attacks of gout, as does the application of the hair of all, generally speaking, who have not arrived at puberty. The hair of adult men also, applied with vinegar, is good for dog bites, with oil or wine for wounds on the head. If we believe it, the hair of a man torn from the cross is good for quartan ague; burnt hair is certainly good for carcinoma. The first tooth of a child to fall out, provided that it does not touch the ground, if set in a bracelet and worn constantly on a woman's arm, keeps pain away from her private parts. If the big toe is tied to the one next to it,

^c Or, "kept away from behind."

^d Mayhoff puts a semicolon at *circumligatus* and a comma only at *inpositus*.

PLINY: NATURAL HISTORY

sedat, in manu dextera duo medi lino leviter colligati destillationes atque lippitudines arcent. quin et eiectus lapillus calculoso alligatus supra pubem levare ceteros dicitur ac iocineris etiam dolores et celeritatem partus facere. adicit Granius efficaciorē ad hoc esse ferro exemptum. partus accelerat hic mas ex quo quaeque conceperit, si cinctu suo soluto feminam cinxerit, dein solverit adiecta precatione se vinxisse, eundem et soluturum, atque abierit.

43 X. Sanguine ipsius hominis ex quacumque parte emisso efficacissime anginam inlini tradunt Orpheus et Archelaus, item ora comitali morbo conlapsorum, exurgere enim protinus. quidam, si pollices pedum pungantur eaeque guttae si ferantur¹ in faciem, aut si virgo dextro pollice attingat, hac coniectura
44 censentes virgines carnes edendas. Aeschines Atheniensis excrementorum cinere anginis medebatur et tonsillis uvisque et carcinomatis. hoc medicamentum vocabat botryon. multa genera morborum primo coitu solvuntur primoque feminarum mense aut, si id non contingit, longinqua fiunt maximeque comitiales. quin et a serpente, a scorpione percussos coitu levare produnt, verum feminas venere ea laedi. oculorum vitia fieri

¹ si ferantur *Urlichs, Detlefsen*: referantur *Mayhoff*: se ferantur *V*: sēferantur *R*.

^a An unknown.

^b See List of Diseases.

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PLINY: NATURAL HISTORY

negant nec lippire eos qui, cum pedes lavant, aqua inde ter oculos tangant.

45 XI. Inmatura morte raptorum manu strumas, parotidas, guttura tactu sanari adfirmant, quidam vero cuiuscumque defuncti, dumtaxat sui sexus, laeva manu aversa. et ligno fulgure icto reiectis post terga manibus demorderi aliquid et ad dentem qui doleat admoveri remedio esse produnt. sunt qui praecipiant dentem suffiri dente hominis sui sexus, et eum qui caninus vocetur insepulto exemp-
46 tum adalligari. terram e calvaria psilotrum esse palpebrarum tradunt, herba vero, si qua ibi genita sit, commanducata dentes cadere, ulcera non serpere osse hominis circumscripta. alii e tribus puteis pari mensura aquas miscent et prolibant novo fictili, relicum dant in tertianis accessu febrium bibendum. iidem in quartanis fragmentum clavi a cruce involutum lana collo subnectunt, aut spartum e cruce, liberatoque condunt caverna quam sol non attingat.

47 XII. Magorum haec commenta sunt, ut¹ cotem qua ferramenta saepe exacuta sint subiectam ignari cervicalibus de² veneficio deficientis evocare indicium, ut ipse dicat quid sibi datum sit et ubi et quo tempore, auctorem tamen non nominare. fulmine utique

¹ sunt, ut] sunt qui V : *Mayhoff* sicuti *coni.*

² de] e *coni.* *Mayhoff*, vel *delendum* *putat.*

^a Or, "after a cure has been effected."

^b Possibly "sorcery," "magic potion." Cf. Book XXV. § 10.

their feet, touch the eyes three times with the water they have used.

XI. We are assured that the hand of a person carried off by premature death cures by a touch scrofulous sores, diseased parotid glands, and throat affections; some however say that the back of any dead person's left hand will do this if the patient is of the same sex. A piece bitten off from wood struck by lightning by a person with hands thrown behind his back, if it is applied to an aching tooth, is a remedy we are told for the pain. Some prescribe fumigation of the tooth with a human tooth from one of the same sex, and to use as an amulet a dog-tooth taken from an unburied corpse. Earth taken out of a skull acts, it is said, as a depilatory for the eye-lashes, while any plant that has grown in the skull makes, when chewed, the teeth fall out, and ulcers marked round with a human bone do not spread. Some mix in equal quantities water from three wells, pour a libation from new earthenware, and give the rest to be drunk, at the rise of temperature, by sufferers from tertian ague. These also wrap up in wool and tie round the neck of quartan patients a piece of a nail taken from a cross, or else a cord taken from a crucifixion, and after the patient's neck has been freed^a they hide it in a hole where the sunlight cannot reach.

XII. Here are some lies of the Magi, who say that a whetstone on which iron tools have been often sharpened, if placed without his knowledge under the pillows of a man sinking from the effects of poisoning,^b actually makes him give evidence about what has been given him, where and when, but not the name of the criminal. It is certainly a fact

Magical cures.

Marvellous remedies of the Magi.

PLINY: NATURAL HISTORY

percussum circumactum in vulnus hominem loqui
48 protinus constat. inguinibus medentur aliqui liceum
telae detractum alligantes novenis septenisve nodis,
ad singulos nominantes viduam aliquam atque ita
inguini adalligantes. liceo et clavum aliudve quod
quis calcaverit alligatum ipsos inbent gerere, ne sit
dolori vulnus. verrucas abolent a vicensima luna in
limitibus supini ipsam intuentes ultra caput manibus
porrectis et quicquid adprehendere eo fricantes.
49 clavum corporis, cum cadit stella si quis destringat
vel¹ cito sanari aiunt, cardinibus ostiorum aceto
adfusis lutum fronti inlitum capitis dolorem sedare,
item laqueum suspendiosi circumdatum temporibus.
si quid e pisce haeserit faucibus, cadere demissis in
aquam frigidam pedibus, si vero ex aliis ossibus,
inpositis capiti ex eodem vase ossiculis, si panis
haereat, ex eodem in utramque aurem addito pane.
50 XIII. Quin et sordes hominis in magnis fecere
remediis quaestuosorum gymnasia² Graecorum,
quippe ea strigmenta molliunt, calfaciunt, discutiunt,
couplent, sudore et oleo medicinam facientibus.
volvis inflammatis contractisque admoventur. sic
et menses cient, sedis inflammationes et condylomata
leniunt, item nervorum dolores, luxata, articulorum
51 nodos. efficaciora ad eadem strigmenta a balneis, et

¹ vel *codd.*: vellere *Detlefsen* § 61 *coll.*

² quaestuosorum gymnasia *vulg.*, *Detlefsen*: quaestus
gymnici *Mayhoff*: quaestivo gimnit *VR*: quaestorum
gymnasia d.

^a Or, "recovers his power of speech."

^b Celsus (V. 11) says that *sordes ex gymnasio* is a discutient.

that the victim of lightning, if turned upon the wounded side, at once begins to speak.^a Some treat affections of the groin by tying with nine or seven knots a thread taken from a web, at each knot naming some widow, and so attach it to the groin as an amulet. To prevent a wound's being painful they prescribe wearing as an amulet, tied on the person with a thread, the nail or other object that he has trodden on. Warts are removed by those who, after the twentieth day of the month, lie face upwards on a path, gaze at the moon with hands stretched over their head, and rub the wart with whatever they have grasped. If a corn or callus is cut when a star is falling, they say that it is very quickly cured, and that applying to the forehead the mud obtained by pouring vinegar over a front door's hinges relieves headaches, as does also the rope used by a suicide if tied round the temples. Should a fish bone stick in the throat, they say that it comes out if the feet are plunged into cold water; if however it is another kind of bone, bits of bone from the same pot should be applied to the head; if it is a piece of bread that sticks, pieces from the same loaf must be placed in either ear.

XIII. Moreover, important remedies have been made by the profit-seeking Greeks even with human offscouring from the gymnasia; for the scrapings from the bodies soften, warm, disperse,^b and make flesh, sweat and oil forming an ointment. This is used as a pessary for inflammation and contraction of the uterus. So used it is also an emmenagogue; it soothes inflammations of the anus and condylomata, likewise pains of the sinews, dislocations, and knotty joints. More efficacious for the same purposes

Human offscourings.

PLINY: NATURAL HISTORY

ideo miscentur suppuratoriis medicamentis. nam illa quae sunt ex ceromate permixta caeno articulos tantum molliunt, calfaciunt, discutiunt efficacius, 52 sed ad cetera minus valent. excedit fidem inpudens cura qua sordes virilitatis contra scorpionum ictus singularis remedii celeberrimi auctores clamant, rursus in feminis quas ¹ infantium alvo editas in utero ipso contra sterilitatem subdi censent, meconium vocant. immo etiam ipsos gymnasiolorum rasere parietes, et illae quoque sordes excalfactoriam vim habere dicuntur, panos discutiunt, ulceribus senum puerorumque et desquamatis ambustisque inlinuntur.

53 XIV. Eo minus omitti convenit ab animo hominis pendentes medicinas. abstinere cibo omni aut potu, alias vino tantum aut carne, alias balneis, cum quid eorum postulet valetudo, in praesentissimis remediis habetur. his adnumeratur exercitatio, intentio vocis, ungui, fricari cum ratione. vehemens enim fricatio spissat, lenis mollit, multa adimit corpus, auget modica. in primis vero prodest ambulatio, gestatio et ea pluribus modis, equitatio stomacho et coxis 54 utilissima, phthisi navigatio, longis morbis locorum mutatio, item somno sibi mederi aut lectulo aut rara vomitione. supini cubitus oculis conducunt, at proni tussibus, in latera adversum destillationes.

¹ quas *codd.*: aquas conii. *Warmington.*

are scrapings from the bath, and so these are ingredients of ointments for suppurations. But those that have wax salve in them, and are mixed with mud, are more efficacious only for softening joints, for warming and for dispersing, but for all other purposes they are less powerful. Shameless beyond belief is the treatment prescribed by very famous authorities, who proclaim that male semen is an excellent antidote to scorpion stings, holding on the other hand that a pessary for women made from the faeces of babies voided in the uterus itself is a cure for barrenness; they call it meconium. Moreover, they have scraped the very walls of the gymnasia, and these offscourings are said to have great warming properties; they disperse superficial abscesses, and are applied as ointment to the sores of old people and children, as well as to excoriations and burns.

XIV. It would be all the less seemly to pass over the remedies that are in the control of a man's will. To fast from all food and drink, sometimes only from wine or meat, sometimes from baths, when health demands such abstinence, is held to be one of the most sovereign remedies. Among the others are physical exercise, voice exercises, anointing, and massage if carried out with skilled care; for violent massage hardens, gentle softens, too much reduces flesh and a moderate amount makes it. Especially beneficial however are walking, carriage rides of various kinds, horse riding, which is very good for the stomach and hips, a sea voyage for consumption, change of locality for chronic diseases, and self-treatment by sleep, lying down, and occasional emetics. Lying on the back is good for the eyes, on the face for coughs, and on either side for catarrhs. Aristotle

*Remedies
depending
on the will*

PLINY: NATURAL HISTORY

Aristoteles et Fabianus plurimum somnari circa ver et autumnum tradunt, magisque supino cubitu, at prono nihil, Theophrastus celerius concoqui dextri
55 lateris incubitu, difficilius a supinis. sol quoque remedium maximum ab ipso sibi praestari potest, sicuti linteorum strigiliumque vehementia. perfundere caput calida ante balnearum vaporationem et postea frigida, saluberrimum intellegitur, item praesumere et cibus et interponere frigidam eiusdemque potu¹ somnos antecedere et, si libeat, interrumpere. notandum nullum animal aliud calidos
56 potus sequi ideoque non esse naturales. mero ante somnos colluere ora propter halitus, frigida matutinis impari numero ad cavendos dentium dolores, item posca oculos contra lippitudines, certa experimenta sunt, sicut totius corporis valetudinem iuvari² varietate victus inobservata. Hippocrates tradit non prandentium celerius senescere exta. verum id remediis cecinit, non epulis, quippe multo utilissima est temperantia in cibus. L. Lucullus hanc de se praefecturam servo dederat, ultimoque probro manus in cibus triumphali seni deiciebatur vel in Capitolio epulanti, pudenda re servo suo facilius parere quam sibi.

¹ potu *codd.*: potus *Detlefsen*.

² valetudinem iuvari *Dal., Sillig, Detlefsen*: valetudini in *Mayhoff*; valetudini *aut.* valetudinē in *codd.*

^a *Aphorisms VI. 13.*

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PLINY: NATURAL HISTORY

57 XV. Sternumenta pinna gravedinem emendant, et si quis mulac nares, ut tradunt, osculo attingat, sternutamenta et singultum. ad hoc Varro suadet palmam alterna¹ manu scalpere, plerique anulum e sinistra in longissimum dextrae digitum transferre, in aquam ferventem manus mergere. Theophrastus senes laboriosius sternuere dicit.

58 XVI. Venerem damnavit Democritus ut in qua homo alius exiliret ex homine, et, Hercules, raritas eius utilior. athletae tamen torpentes restituuntur venere, vox revocatur, cum e candida declinat in fuscam. medetur et lumborum dolori, oculorum hebetationi, mente captis ac melancholicis.

59 XVII. Adsidere gravidis, vel cum remedium alicui adhibeatur, digitis pectinatim inter se inplexis veneficium est, idque conpertum tradunt Alcmena Herculem pariente, peius, si circa unum ambove genua, item poplites alternis genibus inponi. ideo haec in consiliis ducum potestatumve fieri vetuere maiores velut omnem actum inpedientia, vetuere
60 vero et sacris votisque simili modo interesse, capita autem aperiri aspectu magistratum non venerationis causa iussere, sed, ut Varro auctor est, valetudinis,

¹ alterna R, *Gelenius, Mayhoff*: in altera multi codd., *Detlefsen*: alterutra coni. *Warmington*.

^a Or, "discomfort."

XV. Sneezing caused by a feather relieves a cold in the head, and sneezing and hiccough are relieved by touching with the lips, it is said, the nostrils of a mule. For sneezing Varro advises us to scratch the palm of each hand with the other; most people advise us to transfer the ring from the left hand to the longest finger of the right, and to dip the hands into very hot water. Theophrastus says that old people sneeze with greater difficulty^a than others.

XVI. Sexual intercourse was disapproved of by Democritus, as being merely the act whereby one human being springs from another. Heaven knows, the less indulgence in this respect the better. Athletes, however, when sluggish regain by it their activity, and the voice, when it has lost its clearness and become husky, is restored. It cures pain in the loins, dulness of vision, unsoundness of mind and melancholia.

XVII. To sit in the presence of pregnant women, or when medicine is being given to patients, with the fingers interlaced comb-wise, is to be guilty of sorcery, a discovery made, it is said, when Alcmena was giving birth to Hercules. The sorcery is worse if the hands are clasped round one knee or both, and also to cross the knees first in one way and then in the other. For this reason our ancestors forbade such postures at councils of war or of officials, on the ground that they were an obstacle to the transaction of all business. They also forbade them, indeed, to those attending sacred rites and prayers; but to uncover the head at the sight of magistrates they ordered, not as a mark of respect, but (our authority is Varro) for the sake of health, for the habit of baring the head

*Sexual
intercourse*

*Various
unlucky
and lucky
acts.*

PLINY: NATURAL HISTORY

quoniam firmiora consuetudine ea fierent. cum quid oculo inciderit, alterum conprimitur prodest, cum aqua dextrae auriculae, sinistro pede exultari capite in dextrum umerum devexo, invicem e diversa aure. si tussim concitet saliva, in fronte ab alio adflari, si iaceat uva, verticem¹ morsu alterius suspendi, in cervicium dolore poplites fricare² aut cervicem in
61 poplitum, pedes in humo deponi, si nervi in his cruribusve tendantur in lectulo, aut si in laeva parte id accidat, sinistrae plantae pollicem dextra manu adprehendi, item e diverso, extremitates corporis velleribus perstringi contra horrores sanguinemve narium inmodicum,³ . . . lino vel papyro principia genitalium, femur medium ad cohibenda urinae profluvia, in stomachi solutione pedes pressare⁴ aut
62 manus in ferventem aquam demitti. iam et sermoni parci multis de causis salutare est. triennio Maecenatem Melissum⁵ accepimus silentium sibi imperavisse a convulsione reddito sanguine. nam eversos scandentesque ac iacentes si quid ingruat contraque ictus spiritum cohibere singularis praesidii est, quod
63 inventum esse animalis docuimus. clavum ferreum defigere in quo loco primum caput fixerit corruens

¹ verticem VdT, *Mayhoff*: a vertice R (?) E *vulg.*, *Detlefsen*.

² fricari *velit Sillig*.

³ Post inmodicum lacunam indicat *Mayhoff*.

⁴ pressari *velit Sillig*.

⁵ Melissi iussi *coni. Mayhoff*.

^a With the reading *a vertice*, "to hold him up suspended by the top of his head with another's teeth," a difficult feat, one would think.

^b *Mayhoff's* lacuna, filled up by *item circumligari*, would mean: "to tie round with thread or papyrus."

gives it greater strength. When something has fallen into the eye, it does good to press down the other; when water gets into the right ear, to jump with the left leg, leaning the head towards the right shoulder; if into the left ear, to jump in the contrary way; if saliva provokes a cough, for another person to blow on the forehead; if the uvula is relaxed, for another to hold up the top of the head ^a with his teeth; if there is pain in the neck, to rub the back of the knees, and to rub the neck for pain in the back of the knees; to plant the feet on the ground for cramp in feet or legs when in bed; or if the cramp is on the left side to seize with the right hand the big toe of the left foot and *vice versa*; to rub the extremities with pieces of fleece to stop shivers or violent nose-bleeding; . . . ^b with linen or papyrus the tip of the genitals and the middle of the thigh to check incontinence of urine; for weakness of the stomach to press together the feet or dip the hands into very hot water. Moreover, to refrain from talking is healthful for many reasons. Maecenas Melissus,^c we are told, imposed a three-year silence on himself because of spitting of blood after convulsions. But if any danger threatens those thrown down, climbing, or prostrate, and as a guard against blows, to hold the breath is an excellent protection, a discovery which, I have stated,^d we owe to an animal. To drive an iron nail into the place first ^e

^c The conjecture of Mayhoff would mean: "Maecenas, on the recommendation of Melissus," i.e., of his medical attendant.

^d See Book VIII. § 138.

^e Or, possibly: "into the place struck by the front of his head."

PLINY : NATURAL HISTORY

morbo comitiali absolutorium eius mali dicitur. contra renum aut lumborum, vesicae cruciatus in balnearum soliis pronos urinam reddere mitigatorium habetur. vulnera nodo Herculis praeligare mirum
64 quantum ocior medicina est, atque etiam cottidiani cinctus tali nodo vim quandam habere utilem dicuntur, quippe cum Herculaneum prodiderit numerum quoque quaternarium Demetrius condito volumine, et quare quaterni cyathi sextariive non essent potandi. contra lippitudines retro aures fricare prodest et lacrimosis oculis frontem. augurium ex homine ipso est non timendi mortem in aegritudine quamdiu oculorum pupillae imaginem reddant.

65 XVIII. Magna et urinae non ratio solum sed etiam religio apud auctores invenitur digestae in genera, spadonum quoque ad fecunditatis veneficia. verum ex his quae referre fas sit inpubium puerorum contra salivas aspidum quas ptyadas vocant, quoniam venena in oculos hominum expuant, contra oculorum albugines, obscuritates, cicatrices, argema, palpebras et cum ervi farina contra adustiones, contra aurium pura vermiculosque, si decoquatur ad dimidias partes cum porro capitato novo fictili. vaporatio quoque ea

^a A difficult knot with no ends to be seen.

^b Possibly a physician who lived about 200 B.C. Nothing else is known of him.

^c It is difficult to bring out the contrast between *ratio* and *religio* without suggesting notions of which Pliny, and perhaps the Romans generally, were ignorant. Possibly the former refers to a property supposed to be understood

struck by the head of an epileptic in his fall is said to be deliverance from that malady. For severe pain in the kidneys, loins or bladder, it is supposed to be soothing if the patient voids his urine while lying on his face in the tub of the bath. To tie up wounds with the Hercules knot ^a makes the healing wonderfully more rapid, and even to tie daily the girdle with this knot is said to have a certain usefulness, for Demetrius ^b wrote a treatise in which he states that the number four is one of the prerogatives of Hercules, giving reasons why four cyathi or sextarii at a time should not be drunk. For ophthalmia it is good to rub behind the ears, and for watery eyes the forehead. From the patient himself it is a reliable omen that, as long as the pupils of his eyes reflect an image, a fatal end to an illness is not to be feared.

*Medical
uses of ur*

XVIII. Our authorities attribute to urine also great power, not only natural but supernatural; ^c they divide it into kinds, using even that of eunuchs to counteract the sorcery that prevents fertility. But of the properties it would be proper to speak of I may mention the following:—the urine of children not yet arrived at puberty is used to counteract the spittle of the ptyas, an asp so called because it spits venom into men's eyes; for albugo, ^d dimness, scars, argema, ^d and affections of the eyelids; with flour of vetch for burns; and for pus or worms in the ear if boiled down to one half with a headed leek in new earthenware. Its steam too is an emmena-

(i.e. normal), and the latter to one mysterious and not understood (abnormal). Of course there are other meanings of *religio*, which may be objective or subjective.

^d For *albugo* and *argema* see List of Diseases. The *ptyas* (from *πτύω*) = the spitting asp.

PLINY: NATURAL HISTORY

66 menses feminarum ciet. Salpe fovet illa¹ oculos firmitatis causa, inlinit sole usta cum ovi albo, efficacius struthocameli, binis horis. hac et atramenti liturae abluuntur. virilis podagris medetur argumento fullonum, quos ideo temptari eo morbo negant. veteri miscetur cinis ostreorum adversus eruptiones in corpore infantium et omnia ulcera
67 manantia. ea exesis, ambustis, sedis vitiis, rhagadiis et scorpionum ictibus inlinitur. obstetricum nobilitas non alio suco efficacius curari pronuntiavit corporum pruritus, nitro addito ulcera capitem, porrigines, nomas, praecipue genitalium. sua cuique autem, quod fas sit dixisse, maxime prodest, confestim perfuso canis morsu, echinorumque spinis inhaerentibus² in spongea lanisve inposita aut adversus rabidi canis morsus cinere ex ea subacto, contraque serpentium ictus. nam contra scolopendras mirum proditur vertice tacto urinae suae gutta liberari protinus laesos.

68 XIX. Auguria valetudinis ex ea traduntur, si mane candida, dein rufa sit, illo modo concoquere, hoc concoxisse significatur. mala signa rubrae, pessima nigrae, mala bullantis. crassa,³ in qua quod subsidit si album est, significat circa articulos aut viscera dolorem imminere, eadem viridis morbum

¹ *Post illa add. cum E: cum luteo C. Brakman (Mnemosyne 1930).*

² *inhaerentibus] Post hoc verbum et codd. : del. vult Mayhoff: ego delevi.*

³ *crassa Mayhoff: crassae aut et crassae codd.*

^a Mayhoff thinks that there is a lacuna, e.g. "and honey."

^b Fullers used it in their work.

^c With the reading *crassae* "thick" will be an epithet applied to the bubbling urine.

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PLINY: NATURAL HISTORY

- viscerum, pallida bilis, rubens sanguinis. mala et in qua veluti furfures atque nubeculae apparent.
- 69 diluta quoque alba vitiosa est, mortifera vero crassa gravi odore et in pueris tenuis ac diluta. Magi vetant eius causa contra solem lunamque nudari aut umbram cuiusquam ab ipso respergi. Hesiodus iuxta obstantia reddi suadet, ne deum aliquem nudatio offendat. Osthanes contra mala medicamenta omnia auxiliari promisit matutinis suam cuique instillatam in pedem.
- 70 XX. Quae ex mulierum corporibus traduntur ad portentorum miracula accedunt, ut sileamus divisos membratim in scelera abortus, mensum piacula quaeque alia non obstetrices modo verum etiam ipsae meretrices prodidere, capilli si crementur, odore serpentes fugari, eodem nidore vulvae morbo
- 71 strangulatas respirare, cinere eo quidem, si in testa sint cremati vel cum spuma argenti, scabritias oculorum ac pruriginis emendari, item verrucas et infantium ulcera, cum melle capitis quoque vulnera et omnium ulcerum sinus, addito melle ac ture panos, podagras, cum adipe suillo sacrum ignem, sanguinem sisti, inlito item¹ fornicationes corporum.
- 72 XXI. De lactis usu convenit dulcissimum esse mollissimumque et in longa febre coeliacisque utilissimum, maxime eius quae iam infantem re-

¹ item *Mayhoff*: et in *codd.*: et *vulg.*

^a *Works and Days* ll. 727 foll.

^b A Magus who accompanied Xerxes on his expedition against Greece. See Book XXX. § 8, and the long article in Pauly, s.v. Osthanes.

^c See XXVIII § 85 *tactis omnino menstruo postibus inritas fieri Magorum artes*. It is however possible that the other meaning of *piaculum* ("crime") is intended here. Cf. many remarks in Chapter XXIII.

are diseased. Pale urine means diseased bile, red urine diseased blood. Bad urine also is that in which is to be seen as it were bran, and cloudiness. Watery, pale, urine also is unhealthy, but thick, foul-smelling urine indicates death, as does thin, watery urine from children. The Magi say that when making urine one must not expose one's person to the face of the sun or moon, or let drops fall on anyone's shadow. Hesiod ^a advises us to urinate facing an object that screens, lest our nakedness should offend some deity. Osthanes ^b assured people that protection against all sorcerers' potions is secured by letting one's own morning urine drip upon the foot.

XX. Some reported products of women's bodies *Remedies from women* should be added to the class of marvels, to say nothing of tearing to pieces for sinful practices the limbs of still-born babies, the undoing of spells by the menstrual fluid,^c and the other accounts given not only by midwives but actually by harlots. For example: that the smell of burnt woman's hair keeps away serpents, and the fumes of it make women breathe naturally who are choking with hysteria; this same ash indeed, from hair burnt in a jar, or used with litharge, cures roughness and itch of the eyes, as well as warts and sores on babies; that with honey it cures also wounds on the head and the cavities made by any kind of ulcer, with honey and frankincense, superficial abscesses and gout; that with lard it cures erysipelas and checks haemorrhage, and that when applied it cures also irritating rashes on the body.

XXI. As to the use of woman's milk, it is agreed that it is the sweetest and most delicate of all, very useful in long fevers and coeliac disease, especially the milk of a woman who has already weaned her

PLINY: NATURAL HISTORY

moverit. et in malacia stomachi, in febribus rosioni-
 busque efficacissimum experiuntur, item mammarum
 collectionibus cum ture, oculo ab ictu cruore suffuso
 et in dolore aut epiphora, si inmulgeatur, plurimum
 prodest, magisque cum melle et narcissi suco aut
 turis polline, superque in omni usu efficacius eius
 quae marem enixa sit multoque efficacissimum eius
 73 quae geminos pepererit mares et si vino ipsa cibusque
 acrioribus abstineat. mixto praeterea ovorum can-
 dido liquore madidaque lana frontibus inpositum¹
 fluctiones oculorum suspendit. nam² si rana saliva
 sua oculum asperserit, praecipuum est remedium,
 et contra morsum eiusdem bibitur instillaturque.
 eum qui simul matris filiaeque lacte inunctus sit
 liberari omni oculorum metu in totam vitam adfirmant.
 aurium quoque vitiis medetur admixto modice oleo
 aut, si ab ictu doleant,³ anserino adipe tepefactum.
 si sit odor gravior, ut plerumque fit longis vitiis,
 74 diluto melle lana includitur. et contra regium
 morbum in oculis relictum instillatur cum elaterio.
 peculiariter valet potum contra venena quae data
 sint e marino lepore, bupraesti,⁴ aut⁵ ut Aristoteles
 tradit, dorycnio,⁶ et contra insaniam quae facta sit
 hyoscyami potu. podagris quoque iubent inlini
 cum cicuta, alii cum oesypo et adipe anserino,

¹ inpositum *codd.*: inposita *coni.* *Mayhoff.*

² nam *codd.*: etiam *coni.* *Mayhoff.*

³ *Ante anserino an cum addendum?*

⁴ bupraesti] *varia codd.*: bupraestim *Detlefsen.*

⁵ aut] *mutatim multi codd.*: *del. Detlefsen*: aut etiam *Mayhoff.*

⁶ dorycnio *Mayhoff*: dorycnium *Detlefsen*: *varia codd.*

^a See *Index of Plants* in vol. VII.

^b Perhaps some species of cantharides.

baby. For nausea of the stomach, in fevers, and for gnawing pains, it is found most efficacious, also with frankincense for gatherings on the breasts. It is very beneficial to an eye that is bloodshot from a blow, in pain, or suffering from a flux, if it is milked straight into it, more beneficial still if honey is added and juice of narcissus^a or powdered incense. For all purposes, moreover, a woman's milk is more efficacious if she has given birth to a boy, and much the most efficacious is hers, who has borne twin boys and herself abstains from wine and the more acrid foods. Mixed moreover with liquid white of eggs, and applied to the forehead on wool soaked in it, it checks fluxes of the eyes. But if a toad has squirted its fluid into the eye it is a splendid remedy; for the bite also of the toad it is drunk and poured in drops into the wound. It is asserted that one who has been rubbed with the milk of mother and daughter together never needs to fear eye trouble for the rest of his life. Affections of the ears also are successfully treated by the milk mixed with a little oil, or, if there is any pain from a blow, warmed with goose grease. If there is an offensive smell from the ears, as usually happens in illnesses of long standing, wool is put into them soaked in milk in which honey has been dissolved. When jaundice has left traces remaining in the eyes, the milk together with elaterium is dropped into them. A draught of woman's milk is especially efficacious against the poison of the sea-hare, of the buprestis,^b or, as Aristotle tells us, of dorycnium, and for the madness caused by drinking henbane. Combined with hemlock it is also prescribed as a liniment for gout; others make it up with the suint of wool and goose

PLINY: NATURAL HISTORY

qualiter et vulvarum doloribus inponitur. alvum
etiam sistit potum, ut Rabirius scribit, et menses
75 ciet. eius vero quae feminam enixa sit ad vitia
tantum in facie sauanda praeualet. pulmonum
quoque incommoda lacte mulieris sanantur, cui si
admisceatur inpubis pueri urina et mel Atticum,
omnia.coclearium singulorum mensura, † marmora †¹
quoque aurium eici inuenio. eius quae marem pe-
perit lacte gustato canes rabiosos negant fieri.

76 XXII. Mulieris quoque salivam ieiunam potentem
diudicant cruentatis oculis et contra epiphoras, si
feruentes anguli oculorum subinde madefiant, effi-
caciis, si cibo vinoque se pridie ea abstinerit.
inuenio et fascia mulieris alligato capite dolores
minui.

77 XXIII. Post haec nullus est modus. iam primum
abigi grandines turbinesque contra fulgura ipsa mense
nudato. sic averti violentiam caeli, in navigando
quidem tempestates etiam sine menstruis. ex ipsis
vero mensibus, monstrificis alias, ut suo loco indica-
vimus, dira et infanda vaticinantur, e quibus dixisse
non pudeat, si in defectus lunae solisve congruat
vis² illa, inremediabilem fieri, non segnus et in silente
luna, coitusque tum maribus exitiales esse atque

¹ marmora *codd.*, *vulg.*: pura *Detlefsen coll.* § 65: vermes *Mayhoff*, qui etiam harenas renium, pro marmora aurium: pro marmora *coni.* murmura *Warmington*.

² vis *vulg.*, *Mayhoff*: pestis *Detlefsen*: is *VR*: *om. dx.*

^a None of the emendations of the corrupt *marmora* seems likely. Perhaps *Mayhoff*'s suggestion of *harenas renium* ("gravel expelled from the bladder") is the best. I translate *Mayhoff*'s *vermes*.

^b See Book VII. § 64.

grease, in the form that is also used as an application for pains of the uterus. A draught also acts astringently upon the bowels, as Rabirius writes, and is an emmenagogue. The milk of a woman however who has borne a girl is excellent, but only for curing spots on the face. Lung affections also are cured by woman's milk, and if Attic honey is mixed with it and the urine of a child before puberty, a single spoonful of each, I find that worms^a too are driven from the ears. The mother of a boy gives a milk a taste of which, they say, prevents dogs from going mad.

XXII. The saliva too of a fasting woman is judged to be powerful medicine for bloodshot eyes and fluxes, if the inflamed corners are occasionally moistened with it, the efficacy being greater if she has fasted from food and wine the day before. I find that a woman's breast-band tied round the head relieves headache.

XXIII. Over and above all this there is no limit to woman's power. First of all, they say that hailstorms and whirlwinds are driven away if menstrual fluid is exposed to the very flashes of lightning; that stormy weather too is thus kept away, and that at sea exposure, even without menstruation, prevents storms. Wild indeed are the stories told of the mysterious and awful power of the menstruous discharge itself, the manifold magic of which I have spoken of in the proper place.^b Of these tales I may without shame mention the following: if this female power should issue when the moon or sun is in eclipse, it will cause irremediable harm; no less harm if there is no moon; at such seasons sexual intercourse brings disease and death upon the

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- 78 pestiferos, purpuram quoque eo tempore ab his pollui, tanto vim esse maiorem, quocumque autem alio menstruo si nudatae segetem ambient, urucas et vermiculos scarabaeosque ac noxia alia decidere. Metrodorus Scepsius in Cappadocia inventum prodit ob multitudinem cantharidum; ire ergo per media arva resectis super clunes vestibus. alibi servatur ut nudis pedibus eant capillo cinctuque dissoluto. cavendum ne id oriente sole faciant, sementim enim arescere, item novella¹ tactu in perpetuum laedi, rutam et hederam res medicatissimas ilico mori.
- 79 multa diximus de hac violentia, sed praeter illa certum est apes tactis alvariis fugere, lina, cum coquantur, nigrescere, aciem in cultris tonsorum hebetari, aes contactu grave virus odoris accipere et aeruginem, magis si descrescente luna id accidat, equas, si sint gravidae, tactas abortum pati, quin et aspectu omnino, quamvis procul visas, si purgatio illa post virginitatem
- 80 prima sit aut in virgine aetatis sponte. nam et² bitumen in Iudaea nascens sola hac vi superari filo vestis contactae docuimus. nec igni quidem

¹ novella *multi codd.*, *Mayhoff*: novella prata *Detlefsen*: novella ta V¹.

² nam et *Detlefsen*: manet (*cum priore sententia*) *Mayhoff*: nam ut V: nam V² r: ut d T. *Coni. etiam eveniat Mayhoff.*

^a It should be noticed how often the word *vis* occurs in this chapter. It is curiously like the "mana" or "orenda" of modern students of folklore. See the article *Kultus* in Pauly.

^b It is hard to see how the readings of the MSS. have arisen, whatever reading or emendation we adopt. *Mayhoff's manet* would be more attractive were not *prima sit* the natural continuation of the clause introduced by *aut*. Is it possible

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vincitur quo cuncta, cinisque etiam ille, si quis aspargat lavandis vestibus, purpuras mutat, florem coloribus adimit. ne ipsis quidem feminis malo suo inter se immunibus abortus facit inlitu, aut si omnino praegnas
81 supergradiatur. quae Lais et Elephantis inter se contraria prodidere de abortivis,¹ carbone e radice brassicae vel myrti vel tamaricis in eo sanguine extincto, itemque asinas tot annis non concipere quot grana hordei contacta ederint, quaeque alia nuncupavere monstrifica aut inter ipsas pugnantia, cum haec fecunditatem fieri isdem modis quibus sterilitatem illa praenuntiaret, melius est non credere.
82 Bitbus Durrachinus hebetata aspectu specula recipere nitorem tradit isdem aversa rursus contuentibus, omnemque vim talem resolvi, si mullum piscem secum habeant, multi vero inesse etiam remedia tanto malo, podagris inlini, strumas et parotidas et panos, sacros ignes, furunculos, epiphoras tractatu mulierum carum leniri, Lais et Salpe canum rabiosorum morsus et tertianas quartanasque febres menstruo in lana arietis nigri argenteo bracchiali incluso, Diotimus Thebanus vel omnino vestis ita infectae portiuncula ac vel licio² bracchiali inserto.³

¹ abortivis *codd.*, *Detlefsen*: abortivo *post vet. Dal.*, *Mayhoff*.

² licio *Caesarius*, *Mayhoff*: pellicio d Tr, *vulg.*, *Detlefsen*: pelicio V R.

³ inserto T *Mayhoff*: inserte, inserta, insertae *codd.*: insertae *vulg.*, *Detlefsen*.

^a An unknown.

^b Authoress of poems admired by Tiberius. Perhaps the lady that Galen says wrote on the subject of cosmetics.

^c An unknown.

^d See note on § 38.

^e An unknown.

quering, overcomes it; even when reduced to ash, if sprinkled on clothes in the wash, it changes purples and robs colours of their brightness. Nor are women themselves immune to the effect of this plague of their sex; a miscarriage is caused by a smear, or even if a woman with child steps over it. Lais^a and Elephantis^b do not agree in their statements about abortives, the burning root of cabbage, myrtle, or tamarisk extinguished by the menstrual blood, about asses' not conceiving for as many years as they have eaten grains of barley contaminated with it, or in their other portentous or contradictory pronouncements, one saying that fertility, the other that barrenness is caused by the same measures. It is better not to believe them. Bithus^c of Dyrhachium says that a mirror which has been tarnished by the glance of a menstruous woman recovers its brightness if it is turned round for her to look at the back, and that all this sinister power is counteracted if she carries on her person the fish called red mullet. Many however say that even this great plague is remedial; that it makes a liniment for gout, and that by her touch a woman in this state relieves scrofula, parotid tumours, superficial abscesses, erysipelas, boils and eye-fluxes. Lais and Salpe^d hold that the bite of a mad dog, tertians, and quartans are cured by the flux on wool from a black ram enclosed in a silver bracelet; Diotimus^e of Thebes says that even a bit, nay a mere thread,^f of a garment contaminated in this way and enclosed in the bracelet,

^f With the reading *pellicio*: "even a bit of a contaminated garment inserted in a leather strap round the arm." There is something attractive about this reading, for which almost as much could be said as for *licio*.

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Sotira obstetrix tertianis quartanisque efficacissimum dixit plantas aegri subterlini, multoque efficacius ab ipsa muliere et ignorantis, sic et comitiales excitari. Icatidas medicus quartanas finiri coitu, incipientibus
84 dumtaxat menstruis, spopondit. inter omnes vero convenit, si aqua potusque formidetur a morsu canis, supposita tantum calici lacinia tali, statim metum eum discuti, videlicet praevalente sympathia illa Graecorum, cum rabiem canum eius sanguinis gustatu incipere dixerimus. cinere eo iumentorum omnium¹ ulcera sanari certum est addita caminorum farina et cera, maculas autem e veste eas non nisi
85 eiusdem urina ablui, cinerem per se rosaceo mixtum feminarum praecipue capitis dolores sedare inlitum fronti, asperrimamque vim profluvii eius esse per se annis virginitate resoluta. id quoque convenit, quo nihil equidem libentius crediderim, tactis omnino menstruo postibus inritas fieri Magorum artes,
86 generis vanissimi, ut aestimare licet. ponam enim vel modestissimum e promissis eorum, ex homine siquidem resigmina unguium e pedibus manibusque cera permixta, ita ut dicatur tertianae, quartanae vel cotidianae febris remedium quaeri, ante solis ortum alienae ianuae adfigi iubent ad remedia in his morbis, quanta vanitate, si falsum est, quanta vero noxia, si transferunt morbos! innocentiores ex

¹ omnium *codd.* : omnia *Mayhoff*, fortasse recte.

^a An unknown.

^b For *sympathia* see XXIV. § 1.

^c For transference see XXX. § 64 and E. Stemplinger *Antique und moderne Volkmedizin*, p. 66.

is sufficient. The midwife Sotira has said that it is a very efficacious remedy for tertians and quartans to smear with the flux the soles of the patient's feet, much more so if the operation is performed by the woman herself without the patient's knowledge, adding that this remedy also revives an epileptic who has fainted. Icatidas^a the physician assures us that quartans are ended by sexual intercourse, provided that the woman is beginning to menstruate. All are agreed that, if water or drink is dreaded after a dog-bite, if only a contaminated cloth be placed beneath the cup, that fear disappears at once, since of course that sympathy, as Greeks call it, has an all-powerful effect, for I have said that dogs begin to go mad on tasting that blood. It is a fact that, added to soot and wax, the ash of the flux when burnt heals the sores of all draught-animals, but menstrual stains on a dress can be taken out only by the urine of the same woman, that the ash, mixed with nothing but rose oil, if applied to the forehead, relieves headache, especially that of women, and that the power of the flux is most virulent when virginity has been lost solely through lapse of time. This also is agreed, and there is nothing I would more willingly believe, that if door-posts are merely touched by the menstrual discharge, the tricks are rendered vain of the Magi, a lying crowd, as is easily ascertained. I will give the most moderate of their promises: take the parings of a patient's finger nails and toe nails, mix with wax, say that a cure is sought for tertian, quartan or quotidian fever, and fasten them before sunrise on another man's door as a cure for these diseases. What a fraud if they lie! What wickedness if they pass the disease on!^c Less guilty are

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his omnium digitorum resigmina unguium ad cavernas formicarum abici iubent eamque quae prima coeperit trahere correptam subnecti collo, ita discuti morbum.

87 XXIV. Haec sunt quae retulisse fas sit ac pleraque ex his non nisi honore dicto, reliqua intestabilia, infanda, ut festinet oratio ab homine fugere. in ceteris claritates animalium aut operum sequemur. elephantis sanguis, praecipue maris, fluctiones omnes
88 quas rheumatismos vocant sistit. ramentis eboris cum melle Attico, ut aiunt, nubeculae in facie, scobe paronychia tolluntur. proboscidis tactu capitis dolor levatur, efficacius si et sternuat. dextra¹ pars proboscidis cum Lemnia rubrica adalligata inpetus libidinum stimulat. sanguis et syntecticis prodest, iocurque comitialibus morbis.

89 XXV. Leonis adipēs cum rosaceo cutem in facie custodiunt a vitiis candoremque. sanant et adusta nivibus articulorumque tumores. Magorum vanitas perunctis adipe eo faciliorem gratiam apud populos regesve promittit, praecipue tamen eo pingui quod
90 sit inter supercilia, ubi esse nullum potest. similia dentis, maxime a dextera parte, villique e rostro inferiore promissa sunt. fel aqua addita claritatem oculis inunctis facit et cum adipe eiusdem comitiales morbos discutit levi gustu et ut protinus qui sumpsere

¹ Warmington coni. sternuat a dextra (aut ad dextram). pars etc.

^a See the List of Diseases.

^b Does this mean a small piece taken from a dead animal? At any rate the sentence is queer, and one suspects corruption, or else a *lacuna* after *proboscidis*. Warmington's suggestion is a good one: "sneezes to the right. A bit of the trunk etc." The triangular tip of the trunk is still regarded by

those of them who tell us to cut all the nails, throw the parings near ant holes, catch the first ant that begins to drag a paring away, tie it round the neck, and in this way the disease is cured.

XXIV. This is all the information it would be right for me to repeat, most of which also needs an apology from me. As the rest of it is detestable and unspeakable, let me hasten to leave the subject of remedies from man. Taking the other animals I shall try to find what is striking either in them or in their effects.

The blood of an elephant, particularly that of the male, checks all the fluxes that are called *rheumatismi*.^a Remedies from the elephant. Ivory shavings with Attic honey are said to remove dark spots on the face, and ivory dust whitlows. By the touch of the trunk headache is relieved, more successfully if the animal also sneezes. The right side of the trunk^b used as an amulet with the red earth of Lemnos is aphrodisiac. The blood too is good for consumption, and the liver for epilepsy. Remedies from the lion.

XXV. Lion fat with rose oil preserves fairness of complexion and keeps the face free from spots; it also cures frost-bite and swollen joints. The lying Magi promise those rubbed with this fat a readier popularity with peoples and with kings, especially when the fat is that between the brows, where no fat can be. Similar promises are made about the possession of a tooth, especially one from the right side, and of the tuft beneath the muzzle. The gall, used with the addition of water as a salve, improves vision, and if lion fat is added a slight taste cures epilepsy, provided that those who have taken it at the. Burmese as aphrodisiac. See *Elephant Bill*, by J. H. Williams.

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cursu id digerant. cor in cibo sumptum quartanis medetur, adips cum rosaceo cotidianis febribus. perunctos eo bestiae fugiunt, resistere etiam insidiis videtur.

91 XXVI. Cameli cerebrum arefactum potumque ex aceto comitialibus morbis aiunt mederi, item fel cum melle potum, hoc et anginae, cauda arefacta solvi alvum, fimi cinere crispari capillum. cum oleo et dysintericis prodest inlitis cinis potusque quantum tribus digitis capiatur, et comitialibus morbis. urinam fullonibus utilissimam esse tradunt itemque ulceribus manantibus—barbaros constat servare eam quinquennio et heminis pota¹ ciere alvum—saetas e cauda contortas et sinistro bracchio alligatas quartanis mederi.

92 XXVII. Hyaenam Magi ex omnibus animalibus in maxima admiratione posuerunt, utpote cui et ipsi magicas artes dederint vimque qua alliciat ad se homines mente alienatos. de permutatione sexus annua vice diximus, ceteraque de monstrifica natura eius; nunc persequemur quaecumque medicinis
93 produntur. praecipue pantheris terrori esse traditur, ut ne contentur quidem resistere, et aliquid e corio eius habentem non adpeti, mirumque dictu, si pelles utriusque contrariae suspendantur, decidere pilos

¹ pota d vulg. *Mayhoff*: potae V *Detlefsen*: potam *Sillig*. *Mayhoff* barbaros servare cum manantibus coniungit. *Coni. hemina Warmington*.

^a *Mayhoff* would put a full stop not after *capillum* but after *oleo*. He refers to Dioscorides *Euphorista* I 91 (97): ἀπόπατος καμήλου καεῖσα καὶ σὺν ἐλαίῳ καταπλασθεῖσα. This, however, refers to an ointment for making children's hair beautiful and thick, not to one for making any hair curly. Of course some greasy base is usually necessary for the application of any powder.

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pantherae; cum fugiant venantem, declinare ad dexteram ut praegressi hominis vestigia occupent; quod si successerit, alienari mentem ac vel ex equo hominem decidere; at si in laevam detorserit, deficientis argumentum esse celeremque capturam, facilius autem capi, si cinctus suos venator flagellumque inperitans equo septenis alligaverit nodis. 94 mox, ut est sollers ambagibus vanitas Magorum, capi iubent geminorum signum transeunte luna singulosque prope pilos servari; capitis dolori inligatam cutem prodesse quae fuerit in capite eius; lippitudini fel inlitum frontibus aut, ne omnino lippiatur, decoctum cum mellis Attici cyathis tribus et croci uncia inunctum; sic et caligines discuti et 95 suffusiones; claritatem excitari melius inveterato medicamento, adservari autem in Cypria pyxide; eodem sanari argema, scabritias, excrescentia in oculis, item cicatrices, glaucomata vero iocineris recentis inassati sanie cum despumato melle inunctis. dentes eius dentium doloribus tactu prodesse vel alligatos ordine,¹ umeros umerorum et lacertorum doloribus; eiusdem dentes, si de sinistra parte rostri, inligatos pecoris aut capri pelle stomachi cruciatibus, 96 pulmones in cibo sumptos coeliacis, ventriculis²

¹ ordine, humeros *vulg.*, *Detlefsen*: numeri ordine *Mayhoff*: humeri (umeri) ordine *codd.* An numeri ordine, humeros?

² ventriculis *codd.*: vel ventriculi *Mayhoff*.

^a With *Mayhoff*'s reading, "the shoulders" should be omitted. This reading keeps the order of words in the MSS., but the sympathetic (or imitative) magic disappears.

of the panther fall off. When an hyaena is running away from the hunter, any swerve it makes to the right has for its object stepping in the man's tracks as he now goes in front. If it succeeds, the man is deranged and even falls off his horse. Should however the hyaena swerve to the left, it is a sign of failing strength and a speedy capture; this will be easier however if the hunter tie his girdle with seven knots, and seven in the whip with which he controls his horse. The Magi go on to recommend, so cunning are the evasions of the fraudulent charlatans, that the hyaena should be captured when the moon is passing through the constellation of the Twins, without, if possible, the loss of a single hair. They add that the skin of its head if tied on relieves headache; that the gall if applied to the forehead cures ophthalmia, preventing it altogether if an ointment is made of gall boiled down with three cyathi of Attic honey and one ounce of saffron, and that the same prescription disperses film and cataract. They say that clear vision is secured better if the medicament is kept till old, but it must be in a box of copper; the same is a cure for argema, scabbiness, excrescences and scars on the eyes, but opaqueness needs an ointment made with gravy from fresh roasted liver added to skimmed honey. They add that hyaena's teeth relieve toothache by the touch of the corresponding tooth, or by using it as an amulet, and the shoulders^a relieve pains of the shoulders and arm muscles; that the animal's teeth (but they must be from the left side of the muzzle), wrapped in sheep skin or goat skin, are good for severe pains in the stomach, the lungs taken as food for coeliac disease, and their

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cinerem cum oleo inlitum; nervis medullas e dorso
 cum oleo vetere ac felle; febribus quartanis iocur
 degustatum ter ante accessiones; podagris spinae
 cinerem cum lingua et dextro pede vituli marini
 addito felle taurino, omnia pariter cocta atque inlita
 97 hyaenae pelle; in eodem morbo prodesse et fel
 cum lapide Assio; tremulis, spasticis, exilientibus
 et quibus cor palpitet aliquid ex corde coctum
 mandendum ita ut reliquae partis cinis cum cerebro
 hyaenae inlinatur; pilos etiam auferri hac conposi-
 tione inlita aut per se felle, evulsis prius quos renasci
 non libeat; sic et palpebris inutiles tolli; lumborum
 doloribus carnes e lumbis edendas inlinendasque cum
 oleo; sterilitatem mulierum emendari oculo cum
 glycyrrhiza et aneto sumpto in cibo, promisso intra
 98 triduum conceptu. contra nocturnos pavores um-
 brarumque terrorem unus e magnis dentibus lino
 alligatus succurrere narratur. suffiri furentes eodem
 et circumligari ante pectus cum adipe renium aut
 iocinere aut pelle¹ praecipiunt. mulieri candida a
 pectore hyaenae caro et pili septem² et genitale
 cervi, si inligentur dorcadis pelle, e³ collo suspensa
 99 continere partus promittuntur; venerem stimulare
 genitalia ad sexus suos⁴ in melle sumpta, etiamsi

¹ pelle *codd.*: felle *coni.* *Mayhoff*, fortasse recte.

² septem *codd.*: septeni *Mayhoff*.

³ e *add.* *Mayhoff*: om. *codd.*

⁴ ad sexus suos *codd.*: ab sexu suo *coni.* *Mayhoff*.

^a The power of the number three is superior to the imitative magic of the "four" that we should expect for quartans.

^b See XXXVI. § 131 for the *sarcophagus lapis* found at Assos in the Troad.

^c *Mayhoff's felle* for the *pelle* of the MSS. is most attractive. A few words later on *pelle* occurs, and might easily cause the change from *felle* to *pelle*.

ash, applied with oil, for pain in the belly; that sinews are soothed by its spinal marrow with its gall and old oil, quartan fevers relieved by three^a tastes of the liver before the attacks, gout by the ash of the spine, with the tongue and right foot of a seal added to bull's gall, all being boiled together and applied on hyaena skin. In the same disease the gall of the hyaena (so they say) with the stone of Assos^b is beneficial; adding that those afflicted with tremors, spasms, jumpiness, and palpitation, should eat a piece of the heart boiled, but the rest must be reduced to ash and hyaena's brain added to make an ointment; that an application of this mixture or of the gall by itself removes hairs, those not wanted to grow again must first be pulled out; by this method unwanted eye-lashes are removed; that for pains in the loins flesh of an hyaena's loins should be eaten and used as an ointment with oil; that barrenness in women is cured by an eye taken in food with liquorice and dill, conception being guaranteed within three days. For night terrors and fear of ghosts one of the large teeth tied on with thread as an amulet is said to be a help. They recommend fumigation with such a tooth for delirium, and to tie one round in front of the patient's chest, adding fat from the kidneys, or a piece of liver, or of skin.^c A woman is guaranteed never to miscarry if, tied round her neck in gazelle leather, she wears white flesh from a hyaena's breast, seven hyaena's hairs, and the genital organ of a stag. A hyaena's genitals taken in honey stimulate desire for their own sex,^d even when men hate inter-

^a Mayhoff's *a sexu suo* would mean "from homosexuality."

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viri mulierum coitus oderint; quin immo totius domus concordiam eodem genitali et articulo spinae cum adhaerente corio adservatis constare. hunc¹ spinae² articulum sive³ nodum Atlantion vocant; est autem primus. in comitialium quoque remediis
100 habent eum. adipe accenso serpentes fugari dicunt; maxilla comminuta in aneso et in cibo sumpta horrores sedari; eodem suffitu mulierum menses evocari. tantumque est vanitatis ut, si ad brachium alligetur superior e dextra parte rostri dens, iaculantium ictus deerraturos negent. palato eiusdem arefacto et cum alumine Aegyptio calefacto ac ter in ore permutato faectores et ulcera oris emendari, eos vero qui lingnam in calciamento sub pede habeant non
101 latrari a canibus; sinistra parte cerebri naribus inlita morbos perniciosos mitigari sive hominum sive quadripedum; frontis corium fascinationibus resistere, cervicis carnes, sive mandantur sive arefactae bibantur, lumborum doloribus; nervis a dorso armisque suffiendos nervorum dolores, pilos rostri admotos mulierum labris amatorium esse; iocur in
102 potu datum torminibus et calculis mederi. nam cor in cibo potuve sumptum omnibus doloribus corporum auxiliari, lienem lienibus, omentum ulcerum inflammationibus cum oleo, medullas doloribus spinae et nervorum lassitudini; renium nervos potos in

¹ hunc r : hinc *rel. codd.*

² spinae *rel. codd.* : ruinae r.

³ sive *codd.* : scite *Mayhoff*, qui etiam lacunam ante sive *coni.*

^a The text is very uncertain, but *Mayhoff's scite* ("cleverly") can hardly be right. The variant *ruinae* shows that the source of corruption lies very deep.

course with women; nay the peace of the whole household is assured by keeping in the home these genitals and a vertebra with the hide still adhering to them. This vertebra or joint they call the Atlas joint;^a it is the first. They consider it too to be one of the remedies for epilepsy. They add that burning hyaena fat keeps serpents away; that the jawbone, pounded in anise and taken in food, relieves fits of shivering, and that fumigation with it is an emmenagogue. They lie so grossly as to declare that, if an upper tooth from the right side of the muzzle is tied to the arm of a man, his javelin will never miss its mark. They say too that the palate of a hyaena, dried, and warmed with Egyptian alum,^b cures foul breath and ulcers in the mouth, if the mixture is renewed three times; that those however who carry a hyaena's tongue in their shoe under the foot never have dogs bark at them; that if a part of the left side of the brain is smeared on patients' nostrils dangerous diseases are relieved, whether of man or quadruped; that the hide of the forehead averts the evil eye, and the flesh of the neck, whether eaten, or dried and taken in drink, is good for lumbago; that sinews from the back and shoulders should be used for fumigating painful sinews; that hairs from the muzzle, applied to a woman's lips, act as a love-charm; that the liver given in drink cures colic and stone in the bladder. But they add that the heart, taken either in food or in drink, gives relief from all pains of the body, the spleen from those of the spleen, the caul with oil from inflamed ulcers, and the marrow from pains of the spine and of tired sinews; that the kidney sinews

^b For *alumen* see Spencer's *Celsus* vol. II p. xviii.

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vino cum ture fecunditatem restituere ademptam
 veneficio; vulvam cum mali Punici dulcis cortice
 in potu datam prodesse mulierum vulvae; adipe a
 lumbis suffiri parientes difficulter et statim parere; e
 dorso medullam adalligatam contra vanas species
 103 opitulari, spasticis genitale e maribus suffitu, item
 lippientibus; ruptis et contra inflammationes,
 servatos¹ pedes tactu, laevos dexteris partibus,
 dexteros laevis; sinistrum pedem superlatum par-
 turienti letalem esse, dextro inlato facile eniti.
 membranam quae fel continuerit cardiacis potam in
 vino vel in cibo sumptam² succurrere; vesicam in
 vino potam contra urinae incontinentiam; quae
 104 autem in vesica inventa sit urina, additis oleo ac
 sesamis et melle haustam prodesse stomachi acri-
 moniae³ veteri. costarum primam et octavam
 suffitu ruptis salutarem esse; ex spina vero partu-
 rientibus ossa; sanguinem cum polenta sumptum
 torminibus; eodem tactis postibus ubicumque
 Magorum infestari artes, non elici deos nec conloqui,

¹ servatos *codd.*: adversos *Mayhoff*, qui etiam alternos *coni.*: fervefactos *coni. Sillig.*

² Post sumptam habent contra (r excepto) *codd.*: post contra lacunam indicat *Mayhoff*.

³ stomachi acrimoniae *Mayhoff*: acrimoniae *Caesarius*: aegrioniae *Gelenius*, *Hermolaus Barbarus*: aegrimonio *codd.*

^a A semicolon at *lippientibus* improves the run of this sentence.

^b The *servatos* of the MSS. can hardly be right, but it just makes sense, and the proposed emendations are not convincing.

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sive lucernis sive pelvi, sive aqua sive pila, sive quo alio genere temptetur; carnes si edantur, contra rabidi canis morsus efficaces esse, etiamnum iocur efficacius. carnes vel ossa hominis quae in ventriculo
105 occisae inveniantur suffitu podagricis auxiliari; si ungues inveniantur in his, mortem alicuius capiendum significari; excrementa sive ossa reddita, cum interematur, contra magicas insidias pollere; fimum quod in intestinis inventum sit arefactum ad dysin- tericos valere, potum inlitumque cum adipe anserino toto corpore opitulari laesis malo medicamento; a cane vero morsis adipem inlitum et corium substratum; rursus tali sinistri cinere decocto cum
106 sanguine mustelae perunctos omnibus odio venire; idem fieri oculo decocto. super omnia est quod extremam fistulam intestini contra ducum ac potestatum iniquitates commonstrant et ad successus petitionum iudiciorumque ac litium eventus, si omnino¹ aliquis secum habeat; eiusdem caverna in sinistro lacerto alligata si quis mulierem prospiciat, amatorium esse tam praesens ut ilico sequatur; eiusdem loci pilorum cinerem ex oleo inlitum viris qui sint probrosae mollitiae severos, non modo pudicos mores induere.

¹ omnino *Mayhoff*: omnino tantum *codd.*

^a For another list of apparatus see XXX. § 14 *aqua et sphaeris et aere et stellis et lucernis ac pelvibus securibusque*. Some of the articles are suggestive of modern fortune-telling.

whether they try lamps, bowl, water, globe,^a or any other means; that to eat the flesh neutralizes the bites of a mad dog, the liver being still more efficacious. They add that the flesh or bones of a man found in the stomach of an hyaena when killed relieve gout by fumigation; that if finger nails are found in them it is a sign of death for one of the hunters; that excrement or bones, voided when the beast is being killed, can prevail against the insidious attacks of sorcerers; that dung found in the intestines is, when dried, excellent for dysentery, and, taken in drink and applied with goose grease, gives relief anywhere in the body to the victims of noxious drugs; that for dog-bites, however, rubbing with the fat as ointment, and lying on the skin, are helpful; that on the other hand those rubbed with the ash of the left pastern bone, boiled down with weasel's blood, incur universal hatred, the same effect being produced by a decoction of the eye. Over and above all these things they assert that the extreme end of the intestine prevails against the injustices of leaders and potentates, bringing success to petitions and a happy issue to trials and lawsuits if it is merely kept on the person; that the anus, worn as an amulet on the left arm, is so powerful a love-charm that, if a man but espies a woman, she at once follows him; that the hairs also of this part, reduced to ashes, mixed with oil, and used as ointment on men guilty of shocking effeminacy, make them assume, not only a modest character, but one of the strictest morality.^b

^b This remarkable chapter, throwing light as it does on folk-medicine and ancient superstitions, calls for a longer note than can be printed in the text. See Additional Note B (p. 563).

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107 XXVIII. Proxime fabulosus est crocodilus ingenio¹
 quoque, ille cui vita in aqua terraque communis.
 duo enim genera eorum. illius e dextra maxilla
 dentes adalligati dextro lacerto coitus, si credimus,
 stimulant, canini dentes febres statas arcent ture
 repleti—sunt enim cavi—ita ne diebus quinque ab
 aegro cernatur qui adalligaverit. idem pollere et
 108 ventre exemptos lapillos adversus febrium horrores
 venientes tradunt. eadem de causa Aegypti perun-
 gunt adipe aegros suos. alter illi similis, multum
 infra magnitudine, in terra tantum odoratissimisque
 floribus vivit. ob id intestina eius diligenter ex-
 quiruntur iucundo nidore referta; crocodileam
 vocant, oculorum vitiis utilissimam cum porri suco
 109 inunctis et contra suffusiones vel caligines. inlita
 quoque ex oleo cyprino molestias in facie nascentes
 tollit, ex aqua vero morbos omnes quorum natura
 serpit in facie, nitoremque reddit. lentigines tollit
 ac varos maculasque omnes, et contra comitiales
 morbos bibitur ex aceto mulso binis obolis. adposita
 menses ciet. optima quae candidissima et friabilis
 minimeque ponderosa, cum teratur inter digitos,
 110 fermentescens. lavatur ut cerussa. adulterant amylo
 aut Cimolia, sed maxime <sturnorum fimo quos>²
 captos oryza tantum pascunt. felle inunctis oculis
 ex melle contra suffusiones nihil utilius praedicant.

¹ ingenio (ingento V) *codd.*: ingens *Harduinus*. Post magnitudine (*l. 11*) ingenio quoque *transferre velit Warmington, fortasse recte.*

² sturnorum fimo quos *Ianus, Detlefsen, ex Dioscoride (II 80), sed qui r Gelenius, Mayhoff*: sui VRd *vulg.*

^a Hardouin's ingenious conjecture would mean: "and he is a huge creature, and amphibious."

^b Jan's addition is due to Dioscorides II 80: *δορίζουσι δὲ αὐτὴν ψᾶρας ὀρύζῃ τρέφοντες καὶ τὴν ἄφοδον ὁμοίαν οὔσαν πωλοῦντες.*

XXVIII. Almost as legendary is the crocodile, *Crocodile.* in its nature ^a also—I mean the famous one, which is amphibious; for there are two kinds of crocodiles. His teeth from the right jaw, worn as an amulet on the right arm, are (if we believe it) aphrodisiac, while the dog teeth, stuffed with frankincense (for they are hollow), drive away the intermittent fevers if the sick man can be kept for five days from seeing the person who fastened them on. It is said that pebbles taken from his belly have a similar power to check feverish shivers as they come on. For the same reason the Egyptians rub their sick with its fat. The other kind of crocodile is similar to this, though much smaller in size, living only on land and eating very sweet-scented flowers. Its intestines therefore are much in demand, being filled with fragrant stuff called crocodilea, which with leek juice makes a very useful salve for affections of the eyes, and to treat cataract or films. Applied also with cyprus oil crocodilea removes blotches appearing on the face, with water indeed all those diseases the nature of which is to spread over the face, and it also clears the complexion. It removes freckles, pimples, and all spots; two-oboli doses are taken in oxymel for epilepsy, and a pessary made of it acts as an emmenagogue. The best kind is very shiny, friable, and extremely light, fermenting when rubbed between the fingers. It is washed in the same way as white lead. They adulterate it with starch or Cimolian chalk, but mostly with the dung of starlings,^b which they catch and feed on nothing but rice. We are assured that there is no more useful remedy for cataract than to anoint the eyes with crocodile's gall and honey. They say

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- intestinis et reliquo corpore eius suffiri vulva laborantes salutare tradunt, item velleribus circumdari vapore eiusdem infectis. corii utriusque cinis ex aceto inlitis his partibus quas secari opus sit aut nidor cremati sensum omnem scalpelli aufert.
- 111 sanguis utriusque claritatem visus inunctis . . .¹ cicatrices oculorum emendat. corpus ipsum excepto capite pedibusque elixum manditur ischiadicis tussisque veterem sanat, praecipue in pueris, item lumborum dolores. habent et adipem quo tactus pilus defluit. hic perunctos a crocodilis tuetur, instillaturque morsibus. cor adnexum in lana ovis nigrae cui nullus alius colos incursaverit et primo partu genitae quartanas abigere dicitur.
- 112 XXIX. Iungemus illis simillima et peregrina aequae animalia, priusque chamaeleonem peculiari volumine dignum existimatum Democrito ac per singula membra desecratum,² non sine magna voluptate nostra cognitio proditisque mendaciis Graecae vanitatis. similis et magnitudine est supra dicto crocodilo, spinae tantum acutiore curvatura et caudae
- 113 amplitudine distans.³ nullum animal pavidius existimatur et ideo versicoloris esse mutationis. vis eius maxima contra accipitrum genus. detrahente enim supervolantem ad se traditur et voluntarium praebere

¹ *Lacunam indicavi: dat Detlefsen: excitat Mayhoff, qui etiam facit coni.*

² *desecratum R d: dissertatum coni. Mayhoff.*

³ *distans] "Locus nondum sanatus" Mayhoff.*

^a Does the *et* mean "or"? The phrase is a queer one, unless it means that the body used in the fumigation should contain the intestines, which are essential for a cure.

that fumigation with the intestines and ^a the rest of its body is of benefit to women with uterine trouble, as it is to wrap them up in a fleece impregnated with its steam. Ashes from burning the skin of either kind of crocodile, applied in vinegar to the parts in need of surgery, or even the fumes, cause no pain to be felt from the lancet. The blood of either kind, if the eyes are anointed with it, improves the vision and removes eye scars. The body itself, boiled without the head and feet, is eaten for sciatica and cures chronic cough, especially that of children, as well as lumbago. Crocodiles also have a fat, a touch of which makes hair fall out. Used as embrocation this protects from crocodiles, and is poured by drops into their bites. The heart, tied on in the wool of a black sheep, the first-born of its mother, the wool having no other colour intermixed, is said to drive away quartan fevers.^b

XXIX. To these animals I will add others very *Chamaeleon* like them and equally foreign, taking first the chamaeleon, thought by Democritus worthy of a volume to itself, each part of the body receiving separate attention. It afforded me great amusement to read an exposure of Greek lies and fraud. The chamaeleon is also as big as the crocodile just mentioned,^c differing only in the greater curve of the spine and in the size of its tail. People think it the most timid of animals, and that it is for this reason it continually changes its colour. Over the hawk family it has very great power, for as a hawk flies overhead, it is brought down to the chamaeleon,

^b Quartans were supposed to be caused by black bile. See Hippocrates, *Nature of Man*, ch. XV (Loeb IV, p. 41).

^c I.e. the land animal of § 108.

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lacerandum ceteris animalibus. caput eius et guttur, si roboreis lignis accendantur, imbrium et tonitruum concursus facere Democritus narrat, item iocur in
 114 tegulis ustum. reliqua ad veneficia pertinentia quae dicit, quamquam¹ falsa existimantes, omitemus praeterquam ubi inrisu coarguendum:² dextro oculo, si viventi eruatur, albugines oculorum cum lacte caprino tolli, lingua adalligata pericula puerperii; eundem salutarem esse parturientibus, si sit domi, si vero inferatur, perniciosissimum. linguam, si viventi exempta sit, ad iudiciorum eventus pollere, cor adversus quartanas inligatum lana nigra primae
 115 tonsurae. pedem e prioribus dextrum pelle hyaenae adalligatum sinistro bracchio contra latrocinia terroresque nocturnos pollere, item dextram mamillam³ contra formidines pavoresque; sinistram vero pedem torreri in furno cum herba quae aequae chamaeleon vocetur, additoque unguento pastillos eos⁴ in ligneum vas conditos praestare, si credimus, ne cernatur ab
 116 aliis qui id habeat. armum dextrum ad vincendos adversarios vel hostes valere, utique si abiectos eiusdem nervos calcaveris—sinistram umerum⁵ quibus monstris consecret, qualiter somnia quae velis et quibus velis mittantur, pudet referre—somnia ea dextro pede resolvi, sicut sinistro latere lethargos quos

¹ quamquam *codd., edd.*: tanquam *vet. Dal.*

² coarguendum d(?) *Gelenius*: coarguent eum *Mayhoff*: coarguentium *VR vulg.*

³ mamillam *codd. edd.*: maxillam *vet. Dal.*

⁴ eos *codd.*: factos *coni. Mayhoff.*

⁵ umerum *codd. Detlefsen*: vero *Mayhoff*: mirum *vulg.*

^a And therefore harmless.

^b Perhaps "chamaeleon;" *eundem* is ambiguous.

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fecerit dexter. sic¹ capitis dolores insperso vino in quo latus alterutrum maceratum sit sanari. si feminis sinistri vel pedis cinere misceatur lac suillum, 117 podagricos fieri² inlitis pedibus. felle glaucomata et suffusiones corrigi prope creditur tridui inunctione, serpentes fugari ignibus instillato, mustelas contrahi in aquam coiecto, corpori vero inlito detrahi pilos. idem praestare narrat iocur cum ranae rubetae pulmone inlitum, praeterea iocinere amatoria dissolvi, melancholicos autem sanari, si ex corio chamaeleonis sucns herbae Heleniae bibatur, intestina et fartum eorum, cum animal id nullo cibo vivat, cum³ simiarum urina inlita inimicorum ianuae odium omnium 118 hominum his conciliare; cauda flumina et aquarum impetus sisti, serpentes soporari; eadem medicata cedro et murra inligataque gemino ramo palmae percussam aquam discuti, ut quae intus sint omnia appareant, utinamque eo ramo contactus esset Democritus, quoniam ita loquacitates inmodicas promisit inhiberi. palamque est virum alias sagacem et vitae utilissimum nimio iuvandi mortales studio prolapsum.

119 XXX. Ex eadem similitudine est scincus—et quidam terrestrem crocodilum esse dixerunt—candidior autem et tenuiore cute. praecipua tamen

¹ sic d T *Detlefsen*: set *Mayhoff*: sit V R: *del. vulg.*

² fieri *codd. edd.*: liberari vel sanari *coni. Mayhoff*: refici vel sanos fieri *Warmington*.

³ cum] *Add. Detlefsen*: post urina *add. una Mayhoff*.

^a Probably some emendation is required meaning "cured."

^b Littré thinks that Pliny is here giving both the Greek word (*glaucoma*) and the Latin (*suffusio*) for one disease of the eye.

^c A plain instance of *vero* introducing the climax of a list.

dispelled by the left flank. In this way headache is cured by sprinkling on the head wine in which either side of a chamaeleon has been soaked. If sow's milk is mixed with the ash of the left thigh or foot, gout is caused ^a by rubbing the feet with the mixture. It is practically a current belief that anointing the eyes for three days with the gall is a cure for opaqueness of the eye and cataract,^b that serpents run away if the gall is dropped into fire, that weasels run together when it is thrown into water, while ^c hairs are removed from the body when it is rubbed therewith. Democritus relates that the same result comes from applying the liver with the lung of the bramble toad; that moreover the liver makes of no effect love charms and philtres, curing melancholy also if the juice of the herb helenium is drunk in a chamaeleon's skin; that the intestines and their content (although the animal lives without food) with the urine of apes, if smeared on the door of an enemy, brings on him the hatred of all men; that by its tail rivers and rushing waters are stayed and serpents put to sleep; that the tail also, if treated with cedar and myrrh and tied on to a twin palm-branch, divides the water struck with it, so that all within becomes plain. Would that Democritus had been touched with such a branch, seeing that he assures us that by it wild talk is restrained! It is clear that a man, in other respects of sound judgement and of great service to humanity, fell very low through his over-keenness to help mankind.

XXX. A similar animal is the scincos ^d—and *The scinc* indeed it has been styled the land crocodile—but it is paler, and with a thinner skin. The chief difference,

^a Not the lizard now called the skink but a larger one.

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differentia dinoscitur a crocodilo squamarum serie a cauda ad caput versa. maximus Indicus, deinde Arabieus. adferuntur salsi. rostrum eius et pedes in vino albo poti cupiditates veneris accendunt, utique cum satyrio et erucae semine singulis drachmis omnium ac piperis duabus admixtis. ita pastilli
120 singularum drachmarum bibantur. per se laterum carnes oholis binis cum murra et pipere pari modo potae efficaciores ad idem creduntur. prodest et contra sagittarum venena, ut Apelles tradit, ante posteaque sumptus. in antidota quoque nobilia additur. Sextius plus quam drachmae pondere in vini hemina potum perniciem adferre tradit, praeterea eiusdem¹ decocti ius cum melle sumptum venerem inhibere.

121 XXXI. Est crocodilo cognatio quaedam amnis eiusdem geminique victus cum hippopotamio, reptore detrahendi sanguinis, ut diximus, plurimo autem super Saiticam praefecturam. huius coriicinis cum aqua inlitis panos sanat, adipis frigidas febres, item fimum suffitu, dentes e parte laeva dolorem dentium scarifatis gingivis. pellis eius e

¹ eiusdem *codd.*: *lentium Gesner e Dioscoride II 66.*

^a I.e. with no other part of the beast added.

^b A native of Thasos mentioned by Galen.

^c Sextius Niger, "who wrote in Greek," as Pliny says in his list of authorities, was a writer on *materia medica*. He is mentioned by both Dioscorides and Galen. Some scholars believe that Pliny drew much of his information from this source, as he never mentions Dioscorides.

^d The reason for Gesner's emendation *lentium* is that Dioscorides in his account of the *σκίγκος* (II 66 Wellmann)

however, between it and the crocodile is in the arrangement of the scales, which are turned from the tail towards the head. The Indian is the biggest scincos, next coming the Arabian. They import them salted. Its muzzle and feet, taken in white wine, are aphrodisiac, especially with the addition of satyrion and rocket seed, a single drachma of all three and two drachmae of pepper being compounded. One-drachma lozenges of the compound should be taken in drink. Two oboli of the flesh of the flanks by itself,^a taken in drink with myrrh and pepper in similar proportions, are believed to be more efficacious for the same purpose. It is also good for the poison of arrows, as Apelles^b informs us, if taken before and after the wound. It is also an ingredient of the more celebrated antidotes. Sextius^c says that more than a drachma by weight, taken in a hemina of wine, is a fatal dose, and that moreover the broth of a scincos^d taken with honey is antaphrodisiac.

XXXI. There is a kind of relationship between the crocodile and the hippopotamus, for they both live in the same river and both are amphibious. The hippopotamus, as I have related,^e was the discoverer of bleeding, and is most numerous above the prefecture of Sais. His hide, reduced to ash and applied with water, cures superficial abscesses; the fat and likewise the dung chilly agues by fumigation, and the teeth on the left side, if the gums are scraped with them, aching teeth. The hide from the left side of his forehead, worn as an amulet on the groin, is an

*Hippo-
potamus.*

says: ἀναπαύεσθαι δὲ τὴν ἐπίτασιν τῆς προθυμίας φακοῦ ἀφεψήματι μετὰ μέλιτος πινομένῳ.

^e Book VIII. § 96.

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sinistra parte frontis inguini adalligata venerem
inhibet, eiusdem cinis alopecias explet. testiculi
drachma ex aqua contra serpentes bibitur. sanguine
pictores utuntur.

122 XXXII. Peregrinae sunt et lynces, quae clarissime
quadripedum omnium cernunt. ungues carum omnes
cum corio exuri efficacissime in Carpatho insula
tradunt. hoc cinere poto propudia virorum, eius-
demque aspersione feminarum libidines inhiberi, item
pruritus corporum, urina stillicidia vesicae. itaque
eam protinus terra pedibus adgesta obruere traditur.
eadem autem et iugulorum dolori monstratur in
remedio.

123 XXXIII. Hactenus de externis. nunc prae-
temur ad nostrum orbem, primumque communia
animalium remedia atque eximia dicemus, sicuti e
lactis usu. utilissimum cuique maternum. [conci-
pere nutrices exitiosum est, hi sunt enim infantes qui
colostrati appellantur, densato lacte in casei speciem.
est autem colostrum prima a partu spongiosa densitas
lactis.]¹ maxime autem alit quodcumque humanum,
mox caprinum, unde fortassis fabulae Iovem ita
nutritum dixere. dulcissimum ab hominis cameli-
num, efficacissimum ex asinis. magnorum animalium
124 et corporum facilius redditur. stomacho adcommo-
datissimum caprinum, quoniam fronde magis quam

¹ *uncos ego posui.*

^a I think that this sentence belongs elsewhere, perhaps after § 72. Another possibility is that Pliny forgot what he said in XI. § 237, where he calls *colostratio* an ailment caused by the young's taking mother's milk too soon. If Pliny wrote *concupere . . . speciem*, the next sentence, *est autem . . . lactis*, might be a scribe's marginal correction, which was

antaphrodisiac; the same reduced to ash restores hair lost through mange. A drachma of a testicle is taken in water for snake bite. The blood is used by painters.

XXXII. The lynx too is a foreign animal, and has *Lynx.* keener sight than any other quadruped. On the island of Carpathus all their nails, with the hide, make, it is said, a very efficacious medicine when reduced to ash by burning. They say that these ashes taken in drink by men check shameful conduct, and sprinkled on women lustful desire; that they also cure irritation of the skin and that the urine cures strangury. And so, as is said, the animal at once covers it with earth by scratching with his paws. This urine is also prescribed for pain in the throat.

XXXIII. Hitherto I have dealt with things foreign, *Milks.* but will now turn to the Roman world, speaking first of remedies common to all animals and excellent in quality, such as milk and its uses. Mother's milk is for everybody the most beneficial. [It is very bad for women to conceive while nursing; their nurselings are called *colostrati*, the milk being thick like cheese. But colostrum is the first milk given after delivery, and is thick and spongy.]^a But any woman's milk is more nourishing than any other kind, the next being that of the goat; this perhaps is the origin of the story that Jupiter was nursed in this way. The sweetest milk after woman's is that of the camel, the most efficacious that of the ass. A big species or a big individual yields its milk more readily. Goat's milk is the most suited to the stomach, as the animal browses rather

afterwards added to the text. It should be noticed that the connection of thought is easy and natural if *maxime autem* follows immediately after *maternum*.

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herba vescuntur. bubulum medicatius, ovillum dul-
 cius et magis alit, stomacho minus utile, quoniam est
 pinguius. omne autem vernum aequatius aestivo et
 de novellis. probatissimum vero quod in ungue
 haeret nec defluit. innocentius decoctum, praecipue
 cum calculis marinis. alvus maxime solvitur bubulo,
 minus autem inflat quodcumque decoctum. usus
 125 lactis ad omnia intus exulcerata, maxime renes,
 vesicam, interanea, fauces, pulmones, foris pruritus
 cutis, eruptiones pituitae poti ab ¹ abstinentia.² nam
 ut in Arcadia bubulum biberent phthisici, syntectici,
 cachectae, diximus in ratione herbarum. sunt inter
 exempla qui asininum bibendo liberati sint podagra
 126 chiragraeve. medici speciem unam addidere lactis
 generibus quod sehiston appellavere. id fit hoc
 modo: fictili novo fervet caprinum maxime, ramisque
 ficulneis recentibus miscetur additis totidem cyathis
 mulsi quot sint heminae lactis. cum fervet, ne ³ cir-
 cumfundatur praestat cyathus argenteus cum frigida
 aqua demissus ita ne quid infundat. ablatum deinde
 igni refrigeratione dividitur et discedit serum a lacte.
 127 quidam et ipsum serum iam multo potentissimum

¹ poti ab f: poti at F: potior d x: poscit R: post r.

² abstinentia Vdx vulg.: abstinentiam R. *In textu poti ab abstinentia et Detlefsen et Mayhoff, qui addit: "locus nondum sanatus.an posci abstinentia medicaminum ut in sqq? Cfr. XXV 94."*

³ ne *Hermolaus Barbarus, Mayhoff: ni codd., Detlefsen.*

^a Dioscorides has (II. § 70) *μάλιστα δὲ διαπύροις κόχλαξιν ἐξικμασθέν* ("especially when boiled down by hot pebbles"). Pliny seems to have misunderstood his original, or to have had different Greek before him.

^b For a good account of modern uses of milk see W. T. Fernie, *Animal Simples*, pp. 301–317.

^c For *eruptiones pituitae* see List of Diseases.

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decocunt ad tertias partes et sub diu refrigerant. bibitur autem efficacissime heminis per intervalla, statis¹ diebus quinae; melius a potu gestari. datur comitialibus, melancholicis, paralyticis, in lepris, 128 elephantiasi, articulariis morbis. infunditur quoque lac contra rosiones a medicamentis factas et, si urat dysinteria, decoctum cum marinis lapillis aut cum tisana hordeacia. item ad intestinorum rosiones bubulum aut ovillum utilius, recens quoque dysintericis infunditur, ad colum autem crudum, item vulvae et propter serpentium ictus potissime pityocampis, 129 presti, cantharidum aut salamandrae venenis, privatim bubulum his qui Colchicum biberint aut cicutam aut dorycnium aut leporem marinum, sicut asininum contra gypsum et cerussam et sulphur et argentum vivum, item durae alvo in febris. gargarizatur quoque faucibus exulceratis, utilissime et bibitur ab imbecillitate vires recolligentibus quos atrophos vocant, in febris etiam quae careat dolore capitis. pueris ante cibum lactis asinini heminam dari, aut si exitus cibi rosiones sentirent, antiqui in arcanis habuerunt, si 130 hoc non esset, caprini. bubuli serum orthopnoicis prodest ante cetera addito nasturtio. inunguntur etiam oculi in lactis heminas additis sesamae drachmis quattuor tritis in lippitudine. caprino lienes sanantur, post bidui inedia tertio die hedera pastis capris,

¹ *statis ego*: *satis Ianus, Detlefsen, Mayhoff*: *singulis veteres edd.*: *salis codd.*

^a With the reading *singulis*, "separate." With *satis* (apparently) "five heminae are enough for the days (on which it is taken)." This is strange Latin, and exercise, or a drive, five times a day seems excessive. It is more natural to

whey itself, which is now very vinous indeed, and cool it in the open air. But the most efficacious way to drink it is a hemina at a time at intervals, five heminae in all on fixed^a days; it is better to take a drive afterwards. It is given for epilepsy, melancholia, paralysis, leprous sores, leprosy, and diseases of the joints. Milk is also injected for smarting caused by purges, or, for the smarting of dysentery, milk boiled down with^b sea pebbles or with barley gruel. For smarting intestines also cow's milk or sheep's is the more effective. Fresh milk too is injected for dysentery, and raw milk for colitis, uterus trouble, snake bite, swallowing pine-caterpillars, buprestis, the poison of Spanish fly^c or salamander, and cow's milk is specific when there has been taken in drink Colchicum, hemlock, dorycnium, or sea hare, as ass's milk is for gypsum, white lead, sulphur, quicksilver, and constipation in fever. It also makes a very useful gargle for ulcerated throats, is drunk by convalescents from weakening illness, said to be "in a decline,"^d and also for fever which is without headache. To give to children before food a hemina of ass's milk, or failing that of goat's milk, and if the rectum smarted at stool, the ancients held to be one of their secrets. Better for orthopnoea than other remedies is whey of cow's milk with the addition of cress. The eyes also are bathed for ophthalmia with a hemina of milk to which have been added four drachmae of pounded sesame. Splenic diseases are cured by drinking goat's milk for three days without suppose that five doses were to be taken in all, each on a fixed day, to be followed by a ride or drive. Cf. *stata febris* § 107.

^b This *cum* is perhaps an interpolation (dittography), but cf. § 124.

^c See note on § 160.

^d Or: "undernourished."

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per triduum poto sine alio cibo. lactis usus alias contrarius capitis doloribus, hepaticis, splenicis, nervorum vitio, febres habentibus, vertigini, praeterquam purgationis gratia, gravedini, tussientibus, lippis. ovillum¹ utilissimum tenesmo, dysinteriae nec non phthisicis. hoc et mulieribus² saluberrimum qui dicerent fuerunt.

131 XXXIV. De generibus caseorum diximus, cum de uberibus singulisque membris animalium diceremus. Sextius eosdem effectus equino quos bubulo tradit. hunc vocant hippacen. stomacho utiles qui non sunt salsi, id est recentes. veteres alvum sistunt corpusque minuunt, stomacho inutiliores³; et in totum
132 salsa minuunt corpus, alunt mollia. caseus recens cum melle suggillata emendat, mollis alvum sistit, sedat tormina pastillis in vino austero decoctis rursusque in patina tostis cum melle. saprum vocant qui cum sale et sorbis siccis e vino tritus potusque medetur coeliacis, genitalium carbunculis caprinus tritus inpositus. item acidus cum oxymelite maculis in balneo inlitis oleo interlinitur.

133 XXXV. E lacte fit et butyrum, barbararum gentium lautissimus cibus et qui divites a plebe discernat, plurimum e bubulo, et inde nomen, pinguissi-

¹ ovillum *Hard.*, *Mayhoff*, ex *Dioscoride*: suillum *codd.*, *Detlefsen*.

² mulieribus *dTx*, *Detlefsen*: mulieres *VRf*: mulieris *Mayhoff*, qui etiam post dysinteriae *dist*.

³ inutiliores *Urlichs*, *Detlefsen*, *Mayhoff*: utiliores *codd*.

^a With *Mayhoff's* reading and punctuation: "this and woman's milk are the most wholesome for consumptives."

^b Book XI. § 240.

^c See note on § 120.

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mum ex ovillo¹—fit et ex caprino—sed hieme calefacto lacte, aestate expresso tantum crebro iactatu in longis vasis, angusto foramine spiritum accipientibus sub² ipso ore alias praeligato. additur paululum
 134 aquae ut acescat. quod est maxime coactum in summo fluitat, id exemptum addito sale oxygala appellant. relicum decocunt in ollis. ibi quod supernatat butyrum est oleosum natura. quo magis virus resipit hoc praestantius iudicatur. pluribus conpositionibus miscetur inveteratum. natura eius adstringere, mollire, replere, purgare.

135 XXXVI. Oxygala fit et alio modo, acido lacte addito in recens quod velis³ inacescere, utilissimum stomacho. effectus dicemus suis locis.

XXXVII. Proxima in communibus adipi laus est, sed maxime suillo, apud antiquos etiam religiosius. certe novae nuptae intrantes etiamnum⁴ sollemne habent postes eo attingere. inveteratur duobus
 136 modis, cum sale aut sincerus, tanto fit utilior.⁵ axungiam Graeci etiam appellavere eam in voluminibus suis. neque est occulta virium causa, quoniam id animal herbarum radicibus vescitur—itaque etiam

¹ ovillo *coni. Mayhoff*: ovibus *codd.*

² sub *omittere velit Mayhoff.*

³ velis *Detlefsen*: velint *Mayhoff*: in m VR: in dx: ve - - - r: dum (acescit) *vulg. Mayhoff nonnulla verba, ut quodve aliud cogat, excidisse putat.*

⁴ etiamnum *codd.*: etiam nunc *Mayhoff.*

⁵ tanto fit utilior *Mayhoff*: tanto utilior quanto sit vetustior *Detlefsen. Pro utilior multi codd. vetustior (vectior R), pro fit (dx) sit VR.*

^a It has been suggested that for *aqua* we should read *aceto* (vinegar).

^b If we omit all from *exemptum* to *supernatat*, the ancient method of making butter is much like the modern, but then

the richest comes from sheep's—it is also made from goat's—but in winter the milk is warmed, while in summer the butter is extracted merely by shaking it rapidly in a tall vessel. This has a small hole to admit the air, made just under the mouth, which is otherwise completely stopped. There is added a little water ^a to make the milk turn sour. The part that curdles most, floating on the top, [is skimmed off, and with salt added is called oxygala; the rest they boil down in pots. What comes to the surface ^b] is butter, a fatty substance. The stronger the taste, the more highly is butter esteemed. When matured it is used as an ingredient for several mixtures. It is by nature astringent, emollient, flesh-forming, and cleansing.

XXXVI. Oxygala is made in yet another way, by *Oxygala.* adding sour milk to the fresh that it is wished to turn sour. It is very good for the stomach; of its properties I shall speak in the appropriate places.

XXXVII. Of remedies common to animals the next in repute is fat, especially pig's fat, which to the *Fats, especially of pigs.* men of old was not a little sacred. At any rate brides even today touch ritually the door-posts with it on entering their homes. Lard is matured in two ways, with salt or by itself; it is so much the more beneficial when matured. The name axungia (axle-grease) is the one adopted by the Greeks also in their writings. Nor is the cause of its properties a mystery, for the pig feeds on the roots of plants, so that there are very many uses even for its dung.

oxygala disappears, which is required because of Ch. XXXVI, and the interpolation needs to be explained. It is perhaps safer with J. Müller to regard *addito . . . relicum* as a parenthesis.

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fimo innumeri usus—quamobrem non de alia loque-
mur quam e sue.¹ multo efficacior e femina est quae
non peperit, [multo vero praestantior in apris.]² est
igitur usus axungiae ad emollienda, excalfacienda,
137 discutienda purgandaque. medicorum aliqui ad-
mixto anseris adipe taurorumque sebo et oesyppo ad
podagras uti iubent, si vero permanet dolor, cum cera,
myrto, resina, pice. sincera axungia medetur
ambustis vel nive, pernionibus autem cum hordei
cinere et galla pari modo. prodest et confricatis
membris, itinerumque lassitudines et fatigationes
levat. ad tussim veterem recens decoquitur quad-
rantis pondere in vini cyathis tribus addito melle.
138 vetus etiam phthisis pilulis sumpta sanat quae sine
sale inveterata est. omnino enim non nisi ad ea quae
purganda sint aut quae non sint exulcerata salsa reci-
pitur. quidam quadrantes axungiae et mulsi³ in
vini cyathis ternis decocunt contra phthisis, quarto
quoque die picem liquidam in ovo sumi iubent, cir-
cumligatur et lateribus pectoribus scapulis eorum qui
phthisim sentiunt, tantaque est vis ut genibus etiam
adalligata redeat in os sapor eamque expuere

¹ quam e sue *Urlichs, Detlefsen*: sue *codd.*: *uncos ponit Mayhoff*.

² *Uncos ego posui. In textu esse dicitur Mayhoff, qui etiam intellegitur coni.*: est igitur *codd.*

³ *mulsi vulg., Detlefsen, Mayhoff*; *multis codd.*

^a The emendation of *Urlichs* seems to be the best solution of the difficulty presented by the MS. reading.

^b If we bracket, as being a scribe's or commentator's note, from *multo* to *apris*, there is no need further to emend this sentence.

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- 139 videantur. e sue quae non peperit aptissime utuntur ad cutem mulieres, contra scabiem vero quivis admixto iumentorum sebo pro parte tertia et picē, pariterque subfervefactis. sincera partus in abortum vergentes nutriunt collyrii modo subdita. cicatrices concolores facit cerussa admixta vel argenti spuma, at cum sulphure unguium scabritias emendat. medetur et capillis fluentibus et ulceribus in capite mulierum cum gallae parte quarta et infumata pilis oculorum. datur et phthisicis unciatim cum vini veteris hemina decocta donec tres unciae e toto restent, aliqui et
- 140 mellis exiguum adiciunt. panis inlinitur cum calce, item furunculis duritiaeque mammarum. rupta et convulsa et spasmata et luxata sanat, clavos et rimas callique vitia cum helleboro albo, parotidas admixta farina salsamentariae testae, quo genere proficit et ad strumas. pruritus et papulas in balneo perunctis tollit, alioque etiamnum modo podagricis prodest mixto oleo vetere, contrito una sarcophago lapide et quinquefolio tuso in vino vel cum calce vel cum cinere. facit et peculiare emplastrum LXXV* ponderi centum spumae argenteae mixtis, utilissimum contra ulcerum inflammationes.¹ adipe verrino et inungui putant utile, quaeque serpant inlinere cum resina.
- 141 antiqui axibus vehiculorum perunguendis maxime ad faciliorem circumactum rotarum utebantur, unde nomen, sic quoque utili medicina cum illa ferrugine
- 142 rotarum ad sedis vitia virilitatisque. [et per se axungia]² medici antiqui maxime probabant renibus

¹ *Hoc punctum post verrino ponit Mayhoff.*

² *Ego uncos posui ex Mayhoffii coniectura.*

^a *spasmata* may be a gloss, for Pliny renders the Greek *σπάσματα* by *convulsa*.

of beef suet and pitch, all being warmed together. Unsalted axle-grease used as a pessary nourishes the foetus when there is the threat of a miscarriage. Mixed with white lead or litharge lard gives to scars the colour of the surrounding skin, and with sulphur cleans scabrous nails. It cures too the falling-out of hair, and with a quarter of a gall nut sores on the head of women; as a fumigant it is good for eye-lashes. It is also given to consumptives, in doses of one ounce with a hemina of old wine boiled down until of the whole three ounces remain; some add also a little honey. With lime it is applied to superficial abscesses, also to boils and to indurations of the breasts. It cures ruptures, sprains, cramps,^a and dislocations; with white hellebore corns, chaps, and callosities; and parotid swellings with pounded earthenware that has contained salted food, the same being also good for scrofulous sores. Rubbing in the bath with this fat removes irritation and pimples, and administered in yet another way it is good for gout: mixed with old oil, crushed sarcophagus^b stone, and cinquefoil pounded in wine, or with lime, or with ash. A special plaster too is made of 75 denarii by weight of lard mixed with 100 of litharge, very useful for inflamed ulcers. They also think it useful to treat such sores with boar's grease, and to apply it with resin to those that spread. The men of old used lard in particular for greasing the axles of their vehicles, that the wheels might revolve more easily, and in this way it received its name. So also with that rust of the wheels it made a useful medicament for affections of the anus and of the male genitals. The old physicians valued most the fat taken from

^b See II. § 211 and XXXVI. § 161.

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detractam exemptisque venis aqua caelesti fricabant crebro decoquebantque fictili novo saepius, tum demum adservantes. convenit salsam magis mollire, excalfacere, discutere, utilioremq̄ esse vino lotam. Masurius palmam lupino adipi dedisse antiquos tradidit. ideo novas nuptas illo perunguere postes solitas ne quid mali medicamenti inferretur.

143 XXXVIII. Quae ratio adipis eadem in his quae ruminant sebi est, aliis modis, non minoris potentiae. perficitur omne exemptis venis aqua marina vel salsa lotum, mox in pila tusum aspersa marina crebro. postea coquitur donec odor omnis aboleatur, mox adsiduo sole ad candorem reducitur. a renibus autem
144 omne laudatissimum est. si vero vetus revocetur ad curam, liquefieri prius iubent, mox frigida aqua lavari saepius, dein liquefacere adfuso vino quam odoratissimo. eodemque modo iterum ac saepius cocunt donec virus evanescat. multi privatim sic taurorum leonumque ac pantherarum et camelorum pingua curari iubent. usus dicetur suis locis.

145 XXXIX. Communis et medullarum est. omnes molliunt, explent, siccant, excalfaciunt. laudatissima e cervis, mox vitulina, dein hircina et caprina. curantur ante autumnum recentes lotae siccataeque

^a The last sentence is added as an afterthought; it differs from a similar remark in § 135. Masurius was apparently a jurist who lived in the reign of Tiberius and later.

^b Or, "The most highly valued suet is always that from the kidneys."

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in umbra, per cribrum dein liquatae per lintea exprimuntur ac reponuntur in fictili locis frigidis.

146 XL. Inter omnia autem communia animalium vel praestantissimum effectu fel est. vis eius excalfacere, mordere, scindere, extrahere, discutere. minorum animalium subtilius intellegitur et ideo ad oculorum medicamenta utilius existimatur. taurino praecipua potentia etiam in aere pelvibusque aureo colore obducendis. omne autem curatur recens praeligato ore lino crasso, demissum in ferventem aquam semihora, mox siccatum sine sole atque in melle conditum. damnatur equinum tantum inter venena. ideo flomini sacrorum equum tangere non licet, cum Romae publicis sacris equus etiam immoletur.

147 XLI. Quin et sanguis eorum¹ septicam vim habet, item equarum, praeterquam virginum; erodit, emarginat ulcera. taurinus quidem recens inter venena est excepta Aegira. ibi enim sacerdos Terrae vaticinatura sanguinem tauri bibit prius quam in specus descendat. tantum potest sympathia illa de qua loquimur, ut aliquando religione aut loco fiat.

148 Drusus tribunus plebei traditur caprinum bibisse, cum pallore et invidia veneni sibi dati insimulare Q. Caepionem inimicum vellet. hircorum sanguini tanta vis est ut ferramentorum subtilitas non aliter acrius

¹ eorum *codd.*: equorum *Warmington*.

^a A town in Achaia.

^b See XXIV. §§ 1-3, XXIX. § 61, and Additional Note, p. 564. See the same note for the view that bull's blood is poison.

^c Tribune of the people in 91 B.C., and murdered the same year. He was a supporter of the Italians in their claim to Roman citizenship.

sieve, strained through a linen cloth, and then stored away in an earthenware vessel in a cool place.

XL. But of all the parts common to animals gall *Gall.* is by far the most efficacious. Its nature is warming, pungent, dissolvent, extractive, and dispersive. That of the smaller animals is understood to be more delicate, and so is thought to be more useful for eye medicaments. Bull's gall is particularly potent, staining even bronze and basins with a golden colour. All gall is prepared when fresh by tying with stout thread the mouth of the gall bladder, steeping it for half an hour in boiling water, then drying it out of the sun, and storing away in honey. That of horses alone is condemned as a poison. Therefore the sacrificial flamen is not allowed to touch a horse, although at the public sacrifices at Rome a horse is even offered as a victim.

XLI. Moreover the blood of horses has a corrosive *Blood.* power; the blood of mares also, except that of virgin animals. It cleans out ulcers and eats away their lips. Fresh bull's blood indeed is reckoned one of the poisons, except at Aegira.^a For there the priestess of Earth, when about to prophesy, drinks bull's blood before she goes down into the caves. So strong is that famous sympathy ^b I speak of that it sometimes becomes active under the influence of religious awe or of a place. Drusus,^c tribune of the people, is reported to have drunk goat's blood because he wished, by his pallor, to accuse his enemy Q. Caepio of having poisoned him, and so to arouse hatred against him.^d So great is the power of he-goats' blood that iron tools cannot in any other way be hardened

^a Or, "to arouse hatred against his enemy Q. Caepio, his pallor suggesting that he had been poisoned by him."

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induretur, scabritia tollatur vehementius quam lima. non igitur et sanguis animalium inter communia dici potest et ideo suis quisque dicetur effectibus.

149 XLII. Digeremus enim in mala singula usus plurimumque¹ contra serpentes. exitio his esse cervos nemo ignorat ut, si quae sunt,² extractas cavernis mandentes. nec vero ipsi spirantesque tantum adversantur, sed membratim quoque. fugari eas nidore cornus eorum, si uratur, dictum est, at e summo gutture ustis ossibus congregari dicuntur. pelles eiusdem animalis substratae securos praestant ab eo metu
150 somnos, coagulum ex aceto potum ab ictu, et si omnino tractatum sit, eo die non ferit serpens. testes quoque eius inveterati vel genitale vetus³ maris salutariter dantur in vino, item venter quem centipellionem vocant. fugiunt et omnino dentem cervi habentes aut medulla perunctos sebove cervi aut vituli. summis autem remediis praefertur hinnulei coagulum matris utero execti, ut indicavimus.
151 sanguine cervino, si una urantur dracontion et cunilago et anchusa lentisci ligno, contrahi serpentes tradunt, dissipari deinde, si sanguine detracto adiciatur pyrethrum. invenio apud auctores Graecos animal cervo minus et pilo demum simile, quod

¹ plurimumque *codd.*: primumque *Pintianus, Sillig, Mayhoff.*

² ut, si quae sunt *codd.*: utique spiritu *Pintianus*: vestigantes et *coni. Mayhoff*: ut pi credimus *Warmington.*

³ vetus *I. Muller, Mayhoff*: eius *codd.*: *del. Detlefsen.*

^a See VIII. § 118.

^b The *centipellio* is the second stomach of ruminating animals.

^c See VIII. § 118.

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ophion vocaretur, Sardiniam tantum ferre solitam. hoc interisse arbitror et ideo medicinas ex eo omitto.

- 152 Apri quoque cerebrum contra eas laudatur cum sanguine, iocur etiam inveteratum cum ruta potum ex vino, item adips cum melle resinaque, simili modo verrinum iocur et fellis dumtaxat fibra \times IIII pondere vel cerebrum in vino potum. caprarum cornu vel pilis accensis fugari serpentes dicunt, cineremque ex cornu potum vel inlitum contra ictus valere, item lactis haustus cum uva taminia vel urinae cum aceto scillite, caseum caprinum cum origano inpositum vel sebum cum cera. milia praeterea remediorum ex eo
- 153 animali demonstrantur, sicut apparebit, quod equidem miror, cum febris negetur carere. amplior potentia feris eiusdem generis, quod numerosissimum esse diximus, alia vero et hircis. Democritus etiamnum effectus auget eius qui singularis natus sit. fimo quoque caprarum in aceto decocto inlini ictus serpentium placet et recentis cinere in vino, atque in totum difficiliter sese recolligentes a serpentium ictu in
- 154 caprilibus optime convalescunt. qui efficacius volunt mederi occisae caprae alvum dissectam cum fimo intus reperto inligant statim. alii carnem recentem haedorum cum¹ pilo suffiunt eodemque nidore fugant serpentes. utuntur et pelle eorum recente ad²

¹ cum *add.* C. F. W. Müller.

² *Ante ad comma transponit Mayhoff.*

^a This seems like a vague and inaccurate reference to the goat as the cause of Malta fever.

^b See VIII. 214.

in its hair, which is found nowhere save in Sardinia. I believe that it is extinct today, and therefore I give no remedies from it. The brain and blood of a wild boar is another approved protection against serpents, as is its liver preserved and taken in wine with rue, likewise the fat with honey and resin, and given in the same way boar's liver and the fibre only of the gall-bladder, the dose being four denarii by weight, or the brain taken in wine. The horn or hair of she-goats, when burnt, is said to keep serpents away, and the ash from the horn, whether taken in drink or applied, to be efficacious for their bites; as are also draughts of their milk with taminian grapes, or of their urine with squill vinegar; so too an application of goat cheese with marjoram, or of goat suet with wax. Thousands of remedies besides from the goat are given in prescriptions, as will be pointed out; this is surprising to me, because it is said never to be free from fever.^a The potency of the wild-goat—goats are a very numerous species, as I have said^b—is greater, but a he-goat too has a potency of its own. Democritus also holds that if a goat is the only one at a birth he supplies more efficacious remedies. An application also of she-goat's dung boiled down in vinegar is approved treatment for snake bite, and so is the ash of fresh dung boiled down in wine; speaking generally, slow convalescents from snake bite recover best in a goat's stable. Those who want more efficacious treatment apply immediately as a plaster a slaughtered she-goat's belly cut open, including any dung found inside. Others fumigate with fresh kid-meat, not taking away the hair, and with the same fumes drive snakes away. They also use a fresh kid-skin for the wound, or the flesh and dung

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plagas, et carne et fimo equi in agro pasti, coagulo leporis ex aceto, contraque scorpionem et murem araneum. aiunt non feriri leporis coagulo perunctos.

155 a scorpione percussis fimum caprae efficacius cum aceto decoctum auxiliatur, lardum iusque decocti potum et his qui buprestim hauserint. quin etiam si quis asino in aurem percussum a scorpione se dicat, transire malum protinus tradunt, venenataque omnia accenso pulmone eius fugere. et fimo vituli suffiri percussos a scorpione prodest.

156 XLIII. Canis rabiosi morsu facta volnera circumcidunt ad vivas usque partes quidam carnemque vituli admovent—et ius ex eodem carnis decoctae dant potui¹—aut axungiam cum calce tusam, hirci iocur, quo inposito ne temptari quidem aquae metu adfirmant. laudant et caprae fimum ex vino inlitum, melis et cuculi et hirundinis decoctum et potum. ad reliquos bestiarum morsus caprinum caseum siccum cum origano inponunt et bibi iubent, ad hominis morsus carnem bubulam coctam, efficacius vituli, si non ante quintum diem solvant.

157 XLIV. Veneficiis rostrum lupi resistere inveteratum aiunt ob idque villarum portis praefigunt. hoc idem praestare et pellis e cervice solida manica existimatur, quippe tanta vis est animalis praeter ea quae retulimus ut vestigia eius calcata equis adferant torporem.

¹ *Parentesim ego indicavi.*

^a It eases the construction to take from *et ius* to *potui* as a parenthesis, a common feature of Pliny's style.

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PLINY: NATURAL HISTORY

- 158 XLV. Iis qui argentum vivum biberint lardum remedio est. asinino lacte poto venena restinguntur, peculiariter si hyoscyamum potum sit aut viscum aut cicuta aut lepus marinus aut opocarpatum aut pharicum¹ aut dorycnium et si coagulum alicui nocuerit, nam id quoque venenum est in prima lactis coagulatione. multos et alios usus eius dicemus, sed meminisse oportebit recenti utendum aut non multo postea tepefacto, nullum enim celerius evanescit. ossa quoque asini confracta et decocta contra leporis marini venenum dantur. omnia eadem onagris efficaciora.
- 159 de equiferis non scripserunt Graeci, quoniam terrae illae non gignebant, verum tamen fortiora omnia eadem quam in equis intellegi debent. lacte equino venena leporis marini et toxica expugnantur. nec uros aut bisontes habuerunt Graeci in experimentis, quamquam bove fero refertis Indiae silvis, portione tamen eadem efficaciora omnia ex his credi par est.
- 160 sic quoque lacte bubulo cuneta venena expugnari tradunt, maxime supra dicta et si ephemerum inpactum sit aut si cantharides datae, omnia vomitione egeri, sic et caprino iure cantharidas. contra ea vero quae exulceratione enecant sebum vitulinum vel bubulum auxiliatur. nam contra sanguisugas potas butyrum remedio est cum aceto ferro calefacto, quod et per se prodest contra venena. nam si oleum non

¹ pharicum *Hermolaus Barbarus*; cf. *Scribonius Largus CXCIV*: agaricum *Detlefsen*: cerussa *Mayhoff*: carice V: tarice R: caryced.

^a Unknown.

^b See *Scribonius Largus CXCIV*.

^c Ephemerum was used in a mouth-wash, and so very liable to be swallowed by accident. The word *inpactum* is curious, and probably corrupt, but the sense is clear.

XLV. Those who have swallowed quicksilver find a remedy in lard. By drinking ass's milk poisons are neutralized, especially if henbane has been swallowed, or mistletoe, hemlock, sea-hare, opocarpalum,^a pharicum,^b dorycnium, or if milk has done harm by curdling, for there is poison in the first coagulation of it. I shall give many other uses of ass's milk, but it should be remembered to use it when fresh, or nearly fresh and warmed, for no milk loses its power more rapidly. The bones too of the ass, crushed and boiled, are given for the poison of the sea-hare. All these remedies are more efficacious from the wild ass. About wild horses the Greeks have not written, because Greek lands did not breed them, but it must be inferred that all remedies from them are more potent than from the tame animal. By mare's milk are neutralized the poison of the sea-hare and arrow poisons. The Greeks had not the urus or the bison to try out, although the Indian jungles swarm with wild cattle. All the same remedies from them, however, it is reasonable to believe, are proportionally more efficacious. So cow's milk too is said to neutralize all poisons, especially those mentioned before, and if ephemerum has gone down the throat^c or Spanish fly^d administered, and to expel by vomiting all the noxious substances; goat broth also to act in the same way on Spanish fly. Those poisons however that cause fatal ulceration are relieved by veal-suet or beef-suet. But for leeches swallowed in drink butter, with vinegar warmed by hot iron, is a remedy, butter even by itself being beneficial against poisoning, for if one has no oil butter is a good substitute.

^d For an interesting account of Spanish fly, really a kind of beetle, see W. T. Fernie, *Animal Simples*, pp. 176-180.

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- 161 sit, vicem eius repraesentat. multipedae morsus cum melle sanat. omasi quoque iure poto venena supra dicta expugnari putant, privatim vero aconita et cicutas, itemque vitulino sebo. caprinus caseus recens his qui viscum biberint, lac contra cantharidas remedio est et contra ephemeris potum cum taminia uva. sanguis caprinus decoctus cum medulla contra toxica venena sumitur, haedinus contra reliqua,
- 162 coagulum haedi contra viscum et chamaeleonem album sanguinemque taurinum, contra quem et leporis coagulum est ex aceto, contra pastinacam vero et omnium marinorum ictus vel morsus coagulum leporis vel haedi vel agni drachmae pondere ex vino. leporis coagulum et contra venena additur antidotis. papilio quoque lucernarum luminibus advolans inter mala medicamenta numeratur. huic contrarium est iocur caprinum, sicut fel veneficis ex mustella rustica factis. hinc deinde praevertemur ad genera morborum.
- 163 XLVI. Capilli defluvia ursinus adips admixto ladano et adianto continet alopeciasque emendat et raritatem superciliarum cum fungis lucernarum ac fuligine quae est in rostris carum, porriginem cum vino. prodest ad hanc et cornus cervini cinis e vino, utque non taedia animalium capillis increscant, item fel caprinum cum creta Cimolia et aceto sic uti paulum capiti inarescant, item fel scrofinum, urina tauri. si
- 164 vero vetus sit, furfures etiam adiecto sulphure emendat. cinere genitalis asini spissari capillum putant et a canitie vindicari, si rasis inclinatur plumboque tritus

^a See Book XXVI. § 47, and for the plants mentioned in this section of Pliny the *Index of Plants* in vol. VII.

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cum oleo, densari et asinini pulli illitum¹ urina; admiscet nardum fastidii gratia. alopecias felle taurino cum Aegyptio alumine tepefactis inlinunt. ulcera capitis manantia urina tauri efficaciter sanat, item hominis vetus, si cyclaminum adiciatur et sulphur, efficacius tamen vitulinum fel, quo cum aceto cale-
 165 facto et lendes tolluntur. sebum vitulinum capitis ulceribus cum sale tritum utilissimum. laudatur et vulpium adipis, sed praecipue felium fimum cum sinapis pari modo inlitum, caprini cornus farina vel cinis, magisque hircini, addito nitro et tamaricis semine et butyro oleoque, prius capite raso; mire continent ita fluentem capillum, sicuti carnis cinere
 166 ex oleo inlita supercilia nigrescunt. lacte caprino lendes tolli tradunt, fimo cum melle² alopecias expleri, item unguarum cinere cum pice. fluentem capillum continet leporinus cinis cum oleo myrteo. capitis dolorem sedat pota aqua quae relictata est e bovis aut asini potu et, si credimus, vulpis masculae genitale circumligatum, cornus cervini cinis inlitus ex aceto aut rosaceo aut ex irino.

167 XLVII. Oculorum epiphoras bubulo sebo cum oleo cocto inlinunt. cervini cornus cinere scabritias ex eodem³ inungunt, mucrones autem ipsos efficaciores putant. lupi excrementis circumlini suffusiones

¹ illitum *Mayhoff*: cum *codd.*: *del. Detlefsen.*

² melle] *Coni. oleo e Dioscoride Mayhoff.*

³ ex eodem *Mayhoff*: eorundem *Hard., Detlefsen*: eodem *multi codd., vulg.*

^a The reading of *Mayhoff* is plausible and has been adopted, but the reading of the MSS., although there is a violent omission of several words understood from the preceding sentence, makes sense: "[the same part] of an ass's foal with his urine, also thickens the hair."

this should be pounded with oil in a leaden mortar, and applied after shaving the head. They also think that thicker hair is encouraged by applying ^a the urine of a young ass. Nard is mixed with it because of its nastiness. For mange is applied warmed bull's gall with Egyptian alum. Running sores on the head are healed efficaciously by bull's urine, also by stale human urine with the addition of cyclamen and sulphur, more efficaciously however by the gall of a calf, which warmed with vinegar also removes nits. For sores on the head calf's suet pounded with salt is very useful. Fox fat is also recommended, but especially cats' dung applied with an equal quantity of mustard; goat's horn, ground to powder or reduced to ash, a he-goat's being better, with the addition of soda, tamarisk seed, butter, and oil, the head being first shaved; this treatment is wonderful for preventing loss of hair, just as goat's meat, reduced to ash and applied with oil, darkens the eyebrows. Goat's milk is said to remove nits, the dung with honey to replace hair lost by mange, likewise the hoofs reduced to ash and added to pitch. Hare's flesh reduced to ash, with oil of myrtle, prevents hair from falling out. Headache is relieved by drinking the water left after an ox or ass has drunk, and also, if we care to believe it, by the genital organ of a male fox fastened round the head, and by a deer's horn reduced to ashes and applied in vinegar, rose oil, or iris oil.

XLVII. To eye fluxes is applied beef suet boiled with oil; scabrous eyes are smeared with the same and deer's horn reduced to ash, but the tips by themselves are thought to be more efficacious. Cataract is benefited by applying round the eyes the excrement of

For complaints of eyes.

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prodest, cinere corum cum Attico melle inungui
obscuritates, item felle ursino, epinyctidas adipe
apruno cum rosaceo. unguiae asininae cinis inunctus
e suo lacte oculorum cicatrices et albugines tollit.
168 medulla bubula e dextro erure priora trita cum
fuligine pilis et palpebrarum vitiis angulorumque
occurrit, calliblephari modo fuligo in hoc usu tem-
peratur, optime ellychnio papyracio oleoque sesa-
mino, fuligine in novum vas pinnis detera, effica-
cissime tamen evolsos ibi pilos coerect. felle tauri
cum ovi albo collyria fiunt, aquaque dissoluta inun-
169 gunt per quadriduum. sebum vituli cum anseris
adipe et ocimi suco genarum vitiis aptissimum est.
eiusdem medullae cum pari pondere cerae et olei vel
rosacei addito ovo duritiae genarum inlinuntur.
caseo molli caprino inposito ex aqua calida epiphorae
sedantur, si tumor sit, ex melle; utrumque sero calido
fovendum. sicca lippitudo lumbulis suum exustis
170 atque contritis et inpositis tollitur. capras negant
lippire, quoniam quasdam herbas edint, item dor-
cadas; ob id fimum carum cera circumdatum nova
luna devorari inbent. et quoniam noctu acque¹
cernant, sanguine hircino lusciosos sanari putant
nyctalopas a Graecis dictos, caprae vero iocinere in
vino austero decocto. quidam inassati iocineris sanie
inungunt aut felle caprae, carnesque vesci eas et,

¹ aequae *Dettefsen*: quoque aequae *Mayhoff*: acque quoque
plerique codd.: quoque r.

^a For these see List of Diseases.

^b A possible reason for removing the eyelashes and for pre-
venting their regrowth is revealed in § 171.

^c A cosmetic for the eyebrows.

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- dum coquantur, oculos vaporari his praecipiant. id quoque referre arbitrantur ut rutili coloris fuerint.
- 171 volunt et suffiri oculos iocinere in ollis decocto, quidam inassato. fel quidem caprinum pluribus modis adsumunt, cum melle contra caligines, cum veratri candidi tertia parte contra glaucomata, cum vino contra cicatrices et albugines et caligines et pterygia et argema, ad palpebras vero evolso prius pilo cum
- 172 suco oleris ita ut unctio inarescat, contra ruptas tuniculas cum lacte mulieris. ad omnia inveteratum fel efficacius putant, nec abdicant fimum ex melle inlitum epiphoris, contraque dolores medullam, item pulmonem leporis, et ad caligines fel cum passo aut melle. lupino quoque adipe vel medulla suum fricari oculos contra lippitudines praecipiant. nam vulpinam linguam habentes in armilla lippituros negant.
- 173 XLVIII. Aurium dolori et vitiis medentur urina apri in vitreo servata, fel apri vel suis vel bubulum cum oleo citreo¹ et rosaceo aequis portionibus, praecipue vero taurinum cum porri suco tepidum vel cum melle, si suppuret,² contraque odorem gravem per se tepidum in malicorio. rupta in ea parte cum lacte
- 174 mulierum efficaciter sanat. quidam etiam in gravitate aures sic perluendas putant, alii cum senecta serpentium et aceto—includunt lana—collutas ante

¹ citreo *codd.*, *Detlefsen*: cedrino *Mayhoff e Marcello*: citrino *f*: cicino *Caesarius*.

² suppuret *dxr*, *Detlefsen*: supperet *VR*: suppurent *Mayhoff, vulg.*

^a For these see List of Diseases.

^b With *Mayhoff's* reading: "cedar."

liver, or with its gall; they prescribe its meat as a food, and fumigation of the eyes with the steam that arises from the cooking; they also consider it important for the animal to have been of a red colour. They also wish the eyes to be fumigated with the steam of the liver boiled in a clay pot; some say that it should be roasted. The gall indeed of goats is employed in many ways; with honey for dimness; with a third part of white hellebore for opaqueness of the lens; with wine for scars, albugo,^a dimness, pterygia,^a and argema^a; but with cabbage juice for affections of the eyelids, the hairs being first pulled out, and the application being left to dry; with human milk for rupture of the eye-coats. For all purposes preserved gall is thought to be more efficacious. Goat's dung with honey is a not unvalued ointment for eye fluxes, or the marrow for eye pains, or a hare's lung, and for dimness its gall with raisin wine or honey. Wolf's fat also or pig's marrow is prescribed as an ointment for ophthalmia. But it is said that those who carry a fox's tongue in a bracelet will never suffer from ophthalmia.

XLVIII. Pain in the ears and ear affections are cured by the urine of a wild boar kept in a glass vessel, by the gall of a wild boar, pig, or ox, with citrus^b oil and rose oil in equal proportions, but best of all by warm bull's gall with leek juice, or with honey should there be suppuration, and for foul odour the gall by itself warmed in a pomegranate rind. Ruptures in this region are thoroughly healed by the gall with woman's milk. Some hold that for hardness of hearing also the ears should be rinsed out with this wash, others add serpents' slough and vinegar (they insert the mixture on wool), the ears being

For complaints of ears.

PLINY : NATURAL HISTORY

calida aqua aut, si maior sit gravitas, taurinum¹ fel cum murra et ruta in malicorio excalfactum infundunt, lardum quoque pingue; item fimum asini recens cum rosaceo instillatur, omnia tepefacta. utilior equi spuma vel equini fimi recentis cinis cum rosaceo, butyrum recens, sebum bubulum cum adipe anserino, urina caprae vel tauri aut fullonia vetus, calfacta
 175 vapore per lagoenae collum subeunte—admiscent aceti tertiam partem et aliquid murræ—vituli qui nondum herbam gustaverit fimum mixto felle eiusdem et cute² quam relinunt angues, excalectis prius auribus; lana autem medicamina ea includuntur. prodest et sebum vituli cum anseris adipe et ocimi suco, eiusdem medulla admixto cumino trito infusa, virus verrinum e scrofa exceptum priusquam terram
 176 attingat contra dolores, auribus fractis glutinum e naturis vitulorum factum et in aqua liquatum; aliis vitiis adips vulpium, item fel caprinum cum rosaceo tepido aut porri suco aut, si rupta sint aliqua ibi, e lacte mulieris; si gravitas audiendi, fel bubulum cum urina caprae vel hirci, vel si pus sit. in quocumque autem usu putant esse efficaciora haec in cornu
 177 caprino per dies viginti infumata. laudant et coagulum leporis tertia denarii parte ex dimidiaque sacopenii in Ammineo vino. parotidas ursinus adips comprimit pari pondere cerae et taurini sebi—addunt quidam hypocisthidem—³ et per se butyrum inlitum;

¹ taurinum *Urlichs, Detlefsen*: verrinum *Mayhoff e Marcello*: aurium *codd., vulg.*

² cute d x *Mayhoff*: cutem *multi codd., Detlefsen.*

³ *Sic dist. Mayhoff.*

^a With Mayhoff's reading: "hog's."

^b Perhaps "taken out of" (Warmington).

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si prius foveantur feni Graeci decocti suco, efficacius cum strychno. prosunt et vulpium testes et taurinus sanguis aridus tritus, urina caprae calefacta instillata auribus, fimum eiusdem cum axungia inlitum.

178 XLIX. Dentes mobiles confirmat cervini cornus cinis doloresque eorum mitigat, sive infricentur sive colluantur. quidam efficaciorum ad omnes eosdem usus crudi cornus farinam arbitrantur. dentifricia utroque modo fiunt. magnum remedium est et in luporum capitis cinere. certum est in excrementis eorum plerumque inveniri ossa; haec adalligata eundem effectum habent, item leporina coagula per aurem infusa contra dolores. et capitis eorum cinis dentifricium est adiectoque nardo mulcet graveo-
179 lentiam oris. aliqui murinorum capitum cinerem miscuisse malunt. reperitur in latere leporis os acui simile, hoc scarificare dentes in dolore suadent. talus bubulus accensus eos qui labant cum dolore admotus confirmat. eiusdem cinis cum murra dentifricium est. ossa quoque ex unguibus suum combusta eundem usum praebent, item ossa ex acetabulis pernarum
180 circa quae coxendices vertuntur. isdem sanari demissis in fauces iumentorum verminationes notum est, sed et combustis dentes confirmari, asinino quoque lacte percussu vexatos aut dentium eiusdem cinere, item lichene equi cum oleo infuso per aurem. est autem hoc non hippomanes, quod alioqui noxium
181 omitto, sed in equorum genibus ac super ungulas.

of fenugreek, more efficaciously with the addition of strychnos. Beneficial also are the testicles of foxes and bull's blood dried and pounded, she-goat's urine warmed and poured by drops into the ear, and an application of she-goat's dung with axle-grease.

XLIX. Loose teeth are made tight by the ash of *For the te* deer's horn, which relieves their pain, whether used as dentifrice or in a mouth wash. Some consider more efficacious for all the same purposes the unburnt horn ground to powder. Dentifrices are made in either way. A grand remedy too is a wolf's head reduced to ash. It is certain that bones are generally found in the excrements of wolves. Used as an amulet these have the same effect, and hare's rennet relieves toothache if poured through the ear. Hare's head reduced to ash makes a dentifrice, and with nard added corrects a bad odour from the mouth. Some prefer to add as well ash from the burnt heads of mice. There is found in the flank of a hare a bone like a needle, with which they recommend aching teeth to be scraped. The ignited pastern bone of an ox, applied to teeth that are loose and aching, tightens them; the ash of the same with myrrh makes a dentifrice. The bones also of pigs' feet, when burnt, have the same effect, as have the bones from the sockets round which the hip-bones move. It is well known that by these, when inserted into the throat of draught cattle, worms are cured, that by them, when burnt, teeth are tightened, as they are, when loosened through a blow, by ass's milk, by the ash of an ass's teeth, or by the lichen of a horse poured with oil through the ear. This lichen is not the same as hippomanes, which being pernicious on several grounds I omit, but an excrescence on the knees of

PLINY: NATURAL HISTORY

praeterea in corde equorum invenitur os dentibus caninis maximis simile, hoc scarifari dolorem aut exempto dente mortui equi maxillis ad numerum eius qui doleat demonstrant. equarum virus a coitu in ellychniis accensum Anaxilaus prodidit¹ equinorum capitum visus² repraesentare monstrifice, similiter ex asinis. nam hippomanes tantas in veneficio vires habet ut adfusum aeris mixturae in effigiem equae Olympiae
 182 admotos mares equos ad rabiem coitus agat. medetur dentibus et fabrile glutinum in aqua decoctum inlittum et mox paulo detractum ita ut confestim conluantur vino in quo decocti sunt cortices mali Punici dulcis. efficax habetur et caprino lacte conliti dentes vel felle taurino. talorum caprae recentium cinis dentrifricio placet et omnium fere villaticarum quadrupedum, ne saepius eadem dicantur.

183 L. Cutem in facie erugari et tenerescere candore³ lacte asinino putant, notumque est quasdam cottidie septies genas⁴ custodito numero fovere. Poppaea hoc Neronis principis instituit, balnearum quoque solia sic temperans, ob hoc asinarum gregibus eam comitantibus. impetus pituitae in facie butyro inlito tolluntur, efficacius cum cerussa, sincero vero ea vitia

¹ *Hic* lichenis *add. I. Müller: servat Mayhoff.*

² *visus vulg. : usus Detlefsen, codd.*

³ *candore Urlichs, Detlefsen, Mayhoff, qui conicit candore eius aucto (vel lucido) : candore custodito codd.*

⁴ *septics genas Mayhoff: septingenties multi codd., Hard., Detlefsen: septingentes VE. Coni. sescenties Warmington.*

^a *Candore* without an epithet or *cum* is odd, as Mayhoff felt when he added *eius aucto*. A repeated *custodito* can hardly be right, even in Pliny. If the *custodito* of the MSS. has replaced a lost adjective or participle it is but guess-work to attempt emendation.

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quae serpunt, superinposita farina hordeacia, ulcera
 184 in facie membrana e partu bovis madida. frivolum
 videatur, non tamen omittendum propter desideria
 mulierum, talum candidi iuveni XL diebus nocti-
 busque, donec resolvatur in liquorem, decoctum et in-
 litum linteolo candorem cutisque erugationem prae-
 stare. fimo taurino malas rubescere aiunt, non ut¹
 crocodileam inlini melius sit,² sed foveri frigida et ante
 185 et postea iubent. testas et quae decolorem faciunt
 cutem fimum vituli cum oleo et cummi manu sub-
 actum emendat, ulcera oris ac rimas sebum vituli vel
 bovis cum adipe anserino et ocimi suco. est et alia
 mixtura sebo vituli cum medulla cervi et albae spinae
 foliis una tritis. idem praestat et medulla cum resina
 186 vel si vaccina sit, et ius e carne vaccina. lichenas oris
 praestantissime vincit glutinum factum e genitalibus
 vitulorum, liquatum aceto cum sulphure vivo, ramo
 ficulneo permixtum, ita ut bis die recens inlinatur,
 item lepras ex melle et aceto decoctum, quas et iocur
 hirci calidum inlinitum tollit, sicut elephantiasin fel
 caprinum, etiamnum lepras ac furfures tauri fel addito
 nitro, urina asini circa canis ortum, maculas in facie fel
 utriusque per sese aqua infractum evitatisque solibus
 187 ac ventis post detractam cutem. similis effectus et in
 taurino vitulinove felle cum semine cunilae, cinere e

¹ ut *del. Gelenius.*

² sit *Urlichs, Mayhoff, sed (codd.) deleto.*

^a See § 108. The *non ut* is curious, as the sense requires *non ut non*. Gelenius would delete *ut*. Warmington suggests *ut non*.

^b Perhaps sun-burn.

spreading sores by unmixed butter with a sprinkling of barley meal on top, and ulcers on the face by the membrane, still moist, that follows the birth of a calf. The following recipe may seem a trifle, but to satisfy the women I must not omit it: the pastern bone of a white bull-calf, boiled for forty days and nights until it melts to a jelly, and applied on a linen cloth, gives whiteness to the skin and smooths away wrinkles. They say that bull's dung brings a rosy colour to the cheeks, though it is better to rub them with crocodilea,^a but before and after they must be bathed with cold water. Brick-red spots^b and discolorations of the skin are removed by calf dung kneaded by hand with oil and gum, sores and cracks in the mouth by veal suet or beef suet with goose grease and juice of ocimum. There is yet another compound, veal suet with deer's marrow and white-thorn leaves pounded together. The same effect is given by marrow with resin, even if it is cow marrow, and by the broth from cow beef. An excellent cure for facial lichens is the gluey substance made from the genitals of calves, dissolved in vinegar with native sulphur, stirred up with a fig branch and applied fresh twice a day, and the same boiled down in honey and vinegar for leprous sores, which are also removed by a warm application of he-goat's liver, as is leprosy by goat's gall. Moreover, leprous sores and scurf are removed by bull's gall with soda, or at the rising of the Dog-star by ass's urine; spots on the face by the gall of either animal broken up in water without addition; after the skin has come away sun and winds must be avoided. A similar effect is also obtained by bull's gall or veal gall, with the seed of cunila, and the ash of deer's horn burnt

*For affec-
tions of the
face.*

PLINY: NATURAL HISTORY

cornu cervino, si canicula ex oriente conburatur. asinino sebo cicatricibus a lichene leprisque maxime color redditur. hirci fel et lentigines tollit admixto caseo ac vivo sulphure spongeaeque cinere, ut sit mellis
188 crassitudo. aliqui inveterato felle maluere uti, mixtis calidis furfuribus pondere oboli unius quattuor- que mellis, prius defricatis maculis. efficax eiusdem et sebum cum melanthio et sulphure et iride, labrorum fissuris cum anserino adipe ac medulla cervina resina- que et calce. inveno aput auctores his qui lentigines habeant negari magice sacrificiorum usum.

189 LI. Lacte bubulo aut caprino tonsillae et arteriae exulceratae levantur. gargarizatur tepidum ut est usus, expressum aut calefactum. caprinum utilius cum malva decoctum et sale exiguo. linguae exul- cerationi et arteriarum prodest ius omasi gargariza- tum, tonsillis autem privatim renes vulpium aridi cum melle triti inliti- que, anginae fel taurinum vel capri-
190 num cum melle, iocur melis ex aqua. oris gravitatem ulceraque butyrum emendat. spinam aliudve quid faucibus adhaerens felis extrinsecus fimo perfricatis aut reddi aut delabi tradunt. strumas discutit fel aprunum vel bubulum tepidum inlitum—nam coagu- lum leporis e vino in linteolo exulceratis dumtaxat in-
191 ponitur—discutit et ungulae asini vel equi cinis ex oleo vel aqua inlitus et urina calefacta et bovis un- gulae cinis ex aqua, fimum quoque fervens ex aceto, item sebum caprinum cum calce aut fimum ex aceto decoctum testesque vulpini. prodest et sapo, Gal-

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liarum ¹ hoc inventum rutilandis capillis. fit ex sebo et cinere, optimus fagino et caprino,² duobus modis, spissus ac liquidus, uterque apud Germanos maiore in usu viris quam feminis.

192 LII. Cervicium dolores butyro aut adipe ursino perfricentur, rigores bubulo sebo, quod strumis prodest cum oleo. dolorem inflexibilem—opisthotonum vocant—levat urina caprae auribus infusa aut fimum cum bulbis inlitum, ungues contusos fel cuiuscumque animalis circumligatum, pterygia digitorum fel tauri aridum aqua calida dissolutum. quidam adiciunt sulphur et alumen pari pondere omnium.

193 LIII. Tussim iocur lupi ex vino tepido sanat, ursinum fel admixto melle aut ex cornus bubuli summis partibus cinis, vel saliva equi triduo pota—ecum mori tradunt—pulmo cervinus cum gula sua arefactus in fumo, dein tusus ex melle cottidiano eligmate; efficacior est ad id subulo cervorum generis. san-

194 guinem expuentes cervini cornus cinis, coagulum leporis tertia parte denarii cum terra Samia et vino myrteo potum sanat, eiusdem fimi cinis in vino vesperi potus nocturnas tusses, pili quoque leporis suffiti extrahunt pulmonibus difficiles excreationes. purulentas autem exulcerationes pectoris pulmonisque et a pulmone graveolentiam halitus butyrum efficacissime iuvat cum pari modo mellis Attici decoctum donec

¹ Galliarum dT *Mayhoff*: Gallarum RE: Gallorum V, *vulg.*, *Detlefsen*.

² caprino *codd.*, *Mayhoff*: carpineo *Sillig*, *Detlefsen*.

^a *Sillig's* emendation, adopted by *Detlefsen*, would give: "or hornbeam." It was suggested by the strange arrangement of *sebo*, *cinere*, *fagino*, *caprino*.

is also good, an invention of the Gallic provinces for making the hair red. It is made from suet and ash, the best from beech ash and goat suet,^a in two kinds, thick and liquid, both being used among the Germans, more by men than by women.

LII. For pains in the neck it should be rubbed with butter or bear's grease, and for stiffness with beef suet, which with oil is good for scrofulous sores. The rigid cramp, called opisthotonus, is relieved by she-goat's urine poured into the ears or by an application of the dung with bulbs, crushed nails by binding round them the gall of any animal, and whitlows by dried bull's gall dissolved in hot water. Some add sulphur and alum, all the ingredients being of equal weight.

LIII. Cough is cured by wolf's liver in warmed wine, by bear's gall mixed with honey, by the tips of the horns of ox or cow reduced to ash, by the saliva of a horse taken for three days (they say that the horse dies), by a deer's lung dried in smoke with the gullet, then pounded in honey and taken daily as an electuary, the species of deer more efficacious for this purpose being the subulo.^b Spitting of blood is cured by the ash of deer's horn, and by hare's rennet, the dose being one third part of a denarius, with Samian^c earth and myrtle wine. Hare's dung reduced to ash and taken in wine in the evening cures night coughs, and inhaling the smoke of burning hare's-fur brings up difficult expectorations. Purulent ulceration of the chest or lungs, and foul breath from the lungs, are very effectively relieved by butter boiled with an equal measure of Attic honey until it turns

^b See XI. § 213.

^c A fine clay, of which the famous Samian ware was made.

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- rufescat et matutinis sumptum ad mensuram lingulae.
195 quidam pro melle laricis resinam addere maluere. si sanguis reiciatur, efficacem tradunt bubulum sanguinem, modice et cum aceto sumptum, nam de taurino credere temerarium est. sed glutinum taurinum tribus obolis cum calida aqua bibitur in vetere sanguinis excreatione.
- 196 LIV. Stomachum exulceratum lactis asinini potus reficit, item bubuli, rosiones eius caro bubula admixto aceto et vino cocta, rheumatismos cornus cervini cinis, sanguinis excreationes haedinus sanguis recens ad cyathos ternos cum aceto acri pari modo fervens potus, coagulum tertia parte ex aceto potum, LV. iocineris
197 dolores lupi iocur aridum ex mulso, asini iocur aridum cum petroselini partibus duabus ac nucibus tribus ex melle tritum et in cibo sumptum, sanguis hircinus cibo aptatus. suspiriosis ante omnia efficax est potus equiferorum sanguinis, proxime lactis asinini tepidi, bubuli¹ decocti ita ut serum ex eo bibatur, addito in tres heminas cyatho nasturtii albi perfusi aqua, deinde melle diluti. iocur quoque vulpinum aut pulmo in vino nigro aut fel ursinum in aqua laxat meatus spirandi.
- 198 LVI. Lumborum dolores et quaecumque alia moliri opus sit ursino adipe perfricari convenit, cinerem apruni aut suilli fimi inveterati aspergi potioni vini. [adferunt² et Magi sua commenta: primum omnium rabiem hircorum, si mulceatur barba, mitigari, eadem

¹ bubuli VRdT, *Detlefsen, Mayhoff*: bulbi E: bulbis r *vulg.*

² adferunt VRd *vulg. Mayhoff*: adiciunt *Sillig, Detlefsen.*

^a It was supposed to be poison.

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praecisa non abire eos in alienum gregem.¹] ischiadicis fimum bubulum inponunt calfactum in foliis cinere ferventi.² huic admiscent fimum caprinum et subdito linteolo uncto cava manu quantum capi possit fervens sustineri iubent ita ut, si laeva pars doleat, haec medicina in dextera manu fiat aut e contrario. fimum quoque ad eum usum acus aerae punctu tolli
 199 iubent. modus est curationis donec vapor ad lumbos pervenisse sentiatur, postea manum porro tuso inlinunt, item lumbos ipso fimo cum melle; suadent in eo dolore et testes leporis devorare. in renium dolore leporis renes crudos devorari iubent, aut certe coctos ita ne dente contingantur. ventris quidem dolore temptari negant talum leporis habentes.
 200 LVII. Lienem sedat fel apri vel suis potum vel cervini cornus cinis in aceto, efficacissime tamen inveteratus lien asini ita ut in triduo sentiatur utilitas. asinini pulli fimum quod primum edidit—polcam vocant—Syri dant in aceto mulso, datur et equi lingua inveterata ex vino praesentaneo medicamento, ut didicisse se ex barbaris Caecilius Bion tradidit, et lien bubulus simili modo, recens autem assns vel elixus in cibo. in vesica quoque bovis alii capita XX tusa cum

¹ *uncos add. Mayhoff.*

² *ischadicis . . . ferventi transposuit Mayhoff ex § 199, ubi post leporis devorare habent codd., vulg.*

^a I have bracketed this sentence, following Mayhoff; where it should be transferred is not clear.

^b Mayhoff's transposition of *ischadicis fimum . . . ferventi* is not certain, although Dioscorides, II. 80, § 2, ἐπὶ ἰσχιαδικῶν . . . καλεῖται δὲ τοιαύτη καῦσις Ἀραβικὴ, is very similar. The *huic admiscent* after *imponunt* is strange; if the transposition is correct, *huic* must mean "the dung last mentioned," and the

to another herd.]^a For sciatica they apply cow-dung heated in leaves over hot embers.^b With this dung they mix goat's dung, prescribing that as much as it can contain should be held hot in the hollow of the hand, a linen cloth soaked in oil being placed underneath; if the left side aches the medicament should be held in the right hand, and *vice versa*; the dung for this purpose, they say, must be taken up with the point of a bronze needle. The treatment is continued until the warmth is felt to have reached the loins; afterwards they rub the hand with pounded leek, the loins also with the dung itself and honey. For this pain they also recommend sufferers to swallow a hare's testicles. For pain in the kidneys they prescribe the kidneys of a hare to be swallowed raw, or if boiled at least not to be touched by a tooth. Bowel pain indeed never, they say, afflicts those who carry about them the pastern bone of a hare.

LVII. The spleen is relieved by wild boar's or pig's gall taken by the mouth, by ash of deer's horn in vinegar, but most efficaciously by matured ass's spleen, with the result that benefit is felt within three days. The first dung passed by an ass's foal, called *polea*, is administered by the Syrians in oxymel. There is also administered in wine as a sovereign remedy the dried tongue of a horse, as Caecilius Bion reports that he learnt from foreigners.^c Spleen of ox or cow is administered in a similar way; if fresh it is roasted or boiled and taken in food. There are also applied for pains in the spleen twenty crushed heads of garlic

For the spleen.

application to the hip is to be reinforced by holding some in the hand.

^c This is interesting, for it shows how wide Pliny spread his net. The remedies given are by no means all Italian.

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201 aceti sextario imponuntur ad lienis dolores. eadem ex causa emi lienem vituli quanti indicatus sit iubent Magi nulla pretii cunctatione, quoniam hoc quoque religiose pertineat, divisumque per longitudinem adnecti tunicae utrimque et induentem pati decidere ad pedes, dein collectum arefacere in umbra. cum hoc fiat, simul residere lienem aegri vitiatum liberari-que eum morbo dicitur. prodest et pulmo vulpium cinere siccatus atque in aqua potus, item haedorum lien impositus.

202 LVIII. Alvum sistit cervi sanguis, item cornus cinis, iocur aprunum ex vino potum citra salem recensque, item assum, vel suillum, hircinum decoctum ad quintas¹ in vino, coagulum leporis in vino ciceris magnitudine aut, si febris sit, ex aqua—aliqui et gallam adiciunt, alii per se leporis sanguine contenti sunt—lac coctum, equini fimi cinis in aquae potu, taurini cornus veteris e parte ima cinis inspersus potioni aquae, sanguis hircinus in carbone decoctus, corium caprinum cum suo pilo decoctum suco epoto,

203 coagulum equi et sanguis caprinus vel medulla vel iocur. alvum solvit fel lupi cum elaterio umbilico inlitum² vel lactis equini potus, item caprini cum sale et melle, caprae fel cum cyclamini suco et aluminis momento—aliqui et nitrum et aquam adiecisse malunt—fel tauri cum absinthio tritum ac subditum pastillo,

¹ ad quintas *ego*: ad quintam heminae *Detlefsen*: ad quintas hemina *Mayhoff*: ad quintam heminam *codd.*

² inlitum *vet. Dal., Mayhoff*: inligatum *codd., Detlefsen.*

^a I believe that the -s of *quintas* was taken to be a sign for *hemina*; the further change to *quinta(m) heminam* would be inevitable. For the omission of a measure cf. *ad dimidias partes* § 206.

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204 butyrum largius sumptum. coeliacis et dysintericis medetur iocur vaccinum, cornus cervini cinis tribus digitis captus in potione aquae, coagulum leporis subactum in pane, si vero sanguinem detrahant, in polenta, apruni vel suilli vel leporini fimi cinis inspersus potioni tepidi vini. vituli quoque ius vulgariter dari¹ inter auxilia coeliacorum et dysintericorum tradunt. lactis asinini potus utilior addito melle, nec minus efficax fimi cinis ex vino utriusque vitio, item polea supra dicta, equi coagulum, quod 205 aliqui hippacen appellant, etiam si sanguinem detrahant, vel fimi cinis dentiumque eiusdem tusorum farina salutaris et bubuli lactis decocti potus. dysintericis addi mellis exiguum praecipiunt et, si tormina sint, cornus cervini cinerem aut fel taurinum cumino mixtum et cucurbitae carnes umbilico inponere. caseus recens vaccinus inmittitur ad utrumque vitium, item butyrum heminis quattuor cum resinae terebinthinae sextante aut cum malva decocta aut cum rosaceo. datur et sebum vitulinum aut bubulum, 206 item medulla²—et cocuntur³ cum farinae ceraeque exiguo et oleo, ut sorberi possit;⁴ medulla et in pane subigitur—lac caprinum ad dimidias partes decoctum. si sint et tormina, additur protropum. torminibus satis esse remedii in leporis coagulo poto e vino tepido vel semel arbitrantur aliqui. cautiores et sanguine

¹ dari *Mayhoff*: datum *Detlefsen*: datum aut dati *codd.*

² medulla *VdTE Mayhoff*: medullae *R, vulg., Detlefsen.*

³ et coquantur (cocuntur) *VdTE*: excoquantur *R, vulg., Detlefsen*: et coquitur *Mayhoff.*

⁴ possit *Mayhoff, codd.*: possint *Detlefsen, vulg.*

with coeliac disorder or dysentery are benefited by cow's liver, a three-finger pinch of the ash of deer's horn taken in a draught of water, by hare's rennet kneaded in bread, but in pearl barley if blood is brought away, and by ash of wild boar's, pig's, or hare's dung sprinkled on a draught of warm wine. It is also reported that veal broth is a popular remedy to relieve sufferers from coeliac disorder or dysentery. Ass's milk makes a more beneficial draught with the addition of honey, the dung, reduced to ash and taken in wine, is no less efficacious for either complaint, *polea*^a too, which I mentioned just now, horse's rennet, that some call *hippace*, even if blood is brought away, or the dung ash and crushed teeth of the same animal, a health-giving powder, and taken with boiled cow's milk. For dysentery is prescribed the addition of a little honey, and if there are griping pains to apply to the navel the ash of deer's horn or bull's gall mixed with cummin, and the fleshy parts of a gourd. New cheese made from cow's milk is injected for both complaints, so also four heminae of butter with two ounces of terebinth resin, or with a decoction of mallows, or with rose oil. There is administered also veal suet, beef suet, or the marrow (they are boiled with a little flour and wax, and with oil, so that to drink the mixture is possible, and the marrow is also kneaded in bread), and goat's milk boiled down to one half; if there is also griping, *protropum*^b is added. It is thought by some that a sufficient remedy for griping is even a single dose of hare's rennet taken in warm wine; more careful people also apply as

^a See § 200.

^b The first wine made from grapes before pressing. See XIV. § 75 and § 85.

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caprino cum farina hordeacea et resina ventrem in-
207 linunt. ad omnes epiphoras ventris inlini caseum
mollem suadent, veterem autem in farinam tritum
coeliacis et dysintericis dari, cyatho casei in cyathis
vini cibarii tribus. sanguis caprinus decoctus cum
medulla dysintericis, iocur assum caprae coeliacis
subvenit, magisque etiam hirci, in vino austero decoc-
tum potumque vel ex oleo myrteo umbilico inpositum.
quidam decocunt a tribus sextariis aquae ad heminam
208 addita ruta. utuntur et liene asso caprae hircive et
sebo hirci in pane qui cinere coetus sit, caprae a reni-
bus maxime, ut per se hauriatur protinus aqua¹
modice frigida. sorberi iubent aliqui et in aqua
decoctum sebum admixta polenta et cumino et aneto
acetoque. inlinunt et ventrem coeliacis fimo cum
209 melle decocto. utuntur ad utrumque vitium et
coagulo haedi in vino myrtite fabae magnitudine poto
et sanguine eiusdem in cibum formato quem sangui-
culum vocant. infundunt dysintericis et glutinum
taurinum aqua calida resolutum. inflationes discutit
vitulinum fimum in vino decoctum. intestinorum
vitūs magnopere prodest coagulum cervorum decoc-
tum cum lente betaque atque in cibo ita sumptum,
leporis pilorum cinis cum melle decoctus,² lactis cap-
210 rini potu decocti cum malva exiguo sale addito. si
et coagulum addatur, maioribus emolumentis fiat.

¹ aqua *Detlefsen*: -que *Mayhoff*: que, inque, lique *codd.*

² decoctus *d vulg.*, *Mayhoff*: decocto *multi codd.*, *Detlefsen.*

^a We should say "grated cheese."

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eadem vis est et in sebo caprino in sorbitione aliqua, uti protinus hauriatur frigida aqua. item feminum haedi cinis rupta intestina sarcire mire traditur, fimum leporis cum melle decoctum et cottidie fabae magnitudine sumptum ita ut deploratos sanaverint. laudant et caprini capitis sum suis pilis decocti sucum.

211 LIX. Tenesmos, id est crebra et inanis voluntas desurgendi,¹ tollitur poto lacte asinino, item bubulo. taenearum genera pellit cervini cornus cinis potus. quae in excrementis lupi diximus inveniri ossa, si terram non attigerint, colo medentur adalligata bracchio. polea quoque supra dicta magnopere prodest decocta in sapa, item suilli fimi farina addito cumino in aqua rutae decoctae, cornus cervini teneri cinis cocleis Africanis cum testa sua tuis mixtus in vini potione.

212 LX. Vesicae calculorumque cruciatibus auxiliatur urina apri et ipsa vesica pro cibo sumpta, efficacius, si prius fumo maceretur utrumque. vesicam elixam mandi oportet, et a muliere feminae suis. inveniuntur et in iocineribus eorum lapilli aut duritiae lapillis similes, candidae, sicut in vulgari sue, quibus contritis atque in vino potis pelli calculos aiunt. ipsi apro tam gravis urina sua est ut nisi egesta fugae non sufficiat ac velut devinctus opprimatur, exuri illa

¹ id est . . . desurgendi *in uncis ponere velit Warmington.*

^a Warmington thinks that the explanation of *tenesmos* is a gloss.

^b See § 178.

^c See § 200.

^d Book XIV. § 80; it was must boiled down to one third.

of goat's suet in some kind of stew, to be immediately followed by a draught of cold water. A kid's hams also reduced to ash are said to be wonderfully healing to intestinal rupture, and the dung of a hare, boiled down with honey and taken daily in doses the size of a bean, to be so beneficial as they have cured desperate cases. Highly recommended also is the broth of a goat's head with the fur still on.

LIX. Tenesmus, that is a frequent and ineffectual desire to go to stool,^a is removed by drinking ass's milk, or cow's milk. Worms are expelled by ash of deer's horn, taken in drink. The bones that I have said ^b are found in the excrements of a wolf, tied on to the arm as an amulet without touching the earth, are a cure for colitis. Polea also, mentioned above,^c is of great benefit if boiled down in sapa,^d likewise too powdered pig's dung and cummin in the water of a decoction of rue, and young deer's horn reduced to ash, mixed with African snails pounded with their shells and taken in a draught of wine.

LX. The tortures of stone in the bladder are relieved by the urine of a wild boar and by his bladder itself taken as food; both remedies are more efficacious if first thoroughly smoked. The bladder should be eaten boiled, and be a sow's if the patient is a woman. There are also found in the liver of these animals little stones, or hard substances like stones, white, and like those found in the liver of the common pig. These, crushed and taken in wine, are said to expel stone. His own urine is such a burden to the boar himself that unless he has voided it he is not strong enough for flight, and is overcome as if spell-bound. It is said that the urine dissolves the stone. Stone is also expelled by a

*For stone
and the
kidney^s.*

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213 tradunt eos.¹ leporis renes inveterati in vino poti
 calculos pellunt. in pernae suum articulo os² esse
 diximus quod decoctum ius facit urinae utile.
 asini renes inveterati tritique ex vino mero dati
 vesicae medentur. calculos expellunt lichenes equini
 ex vino aut mulso poti diebus XL. prodest et un-
 gulae equinae cinis in vino aut aqua, item fimum
 caprarum in mulso, efficacius silvestrium, pili quoque
 caprini cinis; verendorum carbunculis cerebrum apri
 214 vel suis sanguisque. vitia vero quae in eadem parte
 serpunt iocur eorum combustum, maxime iunipiri
 ligno, cum charta et arrhenico sanat, fimi cinis, fel
 bubulum cum alumine Aegyptio ac murra ad crassi-
 tudinem mellis subactum, insuper beta ex vino cocta
 inposita, caro quoque; manantia vero ulcera sebum
 cum medulla vituli in vino decoctum, fel caprinum
 cum melle rubique suco, vel si serpant; fimum etiam
 215 butyrum. testium tumor sebo vituli addito nitro co-
 hibetur vel fimo eiusdem ex aceto decocto. urinae
 incontinentiam cohibet vesica apruna, si assa man-
 datur, unguularum apri vel suis cinis potioni inspersus,
 vesica feminae suis conbusta ac pota, item haedi, vel
 pulmo, cerebrum leporis in vino, eiusdem testiculi
 tosti vel coagulum cum anserino adipe in polenta,
 renes asini in mero triti potique. Magi verrini geni-
 talis cinere poto ex vino dulci demonstrant urinam

¹ ea . . . illos *coni*. *Mayhoff*.

² articulo os *Mayhoff*: articulos *codd*.

^a See § 179.

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facere in canis cubili ac verba adicere, ne ipse urinam faciat ut canis in suo cubili. rursus ciet urinam vesica suis, si terram non attigerit, inposita pubi.

216 LXI. Sedis vitiis praeclare prodest fel ursinum cum adipe. quidam adiciunt spumam argenti ac tus. prodest et butyrum cum adipe anserino ac rosaceo; modum ipsae res statuunt, ut sint inlitu faciles. praeclare medetur et taurinum fel in linteolis concerptis, rimasque perducit ad cicatricem. inflationibus in ea parte sebum vituli, maxime ab inguinibus, cum ruta; ceteris vitiis medetur sanguis caprinus cum polenta, item fel caprinum condylomatis per se, item fel
217 lupinum ex vino. panos et apostemata in quacumque parte sanguis ursinus discutit, item taurinus aridus tritus. praecipuum tamen remedium traditur in calculo onagri quem dicitur, cum interficiatur, reddere urina liquidiozem initio sed in terra spissantem se. hic adalligatus femini omnes impetus discutit omnique suppuratione liberat. est autem rarus inventu nec ex omni onagro, sed mire¹ celebrant² remedio. prodest et urina asini cum melanthio et unguulae equinae cinis cum oleo et aqua inlitus, sanguis equi, praecipue admissarii, sanguis bubulus,
218 item fel. caro quoque eosdem effectus habet calida inposita et unguulae cinis ex aqua aut melle, urina caprarum, hircorum quoque carnes in aqua decoctae

¹ mire *I. Müller, Mayhoff*: medici *Brakman*: me r: ne E om. multi codd.

² celebrant *I. Müller, Mayhoff*: celebrari codd.: celebri vulg. Fortasse maxime celebratur.

^a I. Müller's emendations, adopted by Mayhoff, have been kept with some misgivings. Mayhoff himself suggests *maxime*,

duced to ash, the patient should make water in a dog's bed and add a prayer, that he may not himself make water, as a dog does, in his own bed. On the other hand, the bladder of a pig is diuretic, if, without touching the ground, it is applied to the pubic part.

LXI. Complaints of the anus are greatly benefited *For the an* by bear's gall and bear's fat; some add litharge and frankincense. Beneficial too is butter with goose grease and rose oil; the quantities are determined by circumstances; the mixture must be easy to apply. Greatly beneficial too is bull's gall in scraps of linen; it makes chaps to cicatrize. Swellings in that part of the body are reduced by veal suet, especially by that from the groin, with rue; other complaints are cured by goat's blood with pearl barley, condylomata by goat's gall by itself, or by wolf's gall in wine. Superficial and other abscesses in any part are dispersed by bear's blood, and likewise by bull's dried and powdered. The finest remedy, however, is said to be the stone which the wild ass is reported to pass in his urine when he is being killed; more fluid than it at first, it grows thick when on the ground. This stone fastened to the thigh as an amulet disperses all inflamed swellings and clears away any suppuration. It is found, however, rarely and not always in the wild ass, but it is wonderfully famous^a as a remedy. Beneficial also is the urine of an ass with melanthium, a horse's hoof reduced to ash and applied with oil and water, the blood of a horse, especially of a stallion, and the blood or gall of an ox or cow. Beef too has the same effect if applied hot, the ash of the hoof in water or honey, the urine of she-goats, the flesh too and *celebratur* is perhaps nearer the MSS. reading than *celebrant*. Brakman's emendation is possibly right.

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aut fimum ex his cum melle decoctum, fel verrinum, urina suum in lana inposita. femina adteri adurique equitatu notum est. utilissimum est ad omnes inde causas spumam equi ex ore inguinibus inlinere. inguina et ex ulcerum causa intumescunt. remedio sunt equi saetae tres totidem nodis alligatae intra ulcus.

- 219 LXII. Podagris medetur ursinus adipis taurinum-que sebum pari pondere et cerae. addunt quidam hypocisthidem et gallam. alii hircinum praeferunt sebum cum fimo caprae et croco, sinapi, item¹ caulibus hederæ tritis ac perdicio vel flore cucumeris silvestris.
- 220 item bovis fimum cum aceti faece magnificant et vituli qui nondum herbam gustaverit fimum aut per se sanguinem tauri, vulpem decoctam vivam donec ossa tantum restent, lupumve vivum oleo cerati modo incoctum, sebum hircinum cum helxines parte aequa, sinapis tertia, fimi caprini cinerem cum axungia. quin et ischiadicos uri sub pollicibus pedum eo fimo fervente utilissime tradunt, articulorumque vitiis fel ursinum utilissimum esse et pedes leporis adalligatos, podagras quidem mitigari pede leporis viventi absciso,
- 221 si quis secum adsidue habeat. perniones ursinus adipis rimasque pedum omnes sarcit, efficacius alumine addito, sebum caprinum, dentium equi farina, aprunum vel suillum fel cum adipe, pulmo inpositus, etsi subtriti sint contunsive offensatione, si vero adusti frigore, leporini pili cinis, eiusdem pulmo contusis dissectus

¹ sinapi, item *Mayhoff e Dioscoride*: sinapi vel *Gelenius, Detlefsen*: sinapii vel E: sinapi cum d r.

^a I have adopted the emendation of Mayhoff, because he has some confirmatory evidence in Dioscorides and Plinius Junior. But in so amorphous a sentence any emendations are necessarily dubious.

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- 222 aut pulmonis cinis. sole adusta sebo asinino aptissime curantur, item bubulo cum rosaceo. clavos et rimas callique vitia fimum apri vel suis recens inlitum ac tertio die solutum sanat, talorum cinis, pulmo aprinus aut suillus aut cervinus, adtritrus calciamentorum urina asini cum luto suo inlita, clavos sebum bubulum cum turis polline, perniones vero corium conbustum, melius si ex vetere calciamento, iniurias
- 223 e calceatu ex oleo corii caprini cinis. varicum dolores sedat fimi vitulini cinis cum lili bulbis decoctus addito melle modico, itemque omnia inflammata et suppurationes minantia. eadem res et podagris prodest et articulariis morbis, e maribus praecipue vitulis, articulorum adtritis fel aprorum vel suum linteo calefacto inpositum, vituli qui nondum herbam gustaverit fimum, item caprinum cum melle in aceto decoctum. ungues scabros sebum vituli emendat, item caprinum admixta sandaraca. verrucas vero aufert fimi vitulini cinis ex aceto, asini urina et lutum.
- 224 LXIII. Comitiali morbo testes ursinos edisse prodest vel aprunos bibisse ex lacte equino aut ex aqua, item aprunam urinam ex aceto mulso, efficacius quae inaruerit in vesica sua. dantur et suum testiculi inveterati tritique in suis lacte, praecedente vini abstinentia et sequente continuis <denis>¹ diebus, dantur et leporis sale custoditi pulmones cum turis
- 225 tertia parte in vino albo per dies XXX, item coagula

¹ denis coni. *Mayhoff*: om. codd.

^a It appears likely that the *d* of *diebus* has led to the omission of a sign for *decem* or *denis*.

by the lung of the same animal cut up or reduced to ash. Sun burns are most beneficially treated by ass suet, and also by suet of an ox or cow with rose oil. Corns, chaps, and calluses are cured by an application of fresh wild-boar's dung, or pig's, taken off on the third day, by their pastern bones reduced to ashes, by the lung of wild boar, pig, or deer; chafing from shoes by the application of an ass's urine with the mud made by it; corns by beef suet with powdered frankincense; chilblains, however, by burnt leather, if from an old shoe so much the better, sores from foot-wear by the ash of goat leather in oil. The pains of varicose veins are alleviated by the ash of calf's dung boiled down with the bulbs of a lily, with the addition of a little honey, and so are all inflamed places that threaten to suppurate. The same preparation is good for gout and diseases of the joints, especially if it is taken from a male calf, for chafed joints the gall of wild boars or of pigs applied in a heated linen cloth, the dung of a calf that has not tasted grass, also the dung of goats boiled down in vinegar with honey. Scabrous nails are cured by veal suet, also by goat suet mixed with sanderach. Warts however are removed by the ash of calf's dung in vinegar, or by the urine with its mud of an ass.

LXIII. For epilepsy it is beneficial to eat a bear's testes or to take those of a wild boar in mare's milk or water, likewise wild-boar's urine in oxymel, with increased efficacy if it has dried in his bladder. There are also given the testicles of pigs dried and pounded in sow's milk, abstinence from wine preceding and following for <ten>^a days. There are also given the lungs of a hare preserved in salt, with a third part of frankincense, taken in white wine for thirty days;

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eiusdem, asini cerebrum ex aqua mulsa, infumatum prius in foliis, semuncia per dies <V,> vel¹ unguularum eius cinis coclearibus binis toto mense potus, item testes sale adservati et inspersi potioni in asinarum maxime lacte vel ex aqua. membrana partus earum, praecipue si marem pepererint, olefactata accedente morbo comitialium resistit. sunt qui e mare nigroque cor edendum cum pane sub diu prima aut secunda luna praecipiant, alii carnem, aliqui sanguinem
 226 aceto dilutum per dies XL bibendum. quidam urinam aquae ferrariae ex officinis miscent eademque potione et lymphatis medentur. comitialibus datur et lactis equini potus lichenque in aceto mulso bibendus, dantur et carnes caprinae in rogo hominis tostae, ut volunt Magi, sebum earum cum felle taurino pari pondere decoctum et in folliculo fellis reconditum ita ne terram attingat, potum vero ex aqua sublime. morbum ipsum deprehendit caprini cornus vel cervini usti nidor. sideratis urina pulli asinini nardo admixto perunctione prodesse dicitur.

227 LXIV. Regio morbo cornus cervini cinis, sanguis asini ex vino, item fimum asinini pulli quod primum edidit a partu datum fabae magnitudine e vino

¹ V, vel *Hard.* : vel *Detlefsen, codd.* : VII *Mayhoff*.

^a Again, the *v* of *vel* has led to the omission of the numeral.

^b In Cato (LXX and LXXI) *stare sublime* means "to stand upright." For an epileptic to do so might be difficult.

^c Neither Littré nor the Bohn translator comments on this vague sentence. It is not clear how the presence of epilepsy is detected by this test. Possibly a fit is diagnosed as epileptic according as it reacts to the treatment.

^d See II. § 108. Sometimes sunstroke may be referred to by this term. Many expressions in this chapter are curious. Why for instance both *testes* and *testiculi*? *Morbo comitialium*

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medetur intra diem tertium. eadem et ex equino pullo similiterque ¹ vis est.

LXV. Fractis ossibus praesentaneus maxillarum apri cinis vel suis, item lardum elixum atque circumligatum mira celeritate solidat. costis quidem fractis laudatur unice caprinum fimum ex vino vetere, aperit, extrahit, persanat.

228 LXVI. Febres arcet cervorum caro, ut diximus, eas quidem quae certo dierum numero redeunt oculus lupi dexter salsus adalligatusque, si credimus Magis. est genus febrium quod amphemerinon vocant. hoc liberari tradunt, si quis e vena auris asini tres guttas sanguinis in duabus heminis aquae hauserit. quartanis Magi excrementa felis cum digito bubonis adalligari iubent, et ne recidant non removeri ² septeno circumitu. quis hoc, quaeso, invenire potuit? quae est ista mixtura? cur digitus potissimum bubonis electus est? modestiores iocur felis decrescente luna occisae inveteratum sale ex vino bidentum ante accessiones quartanae dixere. iidem Magi fimi bubuli cinere consperso puerorum urina inlinunt digitos pedum manuumque.³ leporis cor adalligant. coagulum ante accessiones propinant. datur et caseus caprinus recens cum melle diligenter sero expresso.

230 LXVII. Melancholicis fimum vituli in vino decoctum remedio est. lethargicos excitat asini lichen

¹ similiterque *codd. et edd.*: similiter *vel* fimi similiter dati *coni. Mayhoff.*

² *Hic addendum nisi coni. Mayhoff.*

³ manuumque *Mayhoff*: manibusque *vulg. Detlefsen, d*: manusque *VRE*: mausque *r.*

^a Probably: removes any diseased matter before healing takes place.

^b See VIII. § 119.

The first dung too of a young colt, administered in a similar way, has the same effect.

LXV. For broken bones a sovereign remedy is the ash of the jaw-bone of a wild boar or of a pig; likewise boiled bacon-fat, tied round the fracture, heals with marvellous rapidity. For broken ribs however the highest praise is given to goat's dung in old wine; it opens, extracts,^a and completely heals. *For broken bones.*

LXVI. Fevers are kept away by the flesh of deer, as I have said,^b those indeed which return at fixed intervals by the salted right eye of a wolf worn as an amulet, if we are to believe the Magi. There is a kind of fever called "amphemerinos."^c It is said that he is freed from this who drinks three drops of blood from an ass's ear in two heminae of water. For quartans the Magi prescribe the excrement of a cat with the claw of a horned owl worn as an amulet, and to prevent a relapse the amulet should not be removed before the seventh periodic return. Who pray could have made this discovery? What sort of combination is this? Why was an owl's claw chosen rather than anything else? Some more moderate people have prescribed the salted liver of a cat killed when the moon is on the wane, to be taken in wine before the access of a quartan. The Magi also apply to the toes and fingers ox or cow dung reduced to ash and sprinkled with children's urine. They use the heart of a hare as an amulet, and give hare's rennet before each access. There is also given with honey fresh goat's cheese with the whey carefully pressed out. *For fevers.*

LXVII. A remedy for melancholia^a is calf's dung boiled down in wine. Victims of lethargy^d are *For melancholia, lethargy and consumption.*

^c Greek for quotidian, *i.e.* returning every day.

^d See List of Diseases.

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naribus inlitis ex aceto, caprini cornus nidor aut pilorum, iocur aprunum. itaque et veterosis datur. phthisicis medentur iocur lupi ex vino macro, suis feminae herbis pastae laridum, carnes asininae ex iure sumptae. hoc genere maxime in Achaia curant id malum. fimi quoque aridi sed pabulo viridi pasto bove fumum harundine haustum prodesse tradunt, bubuli cornus mucronem exustum duorum coclearium mensura addito melle pilulis devoratis. caprae sebo
231 in pulte alicacia et phthisim et tussim sanari, vel recenti, cum mulso liquefacto, ita ut uncia in cyathum addatur rutaeque ramo permisceatur, non pauci tradunt. rupicaprae sebi cyatho et lactis pari mensura deploratum phthisicum convaluisse certus auctor adfirmat. sunt et qui suum fimi cinerem profuisse scripserint in passo et cervi pulmonem, maxime subulonis, siccatum in¹ fumo tritumque in vino.

232 LXVIII. Hydropicis auxiliatur urina e vesica capri paulatim data in potu, efficacius quae inaruerit cum vesica sua, fimi taurini maxime, sed et bubuli—de armentivis loquor, quod bolbiton vocant—cinis coclearium trium in mulsi hemina, bovis feminae in mulieribus, ex altero sexu in viris, quod veluti mysterium occultarunt Magi, fimum vituli masculi inlitum, fimi vitulini cinis cum semine staphylini, aequa

¹ in *del. Mayhoff.*

^a Perhaps "certain."

^b For *subulo* see XI. § 213.

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portione ex vino, sanguis caprinus cum medulla. efficaciore[m] putant hircinum utique si lentisco pascantur.

- 233 LXIX. Igni sacro ursinus adips inlinitur, maxime qui est ad renes, vitulinum fimum recens vel bubulum, caseus caprinus siccus cum porro, ramenta pellis cervinae desecta pumice ex aceto trita, rubori cum prurigine equi spuma aut unguulae cinis, eruptionibus pituitae asinini fimi cinis cum butyro, papulis nigris caseus caprinus siccus ex melle et aceto in balneis, oleo remoto, pusulis suilli fimi cinis aqua inlitis vel
- 234 cornus cervini cinis, LXX. luxatis recens fimum aprinum vel suillum, item vitulinum, verris spuma recens cum aceto, fimum caprinum cum melle, bubula caro inposita, ad tumores fimum suillum in testo calefactum tritumque cum oleo. duritias corporum omnes tollit optime adips e lupis inlitis. in his quae rumpere opus est plurimum proficit fimum bubulum in cinere calefactum aut caprinum in vino vel aceto decoctum, in furunculis sebum bubulum cum sale aut, si dolores sint, cum oleo liquefactum sine sale, simili
- 235 modo caprinum, LXXI. in ambustis ursinus adips cum lilii radicibus, aprunum aut suillum fimum inveteratum, saetarum ex his e penicillis tectoriis cinis cum adipe tritus, tali bubuli cinis cum cera et medulla cervina, fel tauri, fimum leporis, sed caprarum fimum¹
- 236 sine cicatrice sanare dicitur. glutinum praestantissimum fit ex auribus taurorum et genitalibus, nec quic-

¹ fimum] “ an fimi cinis ? ” *Mayhoff*.

^a The punctuation of *Mayhoff* is attractive. He puts a full stop before *sine* and after *glutinum*, removing the one after *dicitur*. It has the support of *Pliny Junior*, but *fimum*

wine, and goat's blood with goat's marrow. That of a he-goat is considered more beneficial, especially if he has browsed on lentisk.

LXIX. There is applied for erysipelas bear's fat, especially that on the kidneys, fresh dung of calves or cattle, dried goat's cheese with leek, scrapings of deer's skin rubbed off with pumice and pounded in vinegar. For inflamed itch the foam of a horse or the ash of his hoof; for pituitous eruptions ass's dung reduced to ash with butter; for black pimples dried goat's cheese in honey and vinegar, applied in the bath, no oil being used, for pustules pig's dung reduced to ash and applied in water, or the ash of deer's horn, LXX. for dislocations the fresh dung of wild boar or of pig, or of calves, the fresh foam of a boar with vinegar, the dung of a goat with honey, an application of beef, and for swellings pig's dung warmed in an earthen pot and beaten up with oil. All indurations of the body are best removed by an application of wolf's fat. In the case of sores that need to break the most beneficial application is ox dung warmed on hot cinders or goat's dung boiled down in wine or vinegar, for boils beef suet with salt, or if there is pain melted with oil without salt, similarly with goat suet; LXXI. for burns bear's grease with lily roots, dried dung of wild boar or of pig, the ash of pig's bristles from plasterers' brushes beaten up with pig fat, the ash of the pastern bone of bull or cow with wax and deer marrow, bull's gall, hare's dung; but the dung of she-goats is said to heal without a scar.^a The finest glue is made from the ears and genitals of bulls, and there is no better

For various skin diseases.

For dislocations, indurations, burns.

leporis sed caprarum fimum contains a strange repetition of *fimum*.

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quam efficacius prodest ambustis, sed adulteratur nihil aequae, quibusvis pellibus inveteratis calciamentisque etiam decoctis. Rhodiaceum fidelissimum, eoque pictores et medici utuntur. id quoque quo candidius eo probatius, nigrum et lignosum damnatur.

237 LXXII. Nervorum doloribus fimum caprinum decoctum in aceto cum melle utilissimum putant vel putrescente nervo. spasmata et percussu vitata fimo apruno curant vere collecto et arefacto, sic et quadrigas agentes tractos rotave vulneratos et quoquo
238 modo sanguine contuso, vel si recens inclinatur. sunt qui incoxisse aceto utilius putent. quin et in potu farinam eam ruptis convulsisque et eversis ex aceto salutarem promittunt. recentiores¹ cinerem eius ex aqua bibunt, feruntque et Neronem principem hac potione recreari solitum, cum sic quoque se trigario adprobare vellet. proximam suillo fimo vim putant.

239 LXXIII. Sanguinem sistit coagulum cervinum ex aceto, item leporis, huius quidem et pilorum cinis, item ex fimo asini cinis inlitis, efficacior vis e maribus aceto admixto et in lana ad omne profluvium inposito, similiter ex equino, capitis et feminum aut fimi vitulorum cinis inlitis ex aceto, item caprini cornus vel

¹ recentiores *Hard.* : reverentiores *codd.*

^a With the reading of the MSS., "more cautious."

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240 fimi ex aceto. hircini vero iocineris dissecti sanies efficacior, et cinis utriusque¹ ex vino potus vel naribus ex aceto inlitus, hircini quoque utris, vinarii dumtaxat, cinis cum pari pondere resinae, quo genere sistitur sanguis et vulnus glutinatur. haedinum quoque coagulum ex aceto et feminum eius combustorum cinis similiter pollere traduntur.

241 LXXIV. Ulcera sanat in tibiis cruribusque ursinus adips admixta rubrica, quae vero serpunt fel aprunum cum resina et cerussa, maxillarum apri vel suum cinis, fimum suum inlitum siccum, item caprinum ex aceto subactum et subfervefactum.² cetera purgantur et explentur butyro, cornus cervini cinere vel medulla cervi, felle taurino cum cyprino aut fimo hircino.³ fimum recens suum vel inveterati farina inlinitur vulneribus ferro factis. phagedaenis et fistulis inmittitur fel tauri cum succo porri aut lacte mulierum vel sanguis

242 aridus cum cotyledone herba. carcinomata curat coagulum leporis cum pari pondere capparis adpersum vino, gangraenas ursinum fel pinna inlitum, asini ungularum cinis ea quae serpunt ulcera inspersus. sanguis equi adrodit carnes septica vi, item fimi equini inveterati favilla, ea vero quae phagedaenas vocant in ulcerum genere corii bubuli cinis cum melle. caro vituli recentia vulnera non patitur intumescere.

243 fimum bubulum cum melle, fimi vitulini cinis sordida

¹ *An sexus excidit ?*

² subactum et subfervefactum *Mayhoff ex Plinio Iunior et Marcello* : subfervefactum *codd.*

³ aut fimo hircino *Detlefsen* : oleo aut irino *Mayhoff ex Plinio Iunior cum cod. d* : *varia codd.*

^a For *sanies* see Celsus, V. 26, 20.

^b Has *sexus* fallen out here ?

or dung. The sanies,^a however, exuding from he-goat's liver when cut up is more efficacious, as is the liver of goats of either sex,^b reduced to ash and taken in wine or applied to the nostrils in vinegar, or the leather of a he-goat, but only that of a wine bottle, reduced to ash and with an equal weight of resin, by which remedy bleeding is stayed and the wound closed. Kid's rennet also in vinegar and kid's thighs burnt to ash are reported to be similarly effective.

LXXIV. Ulcers on the shins or shanks are healed by bear's grease mixed with ruddle, but spreading ulcers by wild boar's gall with resin and white lead, by the jaw-bones of wild boars or pigs reduced to ash, by the application of dried pigs'-dung, also by goat's dung, kneaded in vinegar and warmed. The other kinds of sores are cleansed and filled up by butter, by the ash of deer's horn or by deer's marrow, by bull's gall with cyprus oil or he-goat's dung.^c To wounds inflicted with iron is applied pigs' dung, either fresh or dried and powdered. Injected into phagedaenic ulcers and fistulas is bull's gall with juice of leek or woman's milk, or else dried blood with the herb cotyledon. Cancerous sores are treated with hare's rennet and an equal weight of caper sprinkled in wine, gangrenes by bear's gall applied with a feather, spreading ulcers by the ash of ass's hoofs sprinkled over them. Flesh is eaten away by the corrosive action of horse's blood and by the ash of dried horse-dung, but the ulcers coming under the class they call phagedaenic by the ash of oxhide with honey. Veal prevents fresh wounds from swelling. Foul ulcers and those called malignant are healed by dung of ox or cow with

*For ulcer.
and fistul.*

^c With Mayhoff's reading: "cyprus oil and iris oil."

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ulcera et quae cacoethe vocant e lacte mulieris sanant, recentes plagas ferro inlatas glutinum taurinum liquefactum, tertio die solutum. caseus caprinus siccus ex aceto ac melle purgat ulcera, quae vero serpant cohibet sebum cum cera, item addita pice ac sulphure percurat. similiter proficit ad cacoethe haedi feminum cinis e lacte mulieris et adversus carbunculos suis feminae cerebrum tostum inlitumque.

244 LXXV. Scabiem hominis asininae medullae maxime abolent et urina¹ eiusdem cum suo² luto inlita,³ butyrum etiam quod in iumentis proficit cum resina calida, glutinum taurinum in aceto liquefactum addita calce, fel caprinum cum aluminis cinere, bovas fimum bubulum, unde et nomen traxere. canum scabies sanatur bubulo sanguine recenti iterumque, cum inarescat, inlito et postero die abluto cinere lixivo.

245 LXXVI. Spinae et similia corpori extrahuntur felis excrementis, item caprae ex vino, coagulo quocumque, sed maxime leporis, cum turis polline et oleo aut cum visci pari pondere aut cum propoli. cicatrices nigras sebum asininum reducit ad colorem, fel vituli extenuat calefactum. medici adiciunt murrā et mel et crocum aereaque puxide condunt. aliqui et florem aeris admiscent.

246 LXXVII. Mulierum purgationes adiuvat fel tauri in lana sucida adpositum—Olympias Thebana addidit oesypum⁴ et nitrum—cornus cervini cinis potus, item

¹ urina *Mayhoff*: urinae *codd.*, *Detlefsen*.

² suo *codd.*: suillo *Urlichs*, *Detlefsen*.

³ inlita *Mayhoff*: inlitae *Detlefsen*: inlito *codd.*

⁴ oesypum *vet. Dal. ex Dioscoride*, *Mayhoff*: hysopum *Detlefsen, codd.*

^a *Bovae* = "ox disease."

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vulva laborantes inlitis quoque et fel taurinum cum opio adpositum obolis binis. vulvas et pilo cervino suffire prodest. tradunt cervas, cum senserint se gravidas, lapillum devorare, quem in excrementis repertum aut in vulva—nam et ibi invenitur—custo-
247 dire partus adalligatum. inveniuntur et ossicula in corde et in vulva perquam utilia gravidis parturientibusque. nam de pumice quae in vaccarum utero simili modo invenitur diximus in natura boum. lupi adipis inlitis vulvas mollit, dolores earum iocur. carnes lupi edisse parituris prodest, aut si incipientibus parturire sit iuxta qui ederit, adeo ut etiam contra in-
248 latas noxias valeat. eundem supervenire perniciosum est. magnus et leporis usus mulieribus. vulvas adjuvat pulmo aridus potus, profluvia iocur cum Samia terra ex aqua potum, secundas coagulum—caventur pridiana balnea—inlitem quoque cum croco et porri suco, in ¹ vellere adpositum abortus mortuos expellit. si vulva leporum in cibis sumatur, mares concipi putant, hoc et testiculis eorum et coagulo profici, conceptum leporis utero exemptum his quae parere desierint
249 restibilem fecunditatem adferre. sed pro conceptu ² leporis saniem et viro Magi propinant, item virgini

¹ in *add. Mayhoff*.

² sed pro conceptu E r d, *Detlefsen*: sic conceptus *Mayhoff*.

^a See XI. § 203.

^b Possibly “eat.”

troubles by an application also of this, and by two-oboli pessaries of bull's gall and poppy juice. It is beneficial also to fumigate the uterus with deer's hair. It is reported that hinds, when they realise that they are pregnant, swallow a little stone which, found in their excrements or in the uterus—for it is found there also—prevents miscarriage if worn as an amulet. There are also found in the heart and in the uterus little bones that are very useful to women who are pregnant or in child-bed. But about the pumice-like stone which in a similar way is found in the uterus of cows I have spoken when dealing with the nature of oxen.^a The uterus is softened by an application of wolf's fat, pains there by wolf's liver, but to have eaten^b the flesh of the wolf is beneficial for women near delivery, or at the beginning of labour the near presence of one who has eaten it, so much so that sorceries put upon the woman are counteracted. But for such a person to enter during delivery is a deadly danger. The hare is also of great use to women. The uterus is benefited by the dried lung taken in drink, fluxes by the liver taken in water with Samian earth, the after-birth is eased by hare's rennet—the bath must be avoided the day before—by the rennet applied also with saffron and leek juice; a pessary of it in raw wool brings away a dead foetus. If the uterus of the hare is taken in food, it is believed that males are conceived; that the same result is obtained by eating its testicles and rennet; that the foetus of a hare, taken from its uterus, brings a renewed fertility to women who are passed child-bearing. But the sanies of a hare is given by the Magi even to the male partner that conception may occur, and likewise

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viii grana fimi ut stent perpetuo mammae. coagulo quoque ob id cum melle inlinunt, sanguinem ubi evolosos pilos renasci nolunt. inflationi vulvae fimum aprunum suillumve cum oleo inlini prodest. efficacius sistit farina aridi, ut aspergatur potioni, vel si gravidae
250 aut puerperae torqueantur. lacte suis poto cum mulso adjuvantur partus mulierum, per se vero potum deficientia ubera puerperarum replet. eadem circumlita sanguine feminae suis minus crescent. si dolent, lactis asinini potu mulcentur, quod addito melle sumptum et purgationes carum adjuvat. sanat et vulvarum exulcerationes eiusdem animalis sebum inveteratum et in vellere adpositum duritias vulvarum emollit. per se vero recens vel inveteratum ex aqua
251 inlitum psilotri vim optinet. eiusdem animalis lien inveteratus ex aqua inlitus mammis abundantiam facit, vulvas suffitu corrigit. ungulae asinae suffitio partum maturat ut vel abortus evocetur, nec aliter adhibentur, quoniam viventem partum necant. eiusdem animalis fimum si recens inponatur, profluvia sanguinis mire sedare dicitur, nec non et cinis eiusdem
252 fimi, qui et vulvae prodest inpositus. equi spuma inlita per dies XL prius quam primum nascantur pili restinguntur, item cornus cervini decocto, melius, si recentia sint cornua. lacte equino iuvantur vulvae collutae. quod si mortuus partus sentiatur, lichen

^a Probably "fresh," "from a deer just killed."

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equae e dulci potus eicit, item ungula suffitu aut
fimur aridum. vulvas procidentes butyrum infusum
sistit. induratam vulvam aperit fel bubulum rosaceo
253 admixto, foris vellere cum resina terebinthina in-
posito. aiunt et suffitu fimi e mari bove procidentes
vulvas reprimi, partus adiuvari, conceptus vero
vaccini lactis potu. sterilitatem a partus vexatione
fieri certum est. hanc emendari Olympias Thebana
adfirmat felle taurino et adipe serpentium et aerugine
ac melle medicatis locis ante coitus. vitulinum quo-
que fel in purgationibus sub coitu adpersum vulvae
etiam duritias ventris¹ emollit et profluvium minuit
umbilico peruncto atque in totum vulvae prodest.
254 modum statuunt fellis pondere denarii, opii tertiam
admixto amygdalino oleo quantum satis esse ap-
pareat, haec in vellere inponunt. masculi fel vituli
cum mellis dimidio tritum servatur ad vulvas. car-
nem vituli si cum aristolochia inassatam edant circa
conceptum, mares parituras promittunt. medulla
vituli in vino et aqua decocta cum sebo exulcerationi-
bus vulvarum inposita prodest, item adips vulpium
excrementumque felium, hoc cum resina et rosaceo
255 inpositum. caprino cornu suffiri vulvam utilissimum
putant. silvestrium caprarum sanguis cum palma
marina pilos detrahit, ceterarum vero fel callum

¹ ventris *codd.*, *Detlefsen*: veteres *Mayhoff*.

^a Mayhoff's emendation of *ventris* to *veteres* ("chronic indurations of the uterus") is attractive because it allows *vulvae* to be taken with *duritias*, and also avoids the apparently irrelevant introduction of *ventris* in a list of female complaints. On the other hand, with this reading one would expect *etiam* to come immediately before *veteres*. Perhaps *ventris* emphasizes the general efficacy of calf's gall as a softener.

taking in fresh water the excrescence from the leg of a mare, also by fumigation with the hoof or the dried dung. An injection of butter stays prolapsus of the uterus. A hardened uterus is opened by ox gall mixed with rose oil, with an external application of terebinth resin on unwashed wool. They say that prolapsus of the uterus is corrected also by fumigation with the dung of an ox, that delivery is aided, and conception also, by drinking cow's milk. It is certain that sterility may result from sufferings at child-birth. This kind of barrenness, we are assured by Olympias of Thebes, is cured by bull's gall, serpents' fat, copper rust and honey, rubbed on the parts before intercourse. Calf's gall also, sprinkled on the uterus during menstruation just before intercourse, softens even indurations of the bowels,^a checks the flow if rubbed on the navel, and is generally beneficial to the uterus. The amount of gall prescribed is a denarius by weight; this and a third part of poppy juice, with as much almond oil as seems to be called for. The mixture is laid on unwashed wool. A bull-calf's gall beaten up with half the quantity of honey is stored away for uterine complaints. If women about the time of conception eat roasted veal with aristolochia, they are assured that they will bring forth a male child. A calf's marrow, boiled down in wine and water with calf's suet and applied to an ulcerated uterus, is beneficial, as is the fat of foxes with the excrement of cats, the last being applied with resin and rose oil. It is thought that to fumigate the uterus with goat's horn is very beneficial. The blood of wild she-goats with sea palm acts as a depilatory, while of other she-goats the gall softens callus of the uterus if sprinkled on it,

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vulvarum emollit inspersum et a purgatione conceptus facit. sic quoque psilotri vis efficitur, evulsis pilis triduo servatur inlithum. profluvium quamvis inmensum urina caprae pota sisti obstetrices promittunt, et si fimum inlinatur. membrana caprarum in qua partus editur inveterata potuque sumpta in vino
256 secundas pellit. haedorum pilis suffiri vulvas utile putant et in profluvio sanguinis coagulum bibi aut cum¹ hyoscyami semine inponi. e bove silvestri nigro si sanguine ricini lumbi perungantur mulieri, taedium veneris fieri dicit Osthanes, idem amoris potu hirci urinae admixto propter fastidium nardo.

257 LXXVIII. Infantibus nihil butyro utilius per se et cum melle, privatim et in dentitione et ad gingivas et ad oris ulcera. dens lupi adalligatus infantium pavores prohibet dentiendique morbos, quod et pellis lupina praestat—dentes quidem eorum maximi equis quoque adalligati infatigabilem cursum praestare
258 dicuntur. leporum coagulo ubere inlitho sistitur infantium alvus. iocur asini admixta modice panace instillatum in os a comitialibus morbis et aliis infantes tuetur; hoc XL diebus fieri praecipiunt. et pellis asini iniecta inpavidos infantes facit. dentes qui equis primum cadunt facilem dentitionem praestant adalligati infantibus, efficacius, si terram non attigere.

¹ *Ante hyoscyami add. cum Mayhoff.*

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259 lien bubulus in melle et datur et inlinitur ad lienis dolores, ad ¹ ulcera manantia cum melle ** lien vituli in vino decoctus tritusque et inlitus ulcuscula oris. cerebrum caprae Magi per anulum aureum traiectum prius quam lac detur infantibus instillant contra comitiales ceterosque infantium morbos. caprinum fimum inquietos infantes adalligatum panno cohibet, maxime puellas. lacte caprino aut cerebro leporum perunctae gingivae faciles dentitiones faciunt.

260 LXXIX. Somnos fieri lepore sumpto in cibis Cato arbitrabatur, vulgus et gratiam corpori in VIII dies, frivolo quidem ioco, cui tamen aliqua debeat subesse causa in tanta persuasione. Magi felle caprae, sacrificatae dumtaxat, inlito oculis vel sub pulvino posito somnum allici dicunt. sudores inhibet cornus caprini cinis ex myrteo oleo perunctis.

261 LXXX. Coitus stimulat fel aprunum inlitem, item medullae suum haustae, sebum asininum anseris masculi adipe admixto inlitem, item a coitu equi a Vergilio quoque descriptum virus et testiculi equini aridi ut potioni interi possint dexterve asini testis in vino potus, portione ² vel adalligatus bracchiali, eiusdem a coitu spuma collecta russeo panno et inclusa

262 argento, ut Osthanes tradit. Salpe genitale in oleum fervens mergi iubet septies eoque perungui perti-

¹ ad codd.: sedat *Mayhoff*: post melle lacunam indicat *Sillig*.

² portione *del. Warmington* ex potioni ortum. Vide tamen *Önnerfors, Pliniana* pp. 166, 167.

^a With *Mayhoff*'s reading: "running sores are soothed by etc."

^b The pun is on *lepus* "hare" and *lepos* "charm."

^c See *Georgics III* 280.

if the teeth have not touched the ground. Ox spleen in honey is administered internally and externally for painful spleen; for running sores^a with honey . . . a calf's spleen boiled in wine, beaten up, and applied to little sores in the mouth. The brain of a she-goat, passed through a golden ring, is given drop by drop by the Magi to babies, before they are fed with milk, to guard them from epilepsy and other diseases of babies. Restless babies, especially girls, are quietened by an amulet of goat's dung wrapped in a piece of cloth. Rubbing the gums with goat's milk or hares' brains makes easy the cutting of teeth.

LXXIX. Cato thought that to take hare as food is *Soporifics* soporific, and a popular belief is that it also adds charm to the person for nine days, a flippant pun,^b but so strong a belief must have some justification. According to the Magi the gall of a she-goat—she must be an animal sacrificed—induces sleep if applied to the eyes or placed under the pillow. Sweats are checked by rubbing the body with myrtle oil and ash of goat's horn.

LXXX. Aphrodisiacs are: an application of wild-boar's gall, pig's marrow swallowed, or an application of ass's suet mixed with a gander's grease; also the fluid that Virgil^c too describes as coming from a mare after copulation, the testicles of a horse, dried so that they may be powdered into drink, the right testis of an ass taken in wine, or a portion of it worn as an amulet on a bracelet; or the foam of an ass after copulation, collected in a red cloth and enclosed, as Osthane tells us, in silver. Salpe prescribes an ass's genital organ to be plunged seven times into hot oil, and the relevant parts to be rubbed therewith,

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nentes partes, Dalion cinerem ex eodem bibi vel tauri a coitu urinam, luto ipso inlini pubem. at e diverso muris¹ fimo inlito cohibetur virorum venus. ebrietatem arcet pulmo apri aut suis assns, ieiuni² cibo sumptus eo die, item haedinus.

- 263 LXXXI. Mira praeterea traduntur in isdem animalibus: vestigium equi excussum ungula, ut solet plerumque, si quis collectum reponat, singultus remedium esse recordantibus quonam loco id reposuerint, iocur luporum equinae ungulae simile esse et rumpi equos qui vestigia luporum sub equite sequantur, talis suum discordiae vim quandam inesse, in incendiis, si fimi aliquid egeratur e stabulis, facilius extrahi nec recurrere oves bovesque, hircorum carnes
- 264 virus non resipere, si panem hordeacium eo die quo interficiantur ederint laserve dilutum biberint, nullas vero teredinem sentire luna decrescente induratas sale. adeoque nihil omissum est ut leporem surdum celerius pinguescere reperiamus, animalium vero
- 265 medicinas: si sanguis profluat iumentis, suillum fimum ex vino infundendum, boum autem morbis sebum, sulphur vivum, alium silvestre concoctum,³ trita in vino danda aut vulpis adipem; carnem caballinam

¹ muris *vulg.*, *Detlefsen*: tauri *Mayhoff*: muri *codd.*: fortasse muli.

² ienuni *codd.*, *Detlefsen*: ieiunis in *C. F. W. Müller, Mayhoff*.

³ concoctum *T, Sillig, Detlefsen*: ovum crudum *Mayhoff*, qui ovum non coctum *coni.*: ovum coctum *vulg.*

^a With *Mayhoff*'s reading: "bull's."

^b The emendation of *C. F. W. Müller* is more normal than the reading of the MSS., but the latter can just be construed with the same sense.

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discoctam potu suum morbis mederi, omnium vero
quadripedum morbis capram solidam cum corio et
rana rubeta discoctam, gallinaceos non attingi a
vulpibus qui iocur animalis eius aridum ederint, vel
si pellicula ex eo collo induta galli inierint, similiter
266 in felle mustelae, boves in Cypro contra tormina
hominum excrementis sibi mederi, non subteri pedes
boum, si prius cornua ima pice liquida perunguntur,
lupos in agrum non accedere, si capti unius pedibus
infractis cultroque adacto paulatim sanguis circa fines
agri spargatur atque ipse defodiatur in eo loco ex quo
267 coeperit trahi, aut si vomerem quo primus sulcus eo
anno in agro ductus sit excussum aratro focus Larum
quo familia convenit¹ exurat, lupum nulli animalium
nociturum in eo agro quam diu id fiat. hinc deinde
praevertemur ad animalia sui generis quae aut
placida non sunt aut fera.

¹ convenit] conveniet *codd.*, *Mayhoff.*

fat; that horse flesh thoroughly boiled and taken in drink cures the diseases of pigs, while those of all quadrupeds are cured by a she-goat boiled whole with the hide and a bramble toad; that chickens are not touched by foxes if they have eaten dried fox-liver, or if the cocks have trodden the hens wearing a piece of fox skin round their necks; similarly with a weasel's gall; that the oxen in Cyprus eat human excrement to cure themselves of colic; that the hoofs of oxen are not chafed underneath if the bases of their horns are first rubbed with liquid pitch; that wolves do not enter a field if one is caught, his legs broken, a knife driven into the body, the blood sprinkled a little at a time around the boundaries of that field, and the body itself buried in that place at which the dragging of it began; or if the share, with which that year the first furrow of that field was cut, is knocked from the plough and burnt on the hearth of the Lares where the family assemble, a wolf will harm no animal in that field so long as the custom is kept up. We will now turn to animals in a peculiar class by themselves, which are not either tame or wild.

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LIBER XXIX

I. Natura remediorum atque multitudo instantium ac praeteritorum plura de ipsa medendi arte cogunt dicere, quamquam non ignarus sim, nulli ante haec Latino sermone condita ancepsque iudicium¹ esse rerum omnium novarum, talium² utique tam sterilis gratiae tantaeque difficultatis in promendo. sed quoniam³ occurrere verisimile est omnium qui haec noscant cogitationi, quoniam modo exoleverint in medicinae usu quae iam parata atque pertinentia erant, mirumque et indignum protinus subit nullam artium inconstantioem fuisse aut etiamnunc saepius mutari, cum sit fructuosior nulla. dis primum inventores suos adsignavit et caelo dicavit. nec non et hodie multifariam ab oraculis medicina petitur. auxit deinde famam etiam crimine, ictum fulmine Aesculapium fabulata, quoniam Tyndareum revocavisset ad vitam. nec tamen cessavit narrare alios revixisse opera sua clara Troianis temporibus, quibus fama certior, vulnerum tamen dumtaxat remediis.

4 II. Sequentia eius, mirum dictu, in nocte densissima latuere usque ad Peloponnesiacum bellum.

¹ iudicium *Detlefsen* : lubricum *Mayhoff* : ac lubricum d T.

² talium E *Gel.*, *Detlefsen* : exordium *Mayhoff* : et talium RdTf : et alium r : et italicum V : artium *coni. Warmington.*

³ quoniam *codd.*, *Detlefsen* : quaestionem *Mayhoff.*

^a Pliny seems to forget Scribonius Largus (if he knew him) and Celsus.

BOOK XXIX

I. The nature of remedies, and the great number of those already described or waiting to be described, compel me to say more about the art of medicine itself, although I am aware that no one hitherto has treated the subject in Latin,^a and that the judgement passed on all new endeavours is uncertain, especially on such as are barren of all charm, and the difficulty of setting them forth is so great. But since it is likely to come into the minds of all students of the subject to ask why ever things ready to hand and appropriate have become obsolete in medical practice, the thought occurs at once that it is both a wonder and a shame that none of the arts has been more unstable, or even now more often changed, although none is more profitable. To its pioneers medicine assigned a place among the gods and a home in heaven, and even today medical aid is in many ways sought from the oracle. Then medicine became more famous even through sin, for legend said that Aesculapius was struck by lightning for bringing Tyndareus back to life. But medicine did not cease to give out that by its agency other men had come to life again, being famous in Trojan times, in which its renown was more assured, but only for the treatment of wounds.

II. The subsequent story of medicine, strange to say, lay hidden in darkest night down to the Pelopon-

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tunc eam revocavit in lucem Hippocrates genitus in insula Coo in primis clara ac valida et Aesculapio dicata. is, cum fuisset mos liberatos morbis scribere in templo eius dei quid auxiliatum esset, ut postea similitudo proficeret, exscripsisse ea traditur, atque, ut Varro apud nos credit, templo cremato instituisse medicinam hanc quae clinice vocatur. nec fuit postea quaestus modus, quoniam Prodicus¹ Selymbriae natus, e discipulis eius, instituit quam vocant iatralipticen et unctoribus quoque medicorum ac mediastinis vectigal invenit.

III. Horum placita Chrysippus ingenti garrulitate mutavit plurimumque et ex Chrysippo discipulus eius Erasistratus Aristotelis filia genitus. hic Antiocho rege sanato centum talentis donatus est a rege Ptolomaeo filio eius, ut incipiamus et praemia artis ostendere.

IV. Alia factio ab experimentis se cognominans empiricen coepit in Sicilia. Acrone Agragantino Empedoclis physici auctoritate commendato. V. dissederuntque hae scholae, et omnes eas damnavit Herophilus in musicos pedes venarum pulsu discripto per aetatum gradus. deserta deinde et haec secta

¹ Prodicus] *Coni.* Herodicus *Dal.*

^a It is thought that Pliny should have said Herodicus, who was the teacher, not the pupil, of Hippocrates.

^b A celebrated Cnidian physician of the early third century B.C. Perhaps Pliny, with his *ingenti garrulitate*, has confused this physician with the Stoic philosopher, a prolific writer who lived about the same time.

^c Really the adopted son.

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est, quoniam necesse erat in ea litteras scire. mutata et quam postea Asclepiades, ut rettulimus, invenerat. auditor eius Themison fuit, seque inter initia adscripsit illi, mox procedente vita¹ sua et² placita mutavit, sed et illa Antonius Musa eiusdem auditor³ auctoritate divi Augusti quem contraria medicina gravi
7 periculo exemerat. multos praetereo medicos celeberrimosque ex his Cassios, Calpetanos, Arruntios, Rubrios. ducena quinquagena HS annuales⁴ mercedes fuere apud principes. Q. Stertinius inputavit principibus quod sestertiis quingenis annuis contentus esset, sescena enim sibi quaestu urbis fuisse enumera-
8 tis domibus ostendebat. par et fratri eius merces a Claudio Caesare infusa est, censusque, quamquam exhausti operibus Neapoli exornata, heredi HS ccc reliquere, quantum aetate eadem⁵ Arruntius solus. exortus deinde est Vettius Valens adulterio Messalinae Claudii Caesaris nobilitatus pariterque eloquentia.⁶ adsectatores et potentiam nactus novam instituit sectam. eadem aetas Neronis principatu ad
9 Thessalum transilivit delentem cuneta placita et rabie quadam in omnis aevi medicos perorantem, quali prudentia ingenioque aestimari vel uno argu-

¹ vita *vulg.*: vitia *codd.*

² sua et VRTf: ad sua E *Detlefsen*: sua d, *vulg.*: an et sua?

³ auditor] *om. codd.*, excidisse putat *Mayhoff*.

⁴ annuales dTf: annua his E *Detlefsen*: annuae iis *Mayhoff*.

⁵ aetate eadem *Ianus, Mayhoff*: Athenaidi *coni. Detlefsen* Athena id est E *vulg.*: Athenade R: Athena dens d.

⁶ eloquentiae adsectatores et potentiae *Mayhoff*.

^a He used cold baths instead of hot.

^b These were probably Greeks, in spite of their Roman names.

learning, and that sect also was changed that afterwards had been founded, as I have related, by Asclepiades. He had a pupil called Themison, who *Asclepiad* at first followed his master, but then later in life he also changed his tenets, a further change being made by Antonius Musa, another pupil of Asclepiades, with the support of the late Emperor Augustus, whose life in a dangerous illness he had saved by reversing the treatment.^a I pass over many famous physicians, among them men like Cassius, Calpetanus, Arruntius and Rubrius.^b Two hundred and fifty *Physician incomes.* thousand sesterces were their annual incomes ^c from the Emperors. Q. Stertinius said that the Emperors were in his debt because he had been content with an income of five hundred thousand sesterces a year, proving by a counting of homes that his city practice had brought in six hundred thousand. A like fortune also was showered by Claudius Caesar upon his brother, and the estates, although exhausted by beautifying Naples with buildings, left to the heir thirty million, Arruntius alone in the same age leaving as much. Then there arose Vettius Valens, celebrated for his intrigue with Messalina, wife of Claudius Caesar, and equally so for his eloquence. Chancing to gain followers and power he founded a new sect. The same generation in the principate of Nero rushed over to Thessalus, who swept away all *Thessalus* received doctrines, and preached against the physicians of every age with a sort of rabid frenzy. The wisdom and talent he showed can be fully judged even by one piece of evidence: on his monu-

^c The reading *annuales* has such strong support (R too has *anulis*) that with much misgiving I retain it.

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mento abunde potest, cum monumento suo, quod est Appia via, iatronicen se inscripserit. nullius histri-
num equorumque trigariū comitator egressus in publico erat, cum Crinas Massiliensis arte geminata, ut cautior religiosiorque, ad siderum motus ex ephemeride mathematica cibos dando horasque observando auctoritate eum praecessit, nuperque $\overline{H\bar{S}} \bar{c}$ reliquit, muris patriae moenibusque aliis paene
10 non minore summa extractis. hi regebant fata, cum repente civitatem Charmis ex eadem Massilia invasit damnatis non solum prioribus medicis verum et balneis, frigidaque etiam hibernis algoribus lavari persuasit. mersit aegros in lacus. videbamus senes consulares usque in ostentationem rigentes, qua de re
11 exstat etiam Annaei Senecae adstipulatio. nec dubium est omnes istos famam novitate aliqua aucupantes anima statim nostra negotiari. hinc illae circa aegros miserae sententiarum concertationes, nullo idem censente, ne videatur accessio alterius. hinc illa infelix monumentis inscriptio, turba se medicorum perisse. mutatur ars cottidie totiens interpolis, et ingeniorum Graeciae flatu inpellimur, palamque est, ut quisque inter istos loquendo polleat,

^a See *Epistles* VI. 1, 3 and XII. 1, 5.

^b Or, "ominous."

^c Or, "breeze from."

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imperatorem illico vitae nostrae necisque fieri, ceu vero non milia gentium sine medicis degant nec tamen sine medicina, sicuti p. R. ultra sexcentimum annum, neque ipse in accipiendis artibus lentus, medicinae vero etiam avidus, donec expertam damnavit.

12 VI. Etenim percensere insignia priscorum in his moribus convenit. Cassius Hemina ex antiquissimis auctor est primum e medicis venisse Romam Peloponneso Archagathum Lysaniae filium L. Aemilio M. Livio cos. anno urbis DXXXV, eique ius Quiritium datum et tabernam in compito Acilio emptam ob id
13 publice. vulnerarium eum fuisse tradunt,¹ mireque gratum adventum eius initio, mox a saevitia secandi urendique transisse nomen in carnificem et in taedium artem omnesque medicos, quod clarissime intellegi potest ex M. Catone, cuius auctoritati triumphus atque censura minimum conferunt, tanto plus in ipso est. quamobrem verba eius ipsa ponemus:

14 VII. Dicam de istis Graecis suo loco, M. fili.² quid Athenis exquisitum habeam et quod bonum sit illorum litteras inspicere, non perdiscere, vincam. nequissimum et indocile genus illorum, et hoc putavatem dixisse: quandoque ista gens suas litteras

¹ tradunt *vulg.*, *Detlefsen*: egregium *Mayhoff*: credunt *codd.*

² *Mayhoff* hoc modo distinguit: post *fili* comma, post *perdiscere* punctum; post *vincam* punctum delet; *evincam* coni.

^a 219 B.C.

^b With the reading of *Mayhoff*: "He also says that Archagathus was an excellent surgeon, etc."

over our life and slaughter, just as if thousands of peoples do not live without physicians, though not without physic, as the Roman people have done for more than six hundred years, although not slow themselves to welcome science and art, being actually greedy for medicine until trial led them to condemn it.

VI. In fact this is the time to review the outstanding features of medical practices in the days of our fathers. Cassius Hemina, one of our earliest authorities, asserts that the first physician to come to Rome was Archagathus, son of Lysanias, who migrated from the Peloponnesus in the year of the city 535,^a when Lucius Aemilius and Marcus Livius were consuls. He adds that citizen rights were given him, and a surgery at the cross-way of Acilius was bought with public money for his own use. They say ^b that he was a wound specialist, and that his arrival at first was wonderfully popular, but presently from his savage use of the knife and cautery he was nicknamed "Executioner," and his profession, with all physicians, became objects of loathing. The truth of this can be seen most plainly in the opinion of Marcus Cato, whose authority is very little enhanced by his triumph and censorship; so much more comes from his personality. Therefore I will lay before my readers his very words.

VII. I shall speak about those Greek fellows in their proper place, son Marcus, and point out the result of my enquiries at Athens, and convince you what benefit comes from dipping into their literature, and not making a close study of it. They are a quite worthless people, and an intractable one, and you must consider my words prophetic. When that race gives

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dabit, omnia conrumpet, tum etiam magis, si medicos suos hoc mittet. iurarunt inter se barbaros necare omnes medicina, et hoc ipsum mercede faciunt ut fides is sit et facile disperdant. nos quoque dictitant barbaros et spurcius nos quam alios opicon appellatione foedant. interdixi tibi de medicis.

- 15 VIII. Atque hic Cato sescentesimo quinto anno urbis nostrae obiit, octogensimo quinto suo, ne quis illi defuisse publice tempora aut privatim vitae spatia ad experiendum arbitretur. quid ergo? damnatam ab eo rem utilissimam credimus? minime, Hercules. subicit enim qua medicina se et coniugem usque ad longam senectam perduxerit, his ipsis scilicet quae nunc nos tractamus,¹ profiteturque esse commentarium sibi quo medeatur filio, servis, familiaribus,
- 16 quem nos per genera usus sui² digerimus. non rem antiqui damnabant, sed artem, maxime vero quaestum esse manipretio vitae recusabant. ideo templum Aesculapii, etiam cum reciperetur is deus, extra urbem fecisse iterumque in insula traduntur, et cum Graecos Italia pellerent diu etiam post Catonem, excepisse medicos. augebo providentiam illorum.
- 17 solam hanc artium Graecarum nondum exercet Romana gravitas, intanto fructu paucissimi Quiritium

¹ nos tractamus *Gelenius, Harduinus, Mayhoff*: nos trademus *vulg., Detlefsen*: nostra scitamus *plerique codd.*

² usus sui *codd. et edd.*: ususve *coni. Mayhoff.*

^a An uncultivated Italian tribe.

^b Do we believe that a thing condemned by him is very useful?

^c A curious use of *excipio*. Yet we must either so translate or with Sillig read *nec* for *et*.

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attigere et ipsi statim ad Graecos transfugae, immo
vero auctoritas aliter quam Graece eam tractantibus
etiam apud inperitos expertesque linguae non est, ac
minus credunt quae ad salutem suam pertinent, si in-
tellegant. itaque, Hercules, in hac artium sola evenit
ut cuicumque medicum se professo statim credatur,
18 cum sit periculum in nullo mendacio maius. non
tamen illud intuemur, adeo blanda est sperandi pro
se cuique dulcedo. nulla praeterea lex quae puniat
inscitiam capitalem, nullum exemplum vindictae.
discunt periculis nostris et experimenta per mortes
agunt, medicoque tantum hominem occidisse inpuni-
tas summa est. quin immo transit convicium et
intemperantia culpatur ultroque qui periere arguun-
tur. sed decuriae pro more censuris principum
examinantur, inquisitio per parietes agitur, et qui de
nummo iudicet a Gadibus columnisque Herculis
arcessitur, de exilio vero non nisi XLV electis viris
19 datur tabella. at de iudice ipso quales in consilium
eunt statim occisuri! merito, dum nemini nostrum
libet scire quid saluti suae opus sit. alienis pedibus
ambulamus, alienis oculis agnoscimus, aliena me-
moria salutamus, aliena et vivimus opera, perierunt-
que rerum naturae pretia et vitae argumenta. nihil

^a This refers to the Roman custom of using slaves to carry them in litters, or to prompt them if they forgot faces or names.

and even these were at once deserters to the Greeks; nay, if medical treatises are written in a language other than Greek they have no prestige even among unlearned men ignorant of Greek, and if any should understand them they have less faith in what concerns their own health. Accordingly, heaven knows, the medical profession is the only one in which anybody professing to be a physician is at once trusted, although nowhere else is an untruth more dangerous. We pay however no attention to the danger, so great for each of us is the seductive sweetness of wishful thinking. Besides this, there is no law to punish criminal ignorance, no instance of retribution. Physicians acquire their knowledge from our dangers, making experiments at the cost of our lives. Only a physician can commit homicide with complete impunity. Nay, the victim, not the criminal, is abused; his is the blame for want of self-control, and it is actually the dead who are brought to account. Panels of judges are tested according to custom by the censorial powers of the Emperor; their examination invades the privacy of our homes; to give a verdict on a petty sum a man is summoned from Cadiz and the Pillars of Hercules; indeed, before the penalty of exile can be inflicted forty-five selected men are given power to vote on it; yet on the judge himself what manner of men sit in consultation to murder him out of hand! We deserve it all, so long as not one of us cares to know what is necessary for his own good health. We walk with the feet of others, we recognise our acquaintances with the eyes of others, rely on others' memory to make our salutations,^a and put into the hands of others our very lives; the precious things of nature, which

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20 aliud pro nostro habemus quam delicias. non deseram Catonem tam ambitiosae artis invidiae a me obiectum aut senatum illum qui ita censebat, idque non criminibus artis arpeptis, ut aliquis exspectaverit. quid enim venenorum fertilius aut unde plures testamentorum insidiae? iam vero et adulteria etiam in principum domibus, ut Eudemi in Livia Drusi Caesaris, item Valentis in qua dictum est regina.

21 non sint artis ista sed hominum; non magis haec urbi timnit Cato, ut equidem credo, quam reginas. ne avaritiam quidem arguam rapacesque nundinas pendentibus fatis et dolorum indicaturam ac mortis arram aut arcana praecepta, squamam in oculis emovendam potius quam extrahendam, per quae effectum est ut nihil magis pro re videretur quam multitudo grassantium; neque enim pudor sed aemuli pretia summit-

22 tunt. notum est ab eodem Charmide unum aegrum ex provincialibus \overline{HS} cc¹ reconductum Alconti vulnerum medico, \overline{HS} \bar{x} ² damnato ademisse Claudium principem, eidemque in Gallia exulanti et deinde restituto adquisitum non minus intra paucos annos.

23 et haec personis inputentur. ne faecem quidem aut inscitiam eius turbae¹ arguamus, ipsorum intem-

¹ cc *Warmington*: \overline{cc} *codd.*

² \bar{x} *Warmington*: \overline{c} *codd.*

³ turbae d *vulg.*: turpem *Mayhoff*: turbam *plerique codd.*
Post ipsorum add. procerum Mayhoff.

^a That a further operation may be necessary.

^b With *Mayhoff's* readings: "or its disgraceful ignorance, the irresponsibility of the leading physicians themselves."

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perantiam, in morbis ¹ aquarum calidarum deverticulis imperiosa inedia et ab isdem deficientibus cibo saepius die ingesto, mille praeterea paenitentiae modis, culinarum etiam praeceptis et unguentorum mixturis, 24 quando nullas omisere vitae inlecebras. invehi peregrinas merces conciliarique externa pretia displicuisse maioribus crediderim equidem, non tamen hoc Catonem providisse, cum damnaret artem. theriace vocatur excogitata compositio. fit ex rebus sexcentis,² cum tot remedia dederit natura quae singula sufficerent. Mithridatium antidotum ex rebus LIII componitur, inter nullas ³ pondere aequali et quarundam rerum sexagesima denarii unius imperata, quo 25 deorum, per Fidem, ista monstrante! hominum enim subtilitas tanta esse non potuit, ostentatio artis et portentosa scientiae venditatio manifesta est. ac ne ipsi quidem illa noverere, conperique volgo pro cinnabari Indica in medicamenta minium addi inscitia nominis, quod esse venenum docebimus inter pig- 26 menta. verum haec ad singulorum salutem pertinent, illa autem quae timuit Cato atque providit, innocentiora multo et parva opinatu quae proceres artis eius de semet ipsi fateantur, illa perdidere imperii mores, illa quae sani patimur, luctatus ceromata ceu valitudinis causa instituta, balineae ardentes quibus persuasere in corporibus cibos coqui ut nemo non

¹ in morbis *codd.*: immodicis *Mayhoff*.

² sexcentis *Sillig, Mayhoff*: externis *codd.*, *Detlefsen*.

³ nullas *Mayhoff*: nullius *Detlefsen*: nullos *plerique codd.*

^a Celsus (V. 23, 3) gives the number of ingredients as thirty-six. The *antidota* were stimulant, aromatic substances which, with honey and wine, were given for falls, pains, and poisons.

^b Also called *cinnabaris nativa*; hence the error.

^c See XXXIII. § 124.

the physicians themselves, with their out-of-the-way use of hot water in sickness, their strict fasts for patients, who when in a fainting condition are stuffed with food several times a day, their thousand ways moreover of changing their minds, their orders to the kitchen, and their compound ointments; for none of life's seductive attractions have they refrained from touching. I am inclined to believe that our ancestors were displeased with imports from abroad and with the fixing of prices by foreigners, but not that Cato foresaw these things when he condemned the profession. There is an elaborate mixture called *theriace*, which is compounded of countless ingredients, although Nature has given as many remedies, anyone of which would be enough by itself. The Mithridatic antidote is composed of fifty-four^a ingredients, no two of them having the same weight, while of some is prescribed one sixtieth part of one denarius. Which of the gods, in the name of Truth, fixed these absurd proportions? No human brain could have been sharp enough. It is plainly a showy parade of the art, and a colossal boast of science. And not even the physicians know their facts; I have discovered that instead of Indian cinabar there is commonly added to medicines, through a confusion of names, red lead,^b which, as I shall point out when I discuss pigments,^c is a poison. These things however concern the health of individuals; but those other practices, which Cato feared and foresaw, much less harmful and less regarded, such as the heads of that profession themselves admit about themselves, those, I say, have ruined the morals of the Empire, I mean the practices to which we submit when in health—wrestlers' ointments, as though

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minus validus exiret, oboedientissimi vero efferrentur, potus deinde ieiunorum ac vomitiones et rursus perpotationes ac pilorum eviratio instituta resinis eorum, itemque pectines in feminis quidem publicati. 27 ita est profecto, lues morum, nec aliunde maior quam e medicina, vatem prorsus cottidie facit Catonem et oraculum: satis esse ingenia Graecorum inspicere, 28 non perdiscere. haec fuerint dicenda pro senatu illo sescentisque p. R. annis adversus artem in qua conditione insidiosissima auctoritatem pessimis boni faciunt, simul contra attonitas quorundam persuasiones qui prodesse nisi pretiosa non putant. neque enim dubitaverim aliquis fastidio futura quae dicentur animalia, at non Virgilio fuit nominare formicas nulla necessitate et curculiones ac lucifugis congesta cubilia blattis, non Homero inter proelia deorum improbitatem muscae describere, non naturae gignere ista, cum gignat hominem. proinde causas quisque et effectus, non res aestimet.

29 IX. Ordiemur autem a confessis, hoc est lanis ovisque, ut ¹ rebus praecipuis bonos in primis perhibeatur.

¹ ut *Urlichs, Detlefsen*: ob id ut *Mayhoff*: obiter (obitur) aut obiter ut *codd.*

^a A pun on *concoquere* (and sometimes *coquere*) in the sense of "digest."

^b Or, "innumerable."

^c *Georgics* I. 186 and IV. 243.

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quaedam etiam si¹ alienis locis, tamen obiter dici
necesse erit. nec deerat materia pompae, si quic-
quam aliud intueri liberet quam fidem operis, quippe
inter prima proditis etiam ex cinere phoenicis nidoque
medicinis, ceu vero id certum esset atque non fabulo-
sum. inridere est vitae remedia post millensimum
30 annum reditura monstrare. lanis auctoritatem
veteres Romani etiam religiosam habuere postes a
nubentibus attingi iubentes, praeterque cultum et
tutelam contra frigora succidae plurima praestant
remedia ex oleo vinoque aut aceto, prout quaeque
mulceri morderive opus sit et adstringi laxarive,
luxatis membris dolentibusque nervis inpositae et
crebro suffusae. quidam et salem admiscent luxatis,
alii cum lana rutam tritam adipemque inponunt,
31 item contusis tumentibusque. halitus quoque oris
gratiores facere traditur confricatis dentibus atque
gingivis admixto melle. prodest et phreneticis
suffitu. sanguinem in naribus sistit cum oleo rosaceo,
et alio modo indita auribus opturatis spissius. quin
et ulceribus vetustis inponitur cum melle. vulnera
ex vino vel aceto vel aqua frigida et oleo expressa
32 sanat. arietis vellera luta frigida ex oleo madefacta
in muliebribus malis inflammationes vulvae sedant et,
si procidant, suffitu reprimunt. succida lana inposita
subditaque mortuos partus evocat. sistit etiam pro-

¹ si E *vulg.* *Detlefsen*: sic *plerique codd.*, *Mayhoff*.

^a Or probably "chief," "best."

^b For *phrenitis* see List of Diseases.

honours to things of the first importance. Certain matters even out of their proper place it will be necessary to discuss, at least as incidental asides. Nor would material be wanting for rhetoric if it pleased me to pay attention to anything else than to making my work trustworthy, seeing that fable even says that among the first ^a medicines was one from the ashes and nest of the phoenix, just as though the story were fact and not myth. It is to joke with mankind to point out remedies that return only after a thousand years. The old Romans assigned to wool even supernatural powers, for they bade brides touch with it the doorposts of their new homes; and besides dress and protection from cold, unwashed wool supplies very many remedies if dipped in oil and wine or vinegar, according as the particular need is for an emollient or a pungent remedy, for an astringent or a relaxing one, being applied, and frequently moistened, for dislocations and aching sinews. For dislocations some add salt also; others apply with wool pounded rue and fat, likewise for bruises and swellings. To rub too the teeth and gums with wool and honey is said to make the breath more pleasant, and to fumigate with wool benefits phrenitis.^b Nose bleeding is checked by inserting wool and rose oil; another way is to put it into the ears and plug them rather firmly. It is applied moreover with honey to old sores. Wounds it heals if dipped in wine, or vinegar, or cold water and oil, and then squeezed out. A ram's fleece washed in cold water and soaked in oil, soothes inflammations of the uterus in women's complaints, and by fumigation reduces prolapsus. Unwashed wool applied or used as a pessary extracts a dead foetus; it also

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fluvia carum, et canis rabiosi morsibus inculcata post diem septimum solvitur. redivias sanat ex aqua frigida, eadem nitro, sulphure, oleo, aceto, pice liquida fervescentibus tincta quam calidissima inposita bis die lumborum dolores sedat. sistit et sanguinem ex ariete sucida articulos extremitatum praeligans.

33 laudatissima omnis e collo, natione vero Galatica, Tarentina, Attica, Milesia. succidam inponunt et desquamatis, percussis, lividis, incussis, conlisis, contritis, deiectis, capitis et aliis doloribus, stomachi inflammationi ex aceto et rosaceo. cinis eius inlinitur adtritis, vulneratis, ambustis. et in oculorum medicamentis

34 additur, item in fistulas auresque suppuratas. ad hoc detonsam eam, alii evolsam, decisis summis partibus siccant carpuntque et in fictili crudo componunt ac melle perfundunt uruntque. alii astulis taedae subiectis et subinde interstratis oleo adpersam accendunt, cineremque in labellis aqua addita confricant manu et considerare patiuntur, idque saepius mutant aquam, donec linguam adstringat leniter nec mordeat. tunc cinerem reponunt. vis eius septica est efficacissimeque genas purgat.

35 X. Quin ipsae sordes pecudum sudorque feminum et alarum adhaerentes lanis—oesypum vocant—innumeros prope usus habent. in Atticis ovibus genito palma. fit pluribus modis, sed probatissimum

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lana ab his partibus recenti concerpta aut quibuscum-
que sordibus succidis primum collectis lento igni in
aeneo subfervefactis et refrigeratis pinguique quod
supernatet collecto in fictile vas iterumque decocta
priore materia, quae pinguitudo utraque frigida aqua
lavatur et in linteo saccatur ac sole torretur, donec
36 candida fiat ac tralucida, tum in stagnea pyxide
conditur. probatio ut sordium virus oleat et manu
fricante ex aqua non liquetur sed albescat ut cerussa.
oculis utilissimum contra inflammationes genarumque
callum. quidam in testa torrent donec pinguitudinem
amittat, utilius tale existimantes erosis et duris genis,
37 angulis scabiosis et lacrimantibus. ulcera non ocu-
lorum modo sanat sed oris etiam et genitalium cum
anserino adipe. medetur et vulvae inflammationibus
et sedis rhagadiis et condylomatis cum meliloto ac
butyro. reliquos usus eius digeremus. sordes quoque
caudarum concretae in pilulas siccatae per se tusaeque
in farinam et in litae dentibus mire prosunt, etiam
38 labantibus,¹ gingivisque, si carcinoma serpat, iam
vero pura vellera aut per se inposita caceis doloribus
aut accepto sulphure, et cinis eorum genitalium vitiis,
tantumque pollent ut medicamentis quoque super-
ponantur. medentur ante omnia et pecori ipsi, si
fastidio non pascatur. cauda enim quam artissime

¹ labantibus d, *vulg.*, *Mayhoff* : labantibusque VR : laban-
tibus quae E : labantibus, *uvae conii*. *Detlefsen*.

^a An alloy of silver and lead.

^b Or, "sweaty grease too round the tail, if allowed to dry
and congeal by itself into little balls and then etc."

^c That is, of uncertain locality or origin. The word is used
again with *dolores* in § 55.

but the most approved is to take fresh-plucked wool from the parts mentioned, or first to gather the greasy sweat from any part, then warm it in a bronze pot over a slow fire, cool it again, collect in an earthen vessel the fat that floats on the top, and boil again the stuff originally used. Both the fats obtained are washed in cold water, strained through linen, heated in the sun until they become white and transparent, and then stored away in a box of *stannum*.^a The test of its purity is that it should retain the strong smell of the grease, and when rubbed with the hand in water, should not melt, but become white like white-lead. It is very useful for inflammations of the eyes and hard places on the eyelids. Some bake it in an earthen jar until it is no longer fatty, holding that in this condition it is a more useful remedy for sores that have eaten into the eyelids, for indurations there, and for watery itch at the corners. It heals, not only sores of the eyes, but also with goose grease those of the mouth and genitals. With melilot and butter it cures inflammations of the uterus, chaps in the anus, and condylomata. Its other uses I shall set out in order later on. The sweaty^b grease too that gathers into pills about the tail, dried by itself and ground to powder, is wonderfully beneficial if rubbed on the teeth, even when these are loose, and on the gums when they suffer from malignant, running sores. Furthermore, clean pieces of fleece are applied to blind^c pains, either by themselves or with sulphur added, and their ash to affections of the genitals, being so potent that they are even placed over medicinal applications. Wool is also the best of remedies for sheep themselves if they lose their appetite and will not pasture. For if

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praeligata, evolsa inde lana, statim vescuntur, traduntque quod extra nodum sit e cauda praemori.

39 XI. Lanae habent et cum ovis societatem simul fronti inpositae contra epiphoras. non opus est eas in hoc usu radricula esse curatas neque aliud quam candidum ex ovo infundi ac pollinem turis. ova per se infuso candido oculis epiphoras cohibent urentesque refrigerant—quidam cum croco praeferunt—et pro aqua miscentur collyriis. infantibus vero contra lippitudines ut¹ vix aliud remedio sunt² butyro
40 admixto recenti. eadem cum oleo trita ignes sacros leniunt betae foliis superinligatis. candido ovorum in oculis et pili reclinantur Hammoniaco trito admixtoque et vari in facie cum pineis nucleis ac melle modico. ipsa facies inlita sole non uritur. ambusta aquis si statim ovo occupentur, pusulas non sentiunt—quidam admiscent farinam hordeaciam et salis parum—ulceribus vero ex ambusto cum candido ovorum tostum hordeum et suillo adipe mire prodest.
41 eadem curatione ad sedis vitia utuntur, infantibus quidem etiam si quid ibi procidat, ad pedum rimas ovorum candido decocto cum cerussae denariorum

ut vix *Mayhoff*: vix *codd.*, *Detlefsen*.

² sunt *Mayhoff*: est *codd.*, *Detlefsen*.

^a The reading of the MSS. would mean: "scarcely anything else is a remedy except egg mixed with fresh butter," a startling statement even for Pliny. Mayhoff's conjectures give the required sense, although it is hard to see how and why corruption occurred.

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duum pondere, pari spumae argenti, murrae exiguo, dein vino; ad ignem sacrum candido ovorum trium cum amulo. aiunt et vulnera candido glutinari
42 calculosque pelli. lutea ovorum cocta ut indurescant, admixto croco modice, item melle, ex lacte mulieris inlita dolores oculorum mitigant, vel cum rosaceo et mulso lana oculis inposita, vel cum trito apii semine ac polenta in mulso inlita. prodest et tussientibus per se luteum devoratum liquidum ita ut dentibus non attingatur, thoracis destillationibus, faucium scabritiae. privatim contra haemorrhoidis morsum inlinitur
43 sorbeturque crudum. prodest et renibus, vesicae rosionibus exulcerationibusque.¹ cruenta excreantibus quinque ovorum lutea in vini hemina cruda sorbentur, dysintericis cum cinere putaminis sui et papaveris suco ac vino. dantur coeliacis cum uvae passae pinguis pari pondere et malicorii per triduum aequis portionibus, et alio modo lutea ovorum trium, lardi veteris et mellis quadrantibus, vini veteris cyathis tribus, trita ad crassitudinem mellis et, cum
44 opus sit, abellanae nucis magnitudine ex aqua pota, item ex oleo fricta terna, totis ovis pridie maceratis in aceto, sic et lientericis, sanguinem autem reicientibus cum tribus cyathis musti. utuntur isdem ad liventia, si vetustiora sint, cum hulbis ac melle. sistunt et menses mulierum cocta
45 et e vino pota, inflationes quoque vulvae cruda cum oleo ac vino inlita. utilia sunt et cervicis doloribus cum anserino adipe et rosaceo, sedis etiam vitiis indurata igni ut calore quoque prosint, et condylomatis cum rosaceo, item ambustis durata in

¹ *Sic dist. Mayhoff e Plinio iun.; ceteri edd. punctum post excreantibus ponunt.*

the eyes on wool with rose oil and honey wine, or applied in honey wine with ground celery-seed and pearl barley. Swallowed liquid, without letting it touch the teeth, the yolk by itself is good for cough, catarrh of the chest, and rough throats. Applied externally or taken internally the raw yolk is specific for the bite of the haemorrhoid.^a It is also good for the kidneys, and for irritation or ulceration of the bladder.^b For spitting of blood five yolks of egg are swallowed raw in a hemina of wine, and for dysentery they are taken with the ash of their shells, poppy juice, and wine. With the same weight of plump raisins and pomegranate rind yolk of egg is given in equal doses for three days to sufferers from coeliac affections. Another way is to take the yolks of three eggs, three ounces of old bacon fat and of honey, and three cyathi of old wine, beat them up until they are of the consistency of honey, and take in water when required pieces of the size of a filbert. Yet another way is to fry three eggs after steeping them whole the day before in vinegar, and to use them so for spleen diseases, but to take them in three cyathi of must for the spitting of blood. Eggs are used with bulbs and honey for persistent bruises. Boiled and taken in wine they also check menstruation; inflation too of the uterus if applied raw with oil and wine. They are useful too, with goose grease and rose oil, for pains in the neck; for affections of the anus also, if hardened over fire and applied while the additional benefit of the heat is still retained; for condylomata with rose oil; for burns they are hardened in water,

^a For this poisonous snake see Lucan IX. 709 foll.

^b Mayhoff's punctuation avoids the awkward repetition of *in vini hemina* and *cum . . . vino* in the same prescription.

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aqua, mox in pruna;¹ putaminibus exustis, tum lutea ex rosaceo inlinuntur. fiunt et tota lutea, quae vocant sitista; cum triduo incubita tolluntur. stomachum dissolutum confirmant pulli ovorum cum gallae dimidio, ita ne ante duas horas alius cibus sumatur. dant et dysintericis pullos in ipso ovo decoctos admixta vini austeri hemina et pari modo
46 olei polentaeque. membrana putamini detracta sive crudo sive cocto labiorum fissuris medetur, putaminis cinis in vino potus sanguinis eruptionibus. comburi sine membrana oportet, sic fit et dentifricium. idem cinis et mulierum menses cum murra inlitus sistit. firmitas putaminum tanta est ut recta nec vi nec pondere ullo frangantur, nec nisi paulum inflexa
47 rotunditate. tota ova adiuvant partum cum ruta et aneto et cumino pota e vino. scabiem corporum ac pruritus oleo et cedria mixtis tollunt, ulcera quoque umida in capite cyclamino admixta. ad puris et sanguinis excreationes ovum crudum cum porri sectivi suco parique mensura mellis Graeci calefactum hauritur. dantur et tussientibus cocta et trita cum melle et cruda cum passo oleique pari modo. infunduntur et virilitatis vitiis singula cum ternis passicyathis amulique semuncia a balneis, adversus ictus serpentium cocta tritaque adiecto nasturtio inlinun-
48 tur. cibo quot modis iuvent notum est, cum trans-

¹ *Distinxi ego.*

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meent faucium tumorem calfactuque obiter foveant. nullus est alius cibus qui in aegritudine alat neque oneret simulque vim potus et cibi habeat. macera-
49 torum in aceto molliri diximus putamen. talibus cum farina in panem subactis coeliaci recreantur. quidam ita resoluta in patinis torrere utilius putant, quo genere non alvos tantum sed et menses femin-
arum sistunt, aut si maior sit impetus, cruda cum farina et aqua hauriuntur, et per se lutea ex his decocta in aceto donec indurescant, iterumque cum trito pipere torrentur¹ ad cohibendas alvos. fit et
50 dysintericis remedium singulare ovo effuso in fictile novum eiusdemque ovi mensura, ut paria sint omnia, melle, mox aceto, item oleo confusis crebroque permixtis. quo fuerint ea excellentiora hoc praesentius remedium erit. alii eadem mensura pro oleo et aceto resinam adiciunt rubentem vinumque; et alio modo temperant, olei tantum mensura pari pineique corticis duabus sexagensimis denarii ac una eius quod rhus diximus, mellis obolis quinque simul decoctis, ita ut cibus alius post quattuor horas sumatur. tormini-
bus quoque multi medentur ova bina cum alii spicis quattuor una terendo vinique hemina calefaciendo
51 atque ita potui dando. et, ne quid desit ovorum gratiae, candidum ex his admixtum calci vivac

¹ torrentur *vulg.*: *Mayhoff* qui *tosta* dantur *coni.*: *torreantur codd. Detlefsen.*

^a Book X. § 167.

^b See XXIV. § 91.

ways eggs are as food is well known, for they pass a swollen throat and incidentally by their heat soothe it. There is no other food so nourishing in sickness without overloading the stomach, and it has the nature of both food and drink. I have said ^a that the shell is softened of eggs steeped in vinegar. Eggs so prepared and kneaded into bread with flour give refreshment to patients with coeliac affections. Some think it more useful, after softening them in this way, to bake them in shallow pans; when so prepared they check not only diarrhoea but also excessive menstruation; or if the attack is specially severe they are swallowed raw with flour and water, or the yolks from these eggs by themselves are boiled hard in vinegar, and then roasted with ground pepper to check diarrhoea. There is also made for dysentery an excellent remedy by pouring an egg into a new earthen vessel, and so that there may be equal quantities of all the ingredients, in the shell of this egg are measured honey, then vinegar, and oil, which are mixed, and stirred many times. The more excellent the quality of these ingredients the more sovereign will the remedy be. Others substitute for oil and vinegar the same amounts of red resin and wine. There is yet another method of compounding: only the quantity of oil remains the same, and with it are boiled down together two sixtieths of a denarius of pine bark, one of the shrub I have called rhus,^b and five oboli of honey, but no other food must be taken until four hours have passed. Many also treat colic by beating up two eggs together with four heads of garlic, warming with a hemina of wine, and so giving the mixture as a draught. To omit no attractive feature of eggs, white of egg mixed with quicklime

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glutinat vitri fragmenta. vis vero tanta est ut lignum perfusum ovo non ardeat ac ne vestis quidem contacta aduratur. de gallinarum autem ovis tantum locuti sumus, cum et reliquarum alitum restent, magnae utilitatis,¹ sicut suis locis dicemus.

52 XII. Praeterea est ovorum genus in magna fama Galliarum, omissum Graecis. angues ea numerose convoluti salivis faucium corporumque spumis artificii complexu glomerant. urinum appellatur;² Druidae sibilis id dicunt in sublime iactari sagoque oportere intercipi ne tellurem attingat, profugere raptorem equo, serpentes enim insequi donec arceantur amnis alicuius interventu; experimentum eius esse, si
53 contra aquas fluitet vel auro vinctum. atque, ut est Magorum sollertia occultandis fraudibus sagax, certa luna capiendum censent, tamquam congruere operationem eam serpentium humani sit arbitrii. vidi equidem id ovum mali orbiculati modici magnitudine, crusta cartilagineis velut acetabulis brachiorum

¹ utilitatis V *Mayhoff*: utilitates ceteri codd., *Detlefsen*.

² *Sic ego*. angues ea numero sex convoluti salivis faucium corporumque spumis artificii complexu glomerant. uranium appellatur *Detlefsen*: angues enim numerose convoluti salivis faucium corporumque spumis artificii complexu glomerant; urinum appellatur *Mayhoff*: ea VRE vulg., *Detlefsen*: eo d; del. *Hermolaus Barbarus*: numero est VRd: numero est ovorum E vulg.: innumeri aestate *Caesarius et Hermolaus Barbarus*: inter sese coni. *Mayhoff*: glomerantur in unum d: glomerantur annum multi codd.: glomerantur. anguinum vulg.

^a Or: "nor will cloth either etc."

^b The numerous variants in the MSS. show that the scribes were as puzzled by this passage as are modern readers. It

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54 polypi crebris insigne.¹ Druidis ad victorias litium ac regum aditus mire laudatur, tantae vanitatis ut habentem id in lite in sinu equitem R. e Vocontiis a divo Claudio principe interemptum non ob aliud sciam. hic tamen complexus anguium et frugifera eorum concordia in causa videtur esse quare exterarum gentes caduceum in pacis argumentis circumdata effigie anguium fecerint, neque enim cristatos esse in caduceo mos est.

55 XIII. De anserum ovis magnae utilitatis ipsoque ansere dicturi hoc in volumine debemus honorem et commageno, clarissimae rei. fit ex adipe anserum, alioqui celeberrimi usus, [est ad hoc in Commagene Syriae parte]² cum cinnamo, casia, pipere albo, herba quae commagene vocatur, obrutis nive vasis, odore iucundo, utilissimum ad perfrictiones, convulsiones, caecos aut subitos dolores omniaque quae acopis curantur, unguentumque pariter et medicamentum
56 est. fit et in Syria alio modo, avium adipe curato ut dicemus, additis erysisceptro, xylobalsamo, phoenice, item tuso³ calamo, singulorum pondere quod sit adipis, vino bis aut ter subfervefactum. fit autem hieme, quoniam aestate non glaciatur nisi accepta cera. multa praeterea remedia sunt ex ansere, quod miror

¹ insigne *codd.*, *Mayhoff*: insigni *Detlefsen*.

² *Uncos add. Detlefsen. Pro est Mayhoff set scribit, et alioqui . . . parte in parenthesi.*

³ item tuso *Mayhoff ex Dioscoride*: tuso item *codd.*

^a The idea is that if they were crested they would be males, and so eggless.

^b The part in brackets seems to be inconsistent with *fit et in Syria alio modo* (§ 56).

^c Many *acopa* are to be found in Celsus, but they would not be very effective. For "blind" pains see § 38.

were, like those on the tentacles of an octopus. The Druids praise it highly as the giver of victory in the law-courts and of easy access to potentates. Herein they are guilty of such lying fraud that a Roman knight of the Vocontii, for keeping one in his bosom during a lawsuit, was executed by the late Emperor Claudius, and for no other reason. However, this embrace and fertile union of snakes seem to be the reason why foreign nations, when discussing peace terms, have made the herald's staff surrounded with figures of snakes; and it is not the custom for the snakes on a herald's staff to have a crest.^a

XIII. As in this Book I am going to treat of the *The goose.* very useful goose egg, and of the goose itself, our respects are due to the famous preparation called commagenum. It is made from goose grease, a very popular medicament everywhere, [and for this purpose especially in Commagene, a district of Syria]^b with cinnamon, cassia, white pepper, and the herb called commagene. The mixture is put into vessels and buried in snow; it has a pleasant smell, and is very useful for chills, sprains, blind or sudden pains, and for all the complaints treated by anodynes,^c being equally good as an ointment and as a medicine. It is also prepared in Syria in another way. The grease of the birds is treated in the manner I shall describe,^d and there are added to it erysisceptrum, balsam-wood, ground palm, and also crushed reed, the same quantity of each as of the grease, the whole being warmed two or three times in wine. But it must be prepared in winter, for it will not set in summer unless wax is added. There are many other remedies made from the goose, which surprise me as

^a See § 134 of this book.

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acque quam in capris, namque anser corvusque ab aestate in autumnum morbo conflictari dicuntur.

57 XIV. De anserum honore quem meruere Gallorum in Capitolium ascensu deprehenso diximus. eadem de causa supplicia annua canes pendunt inter aedem Iuventatis et Summani vivi in furca sabucea armo fixi. sed plura de hoc animali dici cogunt priscorum
58 mores. catulos lactentes adeo puros existimabant ad cibum ut etiam placandis numinibus hostiarum vice uterentur iis. Genitae Manae catulo res divina fit et in cenis deum etiam nunc ponitur catulina. aditibus quidem epulis celebrem¹ fuisse Plauti fabulae indicio sunt. sanguine canino contra toxica nihil praestantius putatur, vomitiones quoque hoc animal monstrasse homini videtur, et alios usus ex eo mire laudatos referemus suis locis. nunc ad statutum ordinem pergemus.

59 XV. adversus serpentium ictus efficacia habentur fimum pecudis recens in vino decoctum inlitumque, mures dissecti inpositi. quorum natura non est spernenda, praecipue in adsensu siderum, ut diximus, cum lumine lunae fibrarum numero crescente atque decrescente. tradunt Magi iocinere muris dato

¹ celebrem *vulg.*, *Mayhoff*: celebres *codd.*, *Detlefsen*.

^a See XXVIII. § 153.

^b X. § 51.

^c *I.e.*, because they had failed to give the alarm.

^d An old divinity supposed to have presided over child-birth.

^e Probably in the lost play *Saturio*, mentioned by Festus.

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poreis in fico sequi dantem id animal, in homine quoque similiter valere, sed resolvi cyatho olei poto.

60 XVI. Mustelarum¹ duo genera, alterum silvestre; distant magnitudine, Graeci vocant ictidas. harum fel contra aspidas dicitur efficax, cetero venenum. haec autem quae in domibus nostris oberrat et catulos suos, ut auctor est Cicero, cottidie transfert mutatque sedem, serpentes persequitur. ex ea inveterata sale denarii pondus in cyathis tribus datur percussis aut ventriculus coriandro fartus inveteratusque et in vino potus, et catulus² mustelae etiam efficacius.

61 XVII. Quaedam pudenda dictu tanta auctorum adseveratione commendantur ut praeterire fas non sit, siquidem illa concordia rerum aut repugnantia medicinae gignuntur, veluti cimicum animalis foedis-
62 simi et dictu quoque fastidiendi natura contra serpentium morsus et praecipue aspidum valere dicitur, item contra venena omnia, argumento, quod dicant gallinas quo die ederint non interfici ab aspide carnes quoque earum percussis plurimum prodesse. ex his quae tradunt humanissimum est inlinere morsibus cum sanguine testudinis, item suffitu eorum abigere sanguisugas adhaerentes haustasque ab animalibus restinguere in potu datis, quamquam et oculos quidam his inungunt tritis cum sale et lacte mulierum,

¹ *Warmington* genera; distant magnitudine, alterum silvestre, *coni*.

² et catulus *E r vulg.*, *Mayhoff*: et catulū *multi codd.*: ex catulis *coni*. *Detlefsen*.

in a fig is offered to pigs, that animal will follow the offerer, adding that it has a similar effect on a human being also, but that the spell is broken by drinking a cyathus of oil.

XVI. Of weasels there are two kinds, one wild and larger than the other, called by the Greeks *ictis*. The gall of both is said to be efficacious against asps, though otherwise poisonous. The other kind, however, which strays about our homes, and moves daily, as Cicero tells us,^a its nest and kittens, chases away snakes. Its flesh, preserved in salt and given in doses of one denarius by weight, is given in three cyathi of drink to those who have been bitten, or its stomach stuffed with coriander seed is kept to dry and taken in wine. A kitten of the weasel is even better still for this purpose.

XVII. Certain things, revolting to speak of, are so strongly recommended by our authorities that it would not be right to pass them by, if it is indeed true that medicines are produced by that famous sympathy and antipathy between things. The nature for instance of bugs, a most foul creature and nauseating *Bugs.* even to speak of, is said to be effective against the bite of serpents, and especially of asps, as also against all poisons. As proof, they say that hens are not killed by an asp on the day they have eaten bugs, and that their flesh then is most beneficial to such as have been bitten. Of the accounts given the least disgusting is how they are applied to bites with the blood of a tortoise, how fumigation with them makes leeches loose their hold, and how they destroy leeches swallowed by animals if administered in drink. And yet some actually anoint the eyes with bugs pounded in salt and woman's milk, and the ears with

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- 63 auresque cum melle et rosaceo admixtis. eos qui agrestes sint et in malva nascantur crematos cinere permixto rosaceo infundunt auribus. cetera quae de his tradunt, vomitionum et quartanarum remedia aliorumque morborum, quamquam ovo aut cera aut faba inclusos censeant devorandos, falsa nec referenda arbitror. lethargi tantum medicinae cum argumento adhibent, quoniam vincatur aspidum somnifica vis, septenos in cyatho aquae dantes, puerilibus annis quaternos. et in stranguria fistulae inposuere.
- 64 adeo nihil parens illa rerum omnium sine ingentibus causis genuit. quin et adalligatos laevo brachio binos lana subrepta pastoribus resistere nocturnis febribus prodiderunt, diurnis in russeo panno. rursus his adversatur scolopendra suffituque enecat.
- 65 XVIII. Aspides percussos torpore et somno necant omnium serpentium minime sanabiles. sed venenum earum si sanguinem attingit aut recens vulnus, statim interemit, si inveteratum ulcus, tardius. de cetero potum quantalibet copia non nocet, non enim est tabifica vis, itaque occisa morsu earum animalia cibus innoxia sunt. cunctarer in proferendo ex his remedio, ni M. Varro LXXIII vitae anno prodidisset aspidum ictus efficacissime sanari hausta a percussis ipsorum urina.
- 66 XIX. Basilisci, quem etiam serpentes ipsae fugiunt, alias olfactu necantem, qui hominem, vel si aspiciat

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tantum, dicitur interimere, sanguinem Magi miris laudibus celebrant coeuntem picis modo et colore, dilutum cinnabari clariorem fieri. attribuunt ei successus petitionum a potestatibus et a diis etiam precum, morborum remedia, veneficiorum amuleta. quidam id Saturni sanguinem appellant.

67 XX. Draco non habet venena. caput eius limini ianuarum subditum propitiatis adoratione diis fortunatam domum facere promittitur, oculis eius inveteratis et cum melle tritis inunctos non expavescere ad nocturnas imagines etiam pavidos, cordis pingue in pelle dorcadum nervis cervinis adalligatum in lacerto conferre iudiciorum victoriae, primum¹ spondylum aditus potestatum mulcere, dentes eius inligatos pellibus caprearum cervinis nervis mites praestare dominos potestatesque exorabiles. sed
68 super omnia est compositio qua invictos faciunt Magorum mendacia: cauda draconis et capite, pilis leonis e fronte et medulla eiusdem, equi victoris spuma, canis ungue adalligatis cervino corio nervisque cervi alternatis et dorcadis. quae coarguisse non minus referet quam contra serpentes remedia demonstrasse, quoniam et haec Magorum² veneficia³ sunt.

¹ victoriae, primum *codd.*, *Detlefsen*: victoriae plurimum, *Mayhoff*.

² Magorum *Detlefsen*: illorum *Mayhoff*: morum VR: morborum d E *vulg.*

³ veneficia VRd, *Mayhoff*: beneficia E *vulg.*, *Detlefsen*.

^a Or, "when diluted with cinnabar."

^b Probably the python and similar snakes.

is said to be fatal to a man if it only looks at him. Its blood the Magi praise to the skies, telling how it thickens as does pitch, and resembles pitch in colour, but becomes a brighter red than cinnabar^a when diluted. They claim that by it petitions to potentates, and even prayers to the gods, are made successful; that it provides cures for disease and amulets against sorcery. Some call it "Saturn's blood."

XX. The dragon^b has no venom. Its head, buried *Draco.* under the threshold of doors after the gods have been propitiated by worship, brings, we are assured, good luck to a home; those rubbed with an ointment of his eyes, dried and beaten up with honey, are not panic-stricken, however nervous, by phantoms of the night; the fat of the heart, tied in the skin of a gazelle on the upper arm by deer sinew, makes for victory in law-suits; the first^c vertebra smooths the approach to potentates; and its teeth, wrapped in the skin of a roe and tied on with deer sinew, make masters kind and potentates gracious. But all these are nothing compared with a mixture that the lying Magi assert makes men invincible, composed of: the tail and head of a dragon, hair from the forehead of a lion and lion's marrow, foam of a victorious race-horse, and the claw of a dog, all attached in deer hide with deer sinew and gazelle sinew plaited alternately. To expose these lies will be no less worth while than to describe their remedies for snake bite, for these too are some of the sorceries^d of the Magi. Dragon's

^c With Mayhoff's emendation: "great success in law-suits, a vertebra smooths etc."

^d With Detlefsen's reading: "for these too are among the blessings bestowed by the Magi." This, if sarcastic, makes sense.

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draconum adipem venenata fugiunt, item, si uratur, ichneumonum, fugiunt et urticis tritis in aceto perunctos.

69 XXI. Viperæ caput inpositum, vel alterius quam quæ percusserit, sine fine¹ prodest, item si quis ipsam eam in vapore baculo sustineat, aiunt enim re-² cancre, item si quis exustæ eiusdem cinere inlinat. reverti autem ad percussum serpentem necessitate naturæ Nigidius auctor est. caput quidam³ dissecant seite⁴ inter aures ad eximendum lapillum quem aiunt ab ea devorari territa. alii ipso toto capite
70 utuntur. fiunt ex vipera pastilli qui theriaci vocantur a Graecis, ternis digitis mensura utrimque amputatis exemptisque interaneis et livore spinae adhaerente, reliquo corpore in patina ex aqua et aneto discocto spinisque exemptis et addita similagine atque ita in umbra siccatis pastillis quibus ad multa medicamenta utuntur. significandum videtur e vipera tantum hoc fieri. quidam purgatae ut supra dictum est adipem cum olei sextario decocunt ad dimidias. ex eo, cum opus sit, ternis stillis additis in oleum perunguntur ut omnes bestiae fugiant eos.

71 XXII. Praeterea constat contra omnium ictus quamvis insanabiles ipsarum serpentium exta inposita auxiliari, cosque qui aliquando viperæ iecur coctum hauserint numquam postea feriri a serpente. neque anguis venenatus est nisi per mensem⁵ luna instiga-

¹ *Warmington* percusserit, sane prodest *coni*

² *recanere Sillig* (cf. XXVIII. 19) : *praecanere codd.*

³ *quidam VTE* : *quidem aliquot codd.*

⁴ *scite VTE* : *Scythæ aliquot codd.*

⁵ *per mensem R vulg. Mayhoff*, qui primo mense *coni*.

^a *Mayhoff's primo mense* would mean : "in the early part of the month." A contraction of *primo* might easily be taken

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tus, et prodest vivus conprehensus et in aqua con-
72 tusus, si foveantur ita morsus. quin et inesse ei
remedia multa creduntur, ut digeremus, et ideo
Aesculapio dicatur. Democritus quidem monstra
quaedam ex his¹ confingit ut possint avium sermones
intellegi.² anguis Aesculapius Epidauro Romam
advectus est vulgoque pascitur et in domibus, ac nisi
incendiis semina exurerentur, non esset fecunditati
eorum resistere.³ in orbe terrarum pulcherrimum
anguium genus est quod et in aqua vivit, hydri
vocantur, nullo serpentium inferiores veneno. horum
iecur servatum adversus percussos ab his auxilium
est. scorpio tritus stelionum veneno adversatur.
73 fit enim ex stelionibus malum medicamentum.
nam cum inmortuus est vino, faciem eorum qui
biberint lentigine obducit. ob hoc in unguento
necant eum insidiantes pelicum formae. remedium
est ovi luteum et mel ac nitrum. fel stelionum tritum
in aqua mustelas congregare dicitur.

74 XXIII. Inter omnia venenata salamandrae scelus
maximum est. cetera enim singulos feriunt, nec

¹ ex his *codd.* : et hic *coni.* *Mayhoff* : an post ut ponendum ?

² Post intellegi excidisse angue devorato putat *Mayhoff*.
Fortasse devorato angue.

³ Punctum non post resistere sed post terrarum ponit *Mayhoff*
ex cod. Dal. : in urbe. terrestrium *coni.* *Mayhoff*.

^a The words *ex his* seem in the wrong place, and *Mayhoff* would change to *et hic*, "here too." A transposition to the *ut* clause would be simpler.

^b If the words *in orbe terrarum* are placed here the meaning will be : "a plague all over the world," and *in domibus* : "in homes everywhere."

it is angered by the moon, and it is beneficial if a snake is caught alive, beaten up in water, and a bite fomented with the preparation. Moreover, many remedies are believed to be obtained from a snake, as I shall relate in their proper order, and this is why it is sacred to Aesculapius. Democritus indeed invents some weird stories about snakes, how for instance they make it^a possible to understand the language of birds. The Aesculapian snake was brought to Rome from Epidaurus, and a snake is commonly kept as a pet even in our homes; so that were not their eggs destroyed in fires there would be an incurable plague of them.^b The most beautiful snake in the world is the kind, called *hydri*, that is amphibious, no other snake being more venomous. Its liver when preserved does good to those who have been bitten.^c The scorpion when pounded up counteracts the poison of the spotted lizard,^d for there is made from these lizards an evil drug: if one has been drowned in wine it covers the face of those who drink it with an eruption of freckle-like spots. So women, plotting to spoil the beauty of rival courtezans, kill a spotted lizard in the ointment used by them. The remedy is yolk of egg, honey, and soda. The gall of this kind of lizard, beaten up in water, is said to attract weasels.

XXIII. Of all venomous creatures the salamander is the most wicked, for while the others strike

^c In this chapter there is certainly a distinction between *serpens* and *anguis*. It is especially noticeable in § 71, where *neque anguis* follows immediately after *a serpente*. In this part of Pliny, at any rate, *anguis* includes the common or grass snake, but the proverb *latet anguis in herba* shows that it sometimes meant a poisonous serpent. Littré is not consistent; after using *couleuvre* in § 71, he later uses *serpent*.

^d Often called gecko.

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plures pariter interimunt, ut omittam quod perire conscientia dicuntur homine percusso neque amplius admitti a terra, salamandra populos pariter necare inprovidos potest. nam si arbori inrepsit, omnia poma inficit veneno, et eos qui ederint necat frigida
75 vi nihil aconito distans. quin immo si contacto ab ea ligno vel lapidi¹ crusta panis inponatur, idem veneficium est, vel si in puteum cadat, quippe cum saliva eius quacumque parte corporis vel in pede imo respersa omnis in toto corpore defluat pilus. tamen talis ac tanti veneni a quibusdam animalium, ut subus,
76 manditur. dominante, eadem illa rerum dissidentia venenum eius restringui primum omnium ab his quae vescantur illa verisimile est, ex his vero quae probantur cantharidum potu aut lacerta in cibo sumpta. cetera adversantia diximus dicemusque suis locis. ex ipsa quae Magi tradunt contra incendia, quoniam ignes sola animalium extinguat, si forent vera, iam esset experta Roma. Sextius venerem accendi cibo carum, si detractis interaneis et pedibus et capite in melle serventur, tradit negatque restringui ignem ab his.

77 XXIV. E volucris in auxilium contra serpentes primum vultures. adnotatum quoque minus virium

¹ vel lapidi crusta panis inponatur *Mayhoff*, sed sine vel, quod ego servo : vel pedis crista panis incocatur *Detlefsen* : vel pidis V'd : vel pedis E : crista V'R : invocatur R'E : incocatur *multi codd.* : "sed locus nondum sanatus," *Mayhoff*.

^a See §§ 92–94, where applied externally cantharides are said to be useful, but taken in drink poisonous.

^b The salamander of modern zoology is a timid creature, and not venomous to man.

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esse nigris. pinnarum ex his¹ nidore, si urantur, fugari eas dicunt, item cor eius alitis habentes tutos esse ab impetu non solum serpentium sed etiam ferarum latronumque et regum ira.

- 78 XXV. Carnibus gallinaceorum ita ut tepebunt avulsae adpositis venena serpentium domantur, item cerebro in vino poto. Parthi gallinae malunt cerebrum plagis inponere. ius quoque ex his potum praeclare medetur et in multis aliis usibus mirabile. Pantherae, leones non attingunt perunctos eo, praecipue si et alium fuerit incoctum. alvum solvit
- 79 validius e vetere gallinaceo, prodest et contra longinquas febres et torpentibus membris tremulisque et articulariis morbis et capitis doloribus, epiphoris, inflationibus, fastidiis, incipiente tenesmo, iocineri, renibus, vesicae, contra cruditates, suspiria. itaque etiam faciendi eius extant praecepta: efficacius coci cum olera marino aut cybio aut capparum aut apio aut herba Mercuriali, polypodio aut aneto, utilissime autem in congiis tribus aquae ad tres heminas cum supra dictis herbis et refrigeratum sub diu dari tempestivis antecedente vomitione. non praeteribo miraculum quamquam ad medicinam non pertinens: si auro liquescenti gallinarum membra misceantur, consumunt id in se. ita hoc venenum auri est. at gallinacei ipsi circulo e ramentis addito in collum non canunt.

¹ his *codd.*: *alis* *Mayhoff*, e *Sereno*.

^a *Mayhoff's* correction, *alis* for *his*, would give "burning wing-feathers."

They say that the fumes of their^a burning feathers chase serpents away, and that those who carry about them a vulture's heart are protected not only from the attacks of serpents, but also from those of wild beasts, bandits, and angry potentates.

XXV. The flesh of chickens, torn away and applied *Chickens.* warm to the bite, overcomes the venom of serpents, as will also a chicken's brain taken in wine. The Parthians prefer to put on the wound the brain of a hen. Chicken broth also, taken by the mouth, is a splendid remedy, being wonderfully good for many other purposes. Panthers and lions do not touch those rubbed over with this broth, especially if garlic has been boiled in it. A rather powerful purge is the broth of an old cock, which is also good for prolonged fevers, paralysed and palsied limbs, diseases of the joints, headaches, eye-fluxes, flatulence, loss of appetite, incipient tenesmus, complaints of liver, kidneys, and bladder, indigestion and asthma. And so instructions even are current for making it: they tell us that it is more effective boiled with sea-cabbage, or tunny-fish, or caper, or celery, or the herb mercury, with polypodium or dill, but most beneficial when three congii of water are boiled down to three heminae, with the above-mentioned herbs, cooled in the open air and administered, the best time being when an emetic has preceded. I will not pass over a marvel, though it has nothing to do with medicine: if the limbs of hens are stirred up in melted gold they absorb it all into themselves, so violent a poison of gold is chicken. But cocks themselves do not crow if they have a collar of gold shavings round their necks.

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- 81 XXVI. Auxiliatur contra serpentes et columbarum
 caro recens concerpta et hirundinum, bubonis pedes
 usti cum plumbagine herba. nec omittam in hac
 quoque alite exemplum magicae vanitatis, quippe
 praeter reliqua portentosa mendacia cor eius in-
 positum mammae mulieris dormientis sinistrae
 tradunt efficere ut omnia secreta pronuntiet, prae-
 82 terea in pugnam ferentes id fortiores fieri. eiusdem
 ovo ad capillum remedia demonstrant. quis enim,
 quaeso, ovum bubonis umquam visere potuit, cum
 ipsam avem vidisse prodigium sit? quis utique
 experiri et praecipue in capillo? sanguine quidem
 pulli bubonis etiam crispari capillum promittunt.
 83 cuius generis prope videri possint quae tradunt et
 de vespertilione, si ter circumlatus domui vivus per¹
 fenestram inverso capite infigatur, amuletum esse,
 privatimque ovilibus circumlatum totiens et pedibus
 suspensum susum super limine. sanguinem quoque
 eius cum carduo contra serpentium ictus inter
 praecipua laudant.
- 84 XXVII. Phalangium est Italiae ignotum et plurimum
 generum: unum simile formicae, sed multo maius,
 rufo capite, reliqua parte corporis nigra, albis guttis.
 acerbior huius quam vespae ictus. vivit maxime
 circa furnos et molas. in remedio est, si quis eiusdem
 generis alterum percusso ostendat, et ad hoc ser-
 vantur mortui. inveniuntur et cortices eorum qui
 triti et poti medentur; mustelae catuli ut supra.²

¹ per *codd.*: super Mayhoff.

² mustelae catuli ut supra.] *Omittunt Urlichs et Detlefsen.*

^a With Mayhoff's reading "over."

^b Why *mortui* (masculine) when *phalangium* is neuter?
 Perhaps *aranci* was in Pliny's mind.

^c See § 60 of this Book.

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85 aequae phalangion Graeci vocant inter genera araneorum, sed distinguunt lupi nomine. tertium genus est eodem phalangi nomine araneus lanuginosus grandissimo capite, quo dissecto inveniri intus dicuntur vermiculi duo adalligatique mulieribus pelle cervina ante solis ortum praestare ne concipiant, ut Caecilius in commentariis reliquit. vis ea annua est, quam solam ex omni atocio dixisse fas sit, quoniam aliquarum fecunditas plena liberis tali venia indiget.

86 vocatur et rhox acino nigro similis, ore minimo sub albo, pedibus brevissimis tamquam imperfectis. dolor a morsu eius qualis a scorpione, urina similis araneis textis. idem erat asterion, nisi distingueretur virgulis albis. huius morsus genua labefactat. peior utroque est caeruleus, lanugine nigra, caliginem concitans et vomitus araneosus. etiamnum deterior a crabrone pinna tantum differens. hic et ad

87 maciem perducit. myrmecion formicae similis capite, albo nigra, guttis albis distinguentibus, vesparum dolore torquet. tetragnathii duo genera habent: peior medium caput distinguente linea alba et transversum altera; hic oris tumorem facit. at cinereus posteriore parte candicans lentior, minime autem noxius eodem colore qui telas muscis in parietibus

88 latissime pandit. contra omnium morsus remedio est gallinaceorum cerebrum cum piperis exiguo potum in

^a Or: "and then the urine looks like spider's web."

^b *I.e.*, "four-jawed."

Greeks also include a phalangion which they distinguish by the name of "wolf." There is also a third kind of phalangium, a hairy spider with an enormous head. When this is cut open, there are said to be found inside two little worms, which, tied in deer skin as an amulet on women before sunrise, act as a contraceptive, as Caecilius has told us in his *Commentarii*. They retain this property for a year. Of all such preventives this only would it be right for me to mention, to help those women who are so prolific that they stand in need of such a respite. There is another phalangium called *rhox*, like a black grape, with a very small mouth under the abdomen, and very short legs as though not fully grown. Its bite is as painful as a scorpion's sting, forming in the urine as it were spider's web.^a The asterion is exactly like it, except that it is marked with white streaks. Its bite makes the knees weak. Worse than either is the blue spider; it is covered with black hair, and causes dimness of vision and vomit like spider's web. There is an even worse phalangium, which differs from the hornet only in having no wings. The bite from one of this kind also makes the body thin. The myrmecion in its head resembles the ant, with a black body marked by white spots, and a bite as painful as a wasp. There are two kinds of the phalangium called tetragathius,^b the worse of which has two white lines crossed on the middle of its head, and its bite makes the mouth swell; but the ash-coloured kind, which is whitish in its hind part, is less vicious. Least dangerous of all is the ash-coloured spider which spins its web all over our walls to catch flies. For the bites of all spiders remedial is a cock's brain with a little pepper taken in vinegar and water,

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posca, item formicae quinque potae, pecudum fimi cinis inlitis ex aceto et ipsi aranci quicumque in oleo putrefacti. muris aranei morsus sanatur coagulo agni e vino¹ poto, unguiae arietinae cinere cum melle, mustelae catulo ut in serpentibus dictum est. si iumenta momorderit, mus recens cum sale inponitur
89 aut fel vespertilionis ex aceto. et ipse mus araneus contra se remedio est divulsus inpositus. nam si praegnas momordit, protinus dissilit. optimum, si is inponatur qui momorderit, sed et alios ad hunc usum servant in oleo aut luto circumlitos. est et contra morsum eius remedio terra ex orbita, ferunt enim non transiri ab eo orbitam torpore quodam naturae.

90 XXVIII. Scorpionibus contrarius maxime invicem stelio traditur, ut visu quoque pavorem his adferat et torporem frigidi sudoris. itaque in oleo putrefaciunt eum et ita ea vulnera perungunt. quidam oleo illo spumam argenteam decocunt ad emplastri genus atque ita inlinunt. hunc Graeci coloten vocant et ascalaboten et galeoten. in Italia non nascitur. est enim hic plenus lentigine, stridoris acerbi, et vescitur araneis,² quae omnia a nostris stelionibus aliena sunt.

91 XXIX. Prodest et gallinarum fimi cinis inlitis, draconis iocur, lacerta divulsa, mus divulsus, scorpio

¹ agni e vino ex *Plinio Iunior*e Mayhoff : agnino Detlefsen : agne vino r : anguino Vd.

² araneis add. *Urlichs* ex *Arist. Hist. Anim. IX. 1* : herba vet. *Dal.* : vermibus coni. *Ianus* : illis (sc. scorpionibus) coni. *Mayhoff*.

^a See § 60 of this Book.

^b Possibly *invicem* here means "mutually."

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ipse suae plagae inpositus aut assus in cibo sumptus aut potus in meri cyathis duobus. proprium est scorpionum quod manus palmam non feriunt nec nisi ¹ pilosa ² attingere. lapillus qualiscumque ab ea parte quae in terra erat adpositus plagae levat dolorem, item testa terra operta ex aliqua parte sicut erat inposita liberare dicitur—non debent respicere qui inponunt et eavere ne sol aspiciat—vermes terreni
 92 triti inpositi. multa et alia ex his remedia sunt propter quae in melle servantur. noctua apibus contraria et vespis crabronibusque et sanguisugis, pici quoque Martii rostrum secum habentes non feriuntur ab his. adversantur et locustarum minimae sine pinnis, quas attelebos vocant. est et formicarum genus venenatum, non fere in Italia. solipugas Cicero appellat, salpugas Baetica, his cor vespertilionis contrarium omnibusque formicis. salamandris cantharidas diximus resistere.

93 XXX. Sed in his magna quaestio, quoniam ipsae venena sunt potae vesicae cum cruciatu praecipuo. Cossinum equitem Romanum amicitia Neronis principis notum, cum is lichene correptus esset, vocatus Aegypto medicus ob hanc valetudinem eius a Caesare, cum cantharidum potum praeparare voluisset, interemit. verum inlitas prodesse non dubium est cum suco taminiae uvae et sebo ovis vel

¹ nisi *codd.* : visi *Io. Müller, Mayhoff.*

² pilosa *Ianus, Detlefsen* : pilos *Mayhoff, codd.*

^a With Mayhoff's reading : "nor have they been seen to touch hairs." The change from *quod* with the indicative to the infinitive *attingere* is strange, and the emendation *visi* may be right.

^b See § 76 of this Book.

the scorpion laid on the wound it has itself inflicted, or roasted and taken in food or in two cyathi of neat wine. Scorpions are peculiar in that they do not sting the palm of the hand or touch any but hairy parts.^a A pebble of any kind, if the part next the ground is laid on the wound, relieves the pain, and a potsherd too is said to be a cure if a part covered with earth is applied just as it was taken up—those making the application must not look back, and must take care that the sun does not behold them—and another cure is an application of pounded earth-worms. Many other remedies are obtained from earth-worms, so they are kept in honey for this purpose. The night owl is an enemy of bees, wasps, hornets, and leeches, and those are not stung by them who carry about their person a beak of the woodpecker of Mars. Hostile to them are also the smallest of the locusts, which are wingless and called *attelebi*. There is also a venomous kind of ant, not generally found in Italy. Cicero calls it *solipuga* and in Baetica it is called *salpuga*. A bat's heart is hostile to these, as it is to all ants. I have said ^b that cantharides are hostile to salamanders.

XXX. But herein arises a much-disputed question, ^{Spanish fly.} for the fly taken in drink is a poison, causing excruciating pain in the bladder. Cossinus, a Roman knight, well known for his friendship with the Emperor Nero, fell a victim to lichen.^c Caesar called in a specialist physician from Egypt, who decided on preliminary treatment with Spanish fly taken in drink, and the patient died. But there is no doubt that, with juice of taminian grapes, sheep suet, or that of a she-goat, an external application is beneficial.

^c See List of Diseases.

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- 94 caprae. ipsarum cantharidum venenum in qua parte sit non constat inter auctores. alii in pedibus et in capite existimant esse, alii negant. convenit tantum pinnas earum auxiliari, in quacumque parte sit venenum. ipsae nascuntur ex vermiculo, in spongia maxime cynorrhodi quae fit in caule, sed fecundissime in fraxino; ceterae in alba rosa, minus efficaces. potentissimae inter omnes variae, luteis lineis quas in pinnis transversas habent, pingues; multum¹ inertiores minutae, latae, pilosae, inutilissimae vero
- 95 unius coloris macrae. conduntur in calice fictili non picato et linteo conligato, contectae² rosa matura, et suspenduntur super acetum cum sale fervens donec per linteolum vaporentur, postea reponuntur. vis carum adurere corpus, crustas obducere. eadem pityocampis in picea nascentibus, eadem buprestis, similiterque praeparantur. efficacissimae omnes ad lepras, lichenas, dicuntur et menses ciere et urinam, ideo
- 96 Hippocrates et hydropicis dabat. cantharides obiectae sunt Catoni Uticensi, ceu venenum vendidisset in auctione regia, quoniam eas HS $\bar{\text{L}}\bar{\text{x}}$ addixerat. et sebum autem struthocamelinum tunc venisse HS $\bar{\text{x}}\bar{\text{x}}$ obiter dictum sit, efficacioris ad omnia usus quam est anserinus adips.

¹ pingues; multum *Urlichs*: multum pingues *codd.*

² contectae *Ianus*: coniecta et *Mayhoff*: coniectae *codd.*

^a This description suggests "Robin's pin-cushions," caused by the gall-wasp, and not a beetle. There were probably several kinds of cantharides.

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- 97 XXXI. Diximus et mellis venenati genera; contra utuntur melle in quo apes sint mortuae. idem potum in vino remedium est vitiorum quae e cibo piscium gignuntur.
- 98 XXXII. In canis rabidi morsu tuetur a pavore aquae canini capitis cinis inlitis vulneri, oportet autem comburi omnia eodem modo, ut semel dicamus, in vase fictili novo argilla circumlito atque ita in furnum indito. idem et in potione proficit. quidam ob id edendum dederunt. aliqui et vermem e cadavere canino adalligavere menstruave canis in panno subdidere calici aut intus¹ ipsius caudae pilos combustos inseruere vulneri. cor caninum habentem fugiunt canes, non latrant vero lingua canina in calciamento subdita pollici aut caudam mustelae quae abscissa ea dimissa sit habentes. est limus salivae sub lingua rabiosi canis qui datus in potu hydrophobos fieri non patitur, multo tamen utilissime iocur eius qui in rabie momorderit datur, si fieri possit, crudum mandendum, sin minus, quoquo modo coctum, aut
- 99 bustos inseruere vulneri. cor caninum habentem fugiunt canes, non latrant vero lingua canina in calciamento subdita pollici aut caudam mustelae quae abscissa ea dimissa sit habentes. est limus salivae sub lingua rabiosi canis qui datus in potu hydrophobos fieri non patitur, multo tamen utilissime iocur eius qui in rabie momorderit datur, si fieri possit, crudum mandendum, sin minus, quoquo modo coctum, aut
- 100 ius coctis carnibus. est vermiculus in lingua canum qui vocatur a Graecis lytta, quo exempto infantibus catulis nec rabidi fiunt nec fastidium sentiunt. idem ter igni circumlatus datur morsis a rabioso ne rabidi

¹ intus] “an imos (vel potius calciamentis pro caliciautintus)?” *Mayhoff*.

^a Book XXI, § 74.

^b Mayhoff's clever emendation of *calciamentis* for *caliciautintus* would give: “placed the fluid in a cloth at the bottom (*sub-*) of the shoes.” But it gives rather a strange meaning to *subdidere*, and *intus* is just possible as indicating the under part between the tail and the body.

XXXI. I have also mentioned ^a kinds of poisonous honey. To counteract it honey is used in which bees have died. The same honey is also a remedy for illness caused by eating fish.

XXXII. If a person has been bitten by a mad dog, protection from hydrophobia is given by an application to the wound of ash from the burnt head of a dog. Now all reduction to ash (that I may describe it once for all) should be carried out in the following way: a new earthen vessel is covered all over with clay and so put into a furnace. The same method is also good when the ash is to be taken in drink. Some have prescribed as a cure eating a dog's head. Others too have used as an amulet a worm from a dead dog, or placed in a cloth under the cup the sexual fluid of a bitch, or have rubbed into the wound the ash from the hair under ^b the tail of the mad dog itself. Dogs run away from one who carries a dog's heart, and indeed do not bark if a dog's tongue is placed in the shoe under the big toe, or at those who carry the severed tail of a weasel which has afterwards been set free. Under the tongue of a mad dog is a slimy saliva, which given in drink prevents hydrophobia, but much the most useful remedy is the liver of the dog that bit in his madness to be eaten raw, if that can be done, if it cannot, cooked in any way, or a broth must be made from the boiled flesh. There is a little worm ^c on the tongue of dogs which the Greeks call *lytta* (madness), and if this is taken away when they are baby puppies they neither go mad nor lose their appetite. It is also carried three times round fire and given to those bitten by a mad dog to

*Mad dogs
and hydro
phobia.*

^c Really white pustules under the tongue, which break of their own accord when the puppies are twelve days old.

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fiant. et cerebello gallinaceo occurritur, sed id devoratum anno tantum eo prodest. aiunt et cristam galli contritam efficaciter inponi et anseris adipem cum melle. saliantur et carnes eorum qui rabidi
101 fuerunt ad eadem remedia in cibo dandae. quin et necantur catuli statim in aqua ad sexum eius qui momorderit, ut iocur crudum devoretur ex iis. prodest et fimum gallinaceum, dumtaxat rufum, ex aceto inpositum et muris aranei caudae cinis, ita ut ipse cui abscissa sit vivus dimittatur, glaebula ex hirundinum nido inlita ex aceto, vel pulli hirundinis combusti, membrana sive senectus anguium vernatione exuta cum cancro masculo ex vino trita, (nam hac¹ etiam per se reposita in arcis armariisque tineas necant)
102 mali tanta vis est ut urina quoque calcata rabiosi canis noceat, maxime ulcus habentibus. remedio est fimum caballinum adpersum aceto et calefactum in fico inpositum. minus hoc miretur qui cogitet lapidem a cane morsum usque in proverbium discordiae venisse. qui in urinam canis suam egresserit torporem lumborum sentire dicunt. lacerta, quam sepa, alii chalcidem vocant, in vino pota morsus suos sanat.
103 XXXIII. Veneficiis ex mustela silvestri factis contrarium est ius gallinacei veteris large haustum, peculiariter contra aconita, addi parum salis oporteat; gallinarum fimum, dumtaxat candidum, in hysopo decoctum aut mulso, contra venena fungorum boletor-

¹ nam hac *ego*: nam *codd.*: hac *Mayhoff*.

^a A Plinian parenthesis.

^b The last sentence, bracketed by Mayhoff, has obviously been misplaced, but its proper place is not clear. Some other sentences seem to be careless.

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umque, item inflationes ac strangulationes, quod miremur, cum, si aliud animal gustaverit id fimum, 104 torminibus et inflationibus adficiatur. sanguis anserinus contra lepores marinos valet cum olei aqua portione, item¹ contra mala medicamenta omnia—ad-servatur cum Lemnia rubrica et spinae albae suco, ut² pastillorum drachmis quinque in cyathis ternis aquae bibatur—item mustelae catulus ut supra diximus praeparatus. coagulum quoque agninum adversus omnia mala medicamenta pollet, item sanguis anatum Ponticarum. itaque et spissatus servatur vinoque diluitur. quidam feminae anatis efficaciorum putant. 105 simili modo contra venena omnia ciconiarum ventriculus valet, coagulum pecoris, ius ex carne arietum, privatim adversus cantharidas, item lac ovium calidum praeterque iis qui buprestim aut aconitum biberint, columbarum silvestrium fimum privatim contra argenti vivi potum, contra toxica mustela vulgaris inveterata drachmis binis pota.

106 XXXIV. Alopecias replet fimi pecudum cinis cum oleo cyprio et melle, item unguularum muli vel mulac ex oleo myrteo, praeterea, ut Varro noster tradit, murinum fimum, quod item³ muscerdas appellat, aut muscarum capita recentia prius folio ficulneo asperatas. alii sanguine muscarum utuntur, alii decem diebus cinerem earum inlinunt cum cinere chartae vel nucum ita ut sit tertia pars e muscis, alii lacte mulierum cum brassica cinerem muscarum subigunt,

¹ item *codd.* : idem *Mayhoff*.

² *Post suco add.* ut *Mayhoff*.

³ item *R vulg.* : rite *Detlefsen* : ille *Mayhoff* : lite *VE* : linthe d.

^a See § 60.

mushrooms, as well as for flatulence and suffocations—a matter for wonder, because if any animal save man should taste this dung, it will suffer from colic and flatulence. Goose blood, with the same quantity of oil, is good for the poison of sea hares, also for all sorcerers' poisons—it is kept with red Lemnian earth and the sap of white thorn, and five drachmae of the lozenges should be taken as a dose in three cyathi of water—also a baby weasel prepared as I have described.^a Lamb's rennet too is a powerful antidote to all sorcerers' poisons, as is the blood of Pontic ducks; and so when thickened it is also stored away and dissolved in wine. Some are of opinion that the blood of a female duck is more efficacious. In like manner general remedies for all poisons are the crop of storks, sheep's rennet, the broth of ram's flesh (which is specific for cantharides), likewise warmed sheeps' milk, which is also good for those who have swallowed buprestis or aconite, the dung of wild doves (specific if quicksilver has been swallowed), and for arrow poisons the common weasel, preserved and taken in drink, two drachmae at a time.

XXXIV. Bald patches through mange are covered *Mange.* again with hair by an application of ash of sheeps' dung with cyprus oil and honey, by the hooves, reduced to ash, of a mule of either sex, applied in myrtle oil; moreover, as our countryman Varro relates, by mouse dung, which he calls also *muscerdae*, or by the fresh heads of flies, but the patches must first be roughened with a fig leaf. Some use the blood of flies, others for ten days apply their ash with that of paper or nuts, but a third of the whole must be that of flies; others make a paste of fly ash, woman's milk, and cabbage, while some add honey only. No

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quidam melle tantum. nullum animal minus docile existimatur minorisve intellectus; eo mirabilius est Olympiae sacro certamine nubes earum immolato tauro deo quem Myioden vocant extra territorium id
107 abire. alopecias cinis ex murium capitibus caudisque et totius muris emendat, praecipue si veneficio acciderit haec iniuria, item irenacei cinis cum melle aut corium combustum cum pice liquida. caput quidem eius ustum per se etiam cicatricibus pilos reddit. alopecias autem in ea curatione praeparari oportet novacula. et sinapi quidam ex aceto uti maluerunt. quae de irenaceo dicentur omnia tanto magis vale-
108 bunt in hystrice. lacertae quoque ut docuimus combustae cum radice recentis harundinis, quae ut una cremari possit, minutim findenda est, ita myrteo oleo permixto cineres¹ capillorum defluvia continent. efficacius virides lacertae omnia eadem praestant, etiamnum utilius admixto sale et adipe ursino et cepa tusa. quidam denas virides in decem sextariis olei veteris discocunt, contenti semel in mense unguere.
109 pellium viperinarum cinis alopecias celerrime explet, item gallinarum fimum recens inlitum. corvi ovum in aereo vase permixtum inlitumque deraso capite migritiam capilli adfert, sed donec inarescat oleum in ore habendum est ne et dentes simul nigrescant, idque in umbra faciendum neque ante quadriduum

¹ cineres *codd.* : cinere *Mayhoff.*

^a The Fly-catcher, who protected his worshippers from flies.

^b See § 98.

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- 110 abluendum. alii sanguine et cerebro eius utuntur cum vino nigro, alii excocunt ipsum et nocte concubia in plumbeum vas coudunt. aliqui alopecias cantharide trita inlinunt cum pice liquida, nitro praeparata cute—caustica vis carum, cavendumque ne exulcerent alte—postea ad ulcera ita facta capita murium et fel murium et fimum cum helleboro et pipere inlini iubent.
- 111 XXXV. Lendes tolluntur adipe canino vel anguibus in cibo sumptis anguillarum modo aut eorum vernatione quam exuunt pota, porrigines felle ovillo cum creta Cimolia inlito capite donec inarescat.
- 112 XXXVI. Capitis doloribus remedio sunt coclearum quae nudae inveniuntur nondum peractae, ablato capite, et his duritia lapidea exempta—est autem ea calculi latitudine—quae¹ adalligantur et minutae fronti inlinuntur tritae, item oesypum, ossa e capite vulturis adalligata aut cerebrum cum oleo et
- 113 cedria, peruncto capite et intus naribus inlitis, cornicis cerebrum coctum in cibo sumptum vel noctuae, gallinaceus si inclusus abstineatur die ac nocte, parinedia eius qui² doleat, evulsis collo plumis circumligatisque vel cristis, mustelae cinis inlitis, surculus ex nido milvi pulvino subiectus, murina pellis cremata ex aceto inlito cinere, limacis inter duas orbitas inventae ossiculum per aurum argentum ebur traiectum

¹ quae *codd.* : eaque *Mayhoff.*

² qui *fere omnes codd.* : cuius E, *Mayhoff.*

^a Perhaps a reference to slugs.

^b Or, “of the size of a bit of gravel.” Perhaps, “as big as a calculus.”

washed off before three days have passed. Some use a raven's blood and brains added to dark wine; others thoroughly boil the raven itself and store it away at bed time in a vessel of lead. Some apply to patches of mange Spanish fly pounded with liquid pitch, first preparing the skin with soda—the application is caustic, and care must be taken not to cause deep sores—and prescribe that afterwards to the sores so formed be applied the heads, gall, and dung of mice with hellebore and pepper.

XXXV. Nits are removed by dog fat, snakes taken in food like eels, or by the cast slough of snakes taken in drink; dandruff by sheeps' gall with Cimolian chalk rubbed on the head until it dries off. *Cures for nits.*

XXXVI. Headaches have a remedy in the heads of snails, cut off from those that are found without shells, being not yet complete,^a and the hard stony substance taken from them—it is of the width of a pebble ^b—which are used as an amulet, while the small snails are crushed, and rubbed on the forehead; there is also wool grease; the bones from the head of a vulture attached as an amulet, or its brain with oil and cedar resin, the head being rubbed all over and the inner part of the nostrils smeared with the ointment; the brain of a crow or owl boiled and taken in food; a cock penned up without food for a day and a night, the sufferer fasting with him at the same time, feathers plucked from the neck, or the comb, being tied round the head; the application of a weasel reduced to ash; a twig from a kite's nest placed under the pillow; a mouse's skin burnt and the ash applied in vinegar; the little bone of a slug found between two wheel ruts, passed through gold, silver and ivory, and attached in dog skin as an *For headaches.*

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in pellicula canina adalligatum, quod remedium pluri-
114 bus semper prodest. fracto capiti aranei tela ex oleo
et aceto inposita non nisi vulnere sanato abscedit.
haec et vulneribus tonstrinarum sanguinem sistit, a
cerebro vero profluentem anseris sanguis aut anatis
infusus, adeps earundem alitum cum rosaceo. cocleae
matutino¹ pascentis harundine caput praecisum,
maxime luna plena lineo panno adalligant capitis
doloribus liceo, aut cera alba² fronti inlinunt et pilos
caninos panno adalligant.

115 XXXVII. Cerebrum cornicis in cibo sumptum
palpebras gignere dicitur, oesypum cum murra calido
penicillo inlitum. idem praestare muscarum fimique
murini cinerem aequis portionibus ut efficiatur dimi-
dium pondus denarii promittitur, additis duabus sextis
denarii e stibi, ut omnia oesypo inlinantur, item
murini catuli triti in vino vetere ad crassitudinem
116 acopi. pilos in his incommodos evulsos renasci non
patitur fel irenacei, ovorum stelionis liquor, salaman-
drae cinis, lacertae viridis fel in vino albo sole coactum
ad crassitudinem mellis in aereo vase, hirundinis
pullorum cinis cum lacte tithymalli, spuma coclearum.

117 XXXVIII. Glaucomata dicunt Magi cerebro catuli
septem dierum emendari specillo demisso in dex-

¹ cocleae matutino *Harduinus* : coctae (cocta) matutina
codd.

² *Post alba add. addita Mayhoff* : nolit *Brakman.*

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teram partem, si dexter oculus curetur, in sinistram, si sinister, aut felle recenti axionis. noctuarum est id genus, quibus pluma aurium modo micat. suffusionem oculorum canino felle malebat quam hyaenae curari Apollonius Pitanaeus cum melle, item albugines
 118 oculorum. murium capitum caudaeque cinere ex melle inunctis claritatem visus restitui dicunt, multoque magis gliris aut muris silvestris cinere aut aquilae cerebro vel felle cum Attico melle. cinis et adips¹ soricis cum stibi tritus lacrimosis oculis plurimum confert—stibi quid sit dicemus in metallis—mustelae cinis suffusionibus, item lacertae, birundinis cerebrum. cocleae tritae fronti inlitaepiphoras sedant sive per se sive cum polline sive cum
 119 ture. sic et solatis [id est sole correptis]² prosunt. vivas quoque cremare et cinere earum cum melle Cretico inunguere caligines utilissimum est. iumentorum oculis membrana aspidis quam exuit vere, cum adipe eiusdem claritatem inunctis facit. viperam vivam in fictili novo comburere addito feniculi suco ad cyathum unum et turis manna³ una, atque ita suffusiones oculorum et caligines inunguere utilissimum
 120 est. medicamentum id echeon vocatur. fit et collyrium vipera in olla putrefacta vermiculisque enatis cum croco tritis. et uritur⁴ in olla cum sale

¹ et adips d, *vulg.* *Detlefsen* : e capite *Mayhoff* : et alipe, alipe, et adipe *ceteri codd.*

² id est sole correptis] *uncos ego addidi.*

³ manna *Hermolaus Barbarus, Mayhoff* : mina E, *Detlefsen* : mammam Vdf : mamma *vulg.*

⁴ et uritur *Mayhoff* : excuritur *codd.*

^a *Mayhoff* would omit " or . . . honey " as a gloss.

^b A strange phrase, and *Mayhoff's* " ash from the head " may be right, but some sort of grease would be needed.

treat the right eye and into the left side to treat the left eye; or by the fresh gall of the *axio*, a kind of owl whose feathers twitch like ears. Apollonius of Pitane preferred to treat cataract with honey and dog's gall rather than using hyaena's, as he did also to treat white eye ulcers. The heads and tails of mice, reduced to ash and made into an ointment with honey, restore, they say, clearness of vision; much better the ash of a dormouse or wild mouse, or the brain of an eagle or the gall with Attic honey.^a The ash and fat^b of the shrew-mouse, beaten up with antimony, is very good for watery eyes—what antimony is I shall say when I speak^c of metals—the ash of the weasel for cataract, likewise of the lizard, or the brain of the swallow.^d Pounded snails applied to the forehead relieve eye fluxes, either by themselves or with fine flour or with frankincense; so applied they are also good for sunstroke.^e To burn them alive also, and to use as ointment the ash with Cretan honey is very good for dimness of vision. For the eyes of draught animals the slough cast in spring by the asp makes with asp fat an ointment that improves their vision. To burn a viper alive in new earthenware, with addition of fennel juice up to one cyathus, and of one grain of frankincense, makes an ointment very good for cataract and dimness of vision; this prescription is called *echeon*. An eye salve is also made by letting a viper rot in a jar, and pounding with saffron the grubs that breed in it. A viper is also

^c XXXIII. § 101.

^d Or, "likewise the brain of lizard or swallow."

^e On the whole it seems better to omit *id est sole correptis* as a gloss. Although a colloquial word of the countryside, *solatus* would scarcely require explanation to a Roman ear.

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quem lingendo claritatem oculorum consecuntur et stomachi totiusque corporis tempestivitates. hic sal et pecori datur salubritatis causa et in antidotum contra serpentes additur. quidam † et adtollitur¹ †
 121 viperis utuntur in cibis. primum omnium occisae statim salem in os addi iubent donec liquescat, mox quattuor digitorum mensura utrimque praecisa exemptisque interaneis discoquunt in aqua, oleo,² sale, aneto, et aut statim vescuntur aut pane colligunt, ut saepius utantur. ius praeter supra dicta pediculos e toto corpore expellit pruritusque etiam summae cutis. effectum ostendit et per se capitis viperini cinis; utilissime eo³ oculos inunguit, itemque adeps viper-
 122 inus. de felle non audaciter suaserim quae praecipinnt, quoniam, ut suo loco docuimus, non aliud est serpentium venenum. anguium adeps aerugini mixtus ruptas oculorum partes sanat, et membrana sive senectus vernatione eorum exuta si adfricetur, claritatem facit. boae quoque fel praedicatur ad albugines, suffusiones, caligines, adeps similiter ad
 123 claritatem. aquilae, quam diximus pullos ad contuendum solem experiri, felle mixto cum melle Attico inunguntur nubeculae et caligationes suffusionesque

¹ et adtollitur *codd.*: ex Athoitis *Detlefsen* (VII § 27 *coll.*): ad oculos *Mayhoff*, "locus nondum sanatus." Fortasse ad tollendos pruritus *Warmington*.

² discoquunt in aqua, oleo] *Mayhoff coni.* discoquunt cum vino atque oleo.

³ eo *add. Mayhoff*.

^a The reading of the MSS. is obviously wrong, and although the *ad* of *adtollitur* seems to be a preposition, the name of the complaint to follow it is a mystery; *Mayhoff's oculos* would scarcely have been misunderstood and suffered corruption. There is a late word *tolles*, meaning goitre. Palaeographically an easy correction, it scarcely suits the sense of the passage.

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oculorum. eadem vis est et in vulturino felle cum porri suco et melle exiguo, item in gallinacei felle ad argema et albugines ex aqua diluto, item in suffusionibus oculorum, maxime candidi gallinacei. fimum quoque gallinaceorum, dumtaxat rubrum, lusciosis
124 inlini monstrant. laudant et gallinae fel, et praecipue adipem, contra pusulas in pupillis; nec scilicet eius rei gratia saginant. adiuvat mirifice et ruptas oculorum tuniculas admixtis schisto et haematite lapidibus. fimum quoque earum, dumtaxat candidum, in oleo vetere corneisque pyxidibus adservant ad pupillarum albugines, qua in mentione significandum est pavones fimum suum resorbere tradi invi-
125 dentes hominum utilitatibus. accipiter decoctus in rosaceo efficacissimus ad inunctiones omnium vitiorum putatur, item fimi eius cinis cum Attico melle. laudatur et milvi iocur, fimum quoque columbarum, ex aceto ad aegilopia, similiter ad albugines et cicatrices, fel anserinum, sanguis anatum contusis oculis ita ut postea oesypo et melle inunguantur, fel perdicum cum mellis aequo pondere, per se vero ad claritatem. ex Hippocratis putant auctoritate adici
126 quod in argentea pyxide id servari iubent. ova perdicum in vase aereo decocta cum melle ulceribus oculorum et glaucomatis medentur. columbarum, palumbium, turturum, perdicum sanguis oculis cruore suffusis eximie prodest. in columbis masculae efficaciorum putant, vena autem sub ala

^a I place the phrase here, instead of at the end of the sentence, to show the *similia similibus*.

^b The phrases in this part of the chapter are difficult to join correctly.

property also in vulture's gall with leek juice and a little honey, likewise in the gall of a cock, especially of a white cock,^a diluted with water and used for white specks, white ulcers, and cataract. The dung of poultry also, provided that it is red, is prescribed as an ointment for night blindness. The gall of a hen also, and in particular the fat, is recommended for pustules on the pupils, but of course hens are not fattened specially for this purpose. It is a wonderful help, combined with the stones schistos and haematites, for the coats of the eye when torn. The dung also of hens, provided it is white, is kept in old oil and horn boxes for white ulcers on the pupil; while on the subject I must mention the tradition that peacocks swallow back their own dung, begrudging men its benefits. A hawk boiled down in rose oil is thought to make a very efficacious liniment for all eye complaints, as is its dung reduced to ash and added to Attic honey. A kite's liver too is recommended, and also pigeons' dung, applied in vinegar for fistulas, similarly for white ulcers and for scars, goose's gall and duck's blood for bruised eyes, provided that afterwards they are treated with wool grease and honey; partridge gall can be used with an equal weight of honey, but by itself for clear vision.^b It is on the supposed authority of Hippocrates that the further instruction is given to keep this gall in a silver box. Partridge eggs boiled down with honey in a bronze vessel cure ulcers on the eyes and opaqueness of the lens. The blood of pigeons, doves, turtle doves, or partridges, makes an excellent application for blood-shot eyes. Among pigeons, male birds are supposed to have the more efficacious blood, and a vein under a wing is cut for this purpose, because its

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ad hunc usum inciditur, quoniam suo calore utilior est.
 superinponi oportet splenium e melle decoctum
 127 lanamque succidam ex oleo aut¹ vino. earundem
 avium sanguis nyctalopas sanat et iocur ovium, ut in
 capris diximus, efficacius fulvae. decocto quoque
 eius oculos abluere suadent et medulla dolores
 tumoresque inlinere. bubonis oculorum cinis collyrio
 mixtus claritatem oculis facere promittitur. turturis
 fimum albugines extenuat, item coclearum cinis,
 fimum cenchridis. accipitrum generis hanc Graeci
 128 faciunt. argema ex melle omnibus quae supra
 scripta sunt sanatur. mel utilissimum oculis in quo
 apes sint inmortuae. ciconiae pullum qui ederit
 negatur annis² continuis lippiturus, item qui draconis
 caput habeat. huius adipe et melle cum oleo vetere
 incipientes caligines discuti tradunt. hirundinum
 pullos plena luna excaecant, restitutaque eorum acie
 capita comburuntur, cinere cum melle utuntur ad
 129 claritatem et dolores ac lippitudines et ictus. lacer-
 tas quoque pluribus modis ad oculorum remedia
 adsumunt. alii viridem includunt novo fictili, et
 lapillos qui vocantur cinaedia, quae et inguinum
 tumoribus adalligari solent, novem signis signant et
 singulos detrahunt per dies. nono emittunt lacer-
 130 tam, lapillos servant ad oculorum dolores. alii terram
 substernunt lacertae viridi excaecatae et una in vitreo
 vase anulos includunt e ferro solido vel auro. cum

¹ aut E, *Pl. Iun.*, *Mayhoff*: ac *Detlefsen*.

² *Inter annis et continuis add. multis Mayhoff*: V(=quin-
 que) *Brakman*.

^a See XXVIII. § 170.

^b Here *Mayhoff* would add "many" and *Brakman* "five."

^c I.e. dazzled.

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- recepisse visum lacertam apparuit per vitrum, emissa ea anulis contra lippitudinem utuntur, alii capitis cinere pro stibi ad scabritias. quidam viridem collo longo in sabulosis nascentem comburunt et incipientem epiphoram inungunt, item glaucomata.
- 131 mustelae etiam oculis punctu erutis aiunt visum reverti, eademque quae in lacertis et anulis faciunt, serpentis oculum dextrum adalligatum contra epiphoras prodesse, si serpens viva dimittatur. lacrimantibus sine fine oculis cinis stelionum capitis cum stibi eximie medetur. aranei muscarii tela et praecipue spelunca ipsa inposita per frontem ad duo tempora in splenio aliquo, ita ut a puero inpube et capiatur et inponatur nec is triduo se ostendat ei cui medebitur, neve alter nudis pedibus terram attingat
- 132 his diebus, mirabiliter epiphoris mederi dicitur, albugines quoque tollere inunctione araneus candidus longissimis ac tenuissimis pedibus contritus in oleo vetere. is etiam cuius crassissimum textum est in contignationibus fere adalligatus panno epiphoras sanare traditur. scarabaei viridis natura contuentium visum exacuit, itaque gemmarum scalptores contuitu eorum adquiescunt.
- 133 XXXIX. Aures purgat fel pecudis cum melle, canini lactis instillatio sedat dolorem, gravitatem adeps cum absinthio et oleo vetere, item adeps anserinus. quidam adiciunt sucum cepae, alii pari

through the glass that the lizard has recovered its sight, they let it out, and use the rings for ophthalmia; others use the ash of the head instead of antimony for scabrous eyes. Some burn the green lizard with a long neck that is found in sandy places, and use it as ointment for incipient fluxes, as well as for opaqueness of the lens. They also say that when a weasel's eyes have been gouged out with a pointed tool, the sight is restored, and they use the animal as they used the lizards and rings, saying also that a serpent's right eye worn as an amulet, is good for eye fluxes, if the serpent is set free alive. The ash of a spotted lizard's head makes with antimony an excellent remedy for continually streaming eyes. The web of a fly-spider, particularly its very lair, is said to be a marvellous cure for fluxes if laid in a plaster across the forehead from temple to temple; but it must be collected and applied by a boy before puberty, who waits three days before showing himself to the patient needing cure, during which days the latter must not touch the earth with bare feet. White ulcers also are said to be removed by the white spider with very long and very thin legs, which is pounded in old oil and used as ointment. The spider too, whose very coarse web is generally found in rafters, is said to cure fluxes if worn in cloth as an amulet. The green beetle has the property of sharpening the sight of those who gaze at it, and so the carvers of jewels gaze on one to rest their eyes.

XXXIX. The ears are cleaned by sheep's gall with honey; pain is relieved by drops of bitch's milk; hardness of hearing by her fat with wormwood and old oil, also by goose grease. Some add the juice of onion and a like measure of garlic. They also use

*Cures for
the ears.*

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modo. utuntur et per se ovis formicarum, namque et
huic animali est medicina, constatque ursos aegros hoc
134 cibo sanari. anserum omniumque avium adeps prae-
paratur,¹ exemptisque omnibus venis patina nova fic-
tili operta in sole subdita aqua ferventi liquatur,
saccatusque lineis saccis et in fictili novo repositus loco
frigido; minus putrescit addito melle. murium cinis
cum melle instillatus aut cum rosaceo decoctus aurium
dolores sedat. si aliquod animal intraverit, praeci-
puum remedium est murium fel aceto dilutum, si
aqua intraverit, adeps anserinus cum cepae suco.
135 gliris detracta pelle intestinisque exemptis disco-
quitur melle in vase novo. medici malunt e nardo
decoqui usque ad tertias partes atque ita adservari,
dein, cum opus sit, strigili tepefacta infundere.
constat deplorata aurium vitia eo remedio sanari aut
si terreni vermes cum adipe anseris decocti infun-
dantur, item ex arboribus rubri cum oleo triti exul-
136 ceratis et ruptis auribus praeclare medentur. lacerti
inveterati,² in os pendentium addito sale, contusas et
ab ictu miseras aures sanant, efficacissime autem
ferrugineas maculas habentes, lineis etiam per-
candam distincti.³ milipeda ab aliis centipeda aut
multipeda dicta animal est e vermibus terrae pilosum,

¹ *Post praeparatur lacunam indicat Mayhoff.*

² *lacerti inveterati codd. : lacertae inveteratae Mayhoff.*

³ *distincti Caesarius : distinctae (-te) codd.*

^a Some words appear to have dropped out. Perhaps
“washed.”

^b The MSS. have *distinctae* (or *distincte*). Hence Mayhoff
would emend *lacerti* (above) to *lacertae*. It is perhaps more
likely that a scribe unconsciously slipped into the more usual
feminine. One should note in this chapter the many references

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PLINY: NATURAL HISTORY

multis pedibus arcuatim repens tactuque contrahens se, oniscon Graeci vocant, alii iulon.¹ efficacem narrant ad aurium dolores in cortice Punici mali decoctum vel ² porri suco. addunt et rosaceum et in alteram aurem infundunt, illam autem quae non arcuatur sepa Graeci vocant, alii scolopendram, 137 minorem perniciosamque. cocleae quae sunt in usu cibi cum murra aut turis polline adpositae, item minutae latae fracturis aurium inlinuntur cum melle. senectus serpentium fervente testa usta instillatur rosaceo admixto, contra omnia quidem vitia efficax, sed contra graveolentiam praecipue, ac si purulenta sint, ex aceto, melius cum felle caprino vel bubulo aut testudinis marinae—vetustior anno eadem membrana non prodest, nec imbre perfusa, ut aliqui putant— 138 aranei sanies cum rosaceo aut per se in lana vel cum croco, gryllus cum sua terra effossus et inlitus. magnam auctoritatem huic animali perhibet Nigidius, maiorem Magi, quoniam retro ambulet terramque terebret, stridat noctibus. venantur eum formica circumligata capillo in cavernam eius coniecta, efflato prius pulvere ne sese condant, ita formicae complexu 139 extrahitur. ventris gallinaceorum membrana quae abici solet inveterata et in vino trita auribus purulentis calida infunditur, item ³ gallinarum adeps et quaedam pinguitudo blattae, si caput avellatur. hanc tritam una cum rosaceo auribus mire prodesse dicunt,

¹ iulon *Detlefsen ex Indice*: tulion, tullon, tollen, tollon *codd.*

² vel *Urlichs, Detlefsen*: et *Mayhoff*: mel VdT.

³ item *ego addidi*: *Mayhoff* est pro et.

^a The ailment is supposed to be driven out by the remedy inserted into the other ear.

its back as it crawls, drawing itself together when touched, and called by the Greeks *oniscos* or *iulos*. It is said to be a good cure for ear pains if boiled down in pomegranate rind or leek juice. They add also rose oil, and pour it into the ear that is not painful.^a The kind however that does not move sinuously its back the Greeks call *seps* or *scolopendra*; it is smaller and very venomous. The snails that are edible are applied with myrrh or powdered frankincense, and the small, broad snails are made into an ointment with honey for fractured ears. The slough of serpents, burnt in a heated pot, is mixed with rose oil and dropped into the ears, efficacious indeed for all affections, but especially for offensive smell; if pus is present, vinegar is used, and it is better if there be added gall of goat, ox, or turtle—the slough, as some think, loses power if older than a year, or if soaked with rain—the gore of a spider on wool with rose oil, by itself, or with saffron; a cricket dug out with its earth and applied.^b Great efficacy is attributed to this creature by Nigidius, greater still by the Magi, just because it walks backwards, bores into the earth, and chirrup at night. They hunt it with an ant tied to a hair and put into the cricket's hole, first blowing the dust away lest it bury itself, and so when the ant has embraced it the cricket is pulled out. The lining of the crop of poultry, usually thrown away, if dried and pounded in wine, is poured warm into suppurating ears, likewise hens' fat and a kind of greasy substance coming from the black beetle if its head is pulled off. This, pounded with rose oil, is said to be

^b A formless sentence. Some verbal expression, such as "benefits pus in the ears," must be understood with the last clause.

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sed lanam qua incluserint post paulum extrahendam, celerrime enim id pingue transire in animal fierique vermiculum. alii binas ternasve in oleo decoctas efficacissime auribus mederi scribunt et tritas in
140 linteolo inponi contusis. hoc quoque animal inter pudenda est, sed propter admirationem naturae priscorumque curae totum in hoc loco explicandum. plura earum genera fecerunt: molles, quas in oleo decoctas verrucis efficaciter inlini experti sunt.
141 alterum genus myloecon appellavere circa molas fere nascens. his capite detracto adtritas lepras sanasse Musaeum¹ pycten in exemplis reliquerunt. tertium genus et odoris taedio invisum, exacuta clune, cum pisselaeo sanare ulcera alias insanabilia, strumas, panos diebus XXI inpositas, percussa, contusa et cacoethe, scabiem furunculosque detractis pedibus
142 et pinnis. nos haec etiam audita fastidimus. at, Hercules, Diodorus et in morbo regio et orthopnoicis se dedisse tradit cum resina et melle. tantum potestatis habit ars ea pro medicamento dandi quidquid velit. humanissimi eorum cinerem crematarum servandum ad hos usus in cornea pyxide censuere aut tritas clysteribus infundendas orthopnoicis aut

¹ Musaeum *Ianus*: mascum aut museam *codd.*

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143 rheumaticis. infixam utique corpori inlitas extrahere
constat. mel utilissimum auribus quoque est in quo
apes inmortuae sint. parotidas comprimit colum-
binum stercus vel per se vel cum farina hordeacea aut
avenacea, noctuae cerebrum vel iocur cum oleo in-
fusum auriculae a parotide,¹ multipeda cum resinac
parte tertia inlita, grylli sive inliti sive adalligati. ad
reliqua morborum genera medicinam ex isdem
animalibus aut eiusdem generis sequenti dicemus
volumine.

¹ a parotide *in uncis Mayhoff.*

BOOK XXIX. xxxix. 142-143

fact at any rate that an application brings away things embedded in the flesh. The most suitable honey for the ears also is that in which bees have died. Parotid swellings are reduced by pigeon's dung either by itself or with barley meal or oatmeal, by the brain or liver of an owl, poured with oil into the ear on the side of the swelling, by a multipe with a third part of resin used as ointment, and by crickets, used as ointment or as amulets. Medicine for the remaining kinds of disease from the same animals or from animals of the same kind, I shall speak of in the next Book.

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LIBER XXX

- 1 I. MAGICAS vanitates saepius quidem antecedente operis parte, ubicumque causae locusque poscebant, coarguimus detegemusque etiamnum. in paucis tamen digna res est de qua plura dicantur, vel eo ipso quod fraudulentissima artium plurimum in toto terrarum orbe plurimisque saeculis valuit. auctoritatem ei maximam fuisse nemo miretur, quandoquidem sola artium tres alias imperiosissimas humanae
- 2 mentis complexa in unam se redegit. natam primum e medicina nemo dubitabit ac specie salutari inrepsisse velut altiore et sanctiore medicina, ita blandissimis desideratissimisque promissis addidisse vires religionis, ad quas maxime etiam nunc caligat humanum genus, atque, ut hoc quoque successerit,¹ miscuisse artes mathematicas, nullo non avido futura de sese sciendi atque ea e caelo verissime peti credente. ita possessis hominum sensibus triplici vinculo in tantum fastigii adolevit ut hodieque etiam in magna parte gentium praevaleat et in oriente regum regibus imperet.
- 3 II. Sine dubio illic orta in Perside a Zoroastre, ut inter auctores convenit. sed unus hic fuerit an

¹ successerit *C. F. W. Müller*: suggesterit aut suggerit *codd.*

^a Or, "Few themes deserve more to receive fuller treatment."

BOOK XXX

I. IN the previous part of my work I have often indeed refuted the fraudulent lies of the Magi, whenever the subject and the occasion required it, and I shall continue to expose them. In a few respects, however, the theme deserves ^a to be enlarged upon, were it only because the most fraudulent of arts has held complete sway throughout the world for many ages. Nobody should be surprised at the greatness of its influence, since alone of the arts it has embraced three others that hold supreme dominion over the human mind, and made them subject to itself alone. Nobody will doubt that it first arose from medicine, and that professing to promote health it insidiously advanced under the disguise of a higher and holier system; that to the most seductive and welcome promises it added the powers of religion, about which even today the human race is quite in the dark; that again meeting with success it made a further addition of astrology, because there is nobody who is not eager to learn his destiny, or who does not believe that the truest account of it is that gained by watching the skies. Accordingly, holding men's emotions in a three-fold bond, magic rose to such a height that even today it has sway over a great part of mankind, and in the East commands the Kings of Kings.

II. Without doubt magic arose in Persia with Zoroaster. On this our authorities are agreed, but

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postea et alius non satis constat. Eudoxus, qui inter sapientiae sectas clarissimam utilissimamque eam intellegi voluit, Zoroastrem hunc sex milibus annorum ante Platonis mortem fuisse prodidit, sic et Aristoteles.

4 Hermippus qui de tota ea arte diligentissime scripsit et viciens centum milia versuum a Zoroastre condita indicibus quoque voluminum eius positis explanavit, praeceptorem a quo institutum diceret tradidit Agonacen, ipsum vero quinque milibus annorum ante Troianum bellum fuisse. mirum hoc in primis, durasse memoriam artemque tam longo aevo commentariis intercidentibus,¹ praeterea nec claris nec

5 continuis successionibus custoditam. quotus enim quisque ² auditu saltem cognitos habet, qui soli nominantur, Apusorum et Zaratum Medos, Babyloniosque Marmarum et Arabantiphocum, Assyrium Tarmoen-dam, quorum nulla exstant monumenta? maxime tamen mirum est in bello Troiano tantum de arte ea silentium fuisse Homero tantumque operis ex eadem in Ulixis erroribus, adeo ut totum ³ opus non aliunde

6 constet, siquidem Protea et Sirenum cantus apud eum non aliter intellegi volunt, Circe ⁴ utique et inferum evocatione hoc solum agi. nec postea quisquam dixit quonam modo venisset Telmesum religiosissimam ⁵

¹ intercidentibus VGd *Sillig.*: non intercedentibus R? *Detlefsen*: non ante commentariis ponit *Mayhoff*.

² Ante auditu in codd. communi aut commi, om. Er: hominum *Mayhoff*.

³ Ante totum in codd. multis de: om. *Detlefsen*: vel *Mayhoff*.

⁴ Ante Circe con. in *Mayhoff*.

⁵ Post religiosissimam con. in *Mayhoff*.

^a An *index* might be a mere title or a brief list of contents (or both).

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urbem, quando transisset ad Thessalas matres, quarum cognomen diu optinuit in nostro orbe, aliena genti Troianis utique temporibus Chironis medicinis
7 contentae et solo Marte fulminante.¹ miror equidem Achillis populis famam eius in tantum adhaesisse, ut Menander quoque litterarum subtilitati sine aemulo genitus Thessalam cognominaret fabulam² complexam ambages feminarum detrahentium lunam. Orphea putarem e propinquo eam³ primum pertulisse ad vicina eiusque⁴ superstitionem a medicina⁵ pro-
8 vectam,⁶ si non expers sedes eius tota Thrace magices fuisset. primus, quod exstet, ut equidem invenio, commentatus est de ea Osthanes Xerxen regem Persarum bello quod is Graeciae intulit comitatus, ac velut semina artis portentosae sparsit obiter infecto quacumque commeaverant mundo. diligentiores paulo ante hunc ponunt Zoroastrem alium Proconnensium. quod certum est, hic maxime Osthanes ad rabiem, non aviditatem modo scientiae eius Graecorum populos egit, quamquam animadverto summam litterarum claritatem gloriamque ex ea scientia antiquitus et paene semper petitam.

¹ fulminante *multi codd.*, *Detlefsen* : fulminanti *Mayhoff* : fulminati V¹GR¹d.

² fabulam *Detlefsen* : famulam *Mayhoff*. *Neuter editor alias indicat lectiones.*

³ propinquo eam *Gronovius, Ianus* : propinquo artem *Mayhoff* : propinquo R(?) E *vulg.* *Detlefsen* : propinquorum VGd : propinquum *coni.* *Warmington.*

⁴ eiusque *P. Green* : usque *codd.*

⁵ a medicina *Gronovius, Sillig* : ac medicinae (*et superstitionis*) *Mayhoff* : ac medicinae (*superstitiones* E, *superstitionem* R) ER.

⁶ provectam *coni.* *Mayhoff* : provectum *aut* profectum *codd.*

a city given up to superstition, or when it passed over to the Thessalian matrons, whose surname ^a was long proverbial in our part of the world, although magic was a craft repugnant to the Thessalian people, who were content, at any rate in the Trojan period, with the medicines of Chiron, and with the War God as the only wielder of the thunderbolt.^b I am indeed surprised that the people over whom Achilles once ruled had a reputation for magic so lasting that actually Menander, a man with an unrivalled gift for sound literary taste, gave the name "Thessala" to his comedy, which deals fully with the tricks of the women for calling down the moon. I would believe that Orpheus was the first to carry the craft to his near neighbours, and that his superstition grew from medicine, if the whole of Thrace, the home of Orpheus, had not been untainted by magic. The first man, so far as I can discover, to write a still-extant treatise on magic was Osthanes, who accompanied the Persian King Xerxes in his invasion of Greece, and sowed what I may call the seeds of this monstrous craft, infecting the whole world by the way at every stage of their travels. A little before Osthanes, the more careful inquirers place another Zoroaster, a native of Proconnesus. One thing is certain; it was this Osthanes who chiefly roused among the Greek peoples not so much an eager appetite for his science as a sheer mania. And yet I notice that of old, in fact almost always, the highest literary distinction and renown have been sought from that science. Certainly Pytha-

^a I.e. "Thessalian." The word suggested witchcraft.

^b With the reading *fulminanti*: "whose only thunder was that of their War God."

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- 9 certe Pythagoras, Empedocles, Democritus, Plato ad hanc discendam navigavere exiliis verius quam peregrinationibus susceptis, hanc reversi praedicavere, hanc in arcanis habuere. Democritus Apollobechem Coptitem et Dardanum e Phoenice illustravit, voluminibus Dardani in sepulchrum eius petitis, suis vero ex disciplina eorum editis, quae recepta ab ullis hominum atque transisse per memoriam aequae ac nihil in vita mirandum est. in tantum fides istis fasque omne deest, adeo ut qui
- 10 cetera in viro probant haec opera eius esse infitientur.¹ sed frustra, hunc enim maxime adfixisse animis eam dulcedinem constat. plenumque miraculi et hoc, pariter utrasque artes effloruisse, medicinam dico magicenque, eadem aetate illam Hippocrate, hanc Democrito inlustrantibus, circa Peloponnensiacum Graeciae bellum quod gestum est a trecentesimo
- 11 urbis nostrae anno. est et alia magices factio a Mose et Janne et Lotape² ac Iudaeis pendens, sed multis milibus annorum post Zoroastrem. tanto recentior est Cypria. non levem et Alexandri Magni temporibus auctoritatem addidit professioni secundus Osthane comitatu eius exornatus, planeque, quod nemo dubitet, orbem terrarum peragravit.
- 12 III. Extant certe et apud Italas gentes vestigia eius in XII tabulis nostris aliisque argumentis quae

¹ infitientur *Mayhoff*: inficientur *codd.*

² Lotape *codd.*: Iotape *Gelenius*.

^a See Torrey, *The Magic of Lotapes* (Journal of Biblical Literature, 1949, 325–327). Pliny should have written *Iotape* = *יִוְטָא* *πῆ* = Yahweh. Jannes was not a Hebrew

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priore volumine exposui. DCLVII demum anno urbis Cn. Cornelio Lentulo P. Licinio Crasso cos. senatusconsultum factum est ne homo immolaretur, palamque in tempus illud sacra prodigiosa celebrata.

13 IV. Gallias utique possedit, et quidem ad nostram memoriam. namque Tiberii Caesaris principatus sustulit Druidas eorum et hoc genus vatium medicorumque. sed¹ quid ego haec commemorem in arte occanum quoque transgressa et ad naturae inane pervecta? Britannia hodieque eam adtonita celebrat tantis caerimoniis ut dedisse Persis videri possit. adeo ista toto mundo consensere quamquam discordi et sibi ignoto. nec satis aestimari potest quantum Romanis debeatur, qui sustulere monstra, in quibus hominem occidere religiosissimum erat, mandati vero etiam saluberrimum.

14 V. Ut narravit Osthanes, species eius plures sunt. namque et aqua et sphaeris et aëre et stellis et lucernis ac pelvibus securibusque et multis aliis modis divina promittit, praeterea umbrarum inferorumque colloquia. quae omnia aetate nostra princeps Nero vana falsaque comperit. quippe non citharae tragicique cantus libido illi maior fuit, fortuna rerum humanarum summa gestiente² in profundis animi vitiis, primumque imperare dis con-

¹ sed *Gelenius, Mayhoff*: ipse *codd.*

² *gestiente codd.*: *gestienti coni. Mayhoff.*

^a XXVIII. § 17.

^b 97 B.C.

^c Or: "agreement in that subject of magic."

proved by my own and the other evidence set forth in an earlier Book.^a It was not until the 657th year of the City ^b that in the consulship of Gnaeus Cornelius Lentulus and Publius Licinius Crassus there was passed a resolution of the Senate forbidding human sacrifice; so that down to that date it is manifest that such abominable rites were practised.

IV. Magic certainly found a home in the two Gallic provinces, and that down to living memory. For the principate of Tiberius Caesar did away with their Druids and this tribe of seers and medicine men. But why should I speak of these things when the craft has even crossed the Ocean and reached the empty voids of Nature? Even today Britain practises magic in awe, with such grand ritual that it might seem that she gave it to the Persians. So universal is the cult of magic ^c throughout the world, although its nations disagree or are unknown to each other. It is beyond calculation how great is the debt owed to the Romans, who swept away the monstrous rites, in which to kill a man was the highest religious duty and for him to be eaten a passport to health.

V. As Osthanes said, there are several forms of magic; he professes to divine from water, globes, air, stars, lamps, basins and axes, and by many other methods, and besides to converse with ghosts and those in the underworld. All of these in our generation the Emperor Nero discovered to be lies and frauds. In fact his passion for the lyre and tragic song was no greater than his passion for magic; his elevation to the greatest height of human fortune aroused desire in the vicious depths of his mind; his greatest wish was to issue commands to the gods,

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cupivit, nec quicquam generosius voluit. nemo um-
15 quam ulli artium validius favit. ad hoc non opes
defuere, non vires, non discentis ingenium, quae non
alia patiente mundo! inmensum, indubitatum ex-
emplum est falsae artis quam dereliquit Nero, uti-
namque inferos potius et quoscumque de suspitioni-
bus suis deos consulisset quam lupanaribus atque
prostitutis mandasset inquisitiones eas! nulla pro-
fecto sacra, barbari licet ferique ritus, non mitiora
quam cogitationes eius fuissent. saevius sic¹ nos
replevit umbris.

16 VI. Sunt quaedam Magis perfugia, veluti lenti-
ginem habentibus non obsequi numina aut cerni-
num obstitit² forte hoc in illo? nihil membris defuit.
nam dies eligere certos liberum erat, pecudes vero
quibus non nisi ater colos esset facile. nam homines
immolare etiam gratissimum. Magus ad eum Tiri-
dates venerat Armeniacum de se triumphum adferens
17 et ideo provinciis gravis. navigare noluerat, quoniam
expuere in maria aliisque mortalium necessitatibus
violare naturam eam fas non putant. Magos secum
adduxerat, magicis etiam cenis eum initiaverat, non
tamen, cum regnum ei daret, hanc ab eo artem acci-
pere valuit.³ proinde ita persuasum sit, intestabilem,
inritam, inanem esse, habentem tamen quasdam
veritatis umbras, sed in his veneficas artes pollere,
18 non magicas. quaerat aliquis, quae sint mentiti

¹ hic *vel is sic coni. Warmington.*

² num obstitit *ego coni. post Pintianum*: an obstitit *Mayhoff*: non (*pro num*) dTE: obstat *aliquot codd., Detlefsen.*

³ valuit *d(?) vulg., Detlefsen, Mayhoff*: voluit *paene omnes codd. et Mayhoff in Appendice.*

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veteres Magi, cum adulescentibus nobis visus Apion grammaticae artis prodiderit cynocephalian herbam, quae in Aegypto vocaretur osiritis, divinam et contra omnia veneficia, sed si tota erueretur, statim eum qui eruisset mori, seque evocasse umbras ad percunctandum Homerum quanam patria quibusque parentibus genitus esset, non tamen ausus profiteri quid sibi respondisse diceret.

19 VII. Peculiare vanitatis sit argumentum quod animalium cunctorum talpas maxime mirantur tot modis a rerum natura damnatas, caecitate perpetua, tenebris etiamnum aliis¹ defossas sepultisque similes. nullis aequae credunt extis, nullum religionum capacius iudicant animal, ut si quis cor eius recens palpitansque devoret,² divinationis et rerum efficiendarum eventus promittant. dente talpae vivae
20 exempto sanari dentium dolores adalligato adfirmant. cetera ex eo animali placita eorum suis reddemus locis. nec quicquam probabilius invenietur quam muris aranei morsibus adversari eas, quoniam et terra orbitis, ut diximus, depressa adversatur.

21 VIII. Cetero dentium doloribus, ut idem narrant, medetur canum qui rabie perierunt capitum cinis crematorum sine carnibus instillatus ex oleo cyprio per aurem cuius e parte doleant, caninus dens sinister maximus circumscarifato qui doleat aut draconis os

¹ aliis aut alis codd., Mayhoff: altis Detlefsen.

² devoret V¹GRdTf: devoraret V²E¹: devorarit E² vulg., Detlefsen.

^a See XXIX. § 89.

lies of the old Magi, when as a youth I saw Apion the grammarian, who told me that the herb cynocephalia, called in Egypt osiritis, was an instrument of divination and a protection from all kinds of sorcery, but if it were uprooted altogether the digger would die at once, and that he had called up ghosts to inquire from Homer his native country and the name of his parents, but did not dare to repeat the answers which he said were given.

VII. It should be unique evidence of fraud that *The mole.* they look upon the mole of all living creatures with the greatest awe, although it is cursed by Nature with so many defects, being permanently blind, sunk in other darkness also, and resembling the buried dead. In no entrails is placed such faith; to no creature do they attribute more supernatural properties; so that if anyone eats its heart, fresh and still beating, they promise powers of divination and of foretelling the issue of matters in hand. They declare that a tooth, extracted from a living mole and attached as an amulet, cures toothache. The rest of their beliefs about this animal I will relate in the appropriate places. But of all they say nothing will be found more likely than that the mole is an antidote for the bite of the shrewmouse, seeing that an antidote for it, as I have said,^a is even earth that has been depressed by cart wheels.

VIII. Toothache is also cured, the Magi tell us, *Remedies* by the ash of the burnt heads without any flesh of *the teeth.* dogs that have died of madness, which must be dropped in cyprus oil through the ear on the side where the pain is; also by the left eye-tooth of a dog, the aching tooth being scraped round with it; by one of the vertebrae of the draco or of the

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e spina, item enhydridis, est autem serpens masculus et albus. huius maximo dente circumscarifant, aut in superiorum dolore duos superiores adalligant, e
22 diverso inferiores. huius adipe perunguntur qui crocodilum captant. dentes scarifant et ossibus lacertae ex fronte luna plena exemptis ita ne terram adtingant. colluunt dentibus caninis decoctis in vino ad dimidias partes. cinis eorum pueros tarde dentientes adiuvat cum melle. fit eodem modo et dentifricium. cavis dentibus cinis e murino fimo
23 inditur, vel iocur lacertarum aridum. anguinum cor si mordeatur adalligeturve efficax habetur. sunt inter eos qui murem bis in mense iubeant mandi doloresque ita caveri. vermes terreni decocti in oleo infusique auriculae cuius a parte doleat praestant levamentum. eorundem cinis exesis dentibus coniectus¹ ex facili² cadere eos cogit, integros dolentes inlitis iuvat. comburi autem oportet in testo. pro sunt et cum mori radice in aceto scillite decocti ita ut
24 colluantur dentes. is quoque vermiculus qui in herba Veneris labro appellata invenitur cavis dentium inditus mire prodest. nam urucae brassicae eius contactu cadunt, et a malva cimices infunduntur auribus cum rosaceo. harenulae quae inveniuntur in cornibus coclearum cavis dentium inditae statim

¹ coniectus r *Pl. Iun.*, *Mayhoff*: coiectus E: collectus d, *Detlefsen*: collectis aliquot codd.: colutis *Ianus*.

² ex facili aliquot codd., *Detlefsen*, *Mayhoff*: ex facile VGR. *Marcellus* (XII 31) "insertus et cera opertus facile cadere eos cogit." *Fortasse* coniectus et cera contectus facile. *Warming-ton* coniectus facile excidere *coni*.

^a The true text is very hard to discover. The general sense is plain, but the parallel passage in *Marcellus* XII. 31 seems to suggest that a phrase like "covered with wax" has

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PLINY: NATURAL HISTORY

- liberant dolore. coclearum inanium cinis cum murra
gingivis prodest, serpentis cum sale in olla exustae
cinis cum rosaceo in contrariam aurem infusus,
anguinae vernationis membrana cum oleo taedaeque
25 resina calefacta et auri alterutri infusa—adiciunt
aliqui tus et rosaceum—eadem cavis indita ut sine
molestia cadant praestat. vanum arbitror esse circa
canis ortum angues candidos membranam eam
exuere, quoniam ante ortum¹ in Italia visum est,
multoque minus credibile in tepidis regionibus tam
sero exui. hanc autem vel inveteratam cum cera
celerrime evellere tradunt, et dens anguium adalli-
26 gatus dolores mitigat. sunt qui et araneum animal
ipsum sinistra manu captum tritumque in rosaceo et
in aurem infusum cuius a parte doleat prodesse
arbitrentur. ossiculi gallinarum in pariete servati
fistula salva;² tacto dente vel gingiva scarifata
proiectoque ossiculo statim dolorem abire tradunt,
item fimo corvi lana adalligato vel passerum cum
oleo calefacto et proximae auriculae infuso. pruri-
tum quidem intolerabilem facit et ideo utilius est
passeris pullorum sarmentis crematorum cinerem ex
aceto infricare.
- 27 IX. Oris saporem commendari adfirmant, murino
cinere cum melle si fricentur dentes. admiscent
quidam marathi radices. pinna vulturis si scalpantur

¹ ante ortum *Mayhoff*: neutrum *codd.*, *Detlefsen*.

² in pariete servati fistula salva] *Nescioquo loco latet error
nondum sanatus. Vide notam.*

^a Both the structure and the sense are difficult. *Mayhoff* conjectures *panno* or *puxide* for *pariete*, but the last occurs in similar cures in § 51 and elsewhere. I translate as though

from pain. Empty snail shells, reduced to ash and myrrh added, are good for the gums, as is the ash of a serpent burnt with salt in an earthen pot, poured with rose oil into the opposite ear, or the slough of a snake with oil and pitch-pine resin warmed and poured into either ear—some add frankincense and rose oil—and if put into hollow teeth it also makes them fall out without trouble. I think it an idle tale that white snakes cast their slough about the rising of the Dog-star, since the casting has been seen in Italy before the rising, and in warm regions it is much less probable for sloughing to be so late. But they say that this slough, even when dry, combined with wax forces out teeth very quickly. A snake's tooth also, worn as an amulet, relieves toothache. There are some who think that a spider also is beneficial, the animal itself, caught with the left hand, beaten up in rose oil, and poured into the ear on the side of the pain. The little bones of hens have been kept hanging on the wall of a room with the gullet intact; ^a if a tooth is touched, or the gum scraped, and the bone thrown away, they assure us that the pain at once disappears, as it does if a raven's dung, wrapped in wool, is worn as an amulet, or if sparrows' dung is warmed with oil and poured into the ear nearer the pain. This however causes unbearable itching, and so it is better to rub the part with vinegar and the ash of a sparrow's nestlings burnt on twigs.

IX. They assert that the taste in the mouth is made agreeable if the teeth are rubbed with the ash of burnt mice mixed with honey; some add fennel root. If the teeth are picked with a vulture's

servati were a finite verb, and a new sentence began at *tacto*. This gives the general sense.

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dentes, acidum halitum faciunt. hoc idem hystricis spina fecisse ad firmitatem pertinet. linguae ulcera et labrorum hirundines in mulso decoctae sanant, adeps anseris aut gallinae rimas, oesypum cum galla, araneorum telae candidae et quae in trabibus¹ parvae texuntur. si ferventia os intus exusserint, lacte canino statim sanabuntur.

- 28 X. Maculas in facie oesypum cum melle Corsico quod asperrimum habetur extenuat, item scobem cutis in facie cum rosaceo inpositum vellere—quidam et butyrum addunt—si vero vitiligines sint, fel caninum prius acu conpunctas, ad liventia et sug-gillata pulmones arietum pecudumque in tenues
29 consecuti membranas calidi inpositi, vel columbinum fimum. cutem in facie custodit adeps anseris vel gallinae. lichenas et murino fimo ex aceto inlinunt et cinere irenacei ex oleo. in hac curatione prius nitro ex aceto faciem foveri praecipiunt. tollit ex facie vitia et coclearum quae latae et minutae passim
30 inveniuntur cum melle cinis. omnium quidem coclearum cinis spissat, calfacit, smectica vi, et ideo causticis miscetur, psorisque et lepris et lentigini in-linitur. invenio et formicas Herculaneas appellari quibus tritis adiecto sale exiguo talia vitia sanentur.

¹ in trabibus *Hermolaus Barbarus, Mayhoff*: intra bulbus *codd.*

^a *Spissare*, a favourite word of Pliny, is often of uncertain meaning and difficult to translate. Here perhaps there is reference to the drying up of morbid humours.

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felle ita inflammatur ut rumpat. haec cum hircino sebo inlita lichenas ex facie tollit septica vi, ut supra dictum est. vulturinus sanguis cum chamaeleontos albae, quam herbam esse diximus, radice et cedria tritus contectusque brassica lepras sanat, item pedes locustarum cum sebo hircino triti, varos adeps gallinaccus cum cepa subactus. utilissimum et in facie mel in quo apes sint inmortuae, praecipue tamen faciem purgat atque erugat cygni adeps. stigmata delentur columbino fimo ex aceto.

- 31 XI. Gravedinem invenio finiri, si quis nares mulinas osculetur. uva¹ et faucium dolor mitigatur fimo agnorum priusquam herbam gustaverint in umbra arefacto, uva suco cocleae acu transfossae inlita, ut coclea ipsa in fumo suspendatur, hirundinum cinere cum melle. sic et tonsillis succurritur. tonsillas et fauces lactis ovilli gargarizatio adjuvat,
- 32 multipeda trita, fimum columbinum cum passo gargarizatum, etiam cum fico arida ac nitro inpositum extra. asperitatem faucium et destillationes leniunt cocleae—coqui debent inlotae, demptoque tantum terreno conteri et in passo dari potu. sunt qui Astypalaeicas efficacissimas putent²—et cinis earum, gryllus infricatus aut si quis manibus quibus eum contriverit tonsillas attingat.
- 33 XII. Anginis felle anserino cum elaterio et melle citissime succurritur, cerebro noctuae, cinere hiron-

¹ An uvae? sic con. *Mayhoff*.

² putent—et cinis earum, gryllus (cinis menarum *Detlefsen*) *Urlichs, Detlefsen*: putent et minimas earum—, gryllus *Mayhoff*: varia codd.

^a XXIX. § 59.

^b XXII. § 45.

^c These are often mentioned. Slaves after manumission might find them an embarrassment.

the gall that it bursts the animal. This insect applied with he-goat suet removes lichen from the face by its corrosive property, as I have already ^a said. Vulture's blood, beaten up with cedar resin and the root of the white chamaeleon, a plant I have already ^b mentioned, and covered with a cabbage leaf, heals leprous sores, as do the legs of locusts beaten up with he-goat suet. Pimples are cured by poultry fat kneaded with onion. Very useful too for the face is honey in which bees have died, but the best thing for clearing the complexion and removing wrinkles is swan's fat. Branded marks ^c are removed by pigeon's dung in vinegar.

XI. I find that a heavy cold clears up if the sufferer kisses a mule's muzzle. Pain in the uvula and in the throat is relieved by the dung, dried in shade, of lambs that have not yet eaten grass, uvula pain by applying the juice of a snail transfixed by a needle, so that the snail itself may be hung up in the smoke, and by the ash of swallows with honey. This also gives relief to affections of the tonsils. Gargling with ewe's milk is a help to tonsils and throat, as is a multipepe beaten up, gargling with pigeon's dung and raisin wine, and also an external application of it with dried fig and soda. Sore throat and a running cold are relieved by snails—they should be boiled unwashed, and with only the earth taken off crushed and given to drink in raisin wine; some hold that the snails of Astypalaea are the most efficacious—by their ash, and also by rubbing with a cricket or if anybody touches the tonsils with hands that have crushed a cricket. *Colds, etc.*

XII. In quinsy very speedy relief is afforded by *Quinsy.* goose gall with elaterium and honey, by the brain of

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dinis ex aqua calida poto. huius medicinae auctor est Ovidius poeta. sed efficaciores ad omnia quae ex hirundinibus monstrantur pulli silvestrium—figura nidorum eas deprehendit—multo tamen efficacissimi ripariarum pulli. ita vocant in riparum cavis nidificantes. multi cuiuscumque hirundinis pullum edendum censent, ut toto anno non metuatur id malum.

34 strangulatos cum sanguine¹ comburunt in vase et cinerem cum pane aut potu dant. quidam et mustelae cinerem² pari modo admiscent. sic ad strumae remedia dant et comitialibus cotidie potui. in sale quoque servatae hirundines ad anginam drachma bibuntur, cui malo et nidus earum mederi

35 dicitur potus. milipedam inlini anginis efficacissimum putant. alii XX tritas in aquae mulsae hemina dari per harundinem, quoniam dentibus tactis nihil prosint. tradunt et murem cum verbenaca excoctum, si bibatur is liquor, remedio esse, et corrigiam caninam ter collo circumdatam, fimum columbinum vino et oleo permixtum. cervicis nervis et opisthotono ex milvi nido surculus viticis adalligatus auxiliari dicitur,

36 strumis exulceratis mustelae sanguis, ipsa decocta in vino; non tamen sectis admovetur. aiunt et in cibo sumptam idem efficere, vel cinerem eius sarmentis

¹ cum sanguine] *Mayhoff* anginae coni.

² cinerem *Mayhoff*: cineres dEr *Detlefsen*.

^a Perhaps "dog's lead."

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combustae; miscetur axungia. lacertus viridis adal-
ligatur, post dies XXX alium adalligatum oportet.
37 quidam cor eius in argenteo vasculo servant ad
femineas¹ strumas et mares.² cocleae cum testa sua
tusae inlinuntur, maxime quae fructibus adhaerent,
item cinis aspidum cum sebo taurino inponitur,
anguinus adeps mixtus oleo, item anguium cinis ex
oleo inlitus vel cum cera. edisse quoque eos medios
abscissis utrimque extremis partibus adversus
strumas prodest, vel cinerem bibisse in novo fictili
ita crematorum, efficacius multo inter duas orbitas
38 occisorum. et gryllum inlinere cum sua terra effos-
sum suadent, item fimum columbarum per sese vel
cum farina hordeacia aut avenacia ex aceto, talpae
cinerem ex melle inlinere. alii iocur eiusdem contri-
tum inter manus inlinunt et triduo non abluunt.
dextrum quoque pedem eius remedio esse strumis
adfirmant. alii praecidunt caput et cum terra a
talpis excitata tusum digerunt in pastillos pyxide
stagnea et utuntur ad omnia quae intumescant et
quae apostemata vocant quaeque in cervice sint;
39 vesci suilla tunc vetant. tauri vocantur scarabaei
terrestres ricino similes—nomen cornicula dedere,
alii pediculos terrae vocant; ab his quoque terram
egestam inlinunt strumis et similibus vitiis et poda-
gris, triduo non abluunt. prodest haec medicina in
annum, omniaque his adscribunt quae nos in gryllis

¹ femineas *Mayhoff*: feminas *codd.*: feminarum *Detlefsen*.

² mares *coni.* *Mayhoff e Marcello*: veteres *codd.*: strumas,
et veteres cochleae etc. *coni.* *Warmington*.

axle grease. A green lizard is attached as an amulet; after thirty days the weasel should be changed for another. Some keep a weasel's heart in a small silver vessel for scrofula in woman or man. An ointment is made of snails pounded with their shells, especially those that cling to shrubs, or there is applied the ash of asps with bull suet, snake's fat mixed with oil, or an ointment of snake's ash in oil or with wax. To eat also the middle part of a snake after cutting off either end is good for scrofula, as is to take in drink the ash of this middle burnt in new earthenware, with much greater benefit if the snakes have been killed between two wheel-ruts. They recommend also the application of a cricket dug up with its earth, also the application of dove's dung by itself, or with barley meal or oatmeal in vinegar, or of mole ash with honey. Some make an ointment of a mole's liver crushed between the hands, and do not wash it off for three days. They also assure us that the right foot of the animal is a remedy for scrofula. Others cut off the head, pound it with the earth of a mole-hill, work into lozenges in a pewter box, and use for all swellings, for what are called apostemata, and for affections of the neck; during the treatment the eating of pork is forbidden. There are earth beetles like ticks that are called "bulls"—a name given because of their little horns—and by some "earth lice." These too throw up earth that is applied to scrofulous and similar sores, and also to gouty parts, not being washed off for three days. The efficacy of this treatment lasts for a year. To these creatures are assigned all the properties I have mentioned when speaking of crickets. Some also use for this purpose the earth thrown up by ants, others

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- rettulimus. quidam et a formicis terra egesta sic utuntur, alii vermes terrenos totidem quot sint strumae adalligant pariterque cum his arescunt.
- 40 alii viperam circa canis ortum circumcidunt ut diximus, dein mediam comburunt, cinerem eum dant bibendum ter septenis diebus quantum prenditur ternis digitis, sic strumis medentur, aliqui vero circumligantes lino quo praeligata infra caput vipera pependerit donec exanimaretur. et milipedis utuntur addita resinae terebinthinae parte quarta, quo medicamento omnia apostemata curari iubent.
- 41 XIII. Umeri doloribus mustelae cinis cum cera medetur. ne sint alae hirsutae formicarum ova pueris infricata praestant, item mangonibus, ut lanugo tardior sit pubescentium, sanguis e testiculis agnorum, cum castrantur, qui evulsis pilis inlitis et contra virus proficit.
- 42 XIV. Praecordia vocamus uno nomine exta in homine, quorum in dolore cuiuscumque partis si catulus lactens admoveatur adprimaturque his partibus, transire in eum dicitur morbus, idque exinterato perfusoque vino deprehendi vitiato viscere illo quod
- 43 doluerit homini, sed obrui tales religio est. hi quoque quos Melitaeos vocamus stomachi dolorem sedant adplicati saepius. transire morbos aegritudine eorum intellegitur, plerumque et morte. pulmonum¹ vitiis medentur et² mures, maxime Africani,

¹ *Post pulmonum addunt quoque multi codd., Mayhoff: om. d Er, Detlefsen.*

² *et Er, Detlefsen: id VGRd: iidem Ianus: item Mayhoff.*

^a XXIX. §§ 70 and 121.

^b From the Dalmatian island of Melita.

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detracta cute in oleo et sale decocti atque in cibo sumpti. eadem res et purulentis vel cruentis ex-
 44 creationibus medetur, XV. praecipue vero coclearum
 cibus stomacho. in aqua eas subfervefieri intacto corpore carum oportet, mox in pruna torreri nihilo addito, atque ita e vino garoque sumi, praecipue Africanas. nuper hoc conpertum plurimis prodesse. id quoque observant ut numero impari sumantur. viris tamen carum gravitatem halitus facit. prosunt et sanguinem excreantibus dempta testa tritae in
 45 aqua ¹ potu. laudatissimae autem sunt Africanae—ex his Iolitanae—Astypalaeicae,² Siculae modicae, quoniam magnitudo duras facit et sine suco, Baliaricae, quas cavaticas vocant, quoniam in speluncis nascuntur. laudatae ex ³ insulis et ⁴ Caprearum, nullae⁵ autem cibus gratae neque veteres neque recentes. fluviatiles et albae virus habent, nec silvestres stomacho utiles, alvum solvunt, item omnes minutae. contra marinae stomacho utiliores, efficacissimae tamen in dolore stomachi e laudatis tra-
 46 duntur quaecumque vivae cum aceto devoratae. praeterea sunt quae ἀκέρatoi vocantur, latae, multifariam nascentes, de quarum usu dicemus suis locis.

¹ aqua *Mayhoff*: aquae *codd.* Cf. XXVIII. § 202.

² Ante Siculae addunt et ne VGR: om. d E r, *Detlefsen*: Aetnaeae *Gronovius, Sillig*: item *Mayhoff*.

³ et ex *codd.*: ex *Detlefsen, Mayhoff*.

⁴ Ante Caprearum addunt *codd.* et aut ex: et *Detlefsen, Mayhoff*.

⁵ nullae d r, *Mayhoff*: nullis VGR¹ *Detlefsen*.

^a A sauce made of small fish.

^b The phrase *in aquae potu* occurs in XXVIII. § 202, but not depending on *tritae*.

they are skinned, boiled down in oil and salt, and taken in food. The same preparation is also a cure for expectoration of pus or blood. XV. The best medicine, however, for the stomach is a diet of snails. *Snails* They should be gently boiled in water, African snails by preference, with their bodies whole, then with nothing added grilled over a coal fire, and so taken in wine and garum.^a Recently this treatment has been found to benefit very many sufferers, who are also careful that the number of the snails taken is odd. Their rank juice, however, makes the breath foul. Pounded without their shells and taken ^b in water they are also good for the spitting of blood. The most prized snails are the African, especially those of Iol, those of Astypalaea, moderate sized Sicilian (for the large are hard, and without juice), and those of the Balaric islands, called *cavaticae* because they breed in caverns. Those from the islands and of Capreae are prized, but none whether preserved or fresh make pleasant eating.^c River snails and white snails have a rank taste; wood snails are not good for the stomach, relaxing the bowels, and so with all small snails. On the other hand sea snails ^d are rather beneficial for the stomach, but of the prized snails the most efficacious for stomach-ache are said to be all that are swallowed alive in vinegar. Moreover, there are some snails called ἀκέρατοι,^e which are broad, and breed in many places; of these I shall

^c The text in this part of the chapter is uncertain as well as the punctuation. Dioscorides (II. 9) does not help, except once in showing that a full stop should be placed with Mayhoff after *recentes*.

^d Periwinkles.

^e I.e. "hornless."

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gallinaceorum ventris membrana inveterata et inspersa potioni destillationes pectoris, et umidam tussim vel recens tostata lenit. cocleae crudae tritae cum aquae tepidae cyathis tribus si sorbeantur, tussim sedant. destillationes sedat et canina cutis cuilibet digito circumdata. iure perdicum stomachus recreatur.

- 47 XVI. Iocinerum doloribus medetur mustela silvestris in cibo sumpta vel iocinera eius, item viverra porcelli modo inassata, suspiriosis multipedae ita ut ter septenae in Attico melle diluantur et per harundinem bibantur, omne enim vas nigrescit contactu. quidam torrent sextarium in patina donec candidae fiant, tunc melle miscent [alii centipedam vocant]¹
- 48 et ex aqua calida dari iubent. cocleae in cibo² iis quos linoquit animus aut quorum alienatur mens aut quibus vertigines fiunt, ex passi cyathis tribus singulae contritae cum sua testa et calefactae in potu datae diebus plurimum novem, aliqui singulas primo die dedere, sequenti binas, tertio ternas, quarto duas,
- 49 quinto unam. sic et suspiria emendant et vomicas. esse animal locustae simile sine pennis, quod trixallis Graece vocetur, Latinum nomen non habeat, aliqui arbitrantur, nec pauci auctores, hoc esse quod grylli vocentur. ex his XX torreri iubent ac bibi e mulso contra orthopnoeas. sanguinem expuentibus cocleae;³ si qui inlotis protropum infundat, vel marina aqua ita decoquat et in cibo sumat, aut si

¹ alii centipedam vocant] *In uncis Mayhoff.*

² iubent in cibo. cocleae *Mayhoff.*

³ si qui *Mayhoff* est qui *plerique codd., Detlefsen.*

^a The part in brackets (clearly a gloss on *multipedae*) means: "some call it centipede."

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tritae cum testis suis sumantur cum protropo; sic et
tussi medentur. vomicas privatim sanat mel in quo
50 apes sint demortuae. sanguinem reicientibus pulmo
vulturinus vitigineis liguis combustus adiecto flore
Punici mali ex parte dimidia, item cotoneorum lilior-
umque isdem portionibus potus mane atque vesperi
e vino, si febres absint, si minus, ex aqua in qua
cotonea decocta sint.

51 XVII. Pecudis lien recens magicis praeceptis
super dolentem lienem extenditur dicente eo qui
medeatur lieni se remedium facere. post hoc inbent
in pariete dormitorii eius tectorio includi et obsignari
anulo ter novies eademque¹ dici. caninus si viventi
eximatur et in cibo sumatur, liberat eo vitio. quidam
52 recentem superinligant. alii duum dierum catuli ex
aceto scillite dant ignorantibus, vel irenacei lienem,
item coclearum cinerem cum semine lini et urticae
addito melle, donec persanet. liberat et lacerta
viridis viva in olla ante cubiculum dormitorium eius
cui medeatur suspensa, ut egrediens revertensque
atingat manu, cinis e capite bubonis cum unguento,
mel in quo apes sint mortuae, araneus, et maxime
qui lycos vocatur.

53 XVIII. Upupae cor lateris doloribus laudatur,
coclearum cinis in tisana decoctarum—et per se
inlinuntur—canis rabiosi calvariae cinis potioni
inspergitur. lumborum dolori stelio transmarinus

¹ eademque *Mayhoff*: carmenque *Detlefsen*: carmen d(?)
vulg.: earumque (—quae E) VRGE: anulo, terque novies
eadem dici. *coni. Warmington.*

in food, or if pounded with their shells they are taken with *protropum*; these preparations also cure a cough. Specific for abscesses is honey in which bees have died. For coughing up blood a vulture's lung burnt over vine wood, with half as much pomegranate blossom and the same quantity of quince blossom and of lilies, taken morning and evening in wine, if there is no fever, otherwise in water in which quinces have been boiled.

XVII. The fresh spleen of a sheep is placed, by a Magian prescription, over the painful spleen of a patient, the attendant saying that he is providing a remedy for the spleen. After this the Magi prescribe that it should be plastered into the wall of the patient's bedroom, sealed with a ring thrice nine times and the same words repeated. If a dog's spleen is cut out of the living animal and taken in food it cures splenic complaints; some bind it when fresh over the affected part. Others without the patient's knowledge give in squill vinegar the spleen of a two-days-old puppy, or that of a hedgehog, also the ash of snails with linseed, nettle seed, and honey, until there is a complete cure. Another remedy is a live green-lizard, hung up in a pot before the door of the bedroom of the patient, that he may touch it with his hand on going out and coming in, the ash of a horned owl's head with an unguent, honey in which bees have died, or a spider, especially that called "wolf."

XVIII. The heart of a hoopoe is a prized remedy for pains in the side, as is the ash of snails boiled down in barley water; these are also used by themselves as a liniment. The skull of a mad dog is reduced to ash and sprinkled in drink. For lumbago an overseas *Lumbago, sciatica, et*

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- capite ablato et intestinis decoctus in vino cum papaveris nigri denarii pondere dimidio eo suco bibitur. lacerti¹ virides decisis pedibus et capite in cibo sumuntur, cocleae tres contritae cum testis suis atque in vino decoctae cum piperis granis XV.
- 54 aquilae pedes evellunt in aversum a suffragine ita ut dexter dextrae partis doloribus adalligetur, sinister laevae. multipeda quoque, quam oniscon appellavimus, medetur denarii pondere ex vini cyathis duobus pota. vermem terrenum catillo ligneo ante fisso et ferro vincto inpositum aqua excepta² perfundere et defodere unde effoderis Magi iubent, mox aquam bibere catillo, mire id prodesse ischiadicis adfirmantes.
- 55 XIX. Dysintericos recreant femina pecudum decocta cum lini semine ea³ aqua pota, caseus ovillus vetus, sebum ovium decoctum in vino austero. hoc et ileo medetur et tussi veteri dysintericis stelio transmarinus, ablatis intestinis et capite pedibusque ac cute, decoctus aequae et in⁴ cibo sumptus, cocleae

¹ lacerti dE *Detlefsen*: lacertae R *vulg.*, *Mayhoff*: lacerte VG.

² inpositum aqua excepta] *coni.* aqua perfundere et exceptum *Mayhoff*.

³ ea *Urlichs*, *Detlefsen*, *Mayhoff*: *om. codd.*

⁴ in *vulg.*, *Mayhoff*: *om. codd.*, *Detlefsen*.

^a See note on XXVI. § 67.

^b It is not clear who "they" are, but most of this part of Pliny seems taken from the same source as that from which he took his account of the Magi.

^c See XXIX. § 136.

^d *Mayhoff's* reading would mean: "soaked in water, taken out, and buried, etc." The word *exceptum*, written as *exceptū*,

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PLINY: NATURAL HISTORY

duae cum ovo, utraque cum putamine contrita atque
in vase novo addito sale et passi cyathis duobus aut
palmarum suco et aquae cyathis tribus subfervefacta
56 et in potu data.¹ prosunt et combustae, ut cinis
earum bibatur in vino addito resinae momento.
cocleae nudae, de quibus diximus—in Africa maxime
inveniuntur—utilissimae dysintericis, quinae com-
bustae cum denarii dimidii pondere acaciae; ex eo
cinere dantur coclearia bina in vino myrtite aut
57 quolibet austero cum pari modo caldae. quidam
omnibus Africanis ita utuntur, alii totidem Africanas
vel latas² infundunt potius et, si maior fluctio sit,
addunt acaciam fabae magnitudine. senectus an-
guium dysinteriae et tenesmis in stagneo vase deco-
quitur cum rosaceo, vel si in alio, cum stagno inlinitur.
ius ex gallinaceis isdem medetur, sed veteris galli-
58 nacei vehementius salsum ius alvum ciet. membrana
gallarum tosta et data in oleo ac sale coeliacorum
dolores mulcet—abstinere autem frugibus ante et
gallinam et hominem oportet—fimum columbinum
tostum potumque. caro palumbis in aceto decocta
dysintericis et coeliacis medetur, turdus inassatus
cum myrti bacis dysintericis, item merulae, mel in
quo apes sint inmortuae decoctum.

¹ subfervefacta . . . data *Mayhoff cum vet. Dal.* : -tis . . .
-tis *codd., Detlefsen.*

² vel latas *codd., Detlefsen* : velatas (*opp. nudas*) *Mayhoff,*
qui et latas sine vel coni.

^a See XXIX. § 112.

with egg, each beaten up with its shell, allowed to simmer in a new vessel with salt, two cyathi of raisin wine or date juice, and three cyathi of water; this preparation is taken in drink. Snails are also beneficial when burnt, and their ash taken in wine with a small piece of resin. Snails without shells, about which I have spoken ^a—they are found chiefly in Africa—are very useful in dysentery; five are burnt and taken with half a denarius by weight of gum acacia; of this ash two spoonfuls are given in myrtle wine or any dry wine with an equal quantity of hot water. Some, using all African snails, administer according to this recipe; others prefer to inject the same number of African snails or broad snails,^b adding if the flux is severe gum acacia of the size of a bean. The cast slough of snakes is boiled down with rose oil for dysentery and tenesmus in a pewter vessel; if in any other kind of vessel, the application must be made with the help of pewter. Chicken broth is good for these two complaints, but broth made with an old cock, thoroughly salted, is purgative. A hen's crop, roasted and given in oil and salt, soothes the pains of coeliac troubles—but previously hen and patient must both abstain from cereals ^c—as does dove's dung roasted and taken in drink. The flesh of a wood-pigeon boiled in vinegar is good for dysentery and for coeliac troubles; for dysentery too a thrush roasted with myrtle berries, so are blackbirds and honey in which bees have died.

^b Mayhoff's *velatas* would mean: "with shells," but I can find no exact parallel.

^c I think that the sense is that both hen and patient must fast, and that *frugibus* is used as being peculiarly applicable to *gallinam*, which is nearer to it than *hominem*.

PLINY: NATURAL HISTORY

59 XX. Gravissimum vitium¹ alvi ileos² appellatur. huic resisti aiunt discerpti vespertilionis sanguine, etiam inlito ventre subveniri, sistit alvum coclea sicut diximus in suspiriosis temperata, item cinis earum quae vivac crematae sint potus ex vino austero, gallinaceorum iocur assum aut ventriculi membrana
60 quae abici solet inveterata admixto papaveris suco—alii recentem torrent ex vino bibendam—ius perdicium et per se ventriculus contritus ex vino nigro, item palumbis ferus ex posca decoctus, lien pecudis tostus et in vino tritus, fimum columbinum cum melle inlitum, ossifragi venter arefactus et potus, iis qui cibos non conficiant utilissimus, vel si manu tantum teneant capientes cibum. quidam adalligant ex hac causa, sed continuare non debent, maciem enim facit. sistit et anatum muscularum sanguis.
61 inflationes discutit coclearum cibus, tormina lien ovium tostus atque e vino potus, palumbus ferus ex posca decoctus, adips otidis ex vino, cinis ibide sine pennis cremata potus. quod praeterea traditur in torminibus mirum est, anate adposita ventri transire
62 morbum anatemque emori. tormina et melle curantur in quo sunt apes inmortuae decocto. coli vitium efficacissime sanatur ave galerita assa in cibo sumpta. quidam in vase novo cum plumis exuri iubent conterique in cinerem, bibi ex aqua coclearibus ternis

¹ vitium d E, *Detlefsen, Mayhoff*: vulnus vitium VGR: ventris vitium *Urlichs*.

² alvi ileos *Ianus, Detlefsen, Mayhoff*: apu (apii VG) illi eos VGE: apuleius R.

^a See § 48.

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PLINY: NATURAL HISTORY

per quadriduum, quidam cor eius adalligari femini,
 alii recens tepensque adhuc devorari.¹ consularis
 63 Asprenatum domus est in qua alter e fratribus colo
 liberatus est ave hac in cibo sumpta et corde eius
 armilla aurea incluso, alter sacrificio quodam facto
 crudis laterculis ad formam camini atque, ut sacrum
 peractum erat, obstructo sacello. unum est ossifrago
 intestinum mirabili natura omnia devorata con-
 ficienti. huius partem extremam adalligatam pro-
 desse contra colum constat. sunt occulti inter-
 64 aneorum morbi de quibus mirum proditur. si catuli
 priusquam videant adplicentur triduo stomacho
 maxime ac pectori et ex ore aegri suctum lactis acci-
 piant, transire vim morbi, postremo exanimari dis-
 sectisque palam fieri aegri² causas, †mori et †³
 humari debere eos obrutos terra. Magi quidem
 vespertilionis sanguine contacto ventre in totum
 annum caveri tradunt, aut in dolore⁴ si quis aquam⁵
 pedes eluens⁶ haurire sustineat.

65 XXI. Murino fimo contra calculos inlinere ven-
 trem prodest. irenacei carnem iucundam esse aiunt,
 si capite percusso uno ictu interficiatur priusquam in

¹ devorari d(?) *Detlefsen* : devoratur *reliqui codd. et Mayhoff*,
 qui aliis pro alii scribit.

² aegri om. *Urlichs et Detlefsen*: aegritudinis *Warmington*.

³ mori et *codd.* : morbi et *Ianus, Detlefsen* : monent *Mayhoff*:
 mox et *coni. Warmington*.

⁴ in dolore *fere omnes codd., Mayhoff* : per dolorem *E, Gelenius, Detlefsen*.

⁵ per post aquam *codd.* : *del. Detlefsen* : ter *Mayhoff*.

⁶ eluens *Mayhoff*, qui eluentis *coni.* : eluentem *Detlefsen* :
 fluentes aut fluentis *codd.* : aquam per pedes fluentem *Warmington*.

others that a lark's heart should be tied as an amulet to the patient's thigh, and others that it should be swallowed while fresh and still warm. The Asprenates are a consular family in which one of two brothers was cured of colic by this bird taken in food and its heart worn in a golden bracelet, the other by performing a certain sacrifice in a shrine of unbaked bricks built in the shape of an oven, and when a certain rite was over blocking it up. The osprey has only one gut, which through its wonderful character digests everything that the bird eats; the end of it attached as an amulet is well known to be excellent for colic. There are some obscure diseases of the intestines, for which is prescribed a wonderful cure. If, before they can see, puppies are applied for three days especially to the stomach and chest of a patient, and suck milk from his mouth, the power of the disease is transferred to them; finally they die and dissection makes clear the patient's trouble^a; the puppies must be buried in the earth. The Magi indeed tell us that if the belly is touched with a bat's blood there is protection from colic for a whole year; should there be pain, it is sufficient if the patient can bring himself to drink^b the water in which he washes his feet.

XXI. Mouse dung rubbed on the belly is good for stone in the bladder. The flesh of a hedgehog is said to be pleasant to eat if it is killed by one blow *Bladder troubles.*

^a *Causas* seems to be here the equivalent of *morbos*. The emendation *morbi* of Jan was due to his taking *causas* in its usual sense, but see XXVIII. § 218.

^b Mayhoff's *ter* would give: "to drink three times of the water, etc." The text at the end of this chapter is very uncertain, but the general sense is clear. I think that *per* before *pedes* is dittography.

PLINY: NATURAL HISTORY

se urinam reddat. haec caro ad hunc modum occisi
 stillicidium¹ vesicae² emendat, item suffitus ex
 eodem. quod si urinam in se reddiderit, eos qui
 carnem comederint stranguriae morbum contrahere
 66 traditur. iubent et vermes terrenos bibi ex vino aut
 passo ad comminuendos calculos vel cocleas decoctas
 ut in suspiriosis, easdem exemptas testis tres tritasque
 in vini cyatho bibi, sequenti die duas, tertio die unam,
 ut stillicidia urinae emendent, testarum vero in-
 anium cinerem ad calculos pellendos, item hydri iocur
 bibi vel scorpionum cinerem aut in pane sumi, [vel
 67 si quis ut locusta edit,]³ lapillos qui in gallinaceorum
 vesica aut in palumbium ventriculo inveniuntur con-
 teri et potioni inspergi, item membranam e ventri-
 culo gallinacei aridam vel, si recens sit, tostam,
 fimum quoque palumbinum in faba sumi contra
 calculos et alias difficultates vesicae, similiter plum-
 arum cinerem palumbium ferorum ex aceto mulso et
 intestinorum ex his cinerem coclearibus tribus, e nido
 68 hirundinum glaebulam dilutam⁴ aqua calida, ossifragi
 ventrem arefactum, turturis fimum in mulso decoctum
 vel ipsius discoctae ius. turdos quoque edisse cum
 bacis myrti prodest urinae, cicadas tostas in patellis,
 milipedam oniscon bibisse et in vesicae doloribus
 decoctum agninorum pedum. alvum ciet et gallin-

¹ stillicidium *Mayhoff*: stillicidia d, *Detlefsen*: stillicidi in *reliqui codd.*

² vesicae *Mayhoff*: vessicam *multi codd.*

³ vel si quis ut locusta edit *in uncis Mayhoff*: pro ut habet *cum vulg.*: vel si quis VI locustas edit *Detlefsen.*

⁴ glaebulam dilutam *ex Pl. iun. et Marcello Hard.*: fimum dilutum *Detlefsen*: grillum dirutum *multi codd.*

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PLINY: NATURAL HISTORY

aceorum discoctorum ius et aëria mollit, ciet et hirundinum fimum adiecto melle subditum.

- 69 XXII. Sedis vitiis efficacissima sunt oesypum—quidam adiciunt pompholygem¹ et rosaceum—canini capitis cinis, senecta serpentis ex aceto, si rhagades sint, cinis fimi canini candidi cum rosaceo—aiunt inventum Aesculapii esse eodemque et verrucas efficacissime tolli—murini fimi cinis, adeps cycni, adeps bovae. procidentia ibi sucus coclearum
70 punctis evocatus in litu repellit. ad tritis medetur cinis muris silvatici cum melle, fel irencei cum vesperilionis cerebro et canino lacte, adeps anserinus cum cerebro et alumine et oesypo, fimum columbinum cum melle, condylomatis privatim araneus dempto capite pedibusque infricatus; ne aëria perurant, adeps anserinus cum cera Punica, cerussa, rosaceo, adeps cycni. hic et haemorrhoidas sanare
71 dicitur. ischiadicis cocleas crudas tritas cum vino Aminneo et pipere potu prodesse dicunt, lacertam viridem in cibo ablatis pedibus, interaneis, capite, sic et stelionem adiectis huic papaveris nigri obolis tribus, ruptis, convulsis fel ovium cum lacte mulierum.
72 verendorum fornicationibus verrucisque medetur arietini pulmonis inassati sanies, ceteris vitiis vellerum eius vel sordidorum cinis ex aqua, sebum ex omento

¹ pompholygem *Hermolaus Barbarus: varia codd.: cf. § 106.*

^a A deposit from the smoke of smelting furnaces.

too is laxative and softens acridities, laxative too is the dung of swallows with honey used as a suppository.

XXII. For complaints of the anus very efficacious are wool grease—some add pompholyx^a and rose oil—dog's head reduced to ash, a serpent's slough in vinegar, if there are chaps, the ash of white dog's dung with rose oil—it is said to have been a discovery of Aesculapius, removing warts also very efficaciously—ash of mouse dung, fat of a swan, fat of a boa. Prolapsus there is reduced by an application of snail juice extracted by pricks. Chafings are relieved by the ash of a field mouse with honey, the gall of a hedgehog with the brain of a bat and bitch's milk, by goose grease with goose brain, alum and wool grease, and by pigeon dung with honey; specific for condylomata is a spider rubbed on the place when the head and feet have been removed; to prevent the smart from acrid juices, apply goose grease with Punic wax, white lead, rose oil, and swan fat. This fat is said also to cure haemorrhoids. They say that beneficial for sciatica are raw snails, pounded with Aminnean^b wine and pepper and taken in drink, a green lizard taken in food, but with feet, bowels and head removed, also so treated a spotted lizard with the addition of three oboli of black poppy^c; for ruptures and sprains, sheep's gall with woman's milk. Itching eruptions and warts on the privates are treated with the gravy from the roasted lung of a ram, other genital affections by the ash, applied with water, of raw, even unwashed, ram's wool, by

*Anus
complaints.*

*Complaints
of the
genitals, e.*

^b Mayhoff has a note (XXXIV. § 103) on this word. He prefers the spelling "Amminean."

^c For "black poppy" see note on XXVI. § 67 (vol. VII. p. 313).

PLINY: NATURAL HISTORY

pecudis, praecipue a renibus, admixto pumicis cinere et sale, lana sucida ex aqua frigida, carnes pecudis combustae ex aqua, mulac unguularum cinis, dentis caballini contusi farina inspersa, testibus vero farina ex ossibus capitis sine carne tuis. si decidat testium alter, spumam coclearum inlitam in remedio esse tradunt. taetris ibi ulceribus et manantibus auxiliantur canini capitis recentes cineres, cocleae parvae latae contritae ex aceto, senectus anguium ex aceto vel cinis eius, mel in quo apes sint inmortuae cum resina, cocleae nudaе, quas in Africa gigni diximus, tritae cum turis polline et ovorum albo. XXX die resolvunt; aliqui pro ture bulbum admiscent. hydrocelicis stelionis mire prodesse tradunt capite, pedibus, interaneis ademptis relicum corpus inassatum—in cibo id saepius datur—sicut ad urinae incontinentiam caninum adipem cum alumine schisto fabae magnitudine, cocleas Africanas cum sua carne et testa crematas poto cinere, anserum trium linguas inassatas in cibo. huius rei auctor est Anaxilaus.

75 at panos aperit sebum pecudum cum sale tosto, murinum fimum admixto turis polline et sandaraca discutit, lacertae cinis et ipsa divisa inposita, item multipeda contrita admixta resina terebinthina ex parte tertia—quidam et sinopidem admiscent—cocleae contusae per se, cinis inanium coclearum cerae

^a See § 56.

^b A Pythagorean banished by Augustus for magic practices.

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PLINY: NATURAL HISTORY

mixtus. discussoriam vim habet fimum columbarum per sese vel cum farina hordeacia aut avenacia inlitum. cantharides mixtae calce panos scalpelli vice auferunt, inguinum tumorem cocleae minutae cum melle inlitae leniunt.

76 XXIII. Varices ne nascantur, lacertae sanguine pueris crura ieiunis a ieiuno inlinuntur. podagras lenit eosypum cum lacte mulieris et cerussa, fimum pecudum quod liquidum reddunt, pulmones pecudum, fel arietis cum sebo, mures dissecti inpositi, sanguis mustelae cum plantagine inlitus et vivae combustae cinis ex aceto et rosaceo ¹—penna inlinatur vel si cera et rosaceum admisceatur—fel caninum ita ne manu attingatur, sed penna inlinatur, fimum gallinarum, vermium terrenorum cinis cum melle ita ut tertio
77 die solvantur. aliqui ² ex aqua inlinere malunt, alii ipsos—acetabuli ³ mensura ⁴ cum mellis cyathis tribus, pedibus ante rosaceo perunctis. cocleae latae potae tollere dicuntur pedum et articulorum dolores. bibuntur autem binae in vino tritae. eaedem inlinuntur cum helxines herbae suco. quidam ex aceto intrivisse contenti sunt. sale † quidam cum vipera crematus † ⁵ in olla nova saepius sumpto aiunt

¹ *Hic add. si E r: om. ceteri codd.*

² aliqui VGRdT: alium E r: ali eum *Detlefsen.*

³ acetabuli *vet. Dal.:* aceto *codd.*

⁴ mensura *aut mensuram codd.:* macerant *Detlefsen.*

⁵ quidam . . . crematus *codd.:* quidam . . . cremata *Urlichs, Detlefsen:* qui una . . . crematus sit *Mayhoff:* cremato *Warmington:* ego obelos addo.

^a Or: "or it may be made into ointment with wax and oil"; a puzzling sentence with a parenthesis of uncertain length, *Detlefsen* ending it at *inlinatur*.

with wax. Power to disperse is possessed by pigeon's dung, applied by itself or with barley meal or with oatmeal. Cantharides mixed with lime remove superficial abscesses as well as the lancet; swelling of the groin is relieved by an application of small snails with honey.

XXIII. To prevent varicose veins the legs of children are rubbed with lizard's blood, but both patient and rubber must be fasting. Gouty pains are soothed by oesypum with woman's milk and white lead, by the dung of sheep that they pass liquid, by lungs of sheep, by ram's gall with ram's suet, by mice split and laid on the parts, by blood of a weasel applied with plantain and the ash of a weasel burnt alive with vinegar and rose oil—the remedy should be applied with a feather even ^a if wax and oil are made ingredients—by dog's gall, which must not be touched by hand but applied with a feather, by dung of hens, by ash of earth-worms with honey, taken off on the third day. Some prefer to apply the worms in water, others prefer to rub the feet first with rose oil and then to apply without water an acetabulum ^b of worms with three cyathi of honey. Snails of the broad kind taken in drink are said to banish pains of the feet and joints; the dose is two pounded in wine. They are also applied with juice of the plant helxine; some are content to beat them up in vinegar. Salt, burnt ^c with a viper in a new jar and taken fre-

*Varicose
veins, gout
etc.*

^b With Detlefsen's reading: "they macerate the worms themselves in vinegar."

^c I have added daggers because, although the sense is plain, the actual words of Pliny are more than uncertain. The origin of the trouble seems to be the intrusion of *quidam* repeated from the preceding sentence. Pliny may be referring to salt in which a viper has been preserved; cf. § 117.

PLINY: NATURAL HISTORY

podagra liberari, utile esse et adipe viperino pedes
78 perungui. et de milvo adfirmant, si inveterato trito-
que quantum tres digiti capiant bibatur ex aqua, aut
si pedes sanguine eius perunguantur. inlinuntur et
columbarum sanguine¹ cum urtica, vel pennis carum
cum primum nascentur tritis cum urtica. quin et
fimus earum articulorum doloribus inlinitur, item
cinis mustelae aut coclearum, et cum amylo vel
tragacantha. incussos articulos aranei telae com-
modissime curant. sunt qui cinere earum uti malint
sicut fimi columbini cinere cum polenta et vino albo.
79 articulis luxatis praesentaneum est sebum pecudis
cum cinere e capillo mulierum. pernionibus quoque
inponitur sebum pecudum cum alumine, canini
capitis cinis aut fimi murini. quod si pura sint,
ulcera cera addita ad cicatricem perducunt . . .² vel
glirium crematorum favilla ex oleo, item muris silva-
tici cum melle, vermium quoque terrenorum cum
oleo vetere et cocleae quae nudae inveniuntur.
80 ulcera omnia pedum sanat cinis earum quae vivae
combustae sint, fimi gallinarum cinis, exulcerationes
columbini fimi ex oleo. adtritrus calciamentorum
veteris soleae³ cinis, agninus pulmo et arietis sanant,
dentis caballini contusi farina privatim subluviem,
lacertae viridis sanguis subtritrus et hominum et

¹ eius perunguantur . . . sanguine *add. Mayhoff*: milvi vel columbarum unguantur *Urlichs, Detlefsen*: lacunam indicat *Sillig*.

² *Ego lacunam indico*: soricum *add. Mayhoff*.

³ soleae *vulg. e Pl. iun. et Marcello*: soli *RdE, Detlefsen*.

^a I have translated the words added by Mayhoff, because they are rather more likely than the addition of Urlichs adopted by Detlefsen.

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PLINY: NATURAL HISTORY

iumentorum pedes sublitus, clavos pedum urina muli
mulaeve cum luto suo inlita, fimum ovium, iocur
lacertae viridis vel sanguis flocco inpositus, vermes
terreni ex oleo, stelionis caput cum viticis pari modo
triturum ex oleo, fimum columbinum decoctum ex
81 aceto, verrucas omnium generum urina canis recens
cum suo luto inlita, fimi canini cinis cum cera, fimum
ovium, sanguis recens murinus inlitus vel ipse mus
divolsus, irenacei fel, caput lacertae vel sanguis vel
cinis totius, membrana senectutis anguium, fimum
gallinae cum ¹ oleo ac nitro. cantharides cum uva
taminia intritae exedunt, sed ita erosas aliis quae ad
persananda ulcera demonstravimus curari oportet.
82 XXIV. Nunc praevertemur ad ea quae totis cor-
poribus metuenda sunt. fel canis nigri masculi
amuletum esse dicunt Magi domus totius suffitae eo
purificataeve contra omnia mala medicamenta, item
sanguinem ² canis respersis parietibus genitaleque ³
eius sub limine ianuae defossum.⁴ minus mirentur
hoc qui sciunt foedissimum animalium in quantum
magnificent ricinum, quoniam uni nullus sit exitus
saginae nec finis alia quam morte, diutius in fame
viventi. septenis ita diebus durasse tradunt, at in
83 satietate paucioribus dehiscere; hunc ex aure sinistra
canis omnes dolores sedare adalligatum. indicium

¹ gallinae cum *Mayhoff*: gallinaceum (*sine cum*) *Detlefsen et VE*: gallinaceum cum R d.

² sanguinem V, *Detlefsen, Mayhoff*: sanguine *plerique codd.*

³ genitaleque *Sillig, Detlefsen, Mayhoff*: genitalique *codd.*

⁴ defossum *Detlefsen, Mayhoff, multi codd.*: defosso d (?) E.

^a I have kept with misgiving the readings of both *Detlefsen* and *Mayhoff*: ablatives absolute are perhaps more likely, for

the feet by applying the urine of a mule, male or female, with the mud made by it, by the dung of sheep, by the liver or blood of a green lizard laid on a piece of wool, by earth-worms in oil, by the head of a spotted lizard with an equal quantity of *agnus castus* beaten up in oil, by pigeon's dung boiled down in vinegar; all kinds of warts are cured by fresh dog's urine applied with its mud, by the ash of dog's dung with wax, by the dung of sheep, by the application of fresh mouse-blood, or of a mouse itself torn asunder, by the gall of a hedgehog, by the head or blood of a lizard or the ash of the whole creature, by the slough of snakes, or by the dung of a hen with oil and soda. Cantharides beaten up with Taminian grapes eat away warts, but when corroded in this way they must be treated by the other remedies I have prescribed for the complete healing of ulcers.

XXIV. Now I will turn to those ills that threaten the whole body. The Magi say that the gall of a black male dog, if a house is fumigated or purified with it, acts as a talisman protecting all of it from sorcerers' potions; it is the same if the inner walls are sprinkled with the dog's blood or his genital^a organ is buried under the threshold of the front door. Those would wonder less at this who know how highly the Magi extol that very loathsome animal the tick, on the ground that it is the only creature that has no vent for its gorging, nor yet any end save at death, living longer if it starves; they tell us that so it lasts for seven days, but if they eat to satiety they burst in a shorter time. They add that a tick from the left ear of a dog, worn as an amulet, relieves all *que* after a short *e* is most unusual. See Önnersfors, *Pliniana* p. 164.

*Diseases of
the whole
body.*

PLINY: NATURAL HISTORY

in augurio vitalium habent, nam si aeger ei respondeat qui intulerit a pedibus stanti interrogantique de morbo, spem vitae certam esse, moriturum nihil respondere. adiciunt ut evellatur ex aure laeva
84 canis cui non sit alius quam niger color. Nigidius fugere toto die canes conspectum eius qui e sue id animal evellerit scriptum reliquit. rursus Magi tradunt lymphatos sanguinis talpae adpersu resipiscere, eos vero qui a nocturnis diis Faunisque agitentur draconis lingua et oculis et felle intestinisque in vino et oleo decoctis ac sub diu nocte refrigeratis perunctionibus matutinis vespertinisque liberari.

85 XXV. Perfrictionibus remedio esse tradit Nicander amphisbaenam serpentem mortuam adalligatam vel pellem tantum eius, quin immo arbori quae caedatur adalligata non algere caedentes faciliusque sic caedere. ita¹ sola serpentium frigori se committit, prima omnium procedens et ante cuculi cantum. aliud est cuculo miraculum: quo quis loco primum audiat alitem illam si dexter pes circumscribatur ac vestigium id effodiatur, non gigni pulices ubicumque spargatur.

86 XXVI. Paralysim caventibus pinguia glirium decoctorum et soricum utilissima tradunt esse, milipedas ut in angina diximus potas; phthisim sentientibus² lacertam viridem decoctam in vini sextariis

¹ ita E: itaque VRd *vulg.*: ista *Detlefsen*: ita. quae *Mayhoff*.

² *Post* sentientibus *dist. plerique editores; post potas cum Pl. iun. et Marcello Mayhoff.*

^a *Theriaca* 377 foll. So named because it could move backwards or forwards.

^b § 35.

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PLINY: NATURAL HISTORY

tribus ad cyathum unum, singulis coclearibus sumptis
per dies donec conualescant, coclearum cinerem
87 potum in vino, XXVII. comitialibus morbis oesy-
pum cum murrae momento et vini cyathis duobus
dilutum magnitudine nucis abellanae, a balneo
potum, testiculos arietinos inveteratos tritosque
dimidio denarii pondere in aquae vel lactis asinini
hemina. interdicitur vini potus quinque diebus ante
88 et postea. magnifice laudatur et sanguis pecudum
potus, item fel cum melle, praecipue agninum, catulus
lactens sumptus absciso capite pedibusque ex vino et
murra, lichen mulae potus in oxymelite cyathis tribus,
stelionis transmarini cinis potus in aceto, tunricula
stelionis, quam eodem modo ut anguis exiit, in potu.
quidam et ipsum harundine exinteratum invetera-
tumque bibendum dederunt, alii, in cibo ligneis veri-
89 bus inassatum. operae pretium est scire quomodo
praeripiatur, cum exuatur, membrana hiberna alias
devoranti eam, quoniam nullum animal fraudulentius
invidere homini tradunt, inde stelionum nomine in
maledictum translato. observant enbile eius aestati-
bus—est autem in loricis ostiorum fenestrarumque
aut camaris sepulchrisve—ibi vere incipiente fissis
harundinibus textas opponunt ceu nassas¹ quarum
angustiis etiam gaudet, eo facilius exuens circum-
datum torporem. sed relicto non potest remeare.
90 nihil ei remedio in comitialibus morbis praefertur.
prodest et cerebrum mustelae inveteratum potum-

¹ ceu nassas *Mayhoff*: casas *vulg.*, *Detlefsen*: quassas *codd.*

^a A metaphorical meaning of *stelio* is “crafty person,” or “knave.”

^b *Mayhoff* makes a good emendation, for *massa* was a funnel-shaped trap into which fish could enter but from which they could not escape.

cyathus, the daily dose being one spoonful until convalescence, or the ash of snails taken in wine; XXVII. for epilepsy wool-grease with a morsel of myrrh, diluted with two cyathi of wine, a piece the size of a hazel nut being taken in drink, after the bath, or the testicles of a ram dried and pounded, half a denarius by weight being taken in a hemina of water or of ass's milk; to drink wine is forbidden for five days before and after. Very highly praised also is the blood of sheep, taken by the mouth, the gall of sheep, especially of a lamb, with honey, a sucking puppy taken in wine and myrrh after the head and feet have been cut off, the excrescence on the leg of a she-mule taken in three cyathi of oxymel, the ash of a spotted lizard from overseas taken in vinegar, the coat of a spotted lizard, which it casts in the same way as a snake, taken in drink. Some have also given in drink the lizard itself, gutted with a reed and dried, others in food the lizard roasted on wooden spits. It is worth while knowing how, when cast, the winter skin is hastily taken from the lizard, which otherwise devours it, for no living creature, they say, shows greater spite in cheating man, for which reason its name ^a has been turned into a term of abuse. They note in the summer time its nest, which is in the cornices over doors and windows, or in vaults or tombs. Over against the nest in the beginning of spring they place cages like weels ^b woven with split reeds, the narrow neck of which gives the creature actual delight, as thereby it casts off more easily the encumbrance of its covering, but when this has been left no return is possible. No remedy for epilepsy is preferred to this. A good one too is a weasel's brain dried and taken in drink, or a

PLINY: NATURAL HISTORY

que et iocur eius, testiculi volvaeque aut ventriculus inveteratus cum coriandro, ut diximus, item cinis, silvestris vero tota in cibo sumpta. eadem omnia praedicantur ex viverra. lacerta viridis cum condimentis quae fastidium abstergeant, ablatis pedibus et capite, coclearum cinis addito semine lini et
91 urticae cum melle unctu sanant. Magis placet draconis cauda in pelle dorcadis adalligata cervinis nervis vel lapilli e ventre hirundinum pullorum sinistro lacerto adnexi. dicuntur enim excluso pullo lapillum dare. quod si pullus is detur in cibo, quem primum pepererit, cum quis primum temptatus sit, liberatur eo malo. postea medetur hirundinum sanguis cum ture vel cor recens devoratum. quin et e nido carum lapillus inpositus recreare dicitur
92 confestim et adalligatus in perpetuum tueri. praedicatur et iocur milvi devoratum et senectus serpentium, iocur vulturis tritum cum suo sanguine ter septenis diebus potum, cor pulli vulturini adalligatum. sed et ipsum vulturem in cibo dari iubent et quidem satiatum humano cadavere. quidam pectus eius bibendum censent in cerrino calice, aut testes gallinacei ex aqua et lacte, antecedente quinque dierum abstinentia vini, ob id inveteratos.¹ fuere et qui viginti unam muscas rufas, et quidem a mortuo,² in potu darent, infirmioribus pauciores.

¹ inveteratos *vulg.*: inveterant *Mayhoff*: inveterate aut inveteratae *codd.*

² a mortuo *Er Detlefsen, Mayhoff*: mortuas *Sillig.*

^a Pliny XXIX. § 60.

^b The verb *devorare*, literally to swallow or devour, seems sometimes, at least in Pliny, to be a synonym of *edere*.

^c With the reading *mortuas*: "dead flies."

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PLINY: NATURAL HISTORY

93 XXVIII. Morbo regio resistunt sordes aurium aut
mammarum pecudis denarii pondere cum murrae
momento et vini cyathis duobus, canini capitis cinis
in mulso, multipeda in vini hemina, vermes terreni
in aceto mulso cum murra, gallina, si sit luteis pedi-
bus, prius aqua purificatis, dein collutis vino quod
94 bibatur, cerebrum perdicis aut aquilae in vini cyathis
tribus, cinis plumarum aut interaneorum palumbis in
mulso ad coclearia tria, passerum cinis sarmentis
crematorum coclearibus duobus in aqua mulsa.
avis icterus vocatur a colore, quae si spectetur, sanari
id malum tradunt et avem mori. hanc puto Latine
vocari galgulum.

95 XXIX. Phreneticis prodesse videtur pulmo pecu-
dum calidus circa caput alligatus. nam muris cere-
brum dare potui ex aqua aut cinerem mustelae vel
etiam inveteratas carnes irenacei quis possit furenti,
etiamsi certa sit medicina? bubonis quidem ocu-
lorum cinerem inter ea quibus prodigiose vitam ludi-
ficantur acceperim, praecipueque febrium medicina
96 placitis eorum renuntiat. namque et in duodecim
signa digessere eam sole transmeante iterumque luna,
quod totum abdicandum paucis exemplis docebo,
siquidem crematis tritisque cum oleo perungui
inbent aegros, cum geminos transit sol, cristis et

^a The golden oriole.

XXVIII. Jaundice is combated by dirt from the ears or teats of a sheep, the dose being a denarius by weight with a morsel of myrrh and two cyathi of wine, by the ash of a dog's head in honey wine, by a millepede in a hemina of wine, by earthworms in oxymel with myrrh, by drinking wine that has rinsed a hen's feet—they must be yellow—after they have been cleansed with water, by the brain of a partridge or eagle taken in three cyathi of wine, by the ash of the feathers or intestines of a wood-pigeon taken in honey wine up to three spoonfuls, or by the ash of sparrows burnt over twigs taken in two spoonfuls of hydromel. There is a bird called "jaundice" from its colour. If one with jaundice looks at it, he is cured, we are told, of that complaint and the bird dies. I think that this bird is the one called in Latin "galgulus." ^a

Cures for jaundice.

XXIX. For brain-fever appears to be beneficial a sheep's lung wrapped warm round the patient's head. But who could give to one delirious the brain of a mouse to be taken in water, or the ash of a weasel, or even the dried flesh of a hedgehog, even if the treatment were bound to be successful? As for the eyes of the horned owl reduced to ash, I should be inclined to count this remedy as one of the frauds with which magicians mock mankind, and it is especially in fevers that true medicine is opposed to the doctrines of these quacks. For they have actually divided the art according to the passing of the sun, and also that of the moon, through the twelve signs of the Zodiac. That the whole theory should be rejected I will show by a few examples. If the sun is passing through Gemini, they recommend the sick to be rubbed with the combs, ears, and

Phrenitis, etc., Magical cures.

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auribus et unguibus gallinaceorum, si luna, radiis
97 barbisque eorum; si virginem alteruter, hordei
granis, si sagittarium, vespertilionis alis, si leonem
luna, tamaricis fronde, et adiciunt sativae, si aquar-
ium, e buxo carbonibus tritis. ex istis confessa aut
certe verisimilia ponemus, sicuti lethargum olfac-
toriiis excitari et inter ea fortassis mustelae testiculis
inveteratis¹ aut iocinere usto. his quoque pulmonem
pecudis calidum circa caput adalligari putant utile.

98 XXX. In quartanis medicina clinice propemodum
nihil pollet. quamobrem plura eorum² remedia
ponemus primumque ea quae adalligari iubent:
pulverem in quo se accipiter volutaverit lino rutilo in
lineteolo, canis nigri dentem longissimum. pseudo-
sphecem vocant vespam quae singularis volitat, hanc
sinistra manu adprehensam subnectunt, alii vero
quam quis eo anno viderit primam, viperae caput
abscissum in lineteolo vel cor viventi exemptum,
99 muris rostellum auriculasque summas russeo panno
ipsumque dimittunt, lacertae vivae dextrum oculum
effossum, muscam capite suo deciso in pellicula
caprina, scarabaeum qui pilulas volvit. propter
hunc Aegypti magna pars scarabaeos inter numina
colit, curiosa Apionis interpretatione, qua colligat
Solis operum similitudinem huic animali esse, ad

¹ inveteratis *vulg.*, *Mayhoff*: inveteratum *codd.*, *Detlefsen*.

² eorum] Magorum *coni.* *Warmington*.

^a See List of Diseases.

^b Literally: "bed-side medicine."

^c "Bastard wasp."

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100 excusandos gentis suae ritus. sed et alios adalli-
gant Magi: cui sunt cornicula reflexa, sinistra manu
collectum; tertium, qui vocatur fullo, albis guttis,
dissectum utrique lacerto adalligant, cetera sinistro;
cor anguium sinistra manu exemptum viventibus,
scorpionis caudae quattuor articulos cum aculeo,
panno nigro, ita ut nec scorpionem dimissum nec eum
qui adalligaverit videat aeger triduo, post tertium
101 circuitum id condat. erucam in linteolo ter lino cir-
cumdant totidem nodis ad singulos dicente quare
faciat qui medebitur, limacem in pellicula vel quat-
tuor limacum capita praecisa harundine, multi-
pedam lana involutam, vermiculos ex quibus tabani
fiunt, antequam pennas germinent, alios e spinosis
frutectis lanuginosos. quidam ex illis quaternos
102 inclusos iuglandis nucis putamine adalligant. cocleas
quae nudaee inveniuntur, stelionem inclusum¹ cap-
sulis subiciunt capiti et sub decessu febris emittunt.
devorari autem iubent cor mergi marini sine ferro
exemptum inveteratumque conteri et in calida aqua
bibere, hirundinum corda cum melle, alii fimum
drachma una in lactis caprini vel ovilli vel passo
cyathis tribus ante accessiones, sunt qui totas cen-
103 seant devorandas. aspidis cutem pondere sexta

¹ inclusum d(?) *vulg.*: inclusos *Detlefsen*: cum incluserunt
Mayhoff: incluserant VRE.

^a "The fuller."

^b The plural *capsulis* because two kinds of amulet are referred to.

its revolutions, seeking to find an excuse for the religious customs of his race. But the Magi also make amulets of other beetles. There is one with bent-back little horns, which they take up in the left hand; a third kind, called *fullo*,^a with white spots, they cut in two and wear as an amulet on either upper arm; all the rest are worn on the left arm; the heart, taken out with the left hand from a living snake; four joints of a scorpion's tail, with the sting, wrapped in black cloth, care being taken that the sick man does not see, for three days, either the scorpion when set free or him who attaches the amulet; after the third paroxysm he must hide it away. They tie a thread three times round a caterpillar in a linen cloth, and with three knots, the ministering attendant saying at each knot the reason for so doing. Other amulets are: a slug in a piece of skin, or four slugs' heads cut off with a reed, a multipede wrapped up in wool, the grubs from which gad-flies are born, before they develop wings, or other hairy grubs found on thorny bushes. Some shut up four of these grubs in a walnut shell and attach as an amulet. Snails that are found without shells, or a spotted lizard shut up in a little box,^b they place under the patient's head and let out when the fever goes down. They also recommend the heart of a sea-diver, cut out without iron, dried and pounded, to be taken in warm water, or the hearts of swallows with honey; others swallows' dung in doses of one drachma in three cyathi of goat's or sheep's milk or in raisin wine, to be taken before the paroxysms. Some hold that the entire swallow should be taken. An asp's skin, in doses of one sixth of a denarius by weight with an equal quantity

PLINY: NATURAL HISTORY

parte denarii cum piperis pari modo Parthorum gentes in remedium quartanae bibunt. Chrysippus philosophus tradidit phryganion adalligatum remedio esse quartanis. quod esset animal neque ille descripsit nec nos invenimus qui novisset. demonstrandum tamen fuit a tam gravi auctore dictum, si cuius cura
104 efficacior esset inquirendi. cornicis carnes esse et nidum¹ inlinere in longis morbis utilissimum putant. et in tertianis fiat potestas experiendi, quoniam miserias copia spei delectat, anne aranei, quem lycon vocant, tela cum ipso in spleniolo resinae ceraeque inposita utrisque temporibus et fronti prosit, aut ipse calamo adalligatus, qualiter et aliis febribus prodesse traditur, item lacerta viridis adalligata viva in eo vase quod capiat, quo genere et recidivas frequenter abigi adfirmant.

105 XXXI. Hydropicis oesypum ex vino addita murra modice potui datur, nucis abellanae magnitudine. aliqui addunt et anserinum adipem ex vino myrteo. sordes ab uberibus ovium eundem effectum habent, item carnes inveteratae irenacei sumptae. vomitus quoque canum inlitis ventri aquam trahere promittitur.

106 XXXII. Igni sacro medetur oesypum cum pompholyge et rosaceo, ricini sanguis, vermes terreni ex aceto inliti, grillus contritus in manibus—quo genere praestat ut qui id fecerit, antequam incipiat

¹ nidum] *coni. fimum Warmington.*

^a Chrysippus of Soli was the third head of the Stoic school.

^b With Warmington's emendation: "dung."

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vitium, † toto eo anno accidat; †¹ oportet autem eum ferro cum terra cavernae suae tolli—anseris adeps, viperæ caput aridum adservatum et combustum, dein ex aceto inpositum, senectus serpentium ex aqua inlita a balneo cum bitumine et sebo agnino.

107 XXXIII. Carbunculus fimo columbino aboletur per se inlito vel cum lini semine ex aceto mulso, item apibus quæ in melle sint mortuæ inpositis polentaque inspersa.² si in verendis sit ceterisque ibi ulceribus occurrit ex melle oesypum cum plumbi squamis, item fimum pecudum incipientibus carbunculis. tubera et quaecumque molliri opus sit efficacissime anserino adipe curantur, idem præstat et gruum adeps.

108 XXXIV. Furunculis mederi dicitur araneus priusquam nominetur³ inpositus et tertio die solutus, mus araneus pendens enecatus sic ut terram ne postea attingat, ter circumlatus furunculo, totiens expuentibus medente et cui is medebitur, ex gallinaceo fimo quod est rufum maxime recens inlito ex aceto, ventriculus ciconiæ ex vino decoctus, muscæ in pari numero infricatae digito medico, sordes ex pecudum auriculis, sebum ovium vetus cum cinere

¹ toto eo anno accidat] *obelos ego addo* : toto eo anno non accipiat *Detlefsen* : toto ei anno non accidat *Mayhoff*, qui ne *pro ut ante qui coni.*

² inspersa *Detlefsen* : inposita insuper *Mayhoff* : inposita inspersa *codd.* (si *add. E.*)

³ nominetur *codd.*, *Mayhoff* : stamen netur *Detlefsen.*

^a With the MSS. reading *accidat* there is required a dative, but *Mayhoff's ei* is strangely placed, while *Detlefsen's accipiat* is not very attractive. *Mayhoff's ne* for *ut* would obviate the addition of *non*. *Warmington* translates: "in this connection it guarantees that he who succeeds in doing this. . . ."

tected from an attack for the whole of that year,^a but the cricket must be lifted with iron along with the earth of its hole—by goose grease, by the head of a viper, kept till dry, burnt, and then applied in vinegar, by a serpent's slough applied in water with bitumen and lamb suet after a bath.

XXXIII. A carbuncle is removed by pigeon's dung, applied by itself or with linseed in oxymel, also by bees that have died in honey, applied and sprinkled with pearl barley. If a carbuncle or other sore is on the privates, the remedy is wool grease with lead scales^b in honey, and sheep dung for incipient carbuncles. Hard swellings and whatever needs to be softened are treated very efficaciously with goose grease, and equally good results are also given by the grease of cranes. *Carbuncle*

XXXIV. Boils are said to be cured by a spider, applied before its name has been mentioned^c and taken off on the third day, by a shrew mouse, killed and hung up so that it does not touch earth after death, and passed three times round the boil, both the attendant and the patient spitting the same number of times, by the red part of poultry dung, best applied fresh in vinegar, by a stork's crop boiled down in wine, by an odd number of flies rubbed on with the medical finger^d by dirt from the ears of sheep, by stale mutton^e suet with the ash of woman's *Boils.*

^b Some oxide of lead.

^c With Detlefsen's emendation: "before its web is spun." This is a clever conjecture, but we should expect the subjunctive, while "naming" is not unusual in magical remedies.

^d The finger next the little finger.

^e Perhaps here "suet of ewes," because of *pecudum* preceding. See § 123.

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capilli mulierum, sebum arietis cum cinere pumicis et salis pari pondere.

109 XXXV. Ambustis canini capitis cinis medetur, item glirium cum oleo, fimum ovium cum cera, murium cinis, coclearum quoque sic ut ne cicatrix quidem appareat, adips viperinus, fimi columbini
 110 cinis ex oleo inlitis, XXXVI. nervorum nodis capitis viperini cinis in oleo cyprino, terreni vermes cum melle inliti. dolores eorum <sedat . . .>¹ adips, amphisbaena mortua adalligata, adips vulturinus cum ventre arefactus tritusque cum adipe suillo inveterato, cinis e capite bubonis in mulso potus cum lilii radice, si Magis credimus. in contractione nervorum caro palumbina in cibis prodest [et]² inveterata, irenacei spasticis, item mustelae cinis—serpentium senectus in pelle taurina adalligata spasmos fieri prohibet—opisthotonicis milvi iocur aridum tribus obolis in aquae mulsae cyathis tribus potum.

111 XXXVII. Reduvias et quae in digitis nascuntur pterygia tollunt canini capitis cinis aut vulva decocta in oleo, superinlito butyro ovillo cum melle, item folliculus cuiuslibet animalium fellis, unguium scabritiam cantharides cum pice tertio die solutae aut locustae frictae cum sebo hircino, pecudum sebum.

¹ sedat . . . *add. Mayhoff.*

² *et delere velim.*

^a Here the name of an animal must be supplied.

^b If *et* is kept it must, I think, mean “even.” But it seems to be a duplication from *-est*.

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aliqui miscent viscum et porcillacam, alii aeris florem et viscum ita ut tertio die solvant.

112 XXXVIII. Sanguinem sistit in naribus sebum ex omento pecudum inditum, item coagulum ex aqua, maxime agninum subductum vel infusum, etiam si alia non prosint, adipis anserinus cum butyro pari pondere pastillis ingestus, coclearum terrena, sed et ipsae extractae testis; e naribus fluentem cocleae contritae fronti inlitae, aranci telae, gallinacei cerebellum vel sanguis profluvia ex cerebro, item columbinus ob id servatus concretusque. si vero ex vulnere inmodice fluat, fimi caballini cum putaminibus ovorum cremati cinis inpositus mire sistit.

113 XXXIX. Ulceribus medetur oesypum cum hordei cinere et aerugine aequis partibus, ad carcinomata quoque ac serpentia valet. erodit et ulcerum margines, carnesque excrescentes ad aequalitatem redigit. explet quoque et ad cicatricem perducit. magna vis et in cinere pecudum fimi ad carcinomata, addito nitro, aut in cinere ex ossibus feminum agnitorum, praecipue in his ulceribus quae cicatricem non trahunt, magna et pulmonibus, praecipue arietum: carnes excrescentes in ulceribus ad aequalitatem
114 efficacissime reducunt; fimo quoque ipso ovium sub testo calefacto et subacto tumor vulnerum sedatur, fistulae purgantur sananturque, item epinyctides. summa vero in canini capitis cinere: excrescentia

^a Red oxide of copper.

^b If there is any difference between *in naribus* here and *ex naribus* a few lines further on (this repetition may be carelessness), the second will denote a more violent flow of blood.

^c I.e. from the skull.

^d Night rashes. See List of Diseases.

mistletoe and purslane, others flowers of copper ^a and mistletoe, but remove the application on the third day.

XXXVIII. Bleeding in the nostrils ^b is arrested by *Epistaxis.* inserting suet from the cawl of a sheep, also by its rennet in water, especially by lamb's rennet, snuffed up or injected, even if other remedies do no good, by goose grease with an equal quantity of butter worked up into lozenges, by the earth off snails, but also by the actual snails themselves, taken from their shells; but when there is severe epistaxis it is stayed by snails beaten up and applied to the forehead, and also by spider's web; by the brain or blood of a cock are arrested fluxes from the brain,^c also by pigeon's blood; it is stored and congealed for this purpose. If however there is violent haemorrhage from a wound, it is wonderfully arrested by an application of the ash of horse-dung burnt with egg shells.

XXXIX. Ulcers are healed by wool grease, barley *Ulcers.* ash, and copper rust, in equal parts; this is also equally efficacious for carcinomata and spreading sores. It cauterizes too the edges of ulcers, and levels out excrescences in the flesh; it also fills up hollows and forms scars. There is also great power to heal carcinomata in the ash of sheep's dung with soda added, or in the ash of a lamb's thigh bones, especially when ulcers refuse to cicatrize. There is great power too in the lungs, especially those of rams, which flatten out very efficaciously excrescences of flesh on ulcers; ewe dung too by itself, warmed under an earthen jar and kneaded, reduces swollen wounds, and cleans and heals fistulas and epinyctides.^d The greatest power, however, is in the ash of a dog's head, which cauterizes and

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omnia spodii vice erodit ac persanat. et murino
fimo eroduntur, item mustelae fimi cinere. duritias
in alto ulcerum et carcinomata persequitur multipeda
trita admixta resina terebinthina et sinopide. eadem
utilissima sunt in his ulceribus quae vermibus peri-
115 clitentur. quin et vermium ipsorum genera miran-
dos usus habent. cosses qui in ligno nascuntur sanant
ulcera omnia, nomas vero combusti cum pari pondere
anesi ex oleo inliti. vulnera recentia conglutinant
terreni adeo ut nervos quoque abscisos inlitis solidari
intra septimum diem persuasum sit; itaque in melle
servandos censent. cinis eorum margines ulcerum
duriores absumit cum pice liquida vel symphyto et
116 melle. quidam arefactis in sole ad vulnera ex aceto
utuntur nec solvunt nisi biduo intermisso. eadem
ratione et coclearum terrena prosunt, totaeque
exemptae recentia vulnera tusae inpositae con-
glutinant et nomas sistunt. herpes quoque animal a
Graecis vocatur quo praecipue sanantur quaecumque
serpunt. cocleae quoque prosunt eis cum testis suis
tusae, cum murra quidem et ture etiam praecisos
117 nervos sanare dicuntur. draconum quoque adeps sic-
catus in sole magnopere prodest, item gallinacei cere-
brum recentibus plagis. sale viperino in cibo sumpto
tradunt et ulcera tractabiliora fieri ac celerius sanari.
Antonius quidem medicus cum incidisset insanabilia
ulcera, viperas edendas dabat miraque celeritate per-

^a See List of Diseases.

^b Perhaps: "on the same principle."

^c See List of Diseases.

^d It means "the creeper." Unidentified.

^e The salt in which vipers were preserved. Has *sale* arisen from *sole* above?

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sanabat. trixallidum cinis margines ulcerum duros aufert cum melle, item fimi columbini cinis cum arrhenico et melle; eadem¹ quae erodenda sunt. 118 bubonis cerebrum cum adipe anserino mire vulnera² dicitur glutinare, quae vero vocantur cacoethe cinis feminum arietis cum lacte muliebri, diligenter prius elutis linteolis, ulula avis cocta in oleo, cui liquato miscetur butyrum ovillum et mel. ulcerum labra duriora apes in melle mortuae emolliunt, et elephantiasin sanguis et cinis mustelae. verberum vulnera atque vibices pellibus ovium recentibus inpositis obliterantur.

119 XL. Articulorum fracturis cinis feminum pecudis peculiariter medetur cum cera—efficacius idem medicamentum fit maxillis simul ustis cornuque cervino et cera mollita rosaceo—ossibus fractis caninum cerebrum linteolo inlito, superpositis lanis quae subinde³ subfundantur, fere XIII diebus solidat, nec tardius cinis silvestris muris cum melle aut vermium terrenorum, qui et ossa extrahit.

120 XLI. Cicatrices ad colorem reducit pecudum pulmo, praecipue ex ariete, sebum ex nitro, lacertae viridis cinis, vernatio anguium ex vino decocta,

¹ eadem quae erodenda sunt *codd.*: ea quae erodenda sunt *vulg.*, *Detlefsen*: eademque erodentia sunt *Mayhoff*.

² vulnera *codd. et edd.*: ulcera *coni. Mayhoff*.

³ *Inter* subinde et subfundantur *add. oleo Mayhoff*: subinde oleo fundantur *coni. Warmington*.

with wonderful rapidity. The ash of the trixallis^a with honey removes hard edges on ulcers, as does ash of pigeon's dung with arsenic and honey; these also remove all that needs a cautery.^b The brain of a horned owl with goose grease is said to unite wounds wonderfully, as, with woman's milk, does the ash of a ram's thighs the ulcers called malignant, but the cloths must be first carefully washed, or the screech owl boiled in oil, with which when melted down are mixed ewe butter and honey. The lips of ulcers that are too hard are softened by bees that have died in honey, and elephantiasis by the blood and ash of a weasel. Wounds and weals made by the scourge are removed by an application of fresh sheep-skin.

XL. For fractures of the joints a specific is the ash of a sheep's thighs with wax—this medicament is more efficacious if there are burnt with the thighs the sheep's jawbones and a deer's horn, and the wax is softened with rose oil—specific for broken bones is a dog's brain, spread on a linen cloth, over which is placed wool, occasionally moistened underneath (with oil). In about fourteen days it unites the broken parts, as does quite as quickly the ash of a field-mouse with honey, or that of earth-worms, which also extracts fragments of bone. *Fractures.*

XLI. Scars are restored to the natural colour by the lungs of sheep, particularly of rams, by their suet in soda, by the ash of a green lizard, by a snake's slough boiled down in wine, and by pigeon's dung *Scars and skin disea.*

^a See § 49. Antonius is perhaps Antonius Castor (XXV. § 9).

^b The reading of the MSS. can be just construed, with *eadem* subject, and *ea auferunt* understood.

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fimum columbinum cum melle, item ¹ vitilignes albas ex vino, vitiliginem et cantharides cum rutae foliorum duabus partibus. in sole, donec formicet cutis, tolerandae sunt, postea fovere oleoque perunguere necessarium iterumque inlinire, idque pluribus diebus
121 facere, caventes exulcerationem altam. ad easdem vitilignes et muscas inlini inbent cum radice eupatoriae,² gallinarum fimi candidum servatum in oleo vetere cornea pyxide, vespertilionis sanguinem, fel irenacei ex aqua. scabiem vero bubonis cerebrum cum aphronitro, sed ante omnia sanguis caninus sedant, pruritus cocleae minutae latae contritae inlitae.

122 XLII. Harundines et tela quaeque alia extrahenda sunt corpori evocat mus dissectus inpositus, praecipue vero lacerta dissecta, et vel caput tantum eius contusum cum sale inpositum, cocleae ex his quae gregatim folia sectantur contusae inpositaeque cum testis et eae quae manduntur exemptae testis, sed cum leporis coagulo efficacissime ossa anguium. eadem cum coagulo cuiuscumque quadripedis intra tertium diem adprobant effectum. laudantur et cantharides tritae cum farina hordei.

123 XLIII. In muliebribus malis membranae a partu ovium proficiunt, sicut in capris rettulimus. fimum quoque pecudum eosdem usus habet. locustarum

¹ item *codd. et edd.* : idem *coni. Mayhoff.*

² eupatoriae *Sillig coll. XXV. § 65* : lupatoria *codd.*

^a There were distinguished by the Romans three kinds of *vitiligo* (psoriasis) : the dull white, the dark, and the bright white.

^b The word *easdem* seems to include both the *vitilignes albas* and the *vitiliginem* of § 120.

^c Perhaps : " bits of reed."

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suffitu stranguriae maxume mulierum iuvantur. gallinaceorum testes si subinde a conceptu edat mulier, mares in utero fieri dicuntur. partus conceptos hystricum cinis potus continet, maturat caninum lacte potum, evocat membrana e secundis canum, si terram non attigerit, lumbis parturientium
124 tactis.¹ fimum murinum aqua pluvia dilutum mammas mulierum a partu tumentes reficit. cinis irenaceorum cum oleo perunctarum custodit partus contra abortus. facilius enituntur quae . . .² anserinum cum aquae duobus cyathis sorbuere, aut ex ventriculo
125 mustelino per genitale effluentes aquas. vermes terreni inliti ne cervicis scapularumque nervi doleant praestant. graves secundas pellunt in passo poti. idem per se inpositi mammaram suppurationes concocunt et aperiunt extrahuntque et ad cicatricem perducunt. lac evocant poti cum mulso. inveniuntur et in gramine vermiculi qui adalligati collo continent partum, detrahuntur autem sub partu, alias eniti non patiuntur. cavendum et ne in terra ponantur. conceptus quoque causa dantur in potu
126 quini aut septeni. cocleae in cibo sumptae accelerant partum, item conceptum inpositae cum croco. eaedem ex amylo et tragacantha inlitaeprofluvia sistunt. prosunt et purgationibus sumptae in cibo et vulvam aversam corrigunt cum medulla cervina ita ut uni cocleae denarii pondus addatur et

¹ tactis *Detlefsen, Mayhoff*: lactis aut potus lactis *codd.*

² lacunam indicat *Mayhoff*: cum VRE: adipem d T: *del. Detlefsen*; serum *Brakman*.

^a The *serum* (i.e. semen) of *Brakman* may be right.

^b See *Index of Plants* in vol. VII.

medicinal uses. Fumigation with lobsters is of the greatest help in strangury in women. If occasionally after conception a woman eats the testicles of a cock, males are said to be formed in the uterus. The foetus is retained by taking in drink the ash of porcupines, brought to maturity by drinking bitch's milk, and withdrawn by the afterbirth of a bitch, which must not touch the earth, laid on the loins of the woman in childbed. Mouse dung diluted with rain water reduces the breasts of women swollen after childbirth. Rubbing the woman all over with the ash of hedgehogs and oil prevents miscarriage. The delivery of those is easier who have swallowed goose . . .^a with two cyathi of water, or the liquids that flow from a weasel's uterus through its genitals. Applying earth-worms prevents pains in the sinews of neck and shoulders, and taken in raisin wine bring away a sluggish afterbirth. These worms laid by themselves on the breasts also mature suppurations there, open them, draw out the pus, and make them cicatrize. Taken with honey wine they stimulate the flow of milk. There are also little worms found in grass; these, tied round the neck as an amulet, prevent a miscarriage, but they are taken off just before the birth, otherwise they prevent delivery. Care too must be taken not to lay them on the earth. Further, to cause conception five or seven at a time are given in drink. Snails taken in food hasten delivery, and conception too if applied with saffron. An application of snails in starch and tragacanth^b arrests fluxes. They are also good for menstruation if taken in food, and correct with deer's marrow displacements of the uterus; to one snail should be added a denarius by weight of marrow and cyprus oil.

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- eypri. inflationes quoque vulvarum discutiunt exemptae testis tritae cum rosaceo. ad haec Asty-
 127 palaeicae maxime eliguntur. alio modo Africanae
 binae tritae cum feni Graeci quod tribus digitis
 capiatur, addito melle coclearibus quattuor, inlin-
 untur alvo prius irino suco perunctae. sunt et
 minutae loricaeque¹ candidae cocleae passim ober-
 rantes. hae arefactae sole in tegulis tusaeque in
 farinam miscentur lomento aequis partibus can-
 doremque et levorem corpori adferunt. scabendi
 desideria tollunt minutae et latae cum polenta.
 128 viperam mulier praegnans si transcenderit, abortum
 faciet, item amphisbaenam, mortuam dumtaxat,
 † nam vivam habentes in pyxide inpune transeunt;
 etiam si mortua sit atque adservata, partus faciles
 praestat; vel mortua mirum, si sine adservata
 transcenderit gravida, innoxium fieri, si protinus
 transcendat adservatam.†² anguis inveterati suffitu
 menstrua adiuvant.
- 129 XLIV. Anguimum senectus adalligata lumbis faci-
 liores partus facit, protinus a puerperio removenda.
 dant et in vino bibendam cum ture, aliter sumpta
 abortum facit. baculum quo angui rana excussa sit
 parturientes adiuvat, trixallidum cinis inlitus cum
 melle purgationes, item araneus qui filum deducit ex

¹ loricaeque VRdT: longaeque E *vulg. Detlefsen*: loricatae-
 que coni. *Warmington*.

² *Sic codd.*: in pro vel *Mayhoff*. *Obelos ego addo loco, ut
 videtur, desperato.*

^a The text and its explanation are so conjectural that I
 prefer to print the reading of the MSS. within daggers. I

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alto. capi debet manu cava tritusque admoveri,
 quod si redeuntem prenderit, inhibebit idem purga-
 130 tiones. lapis aetites in aquilae repertus nido custodit
 partus contra omnes abortuum insidias. penna
 vulturina subiecta pedibus adiuvat parturientes.
 ovum corvi cavendum gravidis constat, quoniam
 transgressis abortum per os faciat. fimum accipitris
 in mulso potum videtur fecundas facere. vulvarum
 duritias, collectiones adeps anseris aut cygni¹ emollit.

131 XLV. Mammæ a partu custodit adeps anseris cum
 rosaceo et araneo. Phryges et Lycaones mammis
 puerperio vexatis invenerunt otidum adipem utilem
 esse. his quæ vulva strangulentur et blattas in-
 linunt. ovorum perdicis putaminum cinis cadmiæ
 mixtus et cereæ stantes mammæ servat. putant et
 ter circumductas ovo perdicis aut ortygis² non in-
 clinari et, si sorbeantur eadem, fecunditatem facere,
 lactis quoque copiam, cum anserino adipe perunctis
 mammis dolores minuere, molas uteri rumpere,
 scabiem vulvarum sedare, si cum cimice trito in-
 linantur.

132 XLVI. Vespertilionum sanguis psilotri vim habet,
 sed alis puerorum inlitis non satis proficit nisi aerugo
 vel cicuta semen postea inducatur. sic enim aut in

¹ cygni d r, *vulg.*, *Mayhoff*: ciconiæ E, *Detlefsen*.

² ortygis *Brakman*: otidis *Detlefsen post Urlichs*: om.
codd.: lacunam *Sillig et Mayhoff*: anseris coni. *Mayhoff*,
Sereno collato.

^a "The eagle stone." See XXXVI. § 149.

^b An oxide of zinc.

^c With the other conjectures, "bustard" or "goose."

^d For these *molae* see VII. § 63 and X. § 184.

spinning a thread from a height. It should be caught in the hollow of the hand, crushed, and applied; but if it is caught as it ascends again, the same treatment will arrest menstruation. The stone aetites,^a found in the eagle's nest, protects a foetus from all plots to cause abortion. A vulture's feather, placed under their feet, helps lying-in women. It is certain that pregnant women must avoid a raven's egg, since if they step over it they will miscarry through the mouth. A hawk's dung taken in honey wine seems to make women fertile. Indurations and abscesses of the uterus are softened by goose grease or by swan's grease.

XLV. The breasts after delivery are safeguarded by goose grease with rose oil and a spider's web. The Phrygians and Lycaonians have found that the fat of bustards is beneficial for teats disordered by childbirth. For uterine suffocation beetles also are applied. Ash of partridge egg-shells mixed with cadmia^b and wax keeps the breasts firm. They also think that breasts do not droop if circles are traced round them three times with the egg of partridge or quail,^c and that if this egg is swallowed it also produces fertility and an abundant supply of milk as well, that it lessens pains in the breasts if they are rubbed with it and goose grease, that it breaks up moles^d in the uterus, and that uterine itch is relieved if it is applied with crushed bugs.^e

XLVI. Bats' blood is a depilatory, but an applica- *Depilatori*
tion to the armpits of boys is not enough unless copper rust or hemlock seed is spread over it after-

^a Probably *cimice* is a generic singular. The probable lacuna in this chapter is perhaps larger than one word, for the plural *eadem* has only the singular *ovum* to which to refer.

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- totum tolluntur pili aut non excedunt lanuginem. idem et cerebro eorum profici putant—est autem duplex, rubens † itaque †¹ et candidum—aliqui
- 133 sanguinem et iocur eiusdem admiscent. quidam in tribus heminis olei discocunt viperam, exemptis ossibus psilotri vice utuntur evolsis prius pilis quos renasci nolunt. fel irenacei psilotrum est, utique mixto vespertilionis cerebro et lacte caprino, item per se cinis. lacte canis primiparae² evolsis pilis vel nondum natis perunctae partes alios non sufficiunt.
- 134 idem evenire traditur sanguine ricini evulsi cani, item hirundinino sanguine vel felle, ovis formicarum. supercilia denigrari muscis tritis tradunt, si vero oculi nigri nascentium placeant, soricem praegnanti edendum, capilli ne canescant vermium terrenorum cinere praestari admixto oleo.
- 135 XLVII. Infantibus qui lacte concreto vexantur praesidio est agninum coagulum ex aqua potum, aut si hoc vitium coagulato lacte acciderit, discutitur coagulo ex aceto dato. ad dentitionem cerebrum pecoris utilissimum est. ossibus in canino fimo inventis adustio infantium quae vocatur siriasis adalligatis emendatur, ramex infantium lacertae viridis admotae dormientibus morsu. postea harundini inligata³ suspenditur⁴ in fumo, traduntque pariter
- 136 cum expirante ea sanari infantem. coclearum saliva

¹ itaque *codd.* : utique *vulg.*, *Detlefsen*, *Mayhoff*, qui atque *vel* aliquando et *coni.* ; *obelos addo.*

² primiparae *Mayhoff*, qui prius *addit* : primi partus *Detlefsen* : primi parae *aut* : -partus *codd.*

³ inligata *Detlefsen* : alligata *Gelenius* : adalligatae *vulg.* : inligant et *Mayhoff* : inligate (-ti d) *codd.*

⁴ suspenditur *Gelenius*, *Detlefsen* : suspendunt *Mayhoff* : suspenduntur *codd.*

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inlita infantium oculis palpebras corrigit gignitque. ramicosis coclearum cinis cum ture ex ovi albo suco ¹ inlitus per dies XXX medetur. inveniuntur in corniculis coclearum harenaceae duritiae, hae dentitionem facilem praestant adalligatae. coclearum inanium cinis cerae mixtus procidentium interan-
 137 corum partes extremas prohibet. oportet autem cineri misceri saniem punctis emissam.² cerebrum viperae inligatum pellicula³ dentitiones adiuvat. idem valent et grandissimi dentes serpentium. fimum corvi lana adalligatum infantium tussi medetur. vix est serio conplecti quaedam, non omittenda tamen, quia sunt prodita. ramici infantium lacerta mederi iubent. marem hanc prendi, id intellegi eo quod sub⁴ cauda unam cavernam habeat,
 138 id agendum ut per aureum vel argenteum clostrum⁵ mordeat vitium, tum in calice novo inligatum⁶ in fumo poni. urina infantium cohibetur muribus elixis in cibo datis. scarabaeorum cornua grandia denticulata adalligata iis amuleti naturam obtinent.
 139 bovae capiti lapillum inesse tradunt, quem ab ea expui, si necem timeat, inopinantis praeciso capite exemptum adalligatumque mire prodesse dentitioni. item cerebrum eiusdem ad eundem usum adalligari iubent et limacis lapillum sive ossiculum; invenitur in dorso. magnifice iuvat et ovis cerebrum gingivis

¹ suco *Detlefsen, codd.*: specillo *Mayhoff*.

² emissam d, *Mayhoff, qui ante addit*: emissum E, *Detlefsen, qui cum cerebrum iungit*.

³ pellicula d, *Mayhoff*: pelliculae RE, *Detlefsen*.

⁴ eo quod sub *Detlefsen, Mayhoff*: varia *codd.*

⁵ aureum vel argenteum clostrum *Mayhoff, qui claustrum scribit*: aurum et argentum et clostrum (closirum, dosirum) *codd.*: electrum pro clostrum *Warmington*.

⁶ inligatum *Detlefsen*: inligatam *Mayhoff*: inligatur *codd.*

to the eyes of babies straightens the eyelashes and makes them grow. Hernia is cured by the ash of snails applied for thirty days with frankincense in white of egg.^a There are found in the little horns of snails sandy grits; worn as an amulet these make dentition easy. The ash of snail shells mixed with wax checks procidence of the end of the bowel, but the ash should be mixed with the discharge that exudes when the snails are pricked. A viper's brain tied on with a piece of his skin helps dentition. The same effect have also the largest teeth of serpents. The dung of a raven attached with wool as an amulet cures babies' coughs. Certain details can scarcely be included as serious items, but I must not omit them, since they have been put on record. As a remedy for hernia in babies they recommend a lizard; there should be taken a male, which can be recognised by its having one vent beneath the tail. The necessary ritual is: that it must bite the lesion through a gold or silver barrier; then it must be fastened in an unused cup and placed in smoke. Incontinence of urine in babies is checked by giving in their food boiled mice. The tall, indented horns of the beetle, fastened to babies, serves as an amulet. In the head of the boa is said to be a little stone, which is spit out by it when in fear of violent death; they add that dentition is wonderfully aided if the creature's head is cut off unawares, the stone extracted and worn as an amulet. The brain too of the same creature they recommend to be worn for the same purpose, or the stone or little bone found on the back of a slug. A splendid help also is the brain of a ewe rubbed on the gums, as for the ears is

^a With Mayhoff's reading: "applied with a probe, etc."

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inlitum sicut aures adeps anserinus cum ocimi suco inpositus. sunt vermiculi in spinosis herbis asperi, lanuginosi, hos adalligatos protinus mederi tradunt infantibus, si quid ex cibo haereat.

140 XLVIII. Somnos adlicit oesypum cum murræ momento in vini cyathis duobus dilutum, vel cum adipe anserino et vino myrtite, avis cuculus leporina pelle adalligatus, ardiolæ rostrum in pelle asinina fronti adalligatum. putant et per se rostrum effectus eiusdem esse vino collutum. e diverso somnum arcet vespertilionis caput aridum adalligatum.

141 XLIX. In urina virili enecata lacerta venerem eius qui fecerit cohibet. nam inter amatoria esse Magi dicunt. inhihent et cocleae, fimum columbinum cum oleo et vino potum. pulmonis vulturini dextrae partes venerem concitant viris adalligatae gruis pelle, item si lutea ex ovis quinque columbarum admixto adipis suilli denarii pondere ex melle sorbeantur, passeris in cibo vel ova eorum, gallinacei dexter

142 testis arietina pelle adalligatus. ibium cinere cum adipe anseris et irino perunctis, si conceptus¹ sit, partus contineri, contra inhiberi venerem pugnatoris galli testiculis anserino adipe inlitis adalligatisque pelle arietina tradunt, item cuiuscumque galli, si cum sanguine gallinacei lecto subiciantur. cogunt concipere invitas saetae ex cauda mulac,² si iunctis

143 evellantur, inter se conligatae in coitu. qui in

¹ conceptus sit *vulg.*, *Detlefsen*: conceptos *Mayhoff*: conceptus *codd.*

² mulae *codd.*: muli et mulae *coni. Mayhoff.*

^u If *nam* is "for," *amatoria* would have to mean "antaphrodisiacs."

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urinam canis suam egresserit dicitur ad venerem pigrior fieri. mirum et de stelionis cinere, si verum est, linamento involutum in sinistra manu venerem stimulare, si transferatur in dextram, inhibere, item vespertilionis sanguinem collectum flocco subpositumque capiti mulierum libidinem movere aut anseris linguam in cibo vel potione sumptam.

144 L. Phthiriasim et totius corporis pota membrana senectutis anguium triduo necat, serum exempto caseo potum cum exiguo sale. caseos, si cerebrum mustelae coagulo addatur, negant corrumpi vetustate aut a muribus attingi. eiusdem mustelae cinis si detur in offa gallinaceis et columbinis, tutos esse a mustelis. iumentorum urinae tormina vespertilione adalligato finiuntur, verminatio ter circumlato mediis palumbe. mirum dictu, palumbis emissus moritur iumentumque liberatur confestim.

145 LI. Ebriosis ova noctuae per triduum data in vino taedium eius adducunt. ebrietatem arcet pecudum assus pulmo praesumptus. hirundinis rostri cinis cum murra tritus et vino quod bibetur inspersus seculos praestabit a temulentia. invenit Orus Assyriorum rex.

146 LII. Praeter haec sunt notabilia animalium ad hoc volumen pertinentium: gromphena—avem in Sardinia narrant grui similem, ignotam iam etiam

A man who passes his urine on a dog's is said to become less sexually active. A wonderful thing again (if it is true) is told about the ash of the spotted lizard: if wrapped in a linen cloth and held in the left hand it is aphrodisiac; if transferred to the right hand it is antaphrodisiac. Another wonder: the blood of a bat, collected on a flock of wool and placed under the head of women, moves them to lust, as does the tongue of a goose, taken either in food or in drink.

L. The lice of pthiriasis even of the whole body *Lice, maggots, e* are destroyed in three days by taking in drink the cast slough of a snake, or by drinking, with a little salt, whey after the cheese has been taken out. They say that if the brain of a weasel is added to rennet, cheeses neither go rotten through age nor are touched by mice. If the ash too of a weasel is given to poultry or pigeons in their mash, they are said to be safe from weasels. Pains of draught animals in making urine are ended by a bat put on them as an amulet, and bots by a wood-pigeon carried three times round their middle. Wonderful to relate, the wood-pigeon on being set free dies, while the animal is at once freed from pain.

LI. The eggs of an owl, given for three days in wine to drunkards, produce distaste for it. *Drunkenness, etc.* Drunkenness is kept away by taking early the roasted lung of sheep. A swallow's beak reduced to ash, beaten up with myrrh, and sprinkled on the wine that will be drunk, will free drinkers from fear of becoming tipsy. This is a discovery of Orus, king of Assyria.

LII. In addition to all this there are some notable things about the animals that belong to this Book: the gromphena, a bird spoken of in Sardinia as like a crane,

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Sardis, ut existimo—in eadem provincia ophion, cervis tantum pilo similis nec alibi nascens. idem auctores, nomen habere ¹ sirulugum, quod nec quale esset animal nec ubi nasceretur tradiderunt. fuisse quidem non dubito, cum et medicinae ex eo sint demonstratae. M. Cicero tradit animalia biuros vocari qui vites in Campania erodant.

147 LIII. Reliqua mirabilia ex his quae diximus. non latrari a cane membranam e secundis canis habentem aut leporis fimum vel pilos tenentem, in culicum genere muliones ² non amplius quam uno die vivere, eosque qui arborarii pici rostrum habeant et mella eximant ab apibus non attingi, porcos sequi eos a
148 quibus cerebrum corvi acceperint in offa, pulverem in quo se mula volutaverit corpori inspersum mitigare ardores amoris. sorices fugare,³ si unus castratus emittatur, anguina pelle et sale et farre et serpyllo contritis una deiectisque cum vino in fauces boum uva maturescente, toto anno eos valere, vel si hirundinum pulli tres tribus ⁴ offis dentur, pulvere e vestigio anguium collecto sparsas apes in alvos reverti,
149 arietis dextro teste praeligato oves tantum gigni, non lassescere in ullo labore qui nervos ex alis et cruribus gruis habeant, mulas non calcitrare cum vinum biberint. ungulas tantum mularum repertas, neque

¹ nomen habere E r, *Detlefsen* : nominavere R d(?) *vulg.* : *cm. Mayhoff.*

² *Post muliones lacunam indicat Mayhoff.*

³ *fugare codd.* : *fugere Mayhoff.*

⁴ *tres tribus codd.* : *terni ternis Mayhoff.*

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aliam ullam materiam quae non perroderetur a veneno Stygis aquae, cum id dandum Alexandro Magno Antipater mitteret, memoria dignum est magna Aristotelis infamia excogitatum. nunc ad aquatilia praevertemur.

ADDITIONAL NOTE TO P. 361

Pliny, XXX, 128: *vel mortumua mirum si sine adservata transcenderit gravida innoxium fieri si protinus transcendat adservatam.* A tentative effort towards a solution of this passage is given by Warmington as follows. The sentence began *vel mortuam mirum* but was continued, in erratic copying, by a wrongly written clause (a) *si sine adservata transcenderit gravida* which was then imperfectly corrected into another clause (b) *si protinus transcendat adservatam* written in the margin. This marginal correction (b) was later copied out in its right place while clause (a) was still retained. It is clause (a) which is really corrupt and superfluous, and it should be deleted; and the whole passage may then be read: *vel mortuam mirum innoxiam fieri si protinus adservatam transcendat gravida:* "Or a dead one, wonderful to relate, does no harm if a pregnant woman crosses it if it was preserved without delay." Warmington suggests that a scribe began writing *mirum si sine mora adservatam transcendat* instead of *si protinus a. t.* At some later stage the intruded word *mora* was omitted but *sine* was still left in and *adservatam* was made into an ablative *adservata*. Thus *si protinus transcendat adservatam* or *si protinus adservatam transcendat* seems likely to be right. Anyhow to retain both clauses (a) and (b) seems intolerable; and (a) is more wrong than (b).

only material discovered that is not rotted by the poisonous water of Styx,^a a notable fact discovered by Aristotle, to his great infamy, when Antipater sent a draught of it to Alexander the Great. Now I will pass to things found in water.^b

^a A fountain in Arcadia.

^b Practically the whole of this chapter is in indirect speech, to denote the scepticism of Pliny.

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LIBER XXXI

1 I. Aquatiliū secuntur in medicina beneficia,
opifice natura ne in illis quidem cessante et per undas
fluctusque ac reciprocos aestus amniumque rapidos
cursus improbas exercente vires, nusquam potentia
maiore, si verum fateri volumus, quippe hoc elemen-
2 tum ceteris omnibus imperat. terras devorant
aquae, flammās necant, scandunt in sublime et
caelum quoque sibi vindicant ac nubium obtentu
vitalem spiritum strangulant, quae causa fulmina
elidit, ipso secum discordante mundo. quid esse
mirabilius potest aquis in caelo stantibus? at illae,
ceu parum sit in tantam pervenire altitudinem,
rapiunt eo secum piscium examina, saepe etiam
lapides subeuntque portantes aliena pondera.
3 eadem cadentes omnium terra enascentium causa¹
fiunt prorsus mirabili natura, si quis velit reputare, ut
fruges gignantur, arbores fruticesque vivant, in
caelum migrare aquas animamque etiam herbis
vitalem inde deferre, victa confessione² omnes terrae

¹ causa] *Mayhoff* (*Appendix p. 485*) *causae coni.*

² victa confessione dTa r *vulg.*: confessione victa VR,
Sillig: iusta confessione *Caesarius*, *Mayhoff*: confessione
invita *Urlichs*.

^a Or, as such things as salt are included, "creatures of the water."

^b English allows the plural "waters," but not exactly in the sense of the Latin *aquae*. Here it is perhaps safer to use the singular in translating.

BOOK XXXI

I. There follow the medicinal benefits obtained from aquatic animals; ^a Nature the Creator is not idle even among them, but puts forth her tireless strength on waves, billows, ebb and flow of tides, and the rapid currents of rivers; and nowhere with greater might, if we will but admit the truth, seeing that this element is lord over all the others. Water ^b swallows up the land, destroys flames, climbs aloft claiming the sovereignty even of the sky, and by a blanket of clouds chokes the life-giving spirit, so forcing out thunderbolts, the world waging civil war with itself. What can be more wonderful than water seated ^c in the sky? But as though it were a little thing to reach this great height, water sucks up thither with itself shoals of fish, and often even stones, carrying up aloft a weight other than its own. This element also falls again to become the source of all things that spring from the earth. Right wonderful action this on the part of Nature, if one considers it: in order that crops may grow, and that trees and shrubs may live, water soars to the sky and brings down thence even to plants the breath of life, so we are forced ^d to admit that all the powers of earth too

*Remedies
from
aquatic
animals.*

^c Literally: "standing."

^d "The admission being constrained" is perhaps possible Plinian Latin. Of the emendations that of Urlichs seems the best, giving much the same sense.

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quoque vires aquarum esse beneficii. quapropter ante omnia ipsarum potentiae¹ exempla ponemus. cunetas enim enumerare quis mortalium queat?

4 II. Emicant benigne passimque in plurimis terris alibi frigidae, alibi calidae, alibi iunctae, sicut in Tarbellis Aquitanica gente et in Pyrenaeis montibus tenui intervallo discernente, alibi tepidae egelidae-
que,² auxilia morborum profitentes et e cunctis animalibus hominum tantum causa erumpentes. augent numerum deorum nominibus variis urbesque
conduunt, sicut Puteolos in Campania, Statiellas in Liguria. Sextias in Narbonensi provintia, nusquam
5 tamen largius quam in Baiano sinu nec pluribus auxiliandi generibus, aliae sulphuris vi, aliae aluminis, aliae salis, aliae nitri, aliae bituminis, nonnullae etiam acida salsave mixtura. vapore ipso aliquae
6 prosunt tantaque est vis, ut balneas calefaciant ac frigidam etiam in solis fervere cogant. quae in Baiano Posidiana vocantur nomine accepto a Claudii Caesaris liberti obsonia quoque percocunt. vaporant et in mari ipso quae Licinii Crassi fuere, mediosque inter fluctus existit aliquid valetudini salutare.

III. Iam generatim nervis prosunt pedibusve aut
6 coxendicibus, aliae luxatis fractisque, inaniunt alvos, sanant vulnera. capiti, auribus privatim medentur,

¹ potentiae R *vulg.*, *Mayhoff*: potentia *ceteri codd.*, *Detlefsen*.

² egelidaeque *codd.* (aut gelidaequae) *Detlefsen*: egelidae atque *Mayhoff*.

^a The word *vis* is hard to translate, as it sometimes combines the sense of "power," "quality," and "magical

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oculis vero Ciceronianae. dignum¹ memoratu, villa est ab Averno lacu Puteolos tendentibus inposita litori, celebrata porticu ac nemore, quam vocabat M. Cicero Academiam ab exemplo Athenarum; ibi compositis voluminibus eiusdem nominis, in qua et monumenta sibi instauraverat, ceu vero non in toto
7 terrarum orbe fecisset. huius in parte prima exiguo post obitum ipsius Antistio Vetere possidente eruperunt fontes calidi perquam salubres oculis, celebrati carmine Laureae Tulli, qui fuit e libertis eius, ut protinus noscatur etiam ministeriorum haustus ex illa maiestate ingenii. ponam enim ipsum carmen, ubique et non ibi tantum legi dignum.²

8 Quo tua, Romanae vindex clarissime linguae,
silva loco melius surgere iussa viret
atque Academiae celebratam nomine villam
nunc reparat cultu sub potiore Vetus,
hoc etiam apparent lymphae non ante repertae
languida quae infuso lumina rore levant.
nimirum locus ipse sui Ciceronis honori
hoc dedit, hac fontes cum patefecit ope.
ut, quoniam totum legitur sine fine per orbem,
sint plures oculis quae medeantur aquae.

IV. In eadem Campaniae regione Sinuessanae aquae sterilitatem feminarum et virorum insaniam
9 abolere produntur, V. in Aenaria insula calculosis mederi, et quae vocatur Acidula ab Teano Sidicino

¹ dignum *Mayhoff*: dignae (*cum antecedentibus*) *Detlefsen*: digno, dignu, digna *codd.*

² dignum *Brakman*: *del.* *Detlefsen*: *queat Mayhoff, add.* ut *ante* ubique. *Vulg.* dignum ubique, et non ibi tantum legi.

ears; while the Ciceronian are so for the eyes. It is worth while recording that there is a country seat on the coast as you go from Lake Avernus to Puteoli, with a famous portico and grove, which M. Cicero, copying Athens, called Academia. There he wrote the volumes called *Academica*, and in it he also erected memorials to himself, as though indeed he had not done so throughout the whole world. In the front part of this estate, when the owner was Antistius Vetus, a short time after Cicero's demise there burst out hot springs, very beneficial for eye complaints, which have been made famous by a poem of Laurea Tullus, who was one of Cicero's freedmen. From it we at once realize that even his servants drew inspiration from that mighty genius. For I will quote the actual poem, which deserves to be read, not only on this site, but everywhere.

“ O famous champion of our Latin tongue, where grows with a fairer green the grove you bade rise, and the villa, honoured by the name of Academe, Vetus keeps in repair under a more careful tendance, here are also to be seen waters not revealed before, which with drops infused relieve wearied eyes. For indeed the site itself gave this gift as an honour to Cicero its master, when it disclosed springs with this healing power, so that, since he is read throughout the whole world, there may be more waters to give sight to eyes.”

IV. In Campania too are the waters of Sinuessa, which are said to cure barrenness in women and insanity in men. V. The waters in the island of Aenaria are said to cure stone in the bladder, as does also the water called Acidula—it is a cold one—four

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iii p. haec frigida, item in Stabiano quae Dimidia vocatur, et in Venafrano ex fonte Acidulo. idem contingit in Velino lacu potantibus, item in Syriae fonte iuxta Taurum montem auctor est M. Varro et in Phrygiae Gallo flumine Callimachus. sed ibi in potando necessarius modus, ne lymphatos agat, quod in Aethiopia accidere his qui e fonte Rubro biberint Ctesias scribit.

10 VI. Iuxta Romam Albulae aquae volneribus medentur, egelidae hae, sed Cutiliae in Sabinis gelidissimae suctu quodam corpora invadunt, ut prope morsus videri possit, aptissimae stomacho, nervis, universo corpori.

VII. Thespiarum fons conceptus mulieribus praesentat, item in Arcadia flumen Elatum. custodit autem fetum Linus fons in eadem Arcadia abortusque fieri non patitur. e diverso in Pyrrha flumen quod Aphrodisium vocatur steriles facit.

11 VIII. Lacu Alphio vitiligines tolli Varro auctor est, Titiumque praetura functum marmorei signi faciem habuisse propter id vitium. Cydnus Ciliciae amnis podagricis medetur, sicut apparet epistula Cassi Parmensis ad M. Antonium. contra aquarum culpa
12 in Troezene omnium pedes vitia sentiunt. Tungri civitas Galliae fontem habet insignem plurimis bullis stillantem, ferruginei saporis, quod ipsum non nisi in fine potus intellegitur. purgat hic corpora, tertianas febres discutit calculorumque vitia. eadem aqua igne

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admoto turbida fit ac postremo rubescit. Leucogaei fontes inter Puteolos et Neapolim oculis et vulneribus medentur. Cicero in admirandis posuit Reatinis tantum paludibus ungulas iumentorum indurari.

13 IX. Eudicus in Hestiaeotide fontes duos tradit esse, Ceronam ex quo bibentes oves nigras fieri, Nelea ex quo albas, ex utroque varias, Theophrastus Thuriis Crathim candorem facere, Sybarim nigritiam

14 bubus ac pecori, X. quin et homines sentire differentiam eam; nam qui e Sybari bibant nigriores esse durioresque et crispo capillo, qui e Crathi candidos mollioresque ac porrecta coma. item in Macedonia qui velint sibi candida nasci ad Haliacmonem ducere, qui nigra aut fusca ad Axium. idem omnia fusca nasci quibusdam in locis dicit et fruges quoque, sicut in Messapis, at in Lysis Arcadiae quodam fonte mures terrestres vivere et conversari. Erythris Aleos amnis pilos gignit in corporibus.

15 XI. In Boeotia ad Trophonium deum iuxta flumen Hercynnum¹ e duobus fontibus alter memoriam alter oblivionem adfert, inde nominibus inventis.

XII. In Cilicia apud oppidum Cescum rivus fluit Nuus, ex quo bibentium subtiliores sensus fieri M. Varro tradit, at in Cea insula fontem esse quo hebetes fiant, Zamae in Africa ex quo canorae voces.

¹ Hercynnum *Sillig: varia codd.*

^a The Greek names are referred to.

^b The Greek νοῦς means "intelligence."

finally turns red. White Earth Springs, between Puteoli and Naples, is good for complaints of the eyes and for wounds. Cicero in his *Book of Marvels* alleges that only by marsh water of Reate are the hoofs of draught cattle hardened.

IX. Eudicus tells us that in Hestiaeotis are two springs: Cerona, which makes black the sheep that drink of it, and Neleus, which makes them white, while they are mottled if they drink of each. Theophrastus says that at Thurii the Crathis makes oxen and sheep white, and the Sybaris makes them black. X. He adds that men too are affected by this difference: that those who drink of the Sybaris are darker and more hardy, and with curly hair, while those who drink of the Crathis are fair, softer, and with straight hair. He also says that in Macedonia those who wish white young to be born lead their beasts to the Haliacmon, but to the Axios if they wish the young to be black or dark. The same authority adds that in certain places all produce grows to be dark, even grain and vegetables, as among the Messapii, and that in a certain spring at Lusi in Arcadia land mice live and dwell. At Erythrae the river Axios makes hair grow on the body.

XI. In Boeotia by the temple of Trophonius near the river Hercynnus are two springs; one brings remembrance, the other forgetfulness; hence the names ^a that have been given them.

XII. In Cilicia near the town Cescum flows the river Nuus.^b Those that drink of it become, says Marcus Varro, of keener perception, but on the island of Cea there is a spring that makes men dull, and at Zama in Africa is one that gives the drinkers a tuneful voice.

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- 16 XIII. Vinum taedio venire his qui ex Clitorio lacu
 biberint ait Eudoxus, set Theopompus inebriari fontibus his quos diximus, Mucianus Andri e fonte Liberi patris statis diebus septenis eius dei vinum fluere, si auferatur e conspectu templi, sapore in aquam trans-
 17 eunte, XIV. Polyclitus ex¹ Lipari iuxta Solos Ciliciae ungui, Theophrastus, hoc idem in Aethiopia eiusdem nominis fonte, Lycos in Indis² Oratis fontem esse cuius aqua lucernae luceant. idem Ecbatanis traditur. Theopompus in Scotussaeis lacum esse
 18 dicit qui vulneribus medeatur,³ XV. Iuba in Trogo- dytis lacum Insanum malefica vi appellatum ter die fieri amarum salsumque ac deinde dulcem, totiensque et noctu, scatentem albis serpentibus vicenum cubitorum, idem in Arabia fontem exilire tanta vi ut
 19 nullum non pondus inpactum respuat, XVI. Theophrastus Marsyae fontem in Phrygia ad Celaenarum oppidum saxa egerere. non procul ab eo duo sunt fontes Claeon et Gelon ab effectu Graecorum nominum dicti. Cyzici fons Cupidinis vocatur ex quo potantes amorem deponere Mucianus credit.
 20 XVII. Crannone est fons calidus citra summum fervorem, qui vino addito triduo calorem potionis

¹ ex Lipari *Detlefsen*: Lipari *Urlichs*: expleri *codd.*

² in Indis *Mayhoff*: Indis *Detlefsen*: varia *codd.*

³ medeatur *C. F. W. Müller*: medetur *codd.*

^a Book II. § 230.

^b "The oily river."

^c For these people see Book VI. § 75.

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- custodit in vasis. sunt et Mattiaci in Germania fontes calidi trans Rhenum, quorum haustus triduo fervet, circa margines vero pumicem faciunt aquae.
- 21 XVIII. Quod si quis fide carere ex his aliqua arbitratur, discat in nulla parte naturae maiora esse miracula, quamquam inter initia operis abunde multa rettulimus. Ctesias tradit Silan¹ vocari stagnum in Indis in quo nihil innatet, omnia mergantur, Coelius apud nos in Averno etiam folia subsidere, Varro aves quae advolaverint emori. contra in Africae lacu
- 22 Apuscidamo omnia fluitant, nihil mergitur, item in Siciliae fonte Phinthia, ut Apion tradit, et in Medorum lacu puteoque Saturni. item fluvii² fons Limyrae transire solet in loca vicina portendens aliquid, mirumque quod cum piscibus transit. responsa ab his petunt incolae cibo, quem rapiunt adnuentes, si vero eventum negent, caudis abigunt.
- 23 amnis Alcas in Bithynia Bryazum adluit—hoc est templo et deo nomen—cuius gurgitem periuri negantur³ pati⁴ velut flammam urentem.⁵ in Cantabria fontes Tamarici in auguriis habentur. tres sunt octonis pedibus distantes, in unum alveum coeunt
- 24 vasto amne. singuli siccantur duodenis diebus,

¹ Silan *Mayhoff* (*Strabo XV. 1, 38*): Siden r *Sillig*.

² puteoque Saturni. item fluvii *Mayhoff*: puteoque. Saturni templum *Detlefsen*: temthuni r: themtumi V: themtuni T: templum E.

³ negantur VRdT *Hard.*, *Mayhoff*: necantur a *Detlefsen*: notantur *Hermolaus Barbarus*.

⁴ pati VRdT: parthi E: rapti *Detlefsen*.

⁵ flammam urentem *codd.*: flamma urente *Detlefsen*.

^a Wiesbaden.

^b See II. §§ 224 foll.

are also in Germany across the Rhine the hot springs of Mattiacum,^a a draught from which is boiling hot for three days; around the borders indeed the water forms pumice.

XVIII. But if anybody thinks that some of these statements are incredible, he has to learn that in no sphere does Nature show greater marvels, although in the early parts of my work I have mentioned ^b plenty of examples. Ctesias tells us that there is in India standing water called Silas,^c in which nothing floats but everything sinks to the bottom; Coelius says in our Avernus even leaves sink, and Varro that the birds that fly to it die. On the other hand, in the African lake Apuscidamus everything floats and nothing sinks; similarly in the Sicilian spring Phinthia, as Apion tells us, and among the Medes in the lake and well of Saturn. Again, the source of the river Limyra often crosses to neighbouring districts, indicating some portent, and a wonderful thing is that the fish cross with it. The inhabitants seek responses from them, offering food. To give a favourable answer the fish snap it up; but for an unfavourable one, they knock it away with their tails. The river Alcas in Bithynia flows by Bryazus—this is the name both of a god and of his temple—the current of which perjured persons are said to be unable to endure, as it burns like a flame. In Cantabria the springs of the Tamaris are supposed to be prophetic. Three in number they are eight feet apart, uniting in one channel to form a vast river. Each one dries up for periods of twelve, occasionally of twenty days, without the slightest trace of water,

*The marvels
of many
waters.*

^c A reference to Strabo shows that Mayhoff's conjecture is correct, but Strabo calls the Silas a river.

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aliquando vicenis,¹ citra suspicionem ullam aquae, cum sit vicinus illis fons sine intermissione largus. dirum est non profluere eos aspicere volentibus, sicut proxime Larcio Licinio legato pro praetore post septem dies accidit. In Iudaea rivus sabbatis omnibus siccatur.

- 25 XIX. E diverso miracula alia dira. Ctesias in Armenia fontem esse scribit, ex quo nigros pisces ilico mortem adferre in cibis quod et circa Danuvii exortum audivi, donec veniatur ad fontem alveo adpositum, ubi finitur id genus piscium ideoque ibi caput amnis eius intellegit fama. hoc idem et in
26 Lydia in stagno Nympharum tradunt. In Arcadia ad Pheneum aqua profluit e saxis Styx appellata, quae ilico necat, ut diximus, sed esse pisces parvos in ea tradit Theophrastus, letales et ipsos, quod non in
27 alio genere mortiferorum fontium. necari aquis Theopompus et in Thracia apud Cychros dicit, Lycos in Leontinis tertio die quam quis biberit, Varro ad Soracten in fonte, cuius sit latitudo quattuor pedum. sole oriente eum exundare ferventi similem, aves quae degustaverint iuxta mortnas iacere. namque et haec insidiosa conditio est quod quaedam etiam blandiuntur aspectu, ut ad Nonacrim Arcadiae, omnino enim nulla deterrent qualitate. hanc
28 putant nimio frigore esse noxiam, utpote cum profluens ipsa lapidescat. aliter circa Thessalica Tempe, quoniam virus omnibus terrori est, traduntque aena

¹ singuli siccantur duodenis diebus, aliquando vicenis *Mayhoff*: siccantur duodecies singulis diebus, aliquando vicies *Detlefsen*: *varia codd.*

^a Perhaps "black."

^b Book II. § 231.

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etiam ac ferrum erodi illa aqua. profluit, ut indicavimus, brevi spatio, mirumque siliqua silvestris amplecti radicibus fontem eum dicitur semper florcus purpura. et quaedam sui generis herba in labris fontis viret. In Macedonia, non procul Euripidis poetae sepulchro, duo rivi confluunt. alter saluberrimi potus, alter mortiferi.

29 XX. In Perperenis fons est quamcumque rigat lapideam faciens terram, item calidae aquae in Euboeae Adepso. nam quae¹ adit² rivus saxa in altitudinem crescunt. in Eurymenis deiectae coroneae in fontem lapideae fiunt. in Colossis flumen est quo lateres coniecti lapidei extrahuntur. in Seyretico metallo arbores quaecumque flumine adluuntur
30 saxae fiunt cum ramis. destillantes quoque guttae lapide durescunt in antris, conchatis ideo,³ Miezae in Macedonia etiam pendentes in ipsis camaris, at in Corinthio⁴ cum cecidere, in quibusdam speluncis utroque modo, columnasque faciunt, ut in Phausia Cherrhonesi adversae Rhodo in antro magno etiam discolori aspectu. et hactenus contenti simus exemplis.

31 XXI. Quaeritur inter medicos cuius generis aquae sint utilissimae. stagnantes pigrasque merito dam-

¹ quae E *Detlefsen*, *Mayhoff*: qua plerique codd., *Hard*.

² adit E *Mayhoff*: cadit plerique codd. *Hard*.: alluit vulg.: adluit *Detlefsen*.

³ conchatis *Mayhoff*, coll. XI. § 270: coricis codd.: Coryciis vulg.; fortasse ideo ex lapide est ortum.

⁴ Corinthio R *Ianus*: Corintio VdTf: coricio E: Corycio *Sillig*, *Mayhoff*.

^a Book IV. § 31.

^b A locus adhuc corruptus says *Mayhoff*. I adopt his conjecture with certain doubts, for unless we discard in the next

water there even bronze and iron are corroded. It flows, as I have pointed out,^a for only a short distance, and a marvellous thing is related of this spring: it is embraced by the roots of a wild carob always bearing purple blossom. And a unique kind of herb flourishes on the margins of the spring. In Macedonia, not far from the tomb of the poet Euripides, two streams join, one very wholesome to drink, the other a deadly poison.

XX. At Perperena is a spring that turns to stone whatever land it irrigates, as do also the hot waters at Aedepsus in Euboea, for, whatever rocks the stream reaches increase in height. At Eurymenae chaplets, thrown into a spring, turn to stone. At Colossae is a river, and bricks when cast into it are of stone when taken out. In Scyros in the mine all the trees watered by the river are turned to rock, branches and all. Drops too dripping from the stone harden in certain caves, and hence these are concave in shape.^b But at Mieza in Macedonia the drops actually hang from the arched roofs, while in the Corinthian cave they petrify after falling; in certain caverns the stone forms in both ways and makes pillars, as at Phausia in the Chersonesus opposite to Rhodes in a huge cave, where the pillars are actually of different colours to look at. These examples must be enough for the present.

XXI. It is a question debated by the physicians what kinds of water are most beneficial. They

Petrifying waters, stalactites and stalagmite

The most beneficial waters.

sentence a well attested reading *Corinthio* (-tio) there will be no reference to the famous Corycian cavern. It seems just possible that an absent-minded scribe repeated *lapide* (or part of it) after *Coryciis*, and that the vulgate, which omits *ideo*, is correct, or nearly so.

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nant, utiliores quae profluunt existimantes, cursu enim percussuque ipso extenuari atque proficere, coque miror cisternarum ab aliquis maxime probari. sed hi rationem adferunt, quoniam levissima sit imbrium, ut quae subire potuerit ac pendere in aere. 32 ideo et nives praeferunt, nivibusque etiam glaciem velut ad infinitum coacta subtilitate. leviora enim haec esse et glaciem multo leviolem aqua. horum sententiam refelli interest vitae. in primis enim levitas illa deprehendi aliter quam sensu vix potest, nullo paene momento ponderis aquis inter se distantibus. nec levitatis in pluvia aqua argumentum est subisse eam in caelum, cum etiam lapides subire appareat cadensque inficiatur halitu terrae, quo fit ut pluviae aquae sordium plurimum inesse sentiatur citissime- 33 que ideo calefiat aqua pluvia. nivem quidem glaciemque subtilissimum elementi eius videri miror adposito grandinum argumento, e quibus pestilentissimum potum esse convenit. nec vero pauci inter ipsos e contrario ex gelu ac nivibus insaluberrimos potus praedicant, quoniam exactum sit inde quod tenuissimum fuerit. minui certe liquorem omnem congelatione deprehenditur et rore nimio scabiem fieri, pruina uredinem, cognatis et nivis causis. 34 pluvias quidem aquas celerrime putrescere convenit

^a The opposite is the truth.

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minimeque durare in navigatione. Epigenes autem aquam quae septies putrefracta purgata sit tradit¹ amplius non putrescere. nam cisternas etiam medici confitentur inutiles alvo duritia faucibusque, etiam limi non aliis inesse plus aut animalium quae faciunt
35 taedium. at iidem² confitendum habent nec statim amnium utilissimas esse, sicuti nec torrentium ullins, lacusque plurimos salubres. quaenam igitur et cuius generis aptissimae? aliac alibi. Parthorum reges ex Choaspe et Eulaeo tantum bibunt, hae quamvis in longinqua comitantur illos. sed horum placere non quia sint amnes apparet, quoniam neque e Tigri neque Euphrate, neque e multis aliis bibunt.

36 XXII. Limus aquarum vitium est. si tamen idem amnis anguillis scateat, salubritatis indicium habetur, sicuti frigoris taeneas in fonte gigni. ante omnia autem damnantur amarae et quae sorbentem statim implent, quod evenit Trozene. nam nitrosas atque salmacidas in desertis Rubrum mare petentes addita polenta utiles intra duas horas faciunt ipsaque vescuntur polenta. damnantur in primis quae fonte caenum faciunt quaeque malum colorem bibentibus, refert et si vasa aerea inficiunt aut si legumina tarde percocunt, si liquatae lentiter³ terram relinquunt
37 decoctaeque crassis obducunt vasa crustis. est etiamnum vitium non fetidae modo verum omnino quicquam resipientis, iucundum sit illud licet gratum-

¹ tradit *coni. Mayhoff*: perhibet R (?) *Detlefsen*, "contra *Plinii usum*" (*Mayhoff*).

² at iidem *coni. Mayhoff*, item scribit; *om. codd. et Detlefsen*.

³ lente *coni. Warmington*.

water to stand a voyage. Epigenes, however, says that water which has become putrid and been purified seven times becomes putrid no more. But cistern water even physicians admit is harmful to the bowels and throat because of its hardness, and no other water contains more slime or disgusting insects. Yet it must be admitted, they hold, that river water is not *ipso facto* the most wholesome, nor yet that of any torrent whatsoever, while there are very many lakes that are wholesome. What water then, and of what kind, is the best? It varies with the locality. The kings of Parthia drink only of the Choaspes and the Eulaeus; water from these rivers is taken with them even into distant regions. But it is clear that the water of these rivers does not find favour just because they are rivers, for the kings do not drink from the Tigris, Euphrates, or many other rivers.

XXII. Slime in water is bad. If however the same river is full of eels, it is held to be a sign of wholesomeness, as it is of coldness for worms to breed in a spring. But before all are condemned bitter waters, and those that give a full feeling immediately after drinking, as does the water at Troezen. But the nitrous and salty-acid streams that in the desert flow to the Red Sea are made sweet within two hours if pearl barley is added, and the barley itself they eat. Especially are condemned waters that have mud at their source, and those that give a bad colour to those who drink of them. It also makes a difference if water stains bronze vessels, or if it cooks greens slowly, if when gently filtered out it leaves a sediment of earth, or when boiled thickly encrusts the vessel. Not only too is fetid water bad, but also that which tastes of anything at all, though the taste may be

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que et ut saepe ad viciniam lactis accedens. aquam salubrem aeris quam simillimam esse oportet. unus in toto orbe traditur fons aquae iucunde olentis in Mesopotamia Chabura. fabulae rationem adferunt, quoniam eo Iuno perfusa sit. de cetero aquarum salubrium sapor odorve nullus esse debet.

38 XXIII. Quidam statera iudicant de salubritate, frustrante diligentia, quando perrarum est ut levior sit aliqua. certior subtilitas inter pares meliorem esse quae calefiat refrigereturque celerius. quin et haustam vasis, † ne manus pendeant,¹ depositisque † in bimum tepescere adfirmant. ex quonam ergo genere maxime probabilis continget? puteis nimirum, ut in oppidis video constare, sed his quibus et exercitationis ratio crebro haustu contingit et illa
39 tenuitas colante terra. salubritati haec satis sunt. frigori et opacitas necessaria utque caelum videant. super omnia una observatio—eadem et ad perennitatem pertinet—ut illa e vado exiliat vena, non e lateribus. nam ut tactu gelida sit etiam arte contingit, si expressa in altum aut e sublimi deiecta verberatum
40 tinentibus frigidior sentitur eadem. Neronis principis

¹ ne manus pendeant *codd.*: ne manus suspendant *Detlefsen*: ne manu pendeant *Mayhoff*, qui post vasis *add.* portatis.

^a See Additional Note F.

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inventum est decoquere aquam vitroque demissam in nives refrigerare. ita voluptas frigoris contingit sine vitiis nivis. omnem utique decoctam utiliore esse convenit, item calefactam magis refrigerari, subtilissimo invento. vitiosae aquae remedium est, si decoquatur ad dimidias partes. aqua frigida ingesta sistitur sanguis. aestus in balneis arcetur, si quis ore teneat. quae sint haustu frigidissimae non perinde et tactu esse, alternante hoc bono, multi familiari exemplo colligunt.

41 XXIV. Clarissima aquarum omnium in toto orbe frigoris salubritatisque palma praeconio urbis Marcia est inter reliqua deum munera urbi tributa. vocabatur haec quondam Aufeia, fons autem ipse Pitonia. oritur in ultimis montibus Paelignorum, transit Marsos et Fucinum lacum, Romam non dubie petens. mox in specus mersa in Tiburtina se aperit novem milibus passuum fornicibus structis perducta. primus eam in urbem ducere auspiciatus est Anens Marcius unus e regibus, postea Q. Marcius Rex in praetura, rursusque restituit M. Agrippa.

42 XXV. Idem et Virginem adduxit ab octavi lapidis diverticulo duo milia passuum Praenestina via. iuxta est Herculaneus rivus, quem refugiens Virginis nomen obtinuit. horum amnium comparatione differentia supra dicta deprehenditur, cum quantum

vessel by thrusting it into snow. In this way is obtained a pleasant coolness without the injurious qualities of snow. At any rate it is agreed that all water is more serviceable when boiled, and that water which has been heated can be cooled to a greater degree—a most clever discovery. It purifies bad water to boil it down to one half. Cold water taken internally checks bleeding, and to hold it in the mouth prevents overheating in the bath. Water that is very cold to swallow is not always so to the touch; this good quality alternates,^a as many find out by personal experience.

XXIV. The first prize for the coolest and most wholesome water in the whole world has been awarded by the voice of Rome to the Aqua Marcia, one of the gods' gifts to our city. This was once called the Aqua Aufeia, and the source itself Aqua Pitonia. It rises at the extreme end of the Paelignian range, crosses the country of the Marsi and the Fucine lake, plainly making straight for Rome. Next it sinks into the underground caves near Tibur, reappearing and completing its journey of nine more miles along an aqueduct. The first to begin the bringing of this water to Rome was one of the kings, Ancus Marcius; later, repairs were carried out by Quintus Marcius Rex in his praetorship, and again by Marcus Agrippa.

XXV. The same Agrippa also brought the Virgin Water to Rome from the bye-road, eight miles away, that extends two miles along the road to Praeneste. Nearby is the stream of Hercules, and because the Virgin Water runs away from this it was so named. A comparison of these rivers illustrates the difference

^a We might say: "and *vice versa*."

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Virgo tactu praestet, tantum praestet Marcia haustu, quamquam utriusque iam pridem urbi perit voluptas, ambitione avaritiaque in villas ac suburbana detorquentibus publicam salutem.

43 XXVI. Non ab re sit quaerendi aquas iunxisse rationem. repperiuntur in convallibus maxime et quodam convexitatis cardine aut montium radicibus. multi septentrionales ubique partes aquosas existimavere, qua in re varietatem naturae aperuisse conveniat. in Hyrcanis montibus a meridiano latere non pluit, ideo silvigeri ab aquilonis tantum parte sunt. at Olympus, Ossa, Parnasus, Appenninus, Alpes undique vestiuntur amnibusque perfunduntur, aliqui ab austro, sicut in Creta Albi montes. nihil ergo in his perpetuae observationis iudicabitur.

44 XXVII. Aquarum sunt notae iuncus¹ et herba de qua dictum est multumque alicui loco pectore incubans rana. salix enim erratica et alnus aut vitex aut harundo aut hедера sponte proveniunt et contrivatione aquae pluviae in locum humiliorem e superioribus defluentis, augurio fallaci, certiore multo nebulosa exhalatione ante ortum solis longius intuentibus, quod quidam ex edito speculantur proni terram
45 adtingente mento. est et peculiaris aestimatio peritis tantum nota, quam ferventissimo aestu secuntur dieique horis ardentissimis, qualis ex quoque loco repercussus splendeat. nam si terra sitiante umidior

¹ *Post iuncus add. aut harundo codd. Cf. infra.*

^a See § 40.

^b This is bechion (tussilago); see XXVI. § 30.

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46 est ille, indubitata spes promittitur. sed tanta oculorum intentione opus est ut indolescant. quod fugientes ad alia experimenta decurrunt, loco in altitudinum pedum quinque defosso ollisque e figlino opere crudis aut peruncta pelvi aerea,¹ cooperto,² lucernaque ardente concamarata frondibus, dein terra, si figlinum umidum ruptumve, aut in aere sudor vel lucerna sine defectu olei restincta aut etiam vellus lanae madidum repperiatur, non dubie promittunt aquas. quidam et igni prius excocunt locum tanto efficaciore vasorum argumento.

47 XXVIII. Terra vero ipsa promittit candicantibus maculis aut tota glauci coloris. in nigra enim scaturigines non fere sunt perennes. figularis creta semper adimit spes, nec amplius puteum fodiunt coria terrae observantes, ut a nigra descendat ordo
48 supra dictus. aqua semper dulcis in argillosa terra, frigidior in tofo. namque et hic probatur, dulces enim levissimasque facit et colando continet sordes. sabulum exiles limosasque promittit, glarea incertas venas, sed boni saporis, sabulum masculum et harena carbunculus certas stabilesque et salubres, rubra saxa optimas speique certissimae, radices montium saxosae et silex hoc amplius rigentes. oportet autem

¹ *Post aerea add. lanae vellere Mayhoff.*

² *Post terra trans. cooperto Detlefsen.*

^a Mayhoff adds *lanae vellere* after *aerea*, comparing passages in Vitruvius, Palladius, and *Geoponica*. The asyndeton is awkward, and perhaps Pliny omitted to mention the wool in his first list, and when he came across it again in the second list, did not think it necessary for the sense to go back and add it to the previous clause.

parching, that is an infallible sign. But so great is the necessary strain on the eyes that pain results. To avoid this strain they have recourse to other tests. They dig a hole to the depth of five feet, covering it with jars of unbaked potters' clay, or else with a well-oiled bronze basin, and also a burning lamp arched over with foliage and earth on top; if the clay is found to be wet or broken, or if moisture covers the bronze, or the lamp goes out without any failure of oil, or perchance a flock of wool is wet,^a then the finding of water is assured. Some also light a fire first and dry the hole, making yet more conclusive the evidence of the vessels.

XXVIII. The earth however itself guarantees water by white spots or by being green all over. For in black earth the springs are generally not permanent. Potters' clay always dashes hopes of water, and further well-digging ceases when it is observed that the earth's *strata* begin with black and go down in the order given above.^b Water in clay is always sweet, but cooler in tufa. For tufa too is commended, for it makes water sweet and very light; acting as a strainer it keeps back any dirt. Loam^c indicates scanty trickles with slime, gravel intermittent springs but of a good flavour, male loam^d or carbunculus-sand^e continuous streams, steady and wholesome; red rock points to the certain presence of excellent water; the rocky bases of mountains, or flint, point to the same kind of water, with great

^b Apparently black, white, green.

^c *Sabulum*, apparently soil containing coarse sand and clay.

^d *Sabulum masculum* was coarse *sabulum*.

^e See Varro I. 9, 2; earth so scorched by the sun that roots are charred.

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fodienribus umidiores adsidue respondere glaebas
49 faciliusque ferramenta descendere. depressis puteis
sulpurata vel aluminosa occurrentia putearios necant.
experimentum huius periculi est demissa ardens
lucerna si extinguitur, tunc secundum puteum dextra
ac sinistra fodiuntur aestuaria quae graviozem illum
halitum recipiant. fit et sine his vitiis altitudine
ipsa gravior aer quem emendant adsiduo linteorum
iactatu eventilando. cum ad aquam ventum est, sine
50 harenato opus surgit ne venae obstruantur. quae-
dam aquae vere statim incipiente frigidiores sunt,
quarum non in alto origo est—hibernis enim constant
imbribus—quaedam a canis ortu, sicut in Macedoniae
Pella utrumque. ante oppidum enim incipiente
aestate frigida est palustris, dein maximo aestu in
excelsioribus oppidi riget. hoc et in Chio evenit
simili ratione portus et oppidi. Athenis Enneacrunos
nimbosa aestate frigidior est quam puteus in Iovis
horto, at ille siccitatibus riget. maxime autem putei
circa arcturum non ipsa aestate deficiunt, omnesque
quatrlduo eo subsidunt, iam vero multi bieme tota, ut
51 circa Olynthum, vere primum aquis redeuntibus. in
Sicilia quidem circa Messanam et Mylas bieme in
totum inarescunt fontes, ipsa aestate exundant am-
nemque faciunt. Apolloniae in Ponto fons iuxta

^a July 19.

^b About September 17.

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mare aestate tantum superfluit et maxime circa canis ortum, parcius, si frigidior sit aestas. quaedam terrae imbribus sicciores fiunt, velut in Narniensi agro, quod admirandis suis inseruit M. Cicero, siccitate lutum fieri prodens, imbre pulverem.

52 XXIX. Omnis aqua bieme dulcior est, aestate minus, autumno minime, minusque per siccitates. neque aequalis annium plerumque gustus est magna alvei differentia. quippe tales sunt aquae qualis terra per quam fluunt qualesve herbarum quas lavant suci. ergo idem amnes parte aliqua repperiuntur insalubres. mutant saporem et influentes rivi, ut Borysthenen, victique diluuntur. aliqui vero et imbre mutantur. ter accidit in Bosporo ut salsi deciderent necarentque frumenta, totiens et Nili rigua pluviae amara fecere magna pestilentia Aegypti.

53 XXX. Nascuntur fontes decisis plerumque silvis, quos arborum alimenta consumebant, sicut in Haemo obsidente Gallos Cassandro, cum valli gratia silvas cecidissent. plerumque vero damnosi torrentes contrivantur detracta collibus silva continere nimbos ac digerere consueta. et coli moverique terram callumque summae cutis solvi aquarum interest. proditur certe in Creta expugnato oppido quod vocabatur Arcadia cessasse fontes amnesque qui in eo situ multi erant rursus condito post sex annos emersisse, ut quaeque coepissent partes coli.

^a Or: "disperse".

near the sea is flooded only in summer, and especially about the rising of the Dog-star, but less so if the summer is colder than usual. Certain lands become drier in rainy weather, as the region of Narnia; Marcus Cicero included this in his *Marvels*, saying that drought brings mud, and rain dust.

XXIX. All water is sweeter in winter, in summer *Varieties of water.* less so, in autumn least, and less during droughts. The taste of rivers is usually variable, owing to the great difference in river beds. For waters vary with the land over which they flow, and with the juices of the plants they wash. Therefore the same rivers are found in some parts to be unwholesome. Tributaries too alter the flavour of a river, as do those of the Borysthenes, and being absorbed are diluted. Some rivers indeed are also changed by rain. Three times it has happened in the Bosphorus that salt rains fell and ruined the crops, and three times rains have made bitter the inundations of the Nile, a great plague for Egypt.

XXX. Springs arise often when woods have been *Various phenomena of water.* cut down, being used up before as sustenance for the trees; this happened when Cassander was besieging the Gauls after the woods on Mount Haemus had been felled by them to make a rampart. Often indeed devastating torrents unite when from hills has been cut away the wood that used to hold the rains and absorb^a them. It also improves the water supply for the earth to be dug and tilled, and for the hard surface crust to be broken up. It is at any rate reported that in Crete, when a town called Arcadia had been stormed, the many springs and rivers of that region went dry, and six years afterwards, when the town was rebuilt, they reappeared, as each piece of land

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54 Terrae quoque motus profundunt sorbentque aquas, sicut circa Pheneum Arcadiae quinquies accidisse constat. sic et in Coryco monte amnis erupit posteaque¹ coeptus est coli. illa mutatio mira, cuius causa nulla evidens apparet, sicut in Magnesia e calida facta frigida, salis non mutato sapore, et in Caria, ubi Neptuni templum est, amnis qui fuerat ante dulcis
55 mutatus in salem est. et illa miraculi plena, Arethusam Syracusis fimum redolere per Olympia, verique simile, quoniam Alpheus in eam insulam sub maria permeet. Rhodiorum fons in Cherroneso nono anno purgamenta egerit. mutantur et colores aquarum, sicut Babylone lacus aestate rubras habet
56 diebus undecim. et Borysthenes statis² temporibus caeruleus fertur, quamquam omnium aquarum tenuissimus, ideoque innatans Hypani, in quo et illud mirabile, austris flantibus superiorem Hypanim fieri. sed tenuitatis argumentum et aliud est quod nullum halitum, non modo nebulam emittit. qui volunt diligentes circa haec videri dicunt aquas graviores post brumam fieri.

57 XXXI. Ceterum a fonte duci fictilibus tubis utilissimum est crassitudine binum digitorum, commissuris pyxidatis ita ut superior intret, calce viva ex oleo

¹ posteaque *codd.*: posteaquam *cod.* a *vulg.*, *Detlefsen.*

² statis *Mayhoff ex Athen. II. 16*: aestatis *codd.*, *Detlefsen.*

^a With the reading *posteaquam*: "after it came under cultivation."

^b The MSS. reading: "in summer time." Perhaps *aestatis* because a scribe had just written *aestate*.

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levigatis. libramentum aquae in centenos pedes sicilici minimum erit, si cuniculo veniet, in binos actus lumina esse debebunt. quam surgere in sublime opus fuerit plumbo veniat. subit altitudinem exortus sui. si longiore tractu veniet, subeat crebro descend-
58 atque, ne libramenta pereant. fistulas denum pedum longitudinis esse legitimum est et si quinariae erunt sexagena pondo pendere, si octonariae centena, si denariae centena vicena, ac deinde ad has portiones. denaria appellatur cuius lamnae latitudo, antequam curvetur, digitorum decem est, dimidioque eius quinararia. in anfractu omni collis quinarariam fieri, ubi dometur impetus, necessarium est, item castella, prout res exigit.

59 XXXII. Homerum calidorum fontium mentionem non fecisse demirror, cum alioqui lavari calida frequenter induceret, videlicet quia medicina tunc non erat haec quae nunc aquarum perfugio utitur. est autem utilis sulphurata nervis, aluminata paralyticis aut simili modo solutis, bituminata aut nitrosa, qualis
60 Cutilia est, bibendo atque purgationibus. plerique in gloria ducunt plurimis horis perpeti calorem earum, quod est inimicissimum, namque paulo diutius quam balineis uti oportet, ac postea frigida dulci, nec sine oleo discedentes, quod vulgus alienum arbitratur, idcirco non alibi corporibus magis obnoxiiis, quippe et vastitate odoris capita replentur et frigore infestantur sudantia, reliqua corporum parte mersa. similis

^a The *actus* was 120 feet long.

^b I.e. of sulphur.

be at least a quarter of an inch every hundred feet; should it come in a tunnel, there must be vent holes every two *actus*.^a When water is required to form a jet, it should come in lead pipes. Water rises as high as its source. If it comes from a long distance, the pipe should frequently go up and down, so that no momentum may be lost. The usual length for a piece of piping is ten feet; five-finger lengths should weigh 60 pounds, eight-finger lengths 100 pounds, ten-finger lengths 120 pounds, and so on in proportion. A ten-finger pipe is so called when the breadth of the strip before bending is ten fingers, and one half as large a five-finger pipe. At every bend of a hill where the momentum must be controlled, it is necessary to use a five-finger pipe; reservoirs must be made according as circumstances require.

XXXII. I wonder that Homer made no mention of hot springs, and that though he frequently speaks of hot baths, the reason being that modern hydro-pathic treatment was not then a part of medicine. Sulphur waters, however, are good for the sinews, alum waters for paralysis and similar cases of collapse, waters containing bitumen and soda, such as that of Cutilia, are good for drinking and as a purge. Many people make a matter of boasting the great number of hours they can endure the heat of these sulphur waters—a very injurious practice, for one should remain in them a little longer than in the bath, afterwards rinse in cool, fresh water, and not go away without a rubbing with oil. The common people find these details irksome, and so there is no greater risk to health than this treatment, because an overpowering smell ^b goes to the head, which sweats and is seized with chill, while the rest of the body is im-

Hot and medicinal springs.

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error, quam plurimo potu gloriantur. videnturque iam turgidos bibendo in tantum ut anuli integerentur cute, cum reddi non posset hausta multitudo aquae. nec hoc ergo fieri convenit sine crebro salis gustu. 61 utuntur et caeno fontium ipsorum utiliter, sed ita si inlitum sole inarescat. nec vero omnes quae sint calidae medicatas esse credendum, sicut in Segesta Siciliae, Larisa Troade,¹ Magnesia, Melo, Lipara. nec decolor species aeris argentive, ut multi existima-
verunt, medicaminum argumentum est, quando nihil eorum in Patavinis fontibus, ne odoris quidem differentia aliqua deprehenditur.

62 XXXIII. Medendi modus idem et in marinis erit quae calefiunt ad nervorum dolores, feruminanda a fracturis ossa contusa, item corpora siccanda, qua de causa et frigido mari utuntur. praeterea est alius usus multiplex, principalis vero navigandi phthisi adfectis, ut diximus, aut sanguine egesto, sicut proxime Annaeum Gallionem fecisse post consula-
63 tum meminimus. neque enim Aegyptus propter se petitur, sed propter longinquitatem navigandi. quin et vomitiones ipsae instabili volutione commotae plurimis morbis capitis, oculorum, pectoris medentur omnibusque propter quae helleborum bibitur. aquam vero maris per se efficaciorum discutiendis tumoribus putant medici, si illa decoquatur hordeacia farina, ad

¹ *Inter Larisa et Troade comma multi edd.*

^a See XXIV. § 28 and XXVIII. § 54.

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parotidas. emplastris etiam, maxime albis et malag-
64 matis miscent, prodest et infusa crebro ictu. bibitur
quoque, quamvis non sine iniuria stomachi, ad pur-
ganda corpora bilemque atram aut sanguinem con-
cretum reddendum alterutra parte. quidam et in
quartanis dedere eam bidendam et in tenesmis
articulariisque morbis adservatam in hoc, vetustate
virus deponentem, aliqui decoctam, omnes ex alto
haustam nullaque dulcium mixtura corruptam, in quo
usu praecedere vomitum volunt. tunc quoque
65 acetum aut vinum ea aqua miscent. qui puram
dedere raphanos supermandi ex mulso aceto iubent,
ut ad vomitiones revocent. clysteribus quoque
marinam infundunt tepefactum. testium quidem
tumorem fovendo non aliud praeferunt, item pernio-
num vitio ante ulcera, simili modo pruritibus, psoris et
lichenum curationi. lendes quoque et taetra capitis
animalia hac curantur. et liventia reducit eadem
ad colorem.¹ in quibus curationibus post marinam
aceto calido fovere plurimum prodest. quin et ad
ictus venenatos salutaris intellegitur, ut phalangi-
orum et scorpionum, et ptyade aspide respersis,
66 calida autem in his adsumitur. suffitur eadem cum
aceto capitis doloribus. tormina quoque et choleras
calida infusa clysteribus sedant. difficilius per-
frigescunt marina calefacta. mammas sororientes,
praecordia maciemque corporis piscinae maris corri-
gunt, aurium gravitatem, capitis dolores cum aceto
ferventium vapor. rubiginem ferro marinae celer-

¹ colorem *Mayhoff*: colores *codd.*, contra *Plinii usum*.

^a White plasters were made with *cerussa*, white lead. See Celsus V. 19, 2.

ings. It is also an ingredient of plasters, especially white plasters,^a and poultices. It is beneficially used too when poured over in frequent douches. It is also drunk, though not without harm to the stomach, for purging the body and for getting rid of black bile or clotted blood by vomit or stool. Some have also given it to be drunk in quartan agues, in tenesmus, and for diseased joints, keeping it for this purpose, for age takes away its injurious qualities. Some boil it; all draw it up out at sea, use it unspoiled by any addition of fresh water, and in using this remedy prefer that an emetic should precede the draught. Then also they mix with the water vinegar or wine. Those who have given it pure, recommend to eat afterwards radishes with oxymel to provoke further vomiting. Sea water warmed is also injected as an enema. Nothing is preferred to it for fomenting swollen testicles, or for bad chilblains before ulceration; similarly for itching, psoriasis, and the treatment of lichen. Nits too and foul vermin on the head are treated with sea water. It also restores the natural colour to livid patches. In this treatment it is of very great advantage to foment with hot vinegar after the sea water. It is moreover known to be healing for poisonous stings, as of spiders and scorpions, and for persons wetted by the spittle of the asp *ptyas*, but for these purposes it is employed hot. Steam from sea water and vinegar is beneficial for headaches. Colic too and cholera are relieved by warm enemata of sea water. Things warmed by it are harder to cool thoroughly. Swollen breasts, the viscera, and emaciation, are rectified by sea baths, deafness and headache by the vapour of boiling sea water and vinegar. Sea water removes

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rime exterunt, pecorum quoque scabiem sanant lanasque emolliunt.

67 XXXIV. Nec ignoro haec mediterraneis super-
vacua videri posse. verum et hoc cura providit in-
venta ratione qua sibi quisque aquam maris faceret.
illud in ea ratione mirum, si plus quam sextarius salis
in quattuor sextarios aquae mergatur, vinci aquam
salemque non liquari. cetero sextarius salis cum
quattuor aquae sextariis salsissimi maris vim et
naturam implet. moderatissimum autem putant
supra dictam aquae mensuram octonis cyathis salis
temperari, quoniam ita et nervos excaefaciat et
corpus non exasperet.

68 XXXV. Inveteratur et quod vocant thalassomeli
aequis portionibus maris, mellis, imbris. ex alto et
ad hunc usum advehunt fictilique vaso et picato con-
dunt. prodest ad purgationes maxime sine stomachi
vexatione et sapore grato et odore.

69 XXXVI. Hydromeli quoque ex imbre puro cum
melle temperabatur quondam, quod daretur adpe-
tentibus vini aegris veluti innocentiore potu, damna-
tum iam multis annis, isdem vitiis quibus vinum nec
isdem utilitatibus.

70 XXXVII. Quia saepe navigantes defectu aquae
dulcis laborant, haec quoque subsidia demonstrabimus.
expansa circa navem vellera madescunt accepto halitu
maris, quibus dulcis umor exprimitur, item demissae
reticulis in mare concavae ex cera pilae vel vasa

^a It is hard to reconcile this remark with the many pre-
scriptions containing *hydromeli* (*aqua mulsa*) in Pliny. Per-
haps there is a reference here to a particular kind of hydromel.

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- inania opturata dulcem intra se colligunt umorem. nam in terra marina aqua argilla percolata dulcescit.
- 71 luxata corpora et hominum et quadrupedum natando in cuius libeat generis aqua facillime in artus redeunt. est et in metu peregrinantium ut temptent validitatem aquae ignotae. hoc cavent e balneis egressi statim frigidam suspectam hauriendo.
- 72 XXXVIII. Muscus qui in aqua fuerit podagris inutilis prodest, item oleo admixto talorum dolori tumorique. spuma aquae adfrictu verrucas tollit, nec non harena litorum maris, praecipue tenuis et sole candens, in medicina est siccandis corporibus coopertis hydropicorum aut rheumatismos sentientium. et hactenus de aquis, nunc de aquatilibus. ordiemur autem ut in reliquis a principalibus eorum quae sunt salsa ac spongea.
- 73 XXXIX. Sal omnis aut fit aut gignitur, utrumque pluribus modis, sed causa gemina, coacto umore vel siccato. siccatur in lacu Tarentino aestivis solibus, totumque stagnum in salem abit, modicum alioqui, altitudine genua non excedens, item in Sicilia in lacu qui Cocanicus vocatur et alio iuxta Gelam. horum extremitates tantum inarescunt, sicut in Phrygia, Cappadocia, Aspendi, ubi largius coquitur et usque ad medium. aliud etiam in eo mirabile quod tantundem nocte subvenit quantum die auferas. omnis e
- 74 stagnis sal minutus atque non glaeba est. aliud genus ex aquis maris sponte gignitur spuma in extremis litoribus ac scopulis relictis. hic omnis rore

mouth sealed, collect fresh water inside. But on land sea water is made fresh by filtering through clay. Dislocated limbs of both man and quadrupeds are very easily re-set by swimming in any kind of water. Travellers too are sometimes afraid lest unknown water should endanger their health. A precaution against this danger is to drink the suspected water cold immediately on leaving the bath.

XXXVIII. An application of moss that has grown in water is good for gout, and mixed with oil for painful and swollen ankles. Rubbing with foam of water removes warts, as does also sand of the sea shores, especially fine sand whitened by the sun; it is used in medicine as a covering for drying the bodies of patients suffering from dropsy or catarrhs. So much for waters; now for the products of water. I shall begin, as elsewhere, with the chief of them, that is, with salts and sponge. *Moss as a cure.*

XXXIX. All salt is artificial or native; each is formed in several ways, but there are two agencies, condensation or drying up of water. It is dried out of the Tarentine lake by summer sun, when the whole pool turns into salt, although it is always shallow, never exceeding knee height, likewise in Sicily from a lake, called Cocanicus, and from another near Gela. Of these the edges only dry up; in Phrygia, Cappadocia, and at Aspendus, the evaporation is wider, in fact right to the centre. There is yet another wonderful thing about it: the same amount is restored during the night as is taken away during the day. All salt from pools is fine powder, and not in blocks. Another kind produced from sea water spontaneously is foam left on the edge of the shore and on rocks. All this is condensation from drift, *Salt, artificial and native.*

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densatur, et est acrior qui in scopulis invenitur. sunt etiamnum naturales differentiae tres. namque in Bactris duo lacus vasti, alter ad Scythas versus alter ad Arios, sale exaestuant, sicut ad Citium in Cypro et circa Memphin extrahunt e lacu, dein sole siccant. 75 sed et summa fluminum densantur in salem amne reliquo veluti sub gelu fluente, ut apud Caspiae portas quae salis flumina appellantur, item circa Mardos et Armenios. praeterea et apud Bactros amnis Ochus et Oxus ex adpositis montibus deferunt salis ramenta. 76 sunt et in Africa lacus, et quidem turbidi, salem ferentes. ferunt quidem et calidi fontes, sicut Pagasaei. et hactenus habent se genera ex aquis 77 sponte provenientia. sunt et montes nativi salis, ut Indis Oromenus, in quo lapicidinarum modo caeditur renascens, maiusque regum vectigal ex eo est quam ex auro atque margaritis. effoditur e terra, ut palam est umore densato, in Cappadocia. ibi quidem caeditur specularium lapidum modo. pondus magnum 78 glaebis quas micas vulgus appellat. Gerris Arabiae oppido muros domosque e massis salis faciunt aqua feruminantes. invenit et iuxta Pelusium Ptolemaeus rex, cum castra faceret. quo exemplo postea inter Aegyptum et Arabiam etiam squalentibus locis coeptus est inveniri detractis barenis, qualiter et per 79 quidem crescens cum luna noctibus. nam et Cyre-

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naici tractus nobilitantur Hammoniaco et ipso, quia sub barenis inveniatur, appellato. similis est colore alumini quod schiston vocant, longis glaebis neque perlucidis, ingrato sapore, sed medicinae utilis. probatur quam maxime perspicuus, rectis scissuris. insigne de eo proditur quod levissimus intra specus suos in lucem universam prolatus vix credibili pondere ingravescat. causa evidens, cuniculorum spiritu madido sic adiuvante molientes ut adiuvant aquae. adulteratur Siculo quem Cocanicum appellavimus, 80 nec non et Cyprio mire simili. in Hispania quoque citeriore Egelestae caeditur glaebis paene translucetibus cui iam pridem palma a plerisque medicis inter omnia salis genera perhibetur. omnis locus in quo repperitur sal sterilis est nihilque gignit. et in 81 totum sponte nascens intra haec est. facticii varia genera, vulgaris plurimusque in salinis mari adfuso non sine aquae¹ dulcis² riguis, sed imbre maxime iuvante ac super omnia sole multo,³ aliter non inarescens. Africa circa Uticam construit acervos salis ad collium speciem, qui ubi sole lunaque indurere, nullo umore liquescunt vixque etiam ferro caeduntur. fit tamen et in Creta sine riguis mare in salinas infudentibus et circa Aegyptum ipso mari

¹ aquae d: aquis VRE, *Mayhoff*.

² dulcis *codd.*: dulcibus *Mayhoff*.

³ *Post multo in VR que: Mayhoff multo assiduoque coni., multo altoque Brakman.*

^a This salt consists of chlorides of sodium, calcium, and magnesium. The Greek for "sand" is ἄμμος.

^b I.e. "cleft."

^c See § 73.

^d Brakman's *alto* would mean "overhead." Mayhoff also conjectures *lunaque*, as just below.

famous for Hammoniac salt, itself so called because it is found under the sand.^a It is in colour like the alum called *schiston*,^b consisting of long opaque slabs, of an unpleasant flavour, but useful in medicine. That is most valued which is most transparent and splits into straight flakes. A remarkable feature is reported of it: of very little weight in its underground pits, when brought into the light of day it becomes incredibly heavy. The reason is obvious; the damp breath of the pits helps the workers by supporting the weight as does water. It is adulterated by the Sicilian salt I have said^c comes from the lake Cocanicus, as well as by Cyprian salt, which is wonderfully like it. In Hither Spain too at Egelesta salt is cut into almost transparent blocks; to this for some time past most physicians have given the first place among all kinds of salt. Every region in which salt is found is barren, and nothing will grow there. To speak generally, these remarks about the various kinds of native salt are comprehensive. Of artificial salts there are various kinds. The usual one, and the most plentiful, is made in salt pools by running into them sea water not without streams of fresh water, but rain helps very much, and above all much <warm>^d sunshine, without which it does not dry out. In Africa around Utica are formed heaps of salt like hills; when they have hardened under sun and moon, they are not melted by any moisture, and even iron cuts them with difficulty. It is also however made in Crete without fresh water^e by letting the sea flow into the pools, and around Egypt by the sea itself,

^e K. C. Bailey in *Hermathena* for 1926 points out that fresh water could be profitably used only for washing salt already obtained by evaporation.

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82 influente in solum, ut credo, Nilo sucosum. fit et puteis in salinas ingestis. prima densatio Babylone in bitumen liquidum cogitur oleo simile, quo et in lucernis utuntur. hoc detracto subest sal. et in Cappadocia e puteis ac fonte aquam in salinas ingerunt. in Chaonia excocunt aquam ex fonte refrigerandoque salem faciunt inertem nec candidum. Galliae Germaniaeque ardentibus lignis aquam salsam infundunt.

83 XL. Hispaniae quadam sui parte e puteis hauriunt muriam appellantes. illi quidem et lignum referre arbitrantur. quercus optima, ut quae per se cinere sincero vim salis reddat, alibi corylus laudatur. ita infuso liquore salso arbor¹ etiam in salem vertitur. quicumque ligno confit sal niger est. apud Theophrastum invenio Umbros harundinis et iunci cinerem decoquere aqua solitos donec exiguum superesset umoris. quin et e muria salsamentorum recoquitur iterumque consumpto liquore ad naturam suam redit, vulgo e menis incundissimus.

84 XLI. Marinorum maxume laudatur Cyprius a Salamine, de stagnis Tarentinus ac Phrygius qui Tattaeus vocatur. hi duo oculis utiles. e Cappadocia qui in laterculis adfertur cutis nitorem dicitur

¹ arbor E *Detlefsen, Mayhoff*: carbo *ceteri codd., vulg.*

^a Mayhoff takes this sentence as part of the last. It may be a parenthesis.

^b The well attested *carbo* makes good sense, and it bears a strong resemblance to *arbor*. The former is obviously an easier reading, so perhaps Detlefsen and Mayhoff have chosen the harder.

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facere. magis tamen extendit is quem Citium
 appellavimus, itaque a partu ventrem eo cum melan-
 85 thio inlinunt. salissimus sal qui siccissimus, suavissi-
 mus omnium Tarentinus atque candidissimus est,¹ de
 cetero fragilis qui maxime candidus. pluvia dulcescit
 omnis, suaviolem tamen rores faciunt, sed copiosum
 aquilonis flatus. austro non nascitur. flos salis non
 fit nisi aquilonibus. in igni nec crepitat nec exilit
 Tragasaes neque Acanthus ab oppido appellatus,
 86 nec ullius spuma aut² ramenta aut tenuis.³ Agri-
 gentinus ignium patiens ex aqua exilit.⁴ sunt
 et colorum differentiae. rubet Memphi, rufus est
 circa Oxum, Centuripis purpureus, circa Gelam in
 eadem Sicilia tanti splendoris ut imaginem recipiat.
 in Cappadocia crocinus effoditur, tralucidus et
 odoratissimus. ad medicinae usus antiqui Taren-
 tinum maxime laudabant, ab hoc quemcumque e
 marinis, ex eo genere spumeum praecipue, iumen-
 torum vero et boum oculis Tragasaesum et Baeticum.
 87 ad opsonium et cibum utilior quisquis facile liquescit,
 item umidior, minorem enim amaritudinem habent,
 ut Atticus et Euboicus. servandis carnibus aptior
 acer et siccus, ut Megaricus. conditur etiam odori-
 bus additis et pulmentarii vicem implet, excitans
 aviditatem invitansque in omnibus cibus ita, ut sit

¹ est *Urlichs, Detlefsen*: set *Mayhoff*: et *codd.*

² aut at *Er*: aut ab *Detlefsen*: *om.* at *ceteri codd.*

³ ramenta aut tenuis *ego*: ramento tenuis *Detlefsen*: ramen-
 tum tenuius *Mayhoff*: ramento aut tenuis *codd.*

⁴ ignium patiens ex aqua exilit *Detlefsen, Mayhoff, codd.*
 ignis impatiens atque exilit *K. C. Bailey.*

^a See § 74.

^b See XIII. § 14 and XXXI. § 90.

^c Tragasa and Acanthus.

comes from Citium^a smooths the skin better, and so after child-birth it is applied with melanthium to the abdomen. The saltiest salt is the driest, the most agreeable and whitest of all is the Tarentine; for the rest, it is the whitest that is the most friable. All salt is made sweet by rain water, more agreeable, however, by dew, but plentiful by gusts of north wind. It does not form under a south wind. Flower of salt^b forms only with north winds. Tragasaean salt and Acanthian, so named after towns,^c neither crackles nor sputters in a fire, nor does froth^d of any salt, or scrapings, or powder. Salt of Agrigentum submits to fire and sputters in water.^e The colour too of salt varies: blushing red at Memphis, tawny red near the Oxus, purple at Centuripae, it is of such brightness near Gela (also in Sicily) that it reflects an image. In Cappadocia salt is quarried of a saffron colour, transparent, and very fragrant. For medicinal purposes the ancients used to favour most highly Tarentine salt, next, all kinds of sea salt, and of these especially that from foam, while for the eyes of draught animals and cattle salt of Tragasa and Baetica. To season meats and foods the most useful one melts easily and is rather moist, for it is less bitter, such as that of Attica and Euboea. For preserving meat the more suitable salt is sharp and dry, like that of Megara. A conserve too is made with fragrant additions, which is used as a relish, creating and sharpening an appetite for every kind

Other varieties.

^a See § 74.

^e K. C. Bailey's emendation in *Hermathena* 1926 is contrary to passages in Isodore (16. 2. 4 and 14. 6. 34), Solinus (*Polyist.* 5. 18), and Augustine (*De Civ. Dei* 21. 5). He suggests that either "Agrigentum salt" was lime, or that a mistake occurred in Pliny's MSS. very early.

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peculiaris ex eo intellectus inter innumera condi-
88 menta ciborum item in mandendo quaesitus garo.¹
quin et pecudes armentaque et iumenta sale maxime
sollicitantur ad pastus multum largiore lacte multo-
que gratiore etiam in caseo dote. ergo, Hercules,
vita humanior sine sale non quit degere,² adeoque
necessarium elementum est uti transierit intellectus
ad voluptates animi quoque nimias.³ sales appel-
lantur, omnisque vitae lepos et summa hilaritas
laborumque requies non alio magis vocabulo constat.
89 honoribus etiam militiaeque interponitur salariis
inde dictis magna apud antiquos auctoritate, sicut
apparet ex nomine Salariae viae, quoniam illa salem
in Sabinos portari convenerat. Ancus Marcius rex
salis modios $\bar{v}i$ in congiario dedit populis et salinas
primus instituit. Varro etiam pulmentarii vice usos
veteres auctor est, et salem cum pane esitasse eos
proverbio apparet. maxime tamen in sacris intelle-
gitur auctoritas, quando nulla conficiuntur sine mola
salsa.

90 XLII. Salinarum sinceritas summam fecit suam
differentiam quandam favillam salis quae levissima
ex eo est et candidissima. appellatur et flos salis in
totum diversa res umidiorisque naturae et crocei
coloris aut rufi, veluti rubigo salis, odore quoque

¹ item in mandendo quaesitus garo *Mayhoff*: ciborum in
mandendo quaesitus garo *Detlefsen*: item E² a: ita E¹:
iterum *multi codd.*: “locus adhuc corruptus” (*Mayhoff*).

² degere *codd. et edd.*: degi *coni.* *Mayhoff*: degier *coni.*
Brakman.

³ nimias *ego*: eximias *Mayhoff*: nimia *codd.*: *del. Detlefsen*.

^a The exact text is very uncertain, but the general sense is clear.

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ingrato ceu gari dissentiens a sale, non modo a spuma. Aegyptus invenit, videturque Nilo deferri. et fontibus tamen quibusdam innatat. optimum ex eo quod olei quandam pinguitudinem reddit. est enim etiam in sale pinguitudo, quod miremur. adulteratur autem tinguiturque rubrica aut plerumque testa trita, qui fucus aqua deprehenditur diluente facticium colorem, cum verus ille non nisi oleo resolvatur et unguentarii propter colorem eo maxime utantur, canitia in vasis summa est, media vero pars umidior. ut diximus. floris natura aspera, excalfactoria, stomacho inutilis, sudorem ciet, alvum solvit in vino et aqua, acopis et zmeticis utilis. detrahit et ex palpebris pilos. ima faecis concutiuntur, ut croci color redeat. praeter haec etiamnum appellatur in salinis salsugo, ab aliis salsilago, tota liquida, a marina aqua salsiore vi distans.

93 XLIII. Aliud etiamnum liquoris exquisiti genus, quod garum vocavere, intestinis piscium ceterisque quae abicienda essent sale maceratis, ut sit illa putrescentium sanies. hoc olim conficiebatur ex pisce quem Graeci garon vocabant, capite eius usto suffito
 94 extrahi secundas monstrantes. nunc e scombro pisce laudatissimum in Carthagini Spartariae cetariis—sociorum id appellatur—singulis milibus nummum

^a See § 90. This whole chapter is confused. The first sentence does not contain the term *flos salis*, although the *et* of the second sentence implies that it does. This white salt is apparently referred to in *canitia . . . diximus*, a sentence placed in the middle of a description of a saffron or red salt. It seems hopeless to attempt to emend, and the faulty structure may be due to Pliny himself. The sentence *canitia . . . diximus* is probably an interpolation, and in any case hard to understand.

like that of garum, and is different from salt, not only from foam salt. Egypt discovered it, and it appears to be brought down by the Nile. It also however floats on the surface of certain springs. The best kind of it yields a sort of oily fat, for there is, surprising as it may seem, a fat even in salt. It is adulterated too and coloured by red ochre, or usually by ground crockery; this sham is detected by water, which washes out the artificial colour, while the genuine is only removed by oil, and perfumers use it very commonly because of its colour. In vessels the whiteness is seen on the surface, but the inner part, as I have said,^a is moister. The nature of flower of salt is acrid, heating, bad for the stomach, sudorific, aperient when taken in wine and water, and useful for anodynes and detergents. It also removes hair from eye-lids. The sediment is shaken up in order to restore the saffron colour. Besides these salines there is also what is called at the salt-pools *salpugo*, or sometimes *salsilago*. It is entirely liquid, differing from sea brine by its more salty character.

XLIII. There is yet another kind of choice liquor, *Garum*, called garum, consisting of the guts of fish and the other parts that would otherwise be considered refuse; these are soaked in salt, so that garum is really liquor from the putrefaction of these matters. Once this used to be made from a fish that the Greeks called *garos*; they shewed that by fumigation with its burning head the after-birth was brought away. Today the most popular garum is made from the scomber ^b in the fisheries of Carthago Spartaria ^c—it is called garum of the allies—one thousand sesterces being

^b Probably the mackerel.

^c "Carthago where broom grows," New Carthage.

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permutantibus congios fere binos. nec liquor ullus paene praeter unguenta maiore in pretio esse coepit, nobilitatis etiam gentibus. scombros quidem et Mauretania Baeticaeque Carteia ex oceano intrantes capiunt ad nihil aliud utiles. laudantur et Clazomenae garo Pompeique et Leptis, sicut muria Antipolis ac Thuri, iam vero et Delmatia.

- 95 XLIV. Vitium huius est allex atque imperfecta nec colata faex. coepit tamen et privatim ex inutili pisciculo minimoque confici. apuam nostri, aphyen Graeci vocant, quoniam is pisciculus e pluvia nascitur. Foroiulienses piscem ex quo faciunt lupum appellant. transiit deinde in luxuriam, creveruntque genera ad infinitum, sicuti garum ad colorem mulsi veteris adeoque suavitatem dilutum¹ ut bibi possit. aliud vero . . .² castimoniarum superstitioni etiam sacrisque Iudaeis dicatum, quod fit e piscibus squama carentibus. sic allex pervenit ad ostreas, echinos, urticas maris, mullorum iocinera, innumerisque generibus ad saporis gulae coepit sal tabescere.
- 96 haec obiter indicata sint desiderii vitae, et ipsa tamen non nullius usus in medendo. namque et allece scabies pecoris sanatur infusa per cutem incisam, et contra canis morsus draconisve marini prodest, in
- 97 linteolis autem concerptis inponitur. Et garo ambusta recentia sanantur, si quis infundat ac non nominet garum. contra canum quoque morsus

¹ suavitatem dilutum *Mayhoff*: dilutam suavitatem *codd.*

² ad *codd.*: est *Mayhoff*: post ad lacunam indicat *Detlefsen.*

^a The *congius* was nearly six pints.

^b As *allex* is feminine, and *aliud* neuter, it seems best to suppose that there is a lacuna here, but Pliny may be thinking of *garum*, to which he has just reverted.

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prodest maximeque crocodili et ulceribus quae serpunt aut sordidis. oris quoque et aurium ulceribus aut doloribus mirifice prodest. muria quoque sive illa salsugo spissat, mordet, extenuat, siccatur, dysintericis utilis, etiam si nome intestina corripit, ischiadicis, coeliacis veteribus infunditur. fotu quoque apud mediterraneos aquae marinae vicem pensat.

- 98 XLV. Salis natura per se ignea est et inimica ignibus, fugiens eos, omnia erodens, corpora vero adstringens, siccans, adligans, defuncta etiam a putrescendi tabe¹ vindicans, ut durent ea per saecula, in medendo vero mordens, adurens, repurgans, extenuans, dissolvens, stomacho tantum inutilis, praeterquam ad excitandam aviditatem. adversus serpentium morsus cum origano, melle, hysopo, contra cerasten cum origano et cedria² aut pice aut melle.
- 99 auxiliatur contra scolopendras ex aceto potus, adversus scorpionum ictus cum quarta parte lini seminis ex oleo vel aceto inlitus, adversus crabrones vero et vespas similiaque ex aceto, ad heterocranias capitisque ulcera et pusulas papulasve et incipientes verrucas cum sebo vitulino, item³ oculorum remediis et ad excrescentes ibi carnes totiusque corporis pterygia, sed in oculis peculiariter, ob id collyriis emplastrisque additus—ad haec maxime probatur Tattaeus aut
- 100 Caunites—ex ictu vero suffusis cruore oculis suggillatisque cum murræ pari pondere ac melle aut cum

¹ tabe *Ianus*: tabo *Detlefsen*: ta V: to R: ita E *vulg.*

² cedria *Hermolaus Barbarus*: cedro *codd.*

³ *Post item velit in addere Mayhoff.*

^a See § 92.

^b Horned viper.

especially those of the crocodile, and for spreading or foul ulcers. For ulcers too or pains in mouth or ears it is wonderfully good. Muria too or the salsugo I spoke of ^a is astringent, biting, reducing and drying, useful for dysentery, even if there is ulceration of the bowels. It is injected for sciatica and chronic coeliac disease. Among inland peoples it also takes the place of sea water for fomentations.

XLV. The nature of salt is of itself fiery, and yet it is hostile to fires, fleeing from them, corroding all things, but astringent to the body, drying it and binding, preserving corpses also from corruption so that they last for ages; in medicine however it is mordent, caustic, cleansing, reducing, and resolvent, injurious only to the stomach except in so far as it stimulates the appetite. For the bites of serpents it is used with origanum, honey, and hyssop, for the cerastes ^b with origanum and cedar resin, or pitch, or honey. It is helpful for bite of the scolopendra if taken internally with vinegar, for scorpion stings if applied in oil or vinegar with a fourth part of linseed, but for hornets, wasps, and similar creatures, in vinegar only, for migraine, ulcers on the head, blisters, pimples, and incipient warts, with veal suet. It is also used in eye remedies, for excrescences of flesh there, and for *pterygia* ^c anywhere on the body, but especially on the eyes, and so it is an ingredient of eye salves and plasters; for these purposes Tattaean salt or that of Caunus is the most approved. For eyes bloodshot from a blow, however, and for bruised eyes, it is used with an equal weight of myrrh and with honey, or with hyssop in warm water, and the eyes

*Use of salt
in medicine*

^c Either (a) whitlows or (b) inflammatory swellings of the eye.

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hysopo ex aqua calida, utque foveantur salsugine.
 ad haec Hispaniensis eligitur, contraque suffusiones
 oculorum cum lacte in coticulis teritur, privatim sug-
 gillationibus in linteolo involutus crebroque ex aqua
 ferventi inpositus, ulceribus oris manantibus in linteolo
 concerpto, gingivarum tumori infricatus et contra
 101 scabritiem linguae fractus comminutusque. aiunt
 dentes non erodi nec putrescere, si quis cotidie mane
 ieiunus salem contineat sub lingua donec liquescat.
 lepras idem et furunculos et lichenas et psoras emen-
 dat cum passa uva exempto eius ligno et sebo bubulo
 atque origano ac fermento vel pane—maxime
 Thebaicus ad haec et pruritus eligitur—tonsillis et
 uvis cum melle prodest.¹ quicumque ad anginas,
 hoc amplius cum oleo et aceto eodem tempore extra
 102 faucibus inlitus cum pice liquida. emollit et alvum
 vino mixto, innoxie² et taenearum genera pellit in vino
 potus. aestus balnearum convalescentes ut tolerare
 possint linguae subditus praestat. nervorum dolorem,
 maxime circa umeros et renes, in saccis aqua ferventi
 crebro candefactus levat, colum torminaque et cox-
 arum dolores potus et in isdem saccis inpositus
 candens, podagras cum farina ex melle et oleo tritus,
 ibi maxime usurpanda observatione quae totis cor-
 poribus nihil esse utilius sale et sole dixit. itaque³
 103 cornea videmus corpora piscatorum. sed hoc prae-
 cipuum dicatur⁴ in podagris. tollit et clavos pedum,
 item perniones. ambustis ex oleo inponitur aut com-

¹ *Non post prodest sed quicumque comma Mayhoff.*

² *innoxie dT Mayhoff: innoxio V Detlefsen: innoxia RE.*

³ *itaque dTEr: utique coni. Ianus.*

⁴ *dicatur codd.: iudicatur Mayhoff.*

^a See § 92.

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manducatus pusulasque reprimit, ignibus vero sacris
ulceribusque quae serpant ex aceto aut hysopo,
carcinomatis cum uva taminia, phagedaenis ulcerum
tostus cum farina hordei, superinposito linteolo
madente vino. morbo regio laborantes, donec sudent
ad ignem, contra pruritus quos sentiunt ex oleo et
104 aceto infricatus iuvat, fatigatos ex oleo. multi et
hydropicos sale curavere fervoresque febrium cum
oleo perunxere et tussim veterem linctu eius dis-
cussere, clysteribus infudere ischiadicis, ulcerum
excrescentibus vel putrescentibus inposuere, croco-
dilorum morsibus ex aceto in linteolis ita ut battue-
rentur ante ulcera. bibitur et contra opium ex aceto
mulso, luxatis inponitur cum farina et melle, item
105 extuberationibus. dentium dolori cum aceto fofus
et inlitus cum resina prodest. ad omnia autem
spuma salis iucundior utiliorque. sed quicumque
sal acopis additur ad excalfactiones, item zmegmatis
ad extendendam¹ cutem levandamque. pecorum
quoque scabiem et boum inlitus tollit, daturque lin-
gendus et oculis iumentorum inspuitur. haec de sale
dicta sint.

106 XLVI. Non est differenda et nitri natura, non
multum a sale distans et eo diligentius dicenda, quia
palam est medicos qui de eo scripserunt ignorasse
naturam nec quemquam Theophrasto diligentius
tradidisse. exiguum fit apud Medos canescentibus

¹ extendendam E r *vulg.*: extenuendam VR: extenuandam dT.

^a Pliny seems to have confused the verbs βάπτω (Dioscorides) and τύπτω.

chewed. It checks blisters, but for erysipelas and for creeping ulcers vinegar or hyssop is added, for carcinomata taminian grapes, while for phagedaenic ulcers it is roasted with barley meal, a linen cloth being placed on top, soaked in wine. Sufferers from jaundice are helped by rubbing with salt, oil, and vinegar before a fire until they sweat; this relieves the itching caused by this disease. Oil should be used in cases of fatigue. Many have treated dropsy too with salt, rubbed with salt and oil hot feverish patients, stayed a chronic cough by licking it, injected salt enemas into sufferers from sciatica, applied it to swollen or festering ulcers, and treated crocodile bites by salt and vinegar in lint cloths, taking care first to flog ^a the sores with them. Salt is taken in oxymel for poisoning by poppy-juice, with flour and honey it is applied to dislocations, and also to tumours. Fomenting with salt and vinegar, or an application of salt and resin, is good for tooth-ache. But for all purposes foam of salt is more pleasant and more beneficial. Salt however of any kind is added to anodynes for a warming effect, also to detergents for stretching and smoothing the skin. An application of salt removes itch-scab in sheep and oxen; salt is also given to be licked, and it is spit into the eyes of draught animals. This must suffice for my account of salt.

XLVI. I must not put off describing the character *Soda.* of soda, which is very similar to salt; a more careful account must be given because it is plain that the physicians who have written about it were ignorant of its character, and that nobody has given a more careful description than Theophrastus. A little is formed in Media in valleys that are white through

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siccitate convallibus, quod vocant halmyraga, minus
 etiam in Thracia iuxta Philippos, sordidum terra quod
 107 appellant agrium. nam quercu cremata numquam
 multum factitatum est et iam pridem in totum
 omisum. aquae vero nitrosae plurimis in locis rep-
 periuntur, sed sine viribus densandi. optimum copio-
 sumque in Clitis¹ Macedoniae, quod vocant Chales-
 tricium, candidum purumque, proximum sali. lacus
 est nitrosus exiliente e medio dulci fonticulo. ibi fit
 nitrum circa canis ortum novenis diebus totidemque
 108 cessat ac rursus innatat et deinde cessat. quo
 apparet soli naturam esse quae gignat, quoniam
 compertum est nec soles proficere quicquam, cum
 cesset, nec imbres. mirum et illud, scatebra fonticuli
 semper emicante lacum neque augeri neque effluere.
 his autem diebus quibus gignitur si fuere imbres,
 salsius nitrum faciunt, aquilones deterius, quia vali-
 109 dius commovent limum. et hoc quidem nascitur,
 in Aegypto autem conficitur multo abundantius,
 sed deterius. nam fuscum lapidosumque est. fit
 paene eodem modo quo sal, nisi quod salinis mare
 infundunt, Nilum autem² nitrariis. hae † cedente †
 Nilo³ siccantur, † decedente † madent suco nitri XL

¹ in Clitis] *coni. inclutis (aquis) Mayhoff.*

² autem E: autem mo VRd: autumno *Mayhoff.*

³ Nilo . . . decedente *om.* VR¹dT: accedente Nilo rigan-
 tur, decedente *Mayhoff*: excedente Nilo siccantur, recedente
Detlefsen: cedente *codd.*: decedente (-tem E) Er: *uncos ego*
posui.

^a I.e. "wild soda."

^b Mayhoff's guess makes an adjective (*inclutis*) of "in
 Clitis," meaning "famous."

^c A *locus nondum sanatus*. From the next sentence it is
 clear that the flow into the beds was controlled, so that it
 appears that only the falling Nile was admitted. This would

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diebus continuis, non ut in Macedonia statis.¹ si etiam imbres adfuerunt, minus ex flumine addunt, statimque ut densari coeptum est, rapitur, ne resolvatur in nitrariis. sic² quoque olei natura intervenit, ad scabiem animalium utilis. ipsum autem conditum
110 in acervis durat. mirum in lacu Ascanio et quibusdam circa Chalcida fontibus summas aquas dulces esse potarique, inferiores nitrosas. in nitro optimum quod tenuissimum, et ideo spuma melior, ad aliqua tamen sordidum, tamquam ad inficiendas purpuras tincturasque omnes. magnus et vitro usus, qui
111 dicetur suo loco. nitrariae Aegypti circa Naucraticum et Memphin tantum solebant esse, circa Memphin deteriores. nam et lapidescit ibi in acervis, multique sunt cumuli ea de causa saxei. faciunt ex his vasa, nec non et frequenter liquatum cum sulphure coquentes. in corporibus³ quoque quae⁴ inveterari volunt illo nitro utuntur. sunt ibi nitrariae in quibus
112 et rufum exit a colore terrae. spumam nitri, quae maxime laudatur, antiqui negabant fieri nisi cum ros cecidisset praegnantibus nitrariis, sed nondum parientibus. itaque non fieri incitatis, etiamsi caderet.
113 alii acervorum fermento gigni existimavere. proxima aetas medicorum aphronitrum tradidit in Asia colligi

¹ *statis codd.*: *cessantis coni. Mayhoff.*

² *sic codd.*: *hic vet. Dal., Mayhoff.*

³ *corporibus coni. K. C. Bailey, Hermathena 1926*: *carnibus Ianus, Detlefsen, Mayhoff*: *carbonibus codd.*

⁴ *quae Bailey*: *quas codd.*

^a Or, with the reading *hic*, "here."

forty days on end, and not as in Macedonia during fixed periods. If rain also has fallen, they add less river water, and gather at once the soda that has begun to solidify, lest it should melt back into the soda-bed. Thus ^a too oily matter forms among the soda, useful for itch-scab on animals. Soda however, stored in heaps, lasts a long time. A wonder of Lake Ascanius and of certain springs around Chalcis is that the surface water is sweet and drinkable but underneath is alkaline. Of soda the best is the finest, and therefore froth of soda is superior, but for some purposes the impure is good, for example colouring purple cloths and all kinds of dyeing. Soda is of great use in the making of glass, as will be described in its proper place.^b The soda-beds of Egypt used to be confined to the regions around Naucratis and Memphis, the beds around Memphis being inferior. For the soda becomes stone-like in heaps there, and many of the soda piles there are for the same reason quite rocky. From these they make vessels, and frequently by baking melted soda with sulphur. For the bodies too that they wish to embalm this is the soda they use. In this region are soda-beds from which red soda also is taken owing to the colour of the earth. Foam of soda, which is very highly prized, the ancients said was formed only when dew had fallen on beds teeming with soda but not yet bringing it forth; accordingly, even if dew fell, soda did not form on beds in agitated action. Others have thought that foam is produced by fermentation of the heaps. The last generation of physicians said that in Asia was gathered aphronitrum ^c oozing in

^b XXXVI. § 193.

^c A Greek word meaning "soda foam."

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in speluncis mollibus¹ destillans—specus eos colligas² vocant—dein siccant sole. optimum putatur Lydium; probatio, ut sit minime ponderosum et maxime fricabile, colore paene purpureo. hoc in pastillis adfertur, Aegyptium in vasis picatis,³ ne liquescat. vasa quoque ea sole inarescentia perficiuntur. 114 nitri probatio, ut sit tenuissimum et quam maxime spongeosum fistulosumque. adulteratur in Aegypto calce, deprehenditur gustu. sincerum enim statim resolvitur, adulteratum calce pungit et asperum⁴ reddit odorem vehementer. uritur in testa opertum ne exultet, alias igni non exilit nitrum, nihilque gignit aut alit, cum in salinis herbae gignantur et in mari tot animalia, tantum algae. 115 sed maiorem esse acrimoniam nitri apparet non hoc tantum argumento sed et illo quod nitrariae calciamenta protinus consumunt, alias salubres oculorumque claritati utiles. in nitrariis non lippiunt. ulcera allata eo celerrime sanantur, ibi facta tarde. ciet et sudores cum oleo perunctis corpusque emollit. in pane salis vice utuntur Chalestraeo, ad raphanos Aegyptio, teneriores eos facit, sed obsonia alba et deteriora, olera viridiora. in medicina autem calfacit, extenuat, mordet, spissat, siccatur, exulcerat,

¹ mollibus VRdTf: canalibus *Detlefsen*: molibus *Gelenius*, *Mayhoff*, qui etiam nobilibus vel madidis coni.

² colligas (-gans E¹) *codd.*, *Mayhoff*: Corycias *Detlefsen*: alii alia.

³ picatis d *vulg.*, *Mayhoff*: spissatum *Detlefsen*: spissatis RE.

⁴ asperum *cod. a*, *Detlefsen*: aspersum d *vulg.* *Mayhoff*: aspersu VRf.

^a Usually emended. But the word *mollis* may refer to a cave with soft sides and floor, through which soda might ooze.

^b This word is probably corrupt.

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- 116 utile his quae evocanda sint aut discutienda et lenius mordenda atque extenuanda, sicut in papulis pusulisque. quidam in hoc usu accensum vino austero restingunt atque ita trito in balneis utuntur sine oleo. sudores nimios inhibet cum iride arida adiecto oleo viridi, extenuat et cicatrices oculorum et scabritias genarum cum fico inlitum aut decoctum in passo ad dimidias partes, item contra argema, oculorum ungues.
- 117 decoctum cum passo in¹ mali Punici calyce adiuvat claritatem visus cum melle inunctum. prodest dentium dolori ex vino, si cum pipere colluantur; item cum porro decoctum nigrescentes dentes, crematum dentrifricio, ad colorem reducit. capitis animalia et lendes necat cum Samia terra inlitum ex oleo. auribus purulentis vino liquatum infunditur, sordes eiusdem partis erodit ex aceto, sonitus et tin-
- 118 nitus discutit siccum additum. vitiligines albas cum creta Cimolia aequo pondere ex aceto in sole inlitum emendat. furunculos admixtum resinae extrahit, aut² cum uva alba passa nucleis eius simul tritis. testium inflammationi occurrit, item eruptionibus pituitae in toto corpore cum axungia, contraque canis morsus addita et resina † inlitis †.³ cum aceto inlinitur. sic et serpentium morsibus, phagedaenis et ulceribus quae serpunt aut putrescunt cum calce ex aceto. hydropicis cum fico tusum datur inliniturque. discu-

¹ cum passo in *codd.*: in passo cum *Mayhoff*.

² extrahit aut *codd.*: extrahit *Mayhoff*.

³ inlitis VV^dR *Mayhoff*: inlitis E r *Detlefsen*: *uncos ego addidi*.

^a With *Mayhoff*'s reading: "in raisin wine with pomegranate rind."

^b In this part at any rate of *Pliny* the first words of each clause seem to indicate the complaint. This fact should, I

for conditions where there must be withdrawal, dispersal, and gentle stinging and alleviation, as with pimples and blisters. Some for this purpose set it on fire and put it out with a dry wine, and use it so prepared and ground in the bath without oil. Excessive sweats are checked by soda with dried iris and the addition of green oil; it also improves scars on the eyes and roughness of the lids if applied with fig, or boiled down to one half in raisin wine, a preparation too which is used for white ulcers and inflamed swellings on the eyes. Boiled down with raisin wine in a pomegranate rind,^a and applied with honey, it improves vision. Soda is good for toothache if a mouth-wash is made by adding pepper and wine. Boiled down too with leek, and burnt to make a dentifrice, it restores the colour of blackening teeth. Insects and nits on the head it kills if applied in oil with Samian earth. Dissolved in wine it is poured into purulent ears; wax in the same organ it eats away in vinegar; noises and singing it stops if added dry. Applied in sunshine with vinegar and an equal weight of Cimolian chalk it cures the white kinds of psoriasis. It brings to a head boils, either mixed with resin or with white raisins, the pips being ground up with them. With axle-grease it combats inflammation of the testicles, and also outbursts of phlegm on the whole body; it is applied with vinegar, resin being added, to dog-bites. This preparation is used for snake bites; for phagedaenic, creeping, or festering ulcers, with lime and vinegar; for dropsy it is pounded with figs and administered by the mouth and externally.^b Griping pains too it think, determine the punctuation. Editors differ widely in this.

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119 tit et tormina, si decoctum bibatur pondere drachmae cum ruta vel aneto vel cumino. reficit lassitudines cum oleo et aceto perunctorum, et contra algores horroresque prodest manibus pedibusque confricatis cum oleo. conprimit et pruritus suffusorum felle, maxime cum aceto in sudore datum.¹ succurrit et venenis fungorum ex posca potum aut, si buprestis hausta sit, ex aqua, vomitionesque evocat. his qui sanguinem
120 tauri biberint cum lasere datur. in facie quoque exulcerationes sanat cum melle et lacte bubulo. ambustis tostum donec nigrescat tritumque inlinitur. infunditur † urceis †² et renium dolori aut rigori corporum nervorumve doloribus. paralysi in lingua cum pane inponitur. suspiriosis in tisana sumitur.
121 tussim veterem sanat flore, mixto galbano resinae terebinthinae, pari pondere omnium ita, ut fabae magnitudo devoretur. coquitur dilutumque postea cum pice liquida sorbendum in angina datur. flos eius cum oleo cypreo et articulorum doloribus in sole iucundus est. regium quoque morbum extenuat in potione vini et inflationes discutit, sanguinis profluvium e naribus sistit ex ferventi aqua vapore naribus
122 raptu. porriginem alumine permixto tollit, alarum virus ex aqua cottidiano fotu, ulcera ex pituita nata cera permixtum, quo genere nervis quoque prodest. coeliacis infunditur. perungui ante accessiones

¹ in sudore datum *Sillig*: instillatum *Mayhoff*: insudatum *codd.*

² urceis *codd.*: ventris *Caesarius*: vesicae *Mayhoff*. *War-mington* umeris *coni.*

^a The *urceis* of all the MSS. seems corrupt, and no proposed emendation explains the cause of the corruption. *Mayhoff's vesicae* is the word usually associated in Pliny with *renium*.

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PLINY: NATURAL HISTORY

frigidas nitro et oleo multi praecepere, sicut adversus lepras, lentigines; podagris in balneis uti. solia nitri prosunt atrophis, opisthotonis, tetanis. sal nitrum sulphuri concoctum in lapidem vertitur.

123 XLVII. Spongearum genera diximus in naturis aquatilium marinorum. quidam ita distingunt: alias ex his mares tenui fistula spissioresque, persorbentes, quae et tinguntur in deliciis, aliquando et purpura; alias feminas maioribus fistulis ac perpetuis; mari-
 bus¹ alias duriores, quas appellant tragos, tenuis-
 124 simis fistulis atque densissimis. candidae cura fiunt: e mollissimis recentes per aestatem tinctae salis spuma ad lunam et pruinas sternuntur inversae, hoc est qua parte adhaesere, ut candorem bibant. animal esse docuimus, etiam cruore inhaerente. aliqui narrant et auditu regi eas contrahique ad sonum, exprimentes abundantiam umoris, nec avelli petris posse, ideo abscidi ac saniem remittere. quin et eas² quae ab aquilone sint genitae praeferunt ceteris, nec usquam diutius durare spiritum medici adfirmant. sic et prodesse corporibus, quia nostro suum misceant, et ideo magis recentes magisque umidas, sed minus

¹ maribus *codd.*: e maribus *Hermolaus Barbarus*: in mari-
 bus *Sillig.*

² *Ante eas lacunam indicat Mayhoff, qui fere abscisas aliquamdiu vivere excidisse putat.*

^a Or: "the undernourished."

^b For *nitrum* see Additional Note, p. 568.

^c Book IX. § 148.

^d The adjective *perpetuus* in this context is difficult. It could mean "never closed," referring to sponges growing in the sea, or "connected with one another," used of the sponges of commerce. See Additional Note, p. 567.

^e Or: *e (or in) maribus*: "of the males, the harder."

^f A Greek word, *τράγοι*, "goats." ^g See IX. § 149.

with soda and oil before the chills of fever come on, and so to use it for leprous sores and freckles; and they prescribe its use in the bath for gouty people. Soda baths are good for consumptives,^a and for the victims of opisthotonus and other forms of tetanus. Salt and soda, when heated with sulphur, turn to stone.^b

XLVII. Of the kinds of sponges I have spoken ^c *Sponges.* when describing the nature of marine creatures. Certain authorities classify them thus: some sponges, the males, have little holes, and are more compact and very absorbent; they are also dyed for the luxurious, sometimes even with purple; others, the females, have larger and uninterrupted ^d holes; others, harder ^e than the males, called *tragi*,^f have very small holes that are very close together. Sponges are whitened artificially. Fresh sponges, of the softest kind, are soaked in foam of salt throughout the summer, and then laid open to the moon and hoar-frosts upside down, that is, with the side uppermost that adhered to the rocks, so that they may drink in whiteness. I have said ^g that sponges are animal, being even lined with a coating of blood. Some also declare that they are guided by a sense of hearing, and contract at a noise, sending out a great quantity of moisture; that they cannot be torn from the rocks, and therefore are cut off, bleeding sanies. Moreover, those ^h growing exposed to the north-east they prefer to others, and physicians declare that nowhere else does their breath last for a longer time. Such too, they say, are beneficial to the human body, because they mix their breath with

^h The lacuna supposed by Mayhoff to be here he would fill up by words roughly meaning: "that cut off they live for a considerable time."

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in calida aqua minusque unctas aut unctis corporibus
inpositas et spissas minus adhaerescere.¹ mollis-
125 simum genus earum penicilli. oculorum tumores se-
dant ex mulso inpositi, iidem abstergendae lippitudini,
utilissime ex aqua; tenuissimos esse mollissimosque
oportet. inponuntur et spongeae ipsae epiphoris ex
posca et aceto calido ad capitis dolores. de cetero
recentes discutiunt, mitigant, molliunt, veteres non
glutinant vulnera. usus carum ad abstergenda,
fovenda, operienda a fotu, dum aliud inponatur.
126 ulcera quoque umida et senilia inpositae siccant.
fracturae et vulnera spongeis utilissime foveantur.
sanguis rapitur in secando, ut curatio perspici possit.
et ipsae vulnerum inflammationibus inponuntur nunc
siccae, nunc aceto adpersae nunc vino, nunc ex aqua
frigida; ex aqua vero caelesti inpositae secta recentia
127 non patiuntur intumescere. inponuntur et integris
partibus, sed fluctione occulta laborantibus quae dis-
cutienda sit, et his quae apostemata vocant melle
decocto perunctis, item articulis alias aceto salso
madidae, alias e posca; si ferveat impetus, ex

¹ adhaerescere *Er vulg.*: adhaescente *aut* adhaescentem
ceteri codd.: adhaescentes *Mayhoff*.

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aqua. eaedem¹ callo e salsa, at contra scorpionum
ictus ex aceto. in vulnerum curatione et succidae
lanae vicem implent² ex eadem; differentia haec,
quod lanae emolliunt, spongeae coercent rapiuntque
128 vitia ulcerum. circumligantur et hydropicis siccae
vel ex aqua tepida poscave, utcumque blandiri opus
est operirive³ aut siccare cutem. inponuntur et his
morbis quos vaporari oporteat, ferventi aqua perfusae
expressaeque inter duas tabulas. sic et stomacho
prosunt et in febris contra nimios ardores, sed splenicis
e posca, ignibus sacris ex aceto efficaciores quam
aliud; inponi oportet sic ut sanas quoque partes
129 spatiose operiant. sanguinis profluvium sistunt ex
aceto aut frigida, livorem ab ictu recentem ex aqua
salsa calida saepius mutata tollunt, testium tumorem
doloremque ex posca. ad canum morsus utiliter con-
cisae inponuntur ex aceto aut frigida aut melle,
abunde subinde umectandae. Africanæ cinis cum
porri sectivi suco sanguinem reicientibus haustus,
aliis⁴ ex frigida, prodest. idem cinis vel cum oleo vel
130 cum aceto fronti inlitis tertianas tollit. privatim
Africanæ ex posca tumorem discutit, omnium autem
cinis cum pice crematarum sanguinem sistit vul-
nerum; aliqui raras tantum ad hoc cum pice urunt.

¹ eaedem *Mayhoff*: eadem *codd.*

² *Post implent add.* nunc ex vino et oleo nunc ex eadem
vulg. ante Ianum.

³ operirive *plerique codd.*: operireve *cod. a Mayhoff.*

⁴ haustus aliis *Mayhoff*: haustu salis *codd.*

^a See Önnersfors *Pliniana*, pp. 167, 168 for *ve* after a short *-e*.

^b This is a dubious reading, but *haustu salis* without *cum*
can scarcely be right.

with fever, water alone is to be used. With salt and water sponges are also applied to callosities, but with vinegar to scorpion stings. In the treatment of wounds sponges with salt and water also act as a substitute for greasy wool; the difference is that wools soften, but sponges are astringent and absorb quickly the diseased humours of ulcers. They are also bound round dropsical parts, either dry or with warm water or vinegar and water, whenever there is need to soothe, or cover ^a the skin, or dry it. They are applied also for such diseases as need a steamy heat, steeped in boiling water, and pressed between two boards. So applied they are also good for the stomach, and for the excessive burnings of fever; but for the spleen with vinegar and water, while for erysipelas they are with vinegar more efficacious than anything; they should be so placed that there is ample covering for the healthy parts. With vinegar or cold water they arrest haemorrhage, with hot salt and water, often changed, they remove fresh bruises caused by a blow, and with vinegar and water they cure swollen and painful testicles. For dog-bite are applied beneficially with vinegar, cold water, or honey, cut-off pieces of sponge, which must be thoroughly moistened every now and then. The ash of the African sponge, swallowed with the juice of cut-leek, is good for spitting of blood; for other ^b complaints it should be taken in cold water. This ash also, applied to the forehead with oil or vinegar, cures tertian agues. African sponges are specific with vinegar and water for reducing swellings, and the ash of all sponges burnt with pitch arrest haemorrhage from wounds; for this purpose some burn with pitch only sponges of loose texture. For

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et oculorum causa comburuntur in cruda olla figulini operis, plurimum proficiente eo cinere contra scabritias genarum excrescentesque carnes et quicquid opus sit ibi destringere, spissare, explere. utilius in eo usu lavare cinerem. praestant et strigilum vicem
131 linteorumque adfectis corporibus. et contra solem apte protegunt capita. medici inscitia ad duo nomina eas redegere, Africanas, quarum firminus sit robur, Rhodiacasque ad fovendum molliores. nunc autem mollissimae circa muros Antiphelli urbis reperiuntur. Trogus auctor est circa Lyciam penicillos mollissimos nasci in alto, unde ablatae sint spongeae, Polybius super aegrum suspensos quietiores facere noctes. nunc praevertemur ad marina animalia.

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BOOK XXXII

LIBER XXXII

1 I. VENTUM est ad summa naturae exemplorumque per rerum ordinem, et ipsum sua sponte occurrit in-
mensum potentiae occultae documentum, ut prorsue
neque aliud ultra quaeri debeat nec par ac similes
possit inveniri, ipsa se vincente natura, et quidem
numerosis modis. quid enim violentius mari ventisve
et turbinibus ac procellis? quo maiore hominum
ingenio¹ in ulla sui parte adiuta est quam velis re-
misque? addatur his et reciproci aestus inenarrabilis
2 vis versumque totum mare in flumen. tamen omnia
haec pariterque eodem impellentia unus ac parvus
admodum pisciculus, echenais appellatus, in se tenet.
ruant venti licet, saeviant procellae: imperat furori
viresque tantas compescit et cogit stare navigia,
quod non vincula ulla, non ancorae pondere inrevoca-
bili iactae.² infrenat impetus et domat mundi
rabiam nullo suo labore, non renitendo aut alio modo
3 quam adhaerendo. hoc tantulo³ satis est, contra tot
impetus ut vetet ire navigia. sed⁴ armatae classes
inponunt sibi turrium propugnacula, ut in mari quo-
que pugnetur velut e muris. heu vanitas humana,

¹ ingenio *codd.*: invento *coni. Mayhoff.*

² iactae *fere omnes codd.*: factae E.

³ hoc tantulo *codd.*: hoc tantulum (-lū) *coni. Mayhoff.*

⁴ sed *codd.*: ecce *coni. Mayhoff.*

^a Or, with Mayhoff's conjecture, "invention."

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cum rostra illa aere ferroque ad ictus armata semi-
pedalis inhibere possit ac tenere devincta pisciculus!
fertur Actiaco Marte tenuisse praetoriam navem
Antoni properantis circumire et exhortari suos, donec
transiret in aliam, ideoque Caesariana classis impetu
maiore protinus venit. tenuit et nostra memoria Gai
4 principis ab Astura Antium renavigantis. ut res est,¹
etiam auspicalis pisciculus, siquidem novissime tum
in urbem reversus ille imperator suis telis confossus
est, nec longa fuit illius morae admiratio, statim causa
intellecta, cum e tota classe quinqueremis sola non
proficeret, exilientibus protinus qui quaererent circa
navem. invenere adhaerentem gubernaculo osten-
deruntque Gaio indignanti hoc fuisse quod se revo-
caret quadringentorumque remigum obsequio contra
5 se intercederet. constabat peculiariter miratum,
quomodo adhaerens tenuisset nec idem polleret in
navigium receptus. qui tunc posteaque videre eum,
limaci magnae similem esse dicunt. nos plurium
opinionum posuimus in natura aquatilium, cum de eo
diceremus, nec dubitamus idem valere omnia ea²
genera, cum celebri et consecrato etiam exemplo
apud Cnidiam Venerem conchas quoque esse eius-
6 dem potentiae credi necesse sit. e nostris quidam
Latine moram appellavere eum, mirumque, e Graecis

¹ ut res est B, *Mayhoff*.

² ea B, *Mayhoff*: *om. ceteri codd.*

^a See IX. § 79.

^b That is: "delay." It has none of the powers ascribed to it by Pliny.

How futile a creature is man, seeing that those rams, armed for striking with bronze and iron, can be checked and held fast by a little fish six inches long ! It is said that at the battle of Actium the fish stopped the flagship of Antonius, who was hastening to go round and encourage his men, until he changed his ship for another one, and so the fleet of Caesar at once made a more violent attack. Within our memory the fish stayed the ship of the Emperor Gaius as he was sailing back from Astura to Antium. As it turned out, the little fish also proved ominous, because very soon after that Emperor's return to Rome on this occasion he was stabbed by his own men. This delay caused no long surprise, for the reason was immediately discovered ; of the whole fleet the quinquereme alone making no progress, men at once dived and swam round the ship to trace the cause. They found this fish sticking to the rudder and showed it to Gaius, who was furious that it had been such a thing that was keeping him back and vetoing the obedience to himself of four hundred rowers. It was agreed that what astonished him in particular was how the fish had stopped him by sticking to the outside, yet when inside the ship it had not the same power. Those who saw the fish then or afterwards say that it is like a large slug. I have given ^a the views of the majority in my account of water creatures, where I discussed the fish, and I do not doubt all this kind of fish have the same power, since there is a famous and even divinely sanctioned example in the temple of the Cnidian Venus, where snails too, we are forced to believe, have the same potency. Of the Roman authorities some have given this fish the Latin name of *mora*,^b

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aliū lubricos partus atque procidentes continere¹ ad maturitatem adalligatum,² ut diximus, prodiderunt, alii sale adservatum adalligatumque gravidis partus solvere, ob id alio nomine odinolyten appellari. quocumque modo ista se habent, quis ab hoc tenendi navigia exemplo de ulla potentia naturae vique et effectū in remediis sponte nascentium rerum dubitet?

7 II. Quid? non et sine hoc exemplo per se satis esset ex eodem mari torpedo? etiam procul et e longinquo, vel si hasta virgave attingatur, quamvis praevalidos lacertos torpescere, quamlibet ad cursum veloces alligari pedes? quod si necesse habemus fateri hoc exemplo esse vim aliquam, quae odore tantum et quadam aura corporis sui adficiat membra, quid non de remediorum omnium momentis sperandum est?

8 III. Non sunt minus mira quae de lepore marino traduntur. venenum est aliis in potu aut cibo datus, aliis etiam visu, siquidem gravidae, si omnino adspexerint feminam ex eo genere dumtaxat, statim nausiant et redundatione stomachi vitium fatentur³ ac deinde abortum faciunt. remedio est mas ob id induratus sale, ut in brachialibus habeant. eadem res in mari ne tactu quidem nocet. vescitur eo unum tantum animalium, ut non intereat, nullus piscis; tenerescit tantum et inertior⁴ viliorque fit.

¹ continere B, *Mayhoff*: contineri ceteri codd.

² adalligatum *Mayhoff*: adalligato B: adalligato eo plerique codd., *Detlefsen*.

³ nausiam et redundationem stomachi vomitu fatentur *coni. Mayhoff*.

⁴ inertior B¹, *Ianus, Mayhoff*: ingrator codd. vulg., *Detlefsen*.

^a See IX. § 79.

^b That is: "deliverer from birth-pangs."

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- 9 homines, quibus inpactus est, piscem olent; hoc primo argumento veneficium id deprehenditur. cetero moriuntur totidem in diebus, quot vixerit lepus, incertique temporis veneficium id esse auctor est Licinius Macer. in India adfirmant non capi viventem invicemque ibi hominem illi pro veneno esse ac vel digito omnino in mari tactum mori, esse autem multo ampliorem, sicuti reliqua animalia.
- 10 IV. Iuba in iis voluminibus, quae scripsit ad C. Caesarem Aug. f. de Arabia, tradit mitulos ternas heminas capere, cetos sescentorum pedum longitudinis et trecentorum sexaginta latitudinis in flumen Arabiae intrasse, pinguique eius mercatores negotiatos, et omnium piscium adipe camelos perungui in eo situ, ut asilos ab iis fugent odore.
- 11 V. Mihi videntur mira et quae Ovidius prodidit piscium ingenia in eo volumine, quod halieuticon inscribitur: scarum inclusum nassis non fronte erumpere nec infestis viminibus caput inserere, sed aversum caudae ictibus crebris laxare fores atque ita retrorsum repere, quem luctatum eius si forte alius scarus extrinsecus videat, adprehensa mordicus cauda adiuvare nisus erumpentis; lupum rete circumdatum
- 12 harenas arare cauda atque ita condidum transeat rete; murenas maculas adpetere ipsas consciam teretis ac lubrici tergi, tum multiplici flexu laxare, donec evadat; polypum hamos adpetere brachiisque com-

^a Or, perhaps better: "In India they say that etc."

^b I.e. "On fishing."

smells of fish ; this is the first symptom by which such poisoning is detected. Furthermore, the victims die in the same number of days as the hare has lived, and Licinius Macer is authority for saying that this poison has variable periods for its action. They say that in India^a the sea-hare is never caught alive ; and that inversely man is there poisonous to the hare ; that even a mere touch of a human finger in the sea is fatal to it ; but that like all other animals the Indian variety is far larger.

IV. In those volumes about Arabia which he dedicated to Gaius Caesar, the son of Augustus, Juba related that there are mussels there with shells holding three heminae ; that a whale 600 feet long and 360 feet broad entered a river of Arabia ; that merchants did a trade with its blubber ; and that camels in that district are rubbed all over with the fat of any fish, so that gad-flies may be kept away by the smell.

V. Wonderful too appear to me the characters of fishes given by Ovid in his book entitled *Halieuticon* :^b how the scarus, caught in a weel, does not burst out to the front, or thrust his head through the osiers that imprison him, but turns round, widens the gaps with repeated blows of his tail, and so creeps backwards. If by chance his struggles are seen by another scarus outside, he seizing the other's tail with his teeth helps the efforts to burst out. The basse, he says, when surrounded by a net, ploughs a hole in the sand with his tail, and so is buried until the net passes over him. He says too that the murena, knowing that his back is rounded and slippery, attacks the meshes themselves, and then by involved wriggling widens them until he escapes ; that the

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- plecti, non morsu, nec prius dimittere, quam escam circumroserit, aut harundine levatum extra aquam. scit et mugil esse in esca bamum insidiasque non ignorat, aviditas tamen tanta est, ut cauda verberando excutiat cibum. minus in providendo lupus sollertiae habet, sed magnum robur in paenitendo. nam ut¹ haesit in hamo tumultuoso discursu laxat volnera, donec excidant insidiae. murenas amplius devorant quam hamum, admovent dentibus lineas atque ita erodunt. anthias² tradit idem infixo hamo invertere se, quoniam sit in dorso cultellata spina, eaque liniam praesecare.
- 14 Licinius Macer murenas feminini tantum sexus esse tradit et concipere e serpentibus, ut diximus ob id sibilo a piscatoribus tamquam a serpentibus evocari et capi.³ . . . et pinguescere, iactato fusti non interemi, easdem ferula protinus. animam in cauda habere certum est eaque icta celerrime exanimari, ad capitis ictum difficulter. novacula pisce qui attacti sunt, ferrum olent. durissimum esse piscium constat qui orbis vocetur; rotundus est, sine squamis totusque capite constat.
- 15 VI. Trebius Niger xiphian, id est gladium, rostro mucronato esse, ab hoc naves perfossas mergi; in oceano ad locum Mauretaniae, qui Cottae vocetur, non procul Lixo flumine idem lolligines evolare ex aqua tradit tanta multitudine, ut navigia demergant.

¹ ut *multi codd.*: si in B¹: si ut B² *Sillig*: is, ut *Mayhoff*.

² anthias *Urlichs, Detlefsen, Mayhoff*: *varia codd.*

³ *Hic Mayhoff lacunam esse coni.*

^a See IX. § 76.

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Lolligo quotiens cernatur extra aquam volitans, tempestates mutari.¹

16 VII. E manu vescuntur pisces in pluribus quidem Caesaris villis, sed—quae veteres prodidere in stagnis, non piscinis, admirati—in Heloro Siciliae castello non procul Syracusis, item in Labrayndi Iovis fonte anguillae et inaures additas gerunt, similiter in Chio iuxta Seuum delubrum, in Mesopotamiae quoque fonte Chabura, de quo diximus, pisces.

17 VIII. Nam in Lycia Myris in fonte Apollinis, quem Curium appellant, ter fistula vocati veniunt ad augurium. diripere eos carnes abiectas laetum est consultantibus, caudis abigere dirum. Hieropoli Syriae in lacu Veneris aedituorum vocibus parent, vocati veniunt exornati auro, adulantes scalpuntur, ora hiantia manibus inserendis praebent. in Stabiano Campaniae ad Herculis petram melanuri in mari panem abiectum rapiunt, iidem ad nullum cibum, in quo hamus sit, accedunt.

18 IX. Nec illa in novissimis mira, amaros esse pisces ad Pelen insulam et ad Clazomenas, contra scopulum Siciliae² ac Leptim Africae et Euboeam et Durra-chium, rursus ita salsos, ut possint salsamenta existu-mari, circa Cephallaniam et Ampelon, Paron et Deli petras, in portu eiusdem insulae dulces. quam
19 differentiam pabulo constare non est dubium. Apion

¹ lolligo . . . mutari *post demergant transfert Mayhoff, qui nuntiari pro mutari coni.*

² Siciliae *codd., Mayhoff: Scyllae Urlichs, Detlefsen.*

^a The last sentence is transferred to this place from the end of § 14 by Mayhoff (not in his text), who also reads *nuntiari*, that is: "storms are indicated."

vessel. Whenever the lolligo, he says, is seen flying out of the water a change of weather occurs.^a

VII. In several country seats indeed of the Emperor fish eat out of the hand, but—what our old writers have recorded with wonder as occurring in natural pools, not fish-ponds—at Helorus, a fortress of Sicily not far from Syracuse, and likewise in the spring of Jupiter of Labraynda, the eels even wear ear-rings, as do the fishes in Chios near the Shrine of the Old Men, and in the spring Chabura also in Mesopotamia, about which I have spoken.^b

VIII. But at Myra in Lycia in the spring of Apollo called Curium, when summoned three times by the pipe the fishes come to give oracular responses. For the fish to snap at the meat thrown to them is a happy augury for enquirers, to cast it aside with their tails an augury of disaster. At Hieropolis in Syria the fish in the pond of Venus obey the voice of the temple ministers; they come at their call adorned with gold, fawning to be scratched, and offer gaping mouths to receive their hands. At Stabiae in Campania at the Rock of Hercules the melanuri in the sea seize the bread thrown to them, but they will not go near any food in which is a hook.

IX. Nor are these the last among the marvels we know of fishes: that they are bitter near the island of Pele and near Clazomenae, over against the rock of Sicily,^c Leptis in Africa, Euboea, and Dyrrhachium; and again, so salt that they might be thought pickled, off Cephallania, Ampelos, Paros and the rocks of Delos; while in the harbour of Delos they are sweet. These differences depend without a doubt on the

^b See XXXI. § 37.

^c I.e. Scylla, which has been conjectured for Sicilia.

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piscium maximum¹ esse tradit porcum, quem Lacedaemoni orthagoriscum vocent; grunnire eum, cum capiatur. esse vero illam naturae accidentiam—quod magis miremur—etiam in locis quibusdam, adposito occurrit exemplo, siquidem salsamenta omnium generum in Italia Beneventi refici constat.

20 X. Pisces marinos in usu fuisse protinus a condita Roma auctor est Cassius Hemina, cuius verba de ea re subiciam: Numa constituit ut pisces, qui squamosi non essent, ni pollucerent, parsimonia commentus, ut convivia publica et privata cenaeque ad pulvinaria facilius compararentur, ni qui ad polluctum emerent pretio minus parcerent eaque praemercarentur.

21 XI. Quantum apud nos Indicis margaritis pretium est, de quis suo loco satis diximus, tantum apud Indos curalio; namque ista persuasione gentium constant.² gignitur et in Rubro quidem mari, sed nigrius, item in Persico—vocatur lace—laudatissimum in Gallico sinu circa Stoechadas insulas et in Siculo circa Aeolias ac Drepana. nascitur et apud Graviscas et ante Neapolim Campaniae; maximeque rubens, sed molle
22 et ideo vilissimum Erythris. forma est ei fruticis, colos viridis. bacae eius candidae sub aqua ac molles, exemptae confestim durantur et rubescunt qua corna

¹ maximum *codd.*: maxime mirum *Mayhoff*, qui notam addit: “an excidit (ante Apion) alterum exemplum piscis aliquo loco non muti?”

² constant *multi codd.*: constat BV: ita . . . constat in *Appendice Mayhoff*.

^a With *Mayhoff*'s reading: “most wonderful.”

^b An historian who flourished about 140 B.C.

^c See IX. § 104 foll.

^d This phrase is generally taken with the preceding clause. The punctuation is mine.

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PLINY: NATURAL HISTORY

- sativa specie atque magnitudine. aiunt tactu protinus lapidescere, si vivat; itaque occupari evellique retibus aut acri ferramento praecidi, qua de causa curalium vocitatum interpretantur, probatissimum quam maxime rubens et quam ramosissimum nec scabiosum aut lapideum aut rursus inane et concavum.
- 23 auctoritas bacarum eius non minus Indorum viris quoque pretiosa est quam feminis nostris uniones Indici. harispices eorum vatesque inprimis religiosum id gestamen amoliendis periculis arbitrantur. ita et decore et religione gaudent. prius quam hoc notesceret, Galli gladios, scuta, galeas, adornabant eo. nunc tanta paenuria est vendibili merce, ut per-
- 24 quam raro cernatur in suo orbe. surculi infantiae adalligati tutelam habere creduntur, contraque torminum ac vesicae et calculorum mala in pulverem igni redacti potique cum aqua auxiliantur, simili modo ex vino poti aut, si febris sit, ex aqua somnum adferunt—ignibus diu repugnat¹—sed eodem medicamine saepius poto tradunt lienem quoque absumi. sanguinem reicientibus excreantibusve medetur cinis eorum; miscetur oculorum medicamentis, spissat enim ac refrigerat, ulcerum cava explet, cicatrices extenuat.
- 25 XII. Quod ad repugnantiam rerum attinet, quam Graeci antipathian vocant, nihil est usquam venentius quam in mari pastinaca, utpote cum radio eius arbores necari dixerimus. hanc tamen persequitur

¹ “*an ignibus diu repugnat pertinet ad finem § 22 post concavum?*” *Mayhoff*.

^a Greek κείρω, I cut.

^b See § 23.

^c The reason for the proposed transposition is the sudden change from plural to singular (*creduntur, auxiliantur, adferunt, repugnat*).

cultivated cornel. It is said that at a touch it immediately petrifies, if it lives; and that therefore it is quickly seized and pulled away in nets or cut off by a sharp iron instrument. In this way they explain its name "coral."^a The most valued coral is the reddest and most branchy, without being rough or stony, or again empty and hollow. Coral berries are no less valued by Indian men than are large Indian pearls by Roman women. Indian soothsayers and seers think that coral is a very powerful amulet^b for warding off dangers. Accordingly they take pleasure in it both as a thing of beauty and as a thing of religious power. Before the Indian love of coral became known, the Gauls used to ornament with coral their swords, shields, and helmets. At the present day it has become so scarce because of the price it will fetch that it is very rarely to be seen in the countries where it grows. Branches of coral, worn as an amulet by babies, are believed to be protective, and reduced to powder by fire and taken with water are helpful in gripings, bladder trouble and stone; similarly, taken in wine, or, if fever is present, in water, coral is soporific. Coral resists fire for a long time,^c but they say also that taken in drink repeatedly as medicine it consumes the spleen. The ash of coral branches is good treatment for bringing up or spitting of blood. It is a component of eye salves, for it is astringent and cooling, fills up the hollows of ulcers, and smooths out scars.

XII. As to the hostility between things, which the Greeks call *antipathia*, there is nowhere anything more venomous than the sting-ray in the sea, since we have said^d that by its ray trees are killed. The

^a See IX. § 155.

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galeos, idem et alios quidem pisces, sed pastinacas
praecipue, sicut in terra mustela serpentes—tanta
est aviditas ipsius veneni—percussis vero ab ea
medentur et hic quidem, sed et mullus ac laser,
26 XIII. spectabili naturae potentia, in iis quoque, qui-
bus et in terris victus est, sicut fibris, quos castoras
vocant et castorea testes eorum. amputari hos ab
ipsis, cum capiantur, negat Sextius diligentissimus
medicinae, quin immo parvos esse substrictosque
et adhaerentes spinae, nec adimi sine vita animalis
posse; adulterari autem renibus eiusdem, qui sint
grandes cum veri testes parvi admodum reperiantur;
27 praeterea ne vesicas quidem esse, cum sint geminae,
quod nulli animalium; in iis folliculis inveniri¹
liquorem et adservari sale; itaque inter probationes
falsi esse folliculos geminos ex uno nexu depen-
dentes, quod ipsum corrumpi fraude conicientium
cummin cum sanguine aut Hammoniacum, quoniam
Hammoniacy coloris esse debeant, circumdati liquore
veluti mellis cerosi, odore graves, gustu amaro et
acri, friabiles. efficacissimi e Ponto Galatiaque, mox
28 Africa. sternumenta olfactu movent. somnum con-
ciliant cum rosaceo et peucedano peruncto capite et
per se poti ex aqua, ob id phreneticis utiles; iidem

¹ “*locus adhuc corruptus videtur; exspectaveris potius ne vesicam quidem (sc. communem) esse, cum sint gemini folliculi . . . in iis inveniri sqq. cfr. Diosc.*” *Mayhoff.*

^a The plural (*efficacissimi, movent, etc.*) is due to *testes*, but it seems more natural in English to use the singular, referring to *castoreum*.

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lethargicos odoris¹ suffitu excitant volvarumque
exanimationes vel subditu, ac menses et secundas
29 cient II drachmis cum puleio ex aqua poti. meden-
tur et vertigini, opisthotono, tremulis, spasticis,
nervorum vitiis, ischiadicis, stomachicis, paralyticis,
perunctis omnibus, vel triti ad crassitudinem mellis
cum semine viticis ex aceto ac rosaceo. sic et contra
comitiales sumpti, poti vero contra inflationes, tor-
mina, venena. differentia tantum contra genera est
30 mixturae, quippe adversus scorpiones ex vino bibun-
tur, adversus phalangia et arancos ex mulso ita, ut
vomitione reddantur aut ut contineantur cum ruta,
adversus chalcidas cum myrtite, adversus cerasten et
presteras cum panace aut ruta ex vino, adversus
ceteras serpentes cum vino. dari binas drachmas
31 satis; eorum, quae adiciantur, singulas. auxiliantur
privatim contra viscum ex aceto, adversus aconitum
ex lacte aut aqua, adversus helleborum album ex
aqua mulsa nitroque. medentur et dentibus infusi
cum oleo triti in aurem, a cuius parte doleant,
aurium dolori melius, si cum meconio. claritatem
visus faciunt cum melle Attico inunctis. cohibent
singultus ex aceto. urina quoque fibri resistit
venenis et ob id in antidota additur. adservatur
autem optume in sua vesica, ut aliqui existumant.

32 XIV. Geminus similiter victus in aquis terraque
et testudinum effectusque par, honore habendo vel
propter excellens in usu pretium figuraeque pro-
prietatem. sunt ergo testudinum genera terrestres,

¹ odoris] “*an odore?*” *Mayhoff.*

^a See Book XXIX. § 102.

the smell of fumigation, sufferers from coma and hysterical, fainting women, the latter also by a pessary; it is an emmenagogue and brings away the after-birth if two drachmae are taken in water with pennyroyal. It is also a remedy for vertigo, opisthotonus, palsied tremors, cramps, sinew pains, sciatica, stomach troubles, and paralysis; in all cases by rubbing all over, or ground to the consistency of honey with seed of vitex in vinegar and rose oil. In this form it is taken for epilepsy, but in drink for flatulence, griping and poisons. The only difference in its use for the various poisons lies in the ingredients with which it is mixed. For scorpion bites it is taken in wine; for the phalangium and other spiders in honey wine if it is to be vomited back or with rue if it is to be retained; for the chalcis ^a with myrtle wine; for the horned asp and prester with panaces or rue in wine; for the bites of other serpents with wine. Two drachmae are a sufficient dose, of the other ingredients one drachma. It is specific in vinegar for mistletoe poisoning, in milk or water for poisoning by aconite, for white hellebore in oxymel and soda. It also cures toothache if pounded with oil; it is poured into the ear on the side of the pain; for ear-ache it is better mixed with poppy juice. Added to Attic honey and used as an ointment it improves the vision. In vinegar it checks hiccoughs. Beaver urine, too, counteracts poisons, and therefore is added to antidotes. It is however best preserved, as some think, in the beaver's bladder.

XIV. Like the beaver the tortoise is amphibious, and of the same medical properties, distinguished by the high price given for its use, and by its peculiar shape. So there are various kinds: tortoises that live

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marinac, lutariae et quae in dulci aqua vivunt. has
33 quidam e Graecis emydas appellant. Terrestrium
carnes suffitionibus propriae magicisque artibus
refutandis et contra venena salutare produntur.
plurimae in Africa. hae ibi amputato capite pedi-
busque pro antidoto dari dicuntur et e iure in cibo
sumptae strumas discutere, lienes tollere, item comi-
tiales morbos. sanguis earum claritatem visus facit,
sistit¹ suffusiones oculorum. et contra serpentium
omnium et araneorum ac similibus et ranarum
venena auxiliatur servato sanguine in farina pilulis
factis et, cum opus sit, in vino datis. felle testu-
dinum cum Attico melle glaucomata inungui prodest,
34 scorpionum plagae instillari.² tegimenti cinis vino
et oleo subactus pedum rimas ulceraque sanat.
squamae e summa parte derasae et in potu datae
venerem cohibent. eo magis hoc mirum, quoniam
totius tegimenti farina accendere traditur libidinem.
urinam aliter earum quam in vesica dissectarum in-
veniri posse non arbitror et inter ea³ esse hoc quoque,
quae portentose Magi demonstrant, adversus aspidum
ictus singularem, efficacior tamen, ut aiunt, cimi-
cibus admixtis. ova durata inlinuntur strumis et
ulceribus frigore aut adustione factis. sorbentur in
35 stomachi doloribus. Marinarum carnes admixtae
ranarum carnibus contra salamandras praeclare
auxiliantur, neque est testudine aliud salamandrae

¹ sistit *Brakman*: discutit *Mayhoff*: in *codd.* lacuna.

² instillari *codd.*: instillant *Mayhoff*.

³ inter ea *codd.*: interanea *Detlefsen*: "locus fortasse non-
dum sanatus," *Mayhoff*.

^a *Brakman's* *sistit* is perhaps the best supplement of the lacuna.

^b Toads are included in *ranae*.

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adversius. sanguine alopeciarum inanitas et porrigo omniaque capitis ulcera curantur; inarescere eum oportet lenteque abluī. instillatur et dolori aurium cum lacte mulierum. adversus morbos comitiales manditur cum polline frumenti, miscetur autem sanguinis¹ heminis tribus aceti hemina. datur et suspiriosis, sed tum hemina vini additur;² his et cum hordeacea farina, aceto quoque admixto, ut sit quod devoretur fabae magnitudine; et haec singula et matutina et vespera dantur, dein post aliquot dies bina vespera. comitialibus instillatur ore diducto;³ iis, qui modice corripiantur spasmo, cum castoreo clystere infunditur. quod si dentes ter annis⁴ colluantur testudinum sanguine, immunes a dolore fiant. et anhelitus discutit quasque orthopnoeas vocant; ad has in polenta datur. fel testudinum claritatem oculorum facit, cicatrices extenuat, tonsillas sedat et anginas et omnia oris vitia, privatim nomas ibi, item testium. naribus inlittum comitiales erigit attollitque. idem cum vernatione anguium aceto admixto unice purulentis auribus prodest. quidam bubulum fel admiscent decoctarum⁵ carnium testudinis suco, addita aequè vernatione anguium; sed vino testudinem excocunt. oculorum utique vitia omnia fel inunctum cum melle emendat, suffusiones

¹ tum *Ianus*, *Mayhoff*: cum *B Sillig*, *Mayhoff*.

² additur *B*, *Sillig*, *Mayhoff*: addito *VRdT*, *Hard.*: *coni.* sed cum hemina vini. manditur his et *Mayhoff*.

³ diducto *B*, *Gelenius*: diducis *VR*: deductis *E*, *vulg.*

⁴ annis *VRf*, *Io. Müller*: minis *B*: *coni.* heminis *Mayhoff*.

⁵ decoctarum *Mayhoff*: decoctarumve (decoctarumque) *codd.*

tortoise. Its blood is good treatment for the bare patches of mange, for dandruff, and for all sores on the head; it should be allowed to dry and then gently washed off. With woman's milk it is poured by drops into aching ears. For epilepsy it is taken with wheaten flour, but three heminae of blood are diluted with one hemina of vinegar. It is also given for asthma, but with a hemina of wine added; for this purpose also with barley flour, vinegar too being added, so that the dose to be swallowed is the size of a bean. One of these doses is given morning and evening; then after a few days a double dose is given in the evening. The mouths of epileptics are opened and the blood poured by drops into them; to those seized with a slight convulsion is given an enema of the blood and beaver oil. If teeth are rinsed with tortoise blood three times a year^a they will become immune to toothache. It is a remedy too for shortness of breath and for what is called orthopnoea; when so used it is administered in pearl barley. Tortoise gall gives clearness of vision, effaces scars, relieves sore tonsils, quinsy, and all diseases of the mouth, being specific for malignant sores there and on the testicles. If the nostrils are smeared with it, epileptics are roused and made to stand up. The gall too with snakes' slough and vinegar is also a sovereign remedy for pus in the ears. Some mix ox gall with the broth of boiled tortoise-flesh, adding the same amount of snakes' slough, but they boil the tortoise in wine. An application of the gall with honey cures especially all affections of the eyes; cataract is also cured by the gall of sea tortoise with

^a If we adopt Mayhoff's attractive emendation: "three times with a hemina."

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etiam marinae fel cum fluviatilis sanguine et lacte.
capillus mulierum inficitur felle. contra sala-
39 mandras vel sucum decoctae bibisse satis est. Ter-
tium genus testudinum est in caeno et paludibus
viventium. latitudo his et in dorso pectori similis nec
convexo curvata calice, ingrata visu. ex hac quoque
tamen aliqua contingunt auxilia. tres namque in
succensa sarmenta coiectae dividantibus se tegu-
mentis rapiuntur, tum evolsae carnes earum cocuntur
in congio aquae sale modice addito; ita decoctarum
ad tertias partes sucus paralysim et articularios mor-
bos sentientibus bibitur. detrahit idem fel pituitas
sanguinemque vitiatum. sistitur eo remedio alvus
40 aquae frigidae potu. E quarto genere testudinum,
quae sunt in amnibus, divolsarum pinguia cum aizoo
herba tunsā admixto unguento et semine lili, si ante
accessiones perunguntur aegri praeter caput, mox
convoluti calidam aquam bibant, quartanis liberare
dicuntur. hanc testudinem xv luna capi oportere,
ut plus pinguium reperiat, verum aegrum xvi luna
perungi. ex eodem genere testudinum sanguis in-
stillatus cerebro capitis dolores sedat, item strumas.
41 sunt qui testudinum sanguinem cultro aereo supin-
arum capitibus praecisis excipi novo fictili iubeant,
ignem sacrum cuiuscumque generis sanguine inlini,
item capitis ulcera manantia, verrucas. iidem pro-

^a Evidently the Magi, but for some reason Pliny withholds the name.

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mittunt testudinum omnium fimo panos discuti; et, quod incredibile dictu sit, aliqui tradunt tardius ire navigia testudinis pedem dextrum vehentia.

42 XV. Hinc deinde in morbos digeremus aquatilia, non quia ignoremus gratiorem esse universitatem animalium maiorisque miraculi, sed hoc utilius est vitae, contributa habere remedia, cum aliud alii prosit, aliud alibi facilius inveniatur.

43 XVI. Venenatum mel diximus ubi nasceretur. auxilio est piscis aurata in cibo. vel si ex melle sincero fastidium cruditasve, quae fit gravissima, incidat, testudinem circumcisis pedibus, capite, cauda decoctam antidotum esse auctor est Pelops, scincum Apelles. quid esset scincus diximus, saepius vero
44 quantum veneficii in menstruis mulierum. contra ea omnia auxiliatur, ut diximus, mullus, item contra pastinacam et scorpiones terrestres marinosque et dracones, phalangia inlitis sumptusve in cibo, eiusdem recentis e capite cinis contra omnia venena, privatim contra fungos. mala medicamenta inferri negant posse aut certe nocere stella marina volpino sanguine inlita et adfixa limini superiori aut clavo aereo ianuae.

45 XVII. draconis marini scorpionumque ictus caribus earum inpositis, item araneorum morsus sanantur. in summa contra omnia venena vel potu vel ictu vel morsu noxia succus earum e iure decoctarum efficacissi-

^a See XXI. § 74 foll.

^b See VIII. § 91 and XXVIII. § 119.

^c See VII. § 64 and XXVIII. § 82.

tortoises disperses superficial abscesses; and others tell us (an incredible remark) that vessels travel more slowly if the right foot of a tortoise is on board.

XV. From now on I will arrange water creatures according to diseases, not that I do not know that a complete account of each living thing is more attractive and more wonderful, but it is more useful to mankind to have remedies grouped into classes, since they vary with individuals, and are more easily found in one place than in another.

XVI. I have already said ^a where poisonous honey is found. A remedy is the gilthead fish taken in food. But if pure honey should cause nausea, or indigestion that becomes very acute, an antidote is, according to Pelops, the decoction of a tortoise with the feet, head, and tail cut off; according to Apelles, a similar decoction of a scincus; I have said what a scincus is.^b Several times moreover I have said how poisonous is the menstrual fluid of women; ^c against all forms of it, as I have said, the red mullet is a help, as it is against the sting-ray, land- and sea-scorpions, the weever fish, and poisonous spiders. It may be applied locally or taken in food. A fresh red mullet's head, reduced to ash, is an antidote to all poisons, being specific against poisonous fungi. They say that noxious charms cannot enter, or at least cannot harm, homes where a star-fish, smeared with the blood of a fox, has been fastened to the upper lintel or to the door with a bronze nail.

XVII. By an application of tortoise flesh are healed the stings of weever fish, of scorpions, and also the bites of spiders. To sum up: the gravy of tortoise meat, that is, the broth obtained by boiling it down, is considered to be a most efficacious antidote for all

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mus habetur. sunt et servatis piscibus medicinae, salsamentorumque cibus prodest a serpente percussis et contra bestiarum ictus mero subinde hausto ita, ut per se etiam¹ cibus vomitione reddatur, peculiariter
46 a chalcide, ceraste aut quas sepas vocant aut elope, dispsade percussis. contra scorpionem largius sumi, sed non evomi, salsamenta prodest ita, ut sitis tolleretur; et inponere plagis eadem convenit. contra crocodilorum quidem morsus non aliud praesentius habetur. privatim contra presteris morsum sarda prodest. inponuntur salsamenta et contra canis
47 rabiosi; vel si non sint ferro ustae plagae corporaque clysteribus exinanita, hoc per se sufficit. et contra draconem marinum ex aceto inponuntur. idem et cybio effectus. draco quidem marinus ad spinae suae, qua ferit, venenum ipse inpositus vel cerebro toto² prodest.

48 XVIII. Ranarum marinarum ex vino et aceto decoctarum succus contra venena bibitur, et contra ranae rubetae venenum et contra salamandras. fluviatilium³ si carnes edantur iusve decoctarum sorbeatur, prosunt et contra leporem marinum et contra serpentes supra dictos, contra scorpiones ex vino.
49 Democritus quidem tradit, si quis extrahat ranae viventi linguam, nulla alia corporis parte adhaerente, ipsaque dimissa in aquam inponat supra cordis palpi-

¹ per se etiam B² *Sillig*: ad vesperam *multi codd.*: per satiem *Mayhoff*.

² toto *multi codd.*; toti B: poto *Mayhoff*.

³ fluviatilium *Detlefsen*: fluviatilil/jiū B²: ante ponunt vel e *multi codd.*

^a *Ad vesperam* would be "towards evening"; *ad satiem* "to a surfeit."

^b *Poto*: "its brain taken in drink."

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tationem mulieri dormienti, quaecumque interroga-
 verit, vera responsuram. addunt etiamnum alia
 Magi, quae si vera sint, multo utiliores vitae existu-
 mentur ranae quam leges; namque harundine
 transfixis a¹ natura per os si surculus in menstruis
 50 defigatur a marito, adulterorum taedium fieri. carni-
 bus earum vel² in bamum additis praecipue purpuras
 adlici certum est. iocur ranae geminum esse dicunt
 abicique formicis oportere; eam partem, quam
 adpetant, contra venena omnia esse pro antidoto.
 sunt quae in vepribus tantum vivunt, ob id rubetarum
 nomine, ut diximus, quas Graeci φρύνοι vocant,
 grandissimae cunctarum, geminis veluti cornibus,
 plenae veneficiorum. mira de iis certatim tradunt
 51 auctores: inlatis in populum silentium fieri; ossiculo,
 quod sit in dextro latere, in aquam ferventem deiecto
 refrigerari vas nec postea fervere nisi exempto, id
 inveniri abiecta rana formicis carnibusque erosis,
 singula in oleum³ addi; esse in sinistro latere quo
 52 deiecto fervere videatur, apocynon vocari, canum
 impetus eo cohiberi, amorem concitari et iurgia
 addito in potionem, venerem adalligato stimulari,

¹ transfixis a B: transfixa multi codd.: transfixa a Ianus.

² Ante vel addit nassis Sillig cum vet. Dal.

³ oleum fere omnes codd.: solium Hermolaus Barbarus: ollam Ianus.

^a Something seems wrong with this sentence, which means, if literally translated, that frogs are pierced with a reed, and then the husband plants a shoot. There is no indication that the shoot is the same as the reed. Perhaps there is a lacuna after *os*; perhaps too the *transfixa* of most MSS. is correct, although such a use of *transfigor* ("a reed having been thrust") is rare.

^b The addition of *nassis* is a better remedy than any other.

^c See Book VIII. § 110. The word *rana* may be either "frog" or "toad."

over the beating heart of a sleeping woman, she will give true answers to all questions.

The Magi add also other details, and if there is any truth in them, frogs should be considered more beneficial than laws to the life of mankind. They say that if frogs are pierced ^a with a reed from the genitals through the mouth, and if the husband plants a shoot in his wife's menstrual discharge she conceives an aversion to adulterous lovers. It is certain that frogs' flesh placed <in weels> ^b or on a hook makes excellent bait for the purple-fish. It is said that the liver of a frog is double, and should be thrown in the way of ants; that the part the ants attack is an antidote for all poisons. Some frogs there are that live only in brambles, and so they are called bramble-toads, as I have said, ^c and by the Greeks *φρῦνοι*. These are the largest of all frogs, have as it were a pair of horns, and are full of poison. Our authorities vie with one another in relating marvellous stories about the toad: that when brought into a meeting of the people silence reigns; that if the little bone found in its right side is let fall into boiling water, the vessel cools, and does not afterwards boil unless the bone is taken out; that it is found when a frog has been thrown to ants and the flesh gnawed away; that one at a time these bones are put into oil; ^d that there is in a frog's left side a bone called "dog's bane," which dropped <into oil> gives the appearance of boiling; by it the attacks of dogs are repelled, and if it is put in drink love and quarrels ^e brought about; that worn as an amulet it acts as an aphrodisiac; that

^d With the reading *solium*, "tub"; with *ollam*, "pot."

^e Is there a zeugma here, "love aroused and quarrels settled." Perhaps read *conciliari*.

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rursus e dextro latere refrigerari ferventia; hoc et quartanas sanari adalligato in pellicula agnina recenti aliasque febres, amorem inhiberi, ex isdem his ranis lien contra venena, quae fiant ex ipsis, auxiliatur, iocur vero etiam efficacius.

53 XIX. Est colubra in aqua vivens. huins adipem et fel habentes qui crocodilos venentur mire adiuvari dicunt, nihil contra belua audente, efficacius etiamnum, si herba potamogiton misceatur. cancri fluviatiles triti potique ex aqua recentes seu cinere adservato contra venena omnia prosunt, privatim contra scorpionum ictus cum lacte asinino, si non sit, caprino aut quocumque; addi et vinum oportet. necant eos
54 triti cum ocimo admoti. eadem vis contra venentorum omnium morsus, privatim scytalen et angues et contra leporem marinum ac ranam rubetam. cinis eorum servatus prodest pavore potus periclitantibus ex canis rabiosi morsu. quidam adiciunt gentianam et dant in vino, et si iam pavor occupaverit, pastillos
55 vino subactos devorandos ita praecipiunt. decem vero cancris cum ocimi manipulo adligatis omnes, qui ibi sint, scorpiones ad eum locum coituros Magi dicunt, et cum ocimo ipsos cineremve eorum percussis inponunt. minus in omnibus his marini prosunt. Thrasyllus auctor est nihil aequae adversari serpentibus quam caneros; sues percussas¹ hoc pabulo sibi mederi; cum sol sit in cancro, serpentes
56 torqueri. ictibus scorpionum carnes et fluviatilium

¹ percussas] percussos B.

^a Pondweed; see *Index of Plants* in Vol. VII.

^b A snake of equal thickness throughout. The word means a cylinder.

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coclearum resistunt crudae vel coctae. quidam ob id salsas quoque adservant. inponunt et plagis ipsis. coracini pisces Nilo quidem peculiare sunt, sed nos haec omnibus terris demonstramus. carnes eorum adversus scorpiones valent inpositae. inter venena piscium sunt porci marini spinae in dorso, cruciatu magno laesorum. remedio est limus ex liquore¹ piscium eorum corporis.

57 XX. Canis rabidi morsibus potum expavescentibus faciem perungunt adipe vituli marini, efficacius, si medulla hyaenae et oleum e lentisco et cera misceatur.² murenarum morsus ipsarum capitis cinere
58 sanantur. et pastinaca contra suum ictum remedio est cinere suo ex aceto inlito vel alterius. cibi causa extrahi debet ex dorso eius quidquid croco simile est caputque totum; et haec³ autem et omnia testacea modice collui⁴ cibis, quia saporis gratia perit. e lepore marino veneficium restingunt poti hippocampi. contra dorycnium echini maxime prosunt, et iis, qui sucum carpathii biberint, praecipue e iure sumpti. et cancri marini decocti ius contra dorycnium efficax habetur, peculiariter vero contra leporis marini venena.

59 XXI. Et ostrea adversantur isdem, nec potest videri satis dictum esse de iis, cum palma mensarum

¹ liquore conii. *Mayhoff* (reliquiis in textu): reliquo aut liquo *codd.*

² misceatur *codd.*: misceantur *vet. Dal., Mayhoff.*

³ haec *Ianus*: hanc *codd., Mayhoff.*

⁴ collui in *codd.*: colluunt conii. *Mayhoff*, qui dativi (cibis) multa exempla dat.

^a Thorn-apple. See *Index of Plants* in Vol. VII.

^b A narcotic plant.

of scorpions are counteracted also by the flesh of river snails, raw or cooked. Some too keep them for this purpose preserved in salt. They also apply them to the wounds themselves. Though the fish called coracini are peculiar to the Nile, I am giving this information for the benefit of all lands. Application of their flesh is good for scorpion stings. Among poisonous parts of fishes are the prickles on the back of the sea-pig, a wound from which causes severe torture. A remedy is the slime from the liquid part of the body of these fishes.

XX. When the bite of a mad dog causes a dread of drink they rub the face with the fat of a seal, with more effect if there are mixed with it the marrow of a hyaena, mastic oil, and wax. The bites of the murry are healed by the head of the murry itself, reduced to ash. For the wound of the sting-ray a remedy is the ash, of the same ray itself or of any other specimen, applied locally in vinegar. When the fish is used as food there should be taken from its back whatever is like saffron, and the whole head removed, while the ray, and all shell fish, when used as food, should not be over-washed, as to do so spoils the flavour. The poison of the sea-hare is counteracted by the sea-horse taken in drink. Sea-urchins are very good as an antidote to dorycnium,^a as they are also for those who have drunk juice of carpathium,^b especially if they are taken in their broth. Effective against dorycnium is also considered a decoction of sea-crab, and indeed specific for the poison of the sea-hare.

XXI. The same poisons are counteracted also by oysters. About these it cannot appear that enough has been said, seeing that they have long been con-

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diu iam tribuatur illis. gaudent dulcibus aquis et
ubi plurimi influant¹ amnes; ideo pelagia parva et
rara sunt. gignuntur tamen et in petrosis carenti-
busque aquarum dulcium adventu, sicut circa Gry-
nium et Myrinam. grandescunt sideris quidem
ratione maxime, ut in natura aquatiliam diximus, sed
60 privatim circa initia aestatis multo lacte praegnata
atque ubi sol penetret in vada. haec videtur causa,
quare minora in alto reperiantur; opacitas cohibet
incrementum, et tristitia minus adpetunt cibos.
variantur coloribus, rufa Hispaniae, fusca Illyrico,
nigra et carne et testa Cerceis, praecipua vero haben-
tur in quacumque gente spissa nec saliva sua lubrica,
crassitudine potius spectanda quam latitudine, neque
in lutosiis capta neque in harenosis, sed solido vado,
spondylo brevi atque non carnosio, nec fibris laciniosa
61 ac tota in alvo. addunt peritiores notam ambiente
purpureo crine fibras, eoque argumento generosa
interpretantur calliblephara ea² appellantes. gau-
dent et peregrinatione transferrique in ignotas aquas.
sic Brundisina in Averno compasta et suum retinere
suum et a Lucrino adoptare creduntur.

62 Haec sint dicta de corpore; dicemus et de nationi-
bus, ne fraudentur gloria sua litora, sed dicemus

¹ influant *Mayhoff*: influunt *codd.*: cf. penetret *infra*.

² calliblephara ea *Ianus*: calliblepharata d: *varia ceteri
codd.*

^a See IX. § 96.

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aliena lingua quaeque peritissima huins censurae in nostro aevo fuit.¹ sunt ergo Muciani verba, quae subiciam: Cyzicena maiora Lucrinis, dulciora Britannicis, suaviora Medullis, acriora Ephesis, pleniora Iliciensibus, sicciora Coryphantenis, teneriora Histricis, candidiora Cerceiensibus. sed his neque dulciora
63 neque teneriora ulla esse compertum est. in Indico mari Alexandri rerum auctores pedalia inveniri prodidere, nec non inter nos nepotis² cuiusdam nomenclatura tridacna appellavit, tantae amplitudinis intellegi cupiens, ut ter mordenda essent.

64 Dos eorum medica hoc in loco tota dicetur; stomachum unice reficiunt, fastidiis medentur, addiditque luxuria frigus obrutis nive, summa montium et maris ima miscens. emolliunt alvum leniter. eademque cocta cum mulso tenesmo, qui sine exulceratione sit, liberant. vesicarum ulcera quoque repurgant. cocta
65 in conchis suis, uti clusa invenerint, mire destillationibus prosunt. testae ostreorum cinis uvam sedat et tonsillas admixto melle, eodem modo parotidas, panos mammarumque duritias, capitum ulcera ex aqua cutemque mulierum extendit; inspergitur et ambustis. et dentifricio placet. pruritibus quoque et eruptionibus pituitae ex aceto medetur. purpurae

¹ fuit *codd.*: fuerit *vel* fit *coni.* *Mayhoff.*

² nepotis] *Fröhner* Nepotis *coni.*

^a A tax-free colony on the coast of Spain.

^b There is a difference of opinion as to where the quotation ends. Some stop here, some at *Circeiensibus*, Jan at *essent*.

^c With *Fröhner's* emendation "one *Nepos*."

^d From *τρίς* "thrice" and *δάκνω* "I bite."

in the words of another, one who was the greatest connoisseur of such matters in our time. These then are the words of Mucianus, which I will quote:—

Oysters of Cyzicus are larger than those of Lake Lucrinus, fresher than the British, sweeter than those of Medullae, sharper than the Ephesian, fuller than those of Ilici,^a less slimy than those of Coryphas, softer than those of Histria, whiter than those of Circeii.

It is agreed, however, that none are fresher or softer than the last.^b The writers of Alexander's expedition tell us that in the Indian sea are found oysters a foot long, and among ourselves a spendthrift^c has invented the nickname *tridacna*,^d wishing it to be used of oysters so large that they require three bites.

I shall give all their medical virtues at this point. Oysters are specific for settling the stomach, they restore lost appetite, and luxury has added coolness by burying them in snow, thus wedding the tops of the mountains to the bottom of the sea. They are a gentle laxative. They also, if boiled with honey wine, cure tenesmus if there is no ulceration. They also clean an ulcerated bladder. Boiled, unopened as gathered, in their shells, they are wonderfully good for streaming colds. Reduced to ash and mixed with honey oyster shells relieve troubles of the uvula and tonsils, similarly parotid swellings, superficial abscesses and indurations of the breasts. Applied with water the ash cures sores on the head and smooths the skin of women. It is sprinkled on burns and is popular as a dentifrice. Applied also with vinegar it cures itch and eruptions of phlegm. The purple-fish too is a good antidote to poisons.

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quoque contra venena prosunt. crudae si tundantur, strumas sanant et perniones pedum.

66 XXII. Et algam maris theriacen esse Nicander tradit. plura eius genera, ut diximus, longo folio et rubente, latiore alia vel crispo. laudatissima quae in Creta insula iuxta terram in petris nascitur, tingendis etiam lanis, ita colorem alligans, ut elui postea non possit. e vino iubet eam dari.

67 XXIII. Alopecias replet hippocampi cinis nitro et adipe suillo mixtus aut sincerus ex aceto, praeparat autem saepiarum crustae farina medicamentis cutem; replet et muris marini cinis cum oleo, item echini cum carnibus suis cremati, fel scorpionis marini, ranarum quoque trium, si vivae in olla concrementur, cinis cum melle, melius cum pice liquida. capillum denigrant sanguisugae, quae in vino nigro diebus xxx com-
68 putuere. alii in aceti sextariis duobus sanguisugarum sextarium in vase plumbeo putrescere iubent totidem diebus, mox in lini in sole. Sornatius tantam vim hanc tradit, ut, nisi oleum ore contineant qui tingent, dentes quoque *suco*¹ earum denigrari dicat. Capitis ulceribus muricum vel purpurarum testae cinis cum melle utiliter inlinitur, conchyliorum vel, si non uratur, farina ex aqua, doloribus castoreum cum peucedano et rosaceo.

¹ *Post quoque add. suco Mayhoff.*

^a See *Theriaca* 845.

^b Book XXVI. § 103.

^c Or, "close to dry land."

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69 XXIV. Omnium piscium fluviatilium marinorum-
 que adipēs liquefacti sole admixto melle oculorum
 claritati plurimum conferunt, item castoreum cum
 melle. callionymi fel cicatrices sanat et carnes
 oculorum supervacuas consumit. nulli hoc piscium
 copiosius, ut existumavit Menander quoque in como-
 ediis. idem piscis et uranoscopos vocatur ab oculo,
 70 quem in capite habet. et coracini fel excitat visum,
 et marini scorpionis rufi cum oleo vetere aut melle
 Attico incipientes suffusiones discutit; inungui ter
 oportet intermissis diebus. eadem ratio albugines
 oculorum tollit. mullorum cibo aciem oculorum
 hebetari tradunt. lepus marinus ipse quidem vene-
 natus est, sed cinis eius in palpebris pilos inutiles
 evolsos cohibet. ad hunc usum utilissimi minimi,
 item pectunculi salsi triti cum cedria, ranae, quas
 diopetas et calamitas vocant; earum sanguis cum
 71 lacrima vitis evolso pilo palpebris inlinatur. tumorem
 oculorum ruboremque saepiae cortex cum lacte
 mulieris inlitus sedat et per se scabritias emendat;
 invertunt ita genas et medicamentum auferunt post
 paulum rosaceoque inungunt et pane inposito miti-
 gant. eodem cortice et nyctalopes curantur, in
 farinam trito ex aceto inlito. extrahit et squamas
 72 eius cinis. cicatrices oculorum cum melle sanat,
 pterygia cum sale et cadmia singulis drachmis,
 emendat et albugines iumentorum. aiunt et ossiculo
 eius genas, si terantur, sanari. echini ex aceto

^a In Aelian XIII. 4; Meineke IV. p. 79.

^b I.e. "stargazer."

^c I.e. "fallen from Jupiter."

^d The "green-frog."

XXIV. Of all fish, river or sea, the fats, melted in the sun and mixed with honey, are very good for clearness of vision, and so is beaver oil and honey. The gall of the star-gazer heals scars, and removes superfluous flesh about the eyes. No other fish has a greater abundance of gall; this opinion, Menander^a too expresses in his comedies. This fish is also called uranoscopos,^b from the eye which it has in its head. The gall of the coracinus too improves vision, and that of the red sea-scorpion with old oil and Attic honey disperses incipient cataract; it should be applied as ointment three times, once every other day. The same treatment removes albugo from the eyes. A diet of mullet is said to dull the eye-sight. Though the sea-hare itself is poisonous, yet reduced to ash it prevents from growing again superfluous hair on the eyelids that has been plucked out. For this purpose the most useful specimens are the smallest; also small scallops, salted and pounded with cedar resin, frogs called *diopetae*^c or *calamitae*;^d their blood, with vine tear-gum, should be rubbed on the lids after plucking out the hair. Swellings and redness of the eyes are soothed by an application of sepia bone with woman's milk, and by itself it is good for roughness of the lids. In this cure they turn up the lids, taking off the ointment after a little time, treat the part with rose-oil and soothe with a bread-poultice. The bone is also good treatment for night-blindness, if ground to powder and applied in vinegar. Reduced to ash it brings away scales; with honey it heals scars on the eyes; with salt and cadmia, a drachma of each, it heals inflammatory swellings, and also albugo in cattle. They say that eyelids, if rubbed by its small bone, are healed. Urchins in vinegar remove night

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epinyctidas tollunt. eundem comburi cum viperinis
pellibus ranisque et cinerem aspergi potionibus
73 iubent Magi, claritatem visus promittentes. ich-
thyocolla appellatur piscis, cui glutinosum est corium.
idem nomen glutino eius; hoc epinyctidas tollit.
quidam ex ventre, non e corio, fieri dicunt ichthyo-
collam, ut glutinum taurinum. laudatur Pontica,
candida et carens venis squamisque et quae celerrime
liquescit. madescere autem debet concisa in aqua
aut aceto nocte ac die, mox tundi marinis lapidibus,
ut facilius liquescat. utilem eam et capitis doloribus
74 adfirmant et tetanis. ranae dexter oculus dextri,
sinister laevi, suspensi e collo nativi coloris panno
lippitudines sanant; quod si per coitum lunae eruan-
tur, albuginem quoque, adalligati, similiter in puta-
mine ovi. reliquae carnes inpositae suggillationem
rapiunt. cancri etiam oculos adalligatos collo mederi
75 lippitudini dicunt. est parva rana in harundinetis et
herbis maxime vivens, muta ac sine voce, viridis, si
forte hauriatur, ventres boum distendens. huius
corporis umorem derasum specillis claritatem oculis
inunctis narrant adferre. et ipsas carnes doloribus
oculorum superponunt. ranas xv coiectas in fictile
novum iuncis configunt quidam sucoque earum, qui
ita effluxerit, admiscent vitis albae lacrimam atque
ita palpebras emendant, inutilibus pilis exemptis acu

^a The fish is our sturgeon, and its glue is isinglass.

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- installantes hunc sucum in vestigia evolsorum.
- 76 *Meges psilotrum palpebrarum faciebat in aceto enecans putrescentes et ad hoc utebatur multis variisque per aquationes autumnii nascentibus. idem praestare sanguisugarum cinis ex aceto inlitus putatur—comburi eas oportet in novo vaso—idem thynni iocur siccatum pondere X IIII cum oleo cedrino perunctis pilis novem mensibus.*
- 77 *XXV. Auribus utilissimum batiae piscis fel recens, sed et inveteratum vino,¹ item bacchi, quem quidam mizyenem² vocant, item callionymi cum rosaceo infusam vel castoreum cum papaveris suco. vocant et in mari peduculos eosque tritos instillari ex aceto auribus iubent. et per se³ et conchylio infecta lana magnopere prodest; quidam aceto et nitro made-*
- 78 *faciunt. sunt qui praecipue contra omnia aurium vitia laudent gari excellentis cyathum, mellis dimidio amplius, aceti cyathum in calice novo leni pruna decoquere subinde spuma pinnis deterisa et, postquam desierit spumare, tepidum infundere. si tumeant aures, coriandri suco prius mitigandas iidem praecipunt. ranarum adipis instillatus statim dolores tollit. cancrorum fluviatilium sucus cum farina hordeacea aurium vulneribus efficacissime prodest. parotides muricum testae cinere cum melle vel conchyliorum ex mulso curantur.*

¹ vino *codd.*: nitro *Mayhoff*, qui *XXXI*, 111 (117) *confert*.

² mizyenem *B*, *Detlefsen*, *Mayhoff*: *varia codd.*

³ ex per se *codd.*: *operire coni. Mayhoff ex Marcello.*

into the holes made by the plucked-out hairs. Meges used to make a depilatory for the eyelids by killing frogs in vinegar and letting them putrefy; for this purpose he used the many spotted frogs that breed in the autumn rains. The same effect is thought to be produced by leeches reduced to ash and applied in vinegar; they must be burnt in a new vessel. The same effects too by the dried liver of a tunny, in doses of four denarii added to cedar oil and applied to the hairs for nine months.

XXV. Most beneficial to the ears is the fresh gall of the skate, but also when preserved in wine, the gall of grey mullet, which some call mizylene, and also that of the star-gazer with rose-oil poured into the ears, or beaver oil poured into the ears with poppy juice. There is a creature called the sea-louse, and they recommend sea-lice to be crushed and dropped into the ears in vinegar. Wool, both by itself and dyed with the purple fish, is very good for ear troubles; some moisten it with vinegar and soda. Some there are who recommend as a sovereign remedy for all ear troubles a cyathus of first-grade garum, half as much again honey, with a cyathus of vinegar, to be boiled down in a new cup over a slow fire, every now and then wiping away the froth with feathers, and when the mixture has ceased to froth, to pour it into the ears when tepid. Should the ears be swollen, the same authorities prescribe that the swellings should be first reduced with juice of coriander. Frog fat dropped into the ears immediately takes away pains. The juice of river crabs with barley flour is most beneficial for wounds of the ears. The ash of murex shell with honey, or that of other shell-fish in honey wine, is good treatment for parotid swellings.

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79 XXVI. Dentium dolores sedantur ossibus draconis
 marini scariphatis gingivis, cerebro caniculae in oleo
 decocto adservatoque, ut ex eo dentes semel anno
 colluantur. pastinacae quoque radio scariphari gin-
 givas in dolore utilissimum contritus. is et cum helle-
 boro albo inlitis dentes sine vexatione extrahit.
 salsamentorum etiam <in>¹ fictili vase combustorum
 80 cinis addita farina marmoris inter remedia est. et
 cybia vetera eluta in novo vase, dein trita prosunt
 doloribus. aequae prodesse dicuntur omnium sal-
 samentorum spinae combustae tritaeque et inlitae.
 decocuntur et ranae singulae in aceti heminis, ut
 dentes ita colluantur contineaturque in ore sucus.
 si fastidium obstaret, suspendebat pedibus posteri-
 bus eas Sallustius Dionysius, ut ex ore virus deflueret
 in acetum fervens, idque e pluribus ranis; fortioribus
 stomachis ex iure mandendas dabat. maxillaresque
 ita sanari praecipue dentes putant, mobiles vero
 81 supra dicto aceto stabiliri. ad hoc quidam ranarum
 corpora binarum praecisis pedibus in vini hemina
 macerant et ita collui dentium labantes iubent.
 aliqui totas adalligant maxillis. alii denas in sextariis
 tribus aceti decoxere ad tertias partes, ut mobiles
 dentium stabilirent. nec non XLVI² ranarum corda
 in olei veteris sextario sub aereo testo discoxere, ut
 infunderent per aurem dolentis maxillae. alii iocur
 ranae decoctum et tritum cum melle inposuere denti-

¹ in *post* etiam *add.* Mayhoff.

² XLVI B, *Sillig*: XXXVI *ceteri codd.*

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82 bus. omnia supra scripta ex marina efficaciora. si cariosi et faetidi sint, cetum in furno areferi per noctem praecipiant, postea tantundem salis addi atque ita fricari. enhydris vocatur a Graecis colubra in aqua vivens. huins quattuor dentibus superioribus in dolore superiorum gingivas scariphant, inferiorum inferioribus; aliqui canino tantum carum contenti sunt. utuntur et cancrorum cinere, nam muricum cinis dentifricium est.

83 XXVII. Lichenas et lepras tollit adipis vituli marini, menarum cinis cum mellis obolis ternis, iocur pastinacae in oleo coctum, hippocampi aut delphini¹ cinis ex aqua inlitis. exulcerationem sequi debet curatio, quae perducit ad cicatricem. quidam delphini in fictili torrent, donec pinguitudo similis oleo
84 fluat; hac² perungunt. muricum vel conchyliorum testae cinis maculas in facie mulierum purgat cum melle inlitis cutemque erugat et extendit septenis diebus inlitis ita, ut octavo candido ovorum foveantur. muricum generis sunt quae vocant Graeci coluthia, alii coryphia, turbinata aequae, sed minora, multo efficaciora, etiam oris halitum custodientia. ichthyocolla erugat cutem extenditque in aqua decocta horis quattuor, dein contusa et subacta
85 ad liquorem usque mellis. ita praeparata in vase novo conditur et in usu quattuor drachmis eius

¹ delphini *Mayhoff*: delphinū B²dT: delphini iecur *vulg.*

² hac *Mayhoff*: ac fere omnes *codd.*

^a Apparently *pinguitudinem* is to be understood with *delphini*.

it up with honey, and placed it on the teeth. All the above prescriptions are more efficacious if the sea frog is used. If the teeth are decayed and foul, they recommend whale's flesh to be dried for a night in a furnace, and then the same amount of salt to be added and the whole to be used as a dentifrice. The enhydriis is a snake so-called by the Greeks and living in water. With four upper teeth of this creature they scrape the upper gums, when there is aching of the upper teeth, and with four lower teeth the lower gums when there is aching in the lower teeth. Some are content to use the canine tooth only of these creatures. They also use the ash of crabs, but the ash of the murex makes a dentifrice.

XXVII. Lichens and leprous sores are removed by the fat of the seal, the ash of *menae* with three oboli of honey, the liver of the sting-ray boiled in oil, or the ash of the sea-horse or dolphin applied with water. Ulceration should be followed by treatment, which results in a scar. Some roast dolphin fat^a in an earthen jar until it flows like oil; this they use as ointment. The shell of murex or other shell-fish reduced to ash clears spots from the faces of women, remove wrinkles, and fill out the skin, if applied with honey for seven days, but on the eighth day there should be fomentation with white of egg. To the class murex belong the shell-fish called by the Greeks *coluthia*, by others *coryphia*, equally conical but smaller and much more efficacious, and they also keep the breath sweet. Fish-glue removes wrinkles and fills out the skin; prepared by boiling down in water for four hours and then kneading until liquid like honey. After being thus prepared it is stored away in a new vessel, and when used four drachmae

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binae sulphuris et anchusae totidem, octo spumae argenteae adduntur aspersaque aqua teruntur una. sic inlita facies post quattuor horas abluitur. medetur et lentigini ceterisque vitiis ex ossibus saepiarum cinis. idem et carnes excrescentes tollit et umida ulcera. psoras tollit rana decocta in heminis quinque aquae marinae; excoqui debet, donec sit lentitudo
86 mellis. Fit in mari alcyoneum appellatum, e nidis, ut aliqui existumant, alcyonum et ceycum, ut alii, sordibus spumarum crassescentibus, alii e limo vel quadam maris languine. quattuor eius genera: cinereum, spissum, odoris asperi, alterum molle, lenius odore et fere algae, tertium¹ candidioris vermiculi, quartum pumicosius, spongeae putri simile.
87 paene purpureum quod optimum; hoc et Milesium vocatur. quo candidius autem, hoc minus probabile est. vis eorum ut exulcerent, purgent. usus tostis² et sine oleo. mire lepras, lichenas, lentigines tollunt cum lupino et sulphuris duobus obolis. alcyoneo utuntur et ad oculorum cicatrices. Andreas ad lepras cancri cinere cum oleo usus est, Attalus thynni adipe recenti.

88 XXVIII. Oris ulcera menarum muria et capitum cinis cum melle sanat. strumas pungi piscis eius, qui rana marina appellatur, ossiculo e cauda ita, ut non volneret, prodest. faciendum id cotidie, donec per-

¹ *Post tertium velit formā supplere Mayhoff.*

² *tostis] an lotis? Mayhoff.*

^a *Exulcerare* may mean "to clear away ulcers."

^b Mayhoff suggests "washed."

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curentur. eadem vis est pastinacae radio et lepori marino inposito ita, ut celeriter removeatur, echini testis contusis et ex aceto inlitis, item scolopendrae marinae e melle, cancro fluviatili contrito vel combusto ex melle. mirifice prosunt et saepiae ossa cum
89 axungia vetere contusa et inlita. sic et ad parotidas utuntur, et sauri piscis marini iocineribus, quin et testis cadi salsamentarii tuis cum axungia vetere, muricum cinere ex oleo ad parotidas strumasque. rigor cervicis mollitur et marinis, qui pediculi vocantur, drachma pota, castoreo pota cum pipere ex mulso mixto, ranis decoctis ex oleo et sale, ut sorbeatur succus. sic et opisthotono medentur et tetano,
90 spasticis vero pipere adiecto. Anginas menarum sal-sarum e capitibus cinis ex melle inlitis abolet, ranarum decoctarum aceto succus; hic et contra tonsillas prodest. cancri fluviatiles triti singuli in hemina aquae anginis medentur gargarizati, aut e vino et calida aqua poti. uvae medetur garum coclearibus subditum. vocem siluri recentes salsive in cibo sumpti adiuvant.

91 XXIX. Vomitiones nulli inveterati tritique in potione concitant. Suspiriosis castorea cum Hammoniacci exigua portione ex aceto mulso ieiunis utilissima potu. eadem potio spasmos stomachi sedat ex

complete. The same property is possessed by the sting of the sting-ray and by the sea-hare, but the application must be quickly removed, with the shells of the urchin crushed and applied in vinegar, by the sea-scolopendra too applied in honey, and by river-crabs, crushed or burnt and applied in honey. Wonderfully good too are the bones of cuttle-fish crushed with old axle-grease and applied. The same prescription is used for parotid swellings as well, as is the liver of the horse-mackerel, and even the crushed pieces of a jar in which fish have been salted, applied with old axle-grease; the ash of the murex is applied with oil for parotid swellings and scrofulous sores.

A stiff neck is softened by what are called sea-lice, the dose being a drachma taken in drink, by beaver oil mixed with pepper and taken in honey-wine, and by frogs boiled down in oil and salt for the liquor to be swallowed. This prescription is treatment for opisthotonus and tetanus. For spasms, however, pepper is added. Quinsy is cured by an application in honey of the heads of salted menae, and by the liquor of frogs boiled down in vinegar, which last is also good for diseased tonsils. River crabs pounded one by one in a hemina of water make a healing gargle for quinsy, or they may be taken in wine and warm water. Garum, placed beneath the uvula with a spoon, is good treatment for it. Fresh or salted silurus taken as food improve the voice.

XXIX. Red mullet, preserved, crushed and taken in drink, is an emetic. For asthma is very beneficial beaver oil taken fasting in oxymel with a small quantity of sal ammoniac. This draught also calms stomach spasms when taken in warm oxymel. A

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- 92 aceto mulso caldo. Tussim sanare dicuntur piscium modo e iure decoctae in patinis ranae. suspensae autem pedibus, cum destillaverit in patinas saliva carum, exinterari iubentur abiectisque interaneis condiri. est rana parva arborem scandens atque ex ea vociferans; in huius os si quis expuat ipsamque dimittat, tussi liberari narratur. praecipiunt et cocleae crudae carnem tritam bibere ex aqua calda in tussi cruenta.
- 93 XXX. Iocineris doloribus . . . scorpio marinus in vino necatus, ut inde bibatur, conchae longae carnes ex mulso potae cum aquae pari modo aut, si febres sint, ex aqua mulsa. Lateris dolores leniunt hippocampi tosti sumpti tetheaque similis ostreo in cibo sumpta, ischiadicorum muria siluri clystere infusa. dantur autem conchae ternis obolis dilutis in vini sextariis duobus per dies xv.
- 94 XXXI. Alvum emollit silurus e iure et torpedo in cibo et olus marinum simile sativo—stomacho inimicum alvum facillime purgat, sed propter acrimoniam cum pingui carne coquitur—et omnium piscium ius. idem et urinas ciet, e vino maxime. optimum e scorpionibus et iulide et saxatilibus nec virus resipientibus nec pinguibus. coci debent cum aneto,
- 95 apio, coriandro, porro, additis oleo, sale. purgant et cybia vetera, privatimque cruditates, pituitas, bilem trahunt.

^a In taste? *Tethea* is a sea-squirt.

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Purgant et myaces, quorum natura tota in hoc loco
 dicetur. acervantur muricum modo vivuntque in
 algosis, gratissimi autumno et ubi multa dulcis aqua
 miscetur mari, ob id in Aegypto laudatissimi. pro-
 cedente hieme amaritudinem trahunt coloremque
 96 rubrum. horum ius traditur alvum et vesicas exin-
 anire, interanea destringere, omnia adaperire, renes
 purgare, sanguinem adipemque minuere. itaque
 utilissimi sunt hydropicis, mulierum purgationibus,
 morbo regio, articulario, inflationibus, item obesis,
 fellis pituitae,¹ pulmonis, iocineris, lienis vitiis,
 rheumatismis. fauces tantum vexant vocemque
 97 obtundunt. ulcera, quae serpant aut sint purganda,
 sanant, item carcinomata cremati ut murices; et
 morsus canum hominumque cum melle, lepras, lenti-
 gines. cinis eorum lotus emendat caligines, sca-
 britias, albugines, gingivarum et dentium vitia,
 eruptiones pituitae; et contra dorycnium aut opo-
 98 carpathum antidoti vicem optinent. degenerant in
 duas species: mitulos, qui salem virusque resipiunt,
 myiscas quae rotunditate differunt, minores aliquanto
 atique hirtae, tenuioribus testis, carne dulciores.
 mituli quoque ut murices cinere causticam vim habent
 et ad lepras, lentigines, maculas. lavantur² quoque
 plumbi modo ad genarum crassitudines et oculorum
 albugines caliginesque atque in aliis partibus sordida
 ulcera capitisque pusulas. carnes eorum ad canis
 morsus inponuntur.

99 At pelorides emolliunt alvum, item castorea in

¹ pituitae *multi codd.*: pituitaeque B: pituitae quoque
Mayhoff: an felli?

² lavantur] lavatur *coni. Mayhoff*.

^a With Mayhoff's conjecture (probably correct) "the ash is washed."

The myax also is purgative, and in this place shall be set forth all its characteristics. These animals form clusters, as does the murex, and live where sea-weed lies thick, for which reason they are most delicious in autumn, and from regions where much fresh water mingles with salt, for which reason it is in Egypt that they are most esteemed. As the winter advances, they contract a bitter taste, and a red colour. Their liquor is said to be a thorough purge of belly and bladder, cleanses the intestines, is a universal aperient, purges the kidneys, and reduces blood and fat. Hence these shell-fish are very beneficial for dropsy, menstruation, jaundice, diseases of the joints, flatulence, obesity also, bilious phlegm, affections of lungs, liver, and spleen, and for catarrhs, Their only drawback is that they harm the throat and obstruct the voice. Ulcers that are creeping or need cleansing they heal, and also, if burnt as is the murex, malignant growths. With honey added they heal the bites of dogs and men, leprous sores, and freckles. Their ash, washed, is good for dim vision, roughness and white ulcers of the eyes, affections of the gums and teeth and outbursts of phlegm. Against dorycnium and opocarpathum they serve as an antidote. There are two inferior kinds: the mitulus, with a salty, strong taste; the myisca, different in its roundness, rather smaller and hairy, with thinner shell and sweeter flesh. The mitulus too like the murex has a caustic ash good for leprous sores, freckles, and spots. They are washed^a also as is lead for thick eye-lids, white ulcers, dim vision, dirty ulcers in other parts. and pustules on the head. Their flesh makes an application for dog bites.

But clams relax the bowels, as does beaver oil in

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aqua mulsa drachmis binis. qui vehementius volunt
uti, addunt cucumeris sativi radicis siccae drachmam
et ephronitri duas tethea, torminibus et inflationibus
occurrunt. inveniuntur haec in foliis maris sugentia,
fungorum verius generis quam piscium. eadem et
100 tenesimum dissolvunt reniumque vitia. nascitur et in
mari apsinthium, quod aliqui seriphum vocant, circa
Taposirum maxime Aegypti, exilius terrestri. alvum
solvit et noxiis animalibus intestina liberat—solvunt
101 et saepiae—; in cibo datur cum oleo et sale et farina
coctum. menae salsae cum felle taurino inlita
umbilico alvum solvunt. piscium ius in patina coc-
torum cum lactucis tenesimum discutit. cancri fluvia-
tiles triti et ex aqua poti alvum sistunt, urinam cient
in vino albo. ademptis brachiis calculos pellunt
tribus obolis cum murra et iride singulis earum drach-
mis, ileos et inflationes castorea cum dauci semine et
petroselino quantum ternis digitis sumatur, ex mnlis
calidi cyathis IIII, tormina vero cum aneto ex vino
mixto. erythini in cibo sumpti sistunt alvum.
dysentericis medentur ranae cum scilla decoctae ita,
ut pastilli fiant, vel cor earum cum melle tritum, ut
tradit Niceratus, morbo regio salsamentum cum
pipere ita, ut reliqua carne abstineatur.

102 XXXII. Lienii medetur solea piscis inpositus, item
torpedo, item rhombus; vivus dein remittitur in mare.
scorpio marinus necatus in vino vesicae vitia et cal-

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- culos sanat, lapis, qui invenitur in scorpionis marini cauda, pondere oboli potus, enhydridis iecur, blendorum cinis cum ruta. inveniuntur et in bacchi piscis capite ceu lapilli; hi poti ex aqua calculosis praeclare medentur. aiunt et urticam marinam in vino potam prodesse, item pulmonem marinum decoctum in aqua.
- 103 ova saepiae urinam movent reniumque pituitas extrahunt. rupta, convolsa cancri fluviatiles triti in asinino maxime lacte sanant, echini vero cum spinis suis contusi et e vino poti calculos—modus singulis hemina; bibitur, donec prosit—et alias in cibis ad hoc proficiunt. purgatur vesica et pectinum cibo. ex iis mares alii δόνακας vocant, alii αὐλούς, feminas ὄνυχας. urinam mares movent. dulciores feminae sunt et unicolores. [saepiae quoque ova urinam movent et renes purgant].¹
- 104 XXXIII. Enterocelicis lepus marinus inlinitur tritus cum melle. iecur aquaticae colubrae, item hydri tritum potumque calculosis prodest. ischiadicos liberant salsamenta e siluro infusa clysterio, evacuata prius alvo, sedis attritus cinis e capite mugilum et mullorum; comburuntur autem in fictili vase,
- 105 inlini cum melle debent. item capitis menarum cinis et ad rhagadas et ad condylomata utilis, sicut pelamy-

¹ *Uncos addunt Hard., Mayhoff.*

sea scorpion killed in wine, by the stone which is found in the tail of the sea-scorpion, the dose being an obolus, taken in drink, by the liver of the enhydris, and by the ash of the blenny with rue. There are found too in the head of the fish bacchus as it were pebbles; these taken in water are excellent treatment for stone. It is said that the sea-nettle taken in wine is also good for it, and likewise the pulmo marinus boiled down in water. The eggs of the cuttle-fish are diuretic and bring away phlegms from the kidneys. Ruptures and sprains are healed by river-crabs beaten up in milk, by preference asses', stone however by sea-urchins, spines and all, crushed in wine and taken in doses of a hemina to each urchin, this amount being drunk until benefit is apparent; urchins are also beneficial generally for stone when taken as food. The bladder is cleansed by a diet of scallops. The male scallops are called by some *σόνακες* (reeds), by others *αὐλοί* (pipes); the female they call *ὄνυχες* (nails). The males are diuretic; the females are sweeter and of a uniform colour. [The eggs of the cuttle-fish also are diuretic and cleanse the kidneys].

XXXIII. For intestinal hernia is applied sea-hare beaten up with honey. The liver of the water-coluber, likewise that of the water-snake, beaten up and taken in drink, is good for stone. Sciatica is cured by the brine of pickled silurus, injected as an enema, after previous thorough cleansing of the bowels; chafing of the seat by the head of grey or red mullet reduced to ash. The fish are burnt in an earthen vessel and should be applied with honey. The heads too of menae, reduced to ash, are useful for chaps and condylomata, just as the heads of salted

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dum salsarum capitum cinis vel cybiorum cum melle. torpedo adposita procidentis interanei morbum ibi coerces. cancrorum fluviatilium cinis ex oleo et cera rimas in eadem parte emendat, idem et marini cancri pollut.

106 XXXIV. Panos salsamenta coracini¹ discutiunt, sciaenae interanea et squamae combustae, scorpio in vino decoctus ita, ut foveantur ex illo. at echinorum testae contusae et ex aqua inlitaie incipientibus panis resistunt, muricum vel purpurarum cinis utroque modo, sive discutere opus sit incipientes sive concoctos emittere. quidam ita componunt medicamentum: 107 cerae et turis drachmas xx, spumae argenti xxx, cineris muricum x, olei veteris heminam. prosunt per se salsamenta cocta, cancri fluviatiles triti;² verendorum pusulas cinis e capite menarum, item carnes decoctae et inpositae, similiter percae salsae e capite cinis melle addito, pelamydum capitis cinis aut 108 squatinae cutis combustae. haec est qua diximus lignum poliri, quoniam et a mari fabriles usus exeunt. prosunt et zmarides inlitaie, item muricum vel purpurarum testae cinis cum melle, efficacius crematarum cum carnibus suis. carbunculos verendorum privatim salsamenta cocta cum melle restingunt. testem, si descenderit, coclearum spuma inlini volunt.

¹ coracini *Hermolaus Barbarus*: coracina (*fortasse adiectivum*) *multi codd.*: coraciosa B: coracinorū *Mayhoff*.

² *Hic vult addere ad vel contra Mayhoff.*

^a To govern *pusulas* *Mayhoff* adds *ad*. It is easy however to understand e.g. *emendat*.

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109 XXXV. Urinae incontinentiam hippocampi tosti et in cibo saepius sumpti emendant, ophidion pisciculus congro similis cum lili radice, pisciculi minuti ex ventre eius, qui devoraverit, exempti cremati ita, ut cinus eorum bibatur ex aqua. iubent et cocleas Africanas cum sua carne comburi cineremque ex vino Signino dari.

110 XXXVI. Podagris articulariisque morbis utile est oleum, in quo decocta sint ranarum intestina, et rubetae cinis cum adipe vetere. quidam et hordei cinerem adiciunt trium rerum aequo pondere. iubent et lepore marino recenti podagram fricari, fibrinis quoque pellibus calceari, maxime Pontici fibri, item vituli marini, cuius et adips prodest isdem, nec non et bryon, de quo diximus, lactucae simile, rugosioribus foliis, sine caule. natura ei styptica, inpositumque lenit impetus podagrae. item alga, de qua et ipsa dictum est. observatur in ea, ne arida inponatur. perniones emendat pulmo marinus, cancri marini cinis ex oleo, item fluviatiles triti ustique, cinere¹ et ex oleo subacto,² siluri adips. in articulis morborum impetus sedant ranae subinde recentes inpositae; quidam dissectas iubent inponi. corpus auget ius mitulorum et concharum.

112 XXXVII. Comitiales, ut diximus, coagulum vituli marini bibunt cum lacte equino asinaeve aut cum

¹ cinere *codd.*: in cinerem *coni. Sillig.*

² subacto *Mayhoff*: subacti *codd.*

^a Green laver. See *Index of Plants* in Vol. VII.

^b See XXXVII. § 56.

^c See § 66 of this book.

^d See VIII. § 111.

XXXV. Incontinence of urine is remedied by the sea-horse, roasted and taken often as food, by the ophidion, a little fish like the conger, with lily-root added, and by the tiny fish in the belly of the fish that has swallowed them, taken out and burnt for their ash to be taken in water. They also recommend African snails to be burnt with their flesh, and the ash to be given in Signian wine.

XXXVI. For gouty pains and for diseases of the joints oil is useful in which the intestines of frogs have been boiled down, and also the ash of bramble-toads mixed with stale grease. There are some who add to these also barley ash, taking equal weights of three ingredients. They recommend too a gouty foot to be rubbed with a fresh sea-hare, and the patient also to be shod with beaver skin, by preference that of the Pontic beaver, or else with seal skin, seal fat also being good for gout. Good also is bryon,^a about which I have spoken,^b a plant like the lettuce, but with more wrinkled leaves and without a stem. Its nature is styptic, and applied to the painful part it soothes the paroxysms of gout. Sea-weed too is good, about which by itself also I have spoken.^c Care is taken with sea-weed, not to apply it dry. An application of pulmo marinus is a cure for chilblains, and so is the ash of a sea-crab in oil, river-crabs too pounded and burnt, the ash also being kneaded with oil, and the fat of the silurus. In diseases of the joints paroxysms are soothed by applying fresh frogs every now and then; some recommend them to be cut up before being applied. Flesh is put on by the liquid of mussels and of shell-fish generally.

XXXVII. Epilepsy, as I have said,^d is treated by doses of seals' rennet with mares' or asses' milk, or

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Punici suco, quidam ex aceto mulso. nec non aliqui per se pilulas devorant. castoreum in aceti mulsi cyathis tribus ieiunis datur, iis vero, qui saepius corripiantur, clystere infusum mirifice prodest. castorei drachmae duae esse debebunt, mellis et olei sextarius et aquae tantundem. ad praesens vero correptis olfactu subvenit cum aceto. datur et mustelae marinae iocur, item muris, vel testudinum sanguis.

- 113 XXXVIII. Februm circuitus tollit iocur delphini gustatum ante accessiones. hippocampi necantur in rosaceo, ut perungantur aegri frigidis febribus, et ipsi adalligantur aegris. item ex asello pisce lapilli, qui plena luna inveniuntur in capite, alligantur in linteolo. phagri fluviatilis longissimus dens capillo adalligatus ita, ut quinque diebus eum, qui adalligaverit, non cernat aeger, ranae in trivio decoctae oleo abiectis carnibus perunctos liberant quartanis.
- 114 sunt qui strangulatas in oleo ipsas clam adalligent oleoque eo perungant. cor earum adalligatum frigora febrium minuit et oleum, in quo intestina decocta sint. maxime autem quartanis liberant ablatis unguibus ranae atque¹ adalligatae et rubeta, si iocur eius vel cor adalligetur in panno leucophaeo. cancri fluviatiles triti in oleo et aqua perunctis ante

¹ atque *codd.*: acque *Mayhoff*.

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accessiones in febribus prosunt; aliqui et piper
115 addunt. alii decoctos ad quartas in vino e balineo
egressis bibere suadent in quartanis, aliqui sinistrum
oculum devorare. Magi oculis eorum ante solis
ortum adalligatis aegro ita, ut caecos dimittant in
116 aquam, tertianas abigi promittunt. eosdem oculos
cum carnibus luscinae in pelle cervina inligatos
praestare vigiliam somno fugato tradunt. in lethar-
gum vergentibus coagulo ballaenae aut vituli marini
ad olfactum utuntur. alii sanguinem testudinis
lethargicis inlinunt. tertianis mederi dicitur et
spondylus percae adalligatus, quartanis cocleae
fluviatiles in cibo recentes; quidam ob id adservant
sale, ut dent tritas in potu.

117 XXXIX. Strombi in aceto putrefacti lethargicos
excitant odore. prosunt et cardiacis. cachectis,
quorum corpus macie conficitur, tethea utilis unt
cum ruta ac melle. hydropicis medetur adips
delphini liquatus et cum vino potus. gravitati
saporis occurritur tactis naribus unguento aut odori-
bus vel quoquo modo opturatis. strombi quoque
carnes tritae et in mulsi tribus heminis pari modo
aquae aut, si febres sint, ex aqua mulsa datae pro-
118 ficiunt, item sucus cancrorum fluviatilium cum melle,
rana quoque aquatica in vino vetere et farre decocta
ac pro cibo sumpta ita, ut bibatur ex eodem vase, vel

^a Or: turtle.

rubbed over the patient before the paroxysms, are beneficial in fevers; some add pepper also. Others prescribe them for quartans boiled down to a quarter in wine, to be taken after leaving the bath; some, however, the left eye to be swallowed. The Magi assure us that tertian fevers are driven away by crabs' eyes, attached as an amulet before sunrise to the patient, but the blinded crabs must be set free into water. The Magi also teach that crabs' eyes, tied on with the flesh of a nightingale in deer skin, drive away sleep and cause watchfulness. For those sinking into lethargus they prescribe that the patient smell the rennet of the whale or that of the seal. Others use as embrocation for lethargus the blood of a tortoise.^a It is also said that tertians are treated successfully by the vertebra of a perch worn as an amulet; quartans by fresh river snails taken as food. Some preserve them in salt for this purpose, to administer them, beaten up, in a draught.

XXXIX. Strombi rotted in vinegar rouse by the smell the victims of lethargus. They are also good for those with stomach complaints. Those in a decline, with a body seriously wasting away, find beneficial tethea with rue and honey. Dropsy is treated with melted dolphin fat taken with wine. The nauseating taste is neutralised by touching the nostrils with unguent or scents, or plugging them in any suitable way. The flesh of the strombus also, pounded and given in three heminae of honey wine and an equal measure of water, or should there be fever, in hydromel, benefit the dropsical; likewise the juice of river crabs with honey; water frogs too are boiled down in old wine and emmer wheat, and then taken as food but out of the same vessel as

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testudo decisis pedibus, capite, cauda et intestinis exemptis, reliqua carne ita condita, ut citra fastidium sumi possit. cancri fluviatiles ex iure sumpti et phthisicis prodesse traduntur.

119 XL. Adusta sanantur cancri marini vel fluviatilis cinere ex oleo; ichthyocolla, ranarum cinere ea, quae ferventi aqua combusta sint; haec curatio etiam pilos restituit.¹ cancrorum fluviatilium cinere putant utendum cum cera et adipe ursino. prodest et fibrinarum pellium cinis. ignes sacros restingunt ranarum viventium ventres inpositi, pedibus posterioribus pronas adalligari iubent, ut crebriore anhelitu prosint. utuntur et silurorum salsamenti capitum cinere ex aceto. pruritus scabiemque non hominum modo, sed et quadripedum efficacissime sedat iecur pastinacae decoctum in oleo.

120 XLI. Nervos vel praecisos purpurarum callum, quo se operiunt, tusum glutinat. tetanicos coagulum vituli adjuvat ex vino potum oboli pondere, item ichthyocolla, tremulos castoreum, si ex oleo perunguntur. mullos in cibo inutiles² nervis invenio.

121 XLII. Sanguinem fieri piscium cibo putant, sisti polypo tuso inlito, de quo et haec traduntur: muriam ipsum ex sese emittere et ideo non debere addi in coquendo, secari harundine, ferro enim infici vitiumque trahere natura dissidente. ad sanguinem sisten-

¹ *Hic codd. cum habent: item Mayhoff. Fortasse cum ex aut cancrorum aut cum cera ortum.*

² *utiles coni. Warmington.*

^a Or: turtle.

^b In a Book dealing with fish remedies *vituli* cannot mean an ordinary "calf."

^c I so translate because of *ex*.

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dum et ranarum inlinunt cinerem vel sanguinem
 122 arefactum. quidam ex ea rana, quam Graeci cala-
 miten vocant, quoniam inter harundines fruticesque
 vivat, minima omnium et viridissima, sanguinem
 cineremve fieri¹ inbent, aliqui et nascentium ranarum
 in aqua, quibus adhuc cauda est, in calice novo com-
 bustarum cinerem, si per nares fluat, inferciendum.²
 123 diversus hirudinum, quas sanguisugas vocant, ad
 extrahendum sanguinem usus est. quippe eadem
 ratio earum, quae cucurbitarum medicinalium, ad
 corpora levanda sanguine, spiramenta laxanda iudi-
 catur, sed vitium, quod admissae semel desiderium
 faciunt circa eadem tempora anni semper eiusdem
 medicinae. multi podagris quoque admittendas
 censuere. decidunt satiatae et pondere ipso san-
 guinis detractae aut sale adpersae; aliquando tamen
 relinquunt adfixa capita, quae causa volnera insana-
 bilia facit et multos interemit, sicut Messalinum e
 consularibus patriciis, cum ad genu³ admisisset, in
 veneni⁴ virus remedio verso. maxime rufae ita
 124 formidantur; ergo sugentes⁵ forficibus praecidunt,
 ac velut siphonibus defluit sanguis, paulatimque
 morientium capita se contrahunt, nec relinquuntur.
 natura earum adversatur cimicibus, suffitu necat eos.
 fibrinarum pellium cum pice liquida combustarum
 cinis narium profluvia sistit suco porri mollitus.
 125 XLIII. Extrahit corpori tela inhaerentia saepiarum

¹ Inlini *coni*. Warmington.

² inferciendum *Ianus*: imperficiendum *codd*.

³ genu B² E: genum B¹RdT: genam *coni*. Mayhoff.

⁴ in veneni *Ianus*: invenit B: inveniunt *multi codd*.

⁵ sugentes *Sillig*: (sugere?) ursas B¹: oras VRdT: sugere
 orsas *Mayhoff ex multis lectionibus et coniecturis*.

^a The Greek κάλαμος means a reed.

they also apply the ash of frogs or their dried blood. Some recommend the blood or ash to come from the frog called by the Greeks calamites,^a because it lives among reeds and shrubs, the smallest and greenest of all frogs; some that the ash of frogs at their birth in water, while still tadpoles with a tail, and calcined in a new earthen vessel, should be stuffed into the nostrils of those with epistaxis. Opposite is the use of leeches, called sanguisugae,^b which are employed to extract blood. For these are supposed to have the same purpose as that of cupping-glasses, to relieve the body of blood and to open the pores of the skin; but an objection is that once applied they create a craving for the same treatment every year at about the same time. Many have been of opinion that leeches should be applied also for gout. When gorged leeches fall off, detached by the mere weight of blood or by a sprinkle of salt; sometimes however they leave their heads stuck fast in the flesh, thus causing incurable wounds that have often proved fatal. An instance is Messalinus, a patrician of consular rank, who applied leeches to his knee,^c and the remedy turned to a virulent poison. It is especially red leeches that are so dreaded; so they cut them off with scissors while they are sucking, and the blood runs down as it were through tubes; as they die their heads little by little contract, and are not left in the bite. The nature of leeches is adverse to that of bugs, which are killed if fumigated with leeches. Beaver skins, burnt with liquid pitch and softened with leek juice, arrest discharges from the nostrils.

XLIII. Weapons sticking in the flesh are drawn

^b I.e. "blood-suckers."

^c With Mayhoff's suggestion, "cheek."

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testae cinis, item purpurarum testae ex aqua, salsamentorum carnes, cancri fluviatiles triti, siluri fluviatilis, qui et alibi quam in Nilo nascitur, carnes inpositae, recentis sive salsi. eiusdem cinis extrahit, adips et cinis spinae eius vicem spodii praebet.

- 126 XLIV. Ulcera, quae serpunt, et quae in iis crescunt capitis menarum cinis vel siluri coercent, carcinomata percarum capita salsarum, efficacius si cinere earum misceantur¹ sal et cunila capitata oleoque subigantur. cancri marini cinis usti cum plumbo carcinomata compescit. ad hoc et fluviatilis sufficit cum melle lineaque lanugine; aliqui malunt alumen melque miscere² cineri. phagedaenae siluro inveterato et cum sandaraca trito, cacoëthe et nomae et putrescentia cybio vetere sanantur; vermes innati
- 127 ranarum felle tolluntur. fistulae aperiuntur siccanturque salsamentis cum linteolo inmissis, intraque alterum diem callum omnem auferunt et putrescentia ulcerum quaeque serpant emplastri modo subacta et inlita. et allex purgat ulcera in linteolis concerptis, item echinorum testae cinis. carbunculos coracinorum salsamenta inlita discutiunt, item mulorum salsamenti cinis—quidam capite tantum utuntur cum melle—vel coracinorum carnes. muricum cinis cum oleo tumores tollit, cicatrices fel scorpionis marini.

- 128 XLV. Verrucas tollit glani iocur inlitum, capitis

¹ misceantur *coni.* *Mayhoff*: misceatur *codd.*

² miscere *multi codd.*: misceri B. *Sillig, Mayhoff.*

^a See List of Diseases.

^b See *Index of Plants* in Vol. VII.

^c *Allex* (variously spelt) is fish pickle.

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menarum cinis cum alio tritus—ad thymia crudis utuntur—fel scorpionis marini rufi, zmarides tritae inlita, alex defervefacta. unguium scabritiam cinis e capite menarum extenuat.

- 129 XLVI. Mulieribus lactis copiam facit glauciscus e iure sumptus et zmarides cum tisana sumptae vel cum feniculo decoctae. mammas ipsas muricum vel purpurae testarum cinis cum melle efficaciter sanat, item cancri inliti fluviatiles vel marini. pilos in mamma muricum carnes inpositae tollunt. squatinae inlita crescere mammas non patiuntur. delphini adipe linamenta tincta¹ accensa excitant volva strangulata
 130 oppressas, item strombi in aceto putrefacti. percarum vel menarum capitis cinis sale admixto et cunila oleoque volvae medetur, suffitione quoque secundas detrahit. item vituli marini adips instillatur igni naribus intermortuarum volvae vitio, coagulo eiusdem in vellere inposito. pulmo marinus alligatus purgat egregie profluvia, echini viventes tusi et in vino dulci poti sistunt et cancri fluviatiles triti in vino potique.
 131 item siluri suffitu, praecipue Africi, faciliores partus facere dicuntur, cancri ex aqua poti profluvia sistere, ex hysopo purgare. et si partus strangulet,² similiter poti auxiliantur. eosdem recentes vel aridos bibunt

¹ tincta add. Brakman, inlita Mayhoff, post C. F. W. Müller.

² strangulet VR: stranguletur d (?).

^a The Greek *θύμιον*, a large wart.

^b Brakman's *tincta* is perhaps better than Mayhoff's *inlita*, as *illino* in Pliny is regularly used of applying medicaments to the human body.

^c Or: "ailment of the womb."

garlic—for thymion^a warts they use the materials raw—by the gall of the red sea scorpion, by zmarides beaten up and applied, and by allex thoroughly boiled. Rough nails are smoothed by the ash of menae heads.

XLVI. Milk in women is made plentiful by glauciscus taken with its liquor, by zmarides taken with barley water or boiled down with fennel. The breasts themselves are treated efficaciously by shells of murex or purple fish reduced to ash and combined with honey; by crabs too, river or sea, applied locally. The flesh of the murex if applied removes hair growing on the breasts. Squatinae applied prevent their swelling. Lint, smeared^b with dolphin's fat and then set alight, arouse women suffering from hysterical suffocations; likewise strombi rotted in vinegar. The ash of the heads of perch or menae, mixed with salt, cunila, and oil, is healing to the uterus; by fumigation also it brings away the after-birth. The fat of the seal melted in the fire is inserted into the nostrils of women swooning from hysterical suffocation,^c or else seal's rennet used as a pessary in a piece of fleece. The pulmo marinus, tied on,^d is an excellent promoter of menstruation, which is checked by living sea urchins pounded up and taken in a sweet wine or by river crabs beaten up and so taken. Siluri also, especially the African, are said to make easier the birth of children, crabs taken in water to arrest menstruation, taken in hyssop to promote it. If birth causes choking,^e the same medicament taken in drink is a help. Crabs, fresh

^d Here apparently as an amulet, although that is usually *adalligare*.

^e With the reading *stranguletur*: "if the child chokes."

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ad partus continendos. Hippocrates et ad purgationes mortuosque partus utitur illis, cum quinis, lapathi radice rutaеque, et fuligine trita et in mulso
132 data potui. iidem in iure cocti cum lapatho et apio menstruas purgationes expediunt lactisque ubertatem faciunt, iidem in feбри, quae sit cum capitis doloribus et oculorum palpitatione, mulieribus in vino austero dati prodesse dicuntur. castoreum ex mulso potum purgationibus prodest contraque volvam ol-
133 factum cum aceto et pice aut subditum pastillis. ad secundas etiam uti eodem prodest cum panace in quattuor cyathis vini et a frigore laborantibus ternis obolis. sed si castoreum fibrumve supergrediatur gravida, abortum facere dicitur et periclitari partu, si superferatur. mirum est et quod de torpedine invenio, si capiatur cum luna in libra sit, triduoque adservetur sub diu, faciles partus facere postea, quotiens inferatur. adiuvare et pastinacae radius adalligatus umbilico existumatur, si viventi ablatus
134 sit, ipsa in mare dimissa. invenio apud quosdam ostraceum vocari quod aliqui onychen vocent; hoc suffitum volvae poenis mire resistere; odorem esse castorei, meliusque cum eo ustum proficere; vetera quoque ulcera et cacoëthe eiusdem cinere sanari. nam carbunculos et carcinomata in muliebri parte praesentissimo remedio sanari tradunt cancro femina

^a See *Women's Diseases*, Littré VIII, p. 220. In the Greek it is five crabs, etc., to be taken thrice fasting.

^b A little shell.

^c A nail or claw.

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cum salis flore contuso post plenam lunam et ex aqua inlito.

- 135 XLVII. Psilotrum est thynni sanguis, fel, iocur, sive recentia sive servata, iocur etiam tritum mixtoque cedrio plumbea pyxide adservatum. ita pueros mangonicavit Salpe obstetrix. eadem vis pulmoni¹ marino² leporis marini sanguini³ et felli⁴ vel si in oleo lepus hic necetur. . . .⁵ cancri, scolopendrae marinae cinis cum oleo, urtica marina trita ex aceto scillite, torpedinis cerebrum cum alumine inlitum xvi
136 luna. ranae parvae, quam in oculorum curatione descripsimus, sanies efficacissimum psilotrum est, si recens inlinatur, et ipsa arefacta ac tusa, mox decocta tribus heminis ad tertias vel in oleo decocta aereis vasis. eadem mensura alii ex xv ranis conficiunt psilotrum, sicut in oculis diximus. sanguisugae quoque tostae in vase fictili et ex aceto inlitae eundem contra pilos habent effectum. [Hic suffitus urentium eas necat cimices]. inuncto castoreo quoque cum melle pro psilotro usi pluribus diebus reperiuntur. in omni autem psilotro evellendi prius sunt pili.

- 137 XLVIII. Infantium gingivis dentitionibusque

¹ pulmoni *codd.*: pulmonis *vulg.*, *Mayhoff*.

² marino *VRd*: marini *Bb. vulg.* *Mayhoff*.

³ sanguini *multi codd.*: sanguine *E, vulg.*, *Mayhoff*.

⁴ felli *dT Hard.*: felle *Mayhoff cum multis codd.*

⁵ *Hic lacunam indicat Mayhoff.*

^a The best kind of salt.

^b *Mayhoff* suggests that the words *item adhibetur* or the like have fallen out here. The ending *-etur* may have caused the omission of one verb.

crushed up with flower of salt ^a after a full moon and applied in water.

XLVII. Superfluous hair is removed by blood, gall, and liver of the tunny, whether fresh or preserved, by the liver too when beaten up, mixed with cedar oil, and stored in a leaden box. In this way slave boys were prepared for market by Salpe the midwife. The same property is found in the pulmo marinus, in the blood and gall of the sea hare, or this hare itself killed in oil.^b There is also used the ash of the crab or of the sea scolopendra with oil, the sea anemone beaten up in squill vinegar, or the brain of the torpedo applied with alum on the sixteenth day of the moon. The blood-like matter (sanies) given out by the small frog, that we have spoken of ^c in the treatment of the eyes, is a most efficacious depilatory if applied fresh; and so is the frog itself, dried and pounded up, and then boiled down to one third in three heminae, or boiled down in oil in brazen vessels. Others make a depilatory out of fifteen frogs treated with the same proportions of liquid, as we mentioned when treating of the eyes.^d Leeches also, roasted in an earthen vessel and applied with vinegar, have the same effect in extracting hair. The fumes that come from those burning the leeches kill bugs.^e There are also found those who have used for several days as a depilatory rubbing with beaver oil and honey. Before using however any depilatory the hairs must first be pulled out.

XLVIII. The gums and the teething of infants are

^c See § 74 of this Book.

^d See § 75 of this Book; *eadem mensura* could be taken with the preceding sentence.

^e This sentence is bracketed by Mayhoff.

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plurimum confert delphini cum melle dentium cinis et
si ipso dente gingivae tangantur. adalligatus idem
pavores repentinos tollit. idem effectus et caniculae
dentis. ulcera vero, quae in auribus aut ulla parte
corporis fiant, cancrorum fluviatilium sucus cum
138 farina hordeacea sanat. et ad reliquos morbos triti in
oleo perunctis prosunt. siriasim infantium spongea
frigida cerebro umefacto rana inversa adalligata
efficacissime sanat. aridam inveniri adfirmant.

XLIX. Mullus in vino necatus vel piscis rubellio
vel anguillae duae, item uva marina in vino putrefacta
iis, qui inde biberint, taedium vini adfert.

139 L. Venerem inhibet echeneis, hippopotamii frontis
e sinistra parte pellis in agnina adalligata, fel torpe-
dinis vivae genitalibus inlitum. concitant coclearum
fluviatilium carnes sale adservatae et in potu ex vino
datae, erythini in cibo sumpti, iocur ranae diopetis
vel calamitis in pellicula gruis adalligatum vel dens
crocodili maxillaris adnexus bracchio vel hippo-
campus vel nervi rubetae dextro lacerto adalligati.
amorem finit in pecoris recenti corio rubeta adalligata.

140 LI. Equorum scabiem ranae decoctae in aqua ex-

^a See List of Diseases.

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tenuant, donec inlini possint. aiunt¹ ita curatos² non repeti postea. Salpe negat canes latrare, quibus in offa rana viva data sit.

LII. Inter aquatilia dici debet et calamochnus, Latine adarca appellata. nascitur circa harundines tenues e spuma aquae dulcis ac marinae, ubi se miscent. vim habet causticam, ideo acopis utilis et contra perfrictionum vitia. tollit et mulierum lenti-
141 gines in facie. et calami simul dici debent: phragmitis radix recens tusa luxatis medetur et spinae doloribus ex aceto inlita, Cyprii vero, qui et donax vocatur, cortex alopecii medetur ustus et ulceribus veteratis,³ folia extrahendis quae infixae sint corpori et igni sacro. paniculae flos aures si intravit, exsurdat. sepiae atramento tanta vis est, ut in lucernam⁴ addito Aethiopus videri ablato priore lumine Anaxilaus tradat. rubeta excocta aqua potui data suum morbis medetur vel cuiuscumque ranae cinis. pulmone marino si confricetur lignum, ardere videtur adeo, ut baculum ita praeluceat.

142 LIII. Peractis aquatiliis dotibus non alienum videtur indicare per tot maria, tam vasta et tot milibus passuum terrae infusa extraque circumdata mensura, paene ipsius mundi quae intellegatur, animalia cen-

¹ aiunt et *coni. Mayhoff.*

² curatos sic *coni. Mayhoff.*

³ inveteratis *coni. Mayhoff:* veteratis; folia <utilia> *coni. Warmington.*

⁴ lucernam *Mayhoff:* lucerna *codd.*

^a Probably e.g. at strangers. The Bohn translators have: "lose the power of barking." Perhaps when they see the frog.

down in water until they can be used as ointment. It is said that a horse so treated is never attacked again afterwards. Salpe says that dogs do not bark ^a if a live frog has been put into their mess.

LII. Among water creatures ought also to be mentioned calamochnus, the Latin name of which is adarca. It collects around thin reeds from the foam forming where fresh and sea water mingle. It has a caustic property, and is therefore useful for tonic pills and to cure cold shiverings. It also removes freckles on the face of women. At the same time reeds should be spoken of. The root of phragmites, pounded fresh, cures dislocations, and applied with vinegar pains in the spine; the Cyprian reed indeed, also called donax, has a bark which when calcined cures mange and chronic ulcers, and its leaves extract things embedded in the flesh, and help erysipelas. The flower of the reed panicula causes complete deafness if it has entered the ears. The ink of the cuttle fish has so great power that Anaxilaus reports that poured into a lamp the former light utterly vanishes, and people appear as black as Ethiopians. A bramble toad thoroughly boiled in water and given to drink cures pigs' diseases, as does the ash of any frog or toad. If wood is thoroughly rubbed with pulmo marinus it seems to be on fire, so much so that a walking-stick, so treated, throws a light forward.

LIII. Now that I have completed my account of the natural qualities of aquatic plants and animals, it seems to me not foreign to my purpose to point out that, throughout all the seas which are so numerous and spacious and come flooding into the landmass over so many miles and surround it outside to

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tum quadraginta quattuor omnino generum esse
 eaque nominatim complecti, quod in terrestribus
 143 volucrisque fieri non quit. neque enim omnes
 Indiae Aethiopiaeque aut Scythiae desertorumve
 novimus feras aut volucres, cum hominum ipsorum
 multo plurimae sint differentiae, quas invenire potui-
 mus. accedat his Taprobane insulaeque aliae atque
 aliae¹ oceani fabulose narratae. profecto conveniet
 non posse omnia genera in contemplationem univer-
 sam vocari. at, Hercules, in tanto mari oceanoque
 quae nascuntur certa sunt, notioraque, quod miremur,
 quae profundo natura mersit.

144 Ut a beluis ordiamur, arbores, physeteres, ballac-
 nae, pistrices, Tritones, Nereides, elephanti, homines
 qui marini vocantur, rotae, orcae, arietes, musculi et
 alii piscium forma [arietes],² delphini celebresque
 Homero vituli, luxuriae vero testudines et medicis
 145 fibri—quorum generis lustras nusquam mari accepi-
 mus mergi, tantum marina dicentes—iam caniculae,
 drinones, cornutae, gladii, serrae, communesque
 terrae, mari, amni hippopotami, crocodili, et amni
 tantum ac mari thynni, thynnides, siluri, coracini,
 percae.

Peculiares autem maris acipenser, aurata, asellus,

¹ aliac atque *Mayhoff*: aliaeq B: *omm. rell.*

² arietes *seclud. Warmington*: quadripedes *Birt*: terrestres
coni. Mayhoff.

^a *Od.*, IV, 436.

^b In fact otters do sometimes enter the sea at estuaries,
 while beavers do not.

^c In sections 145–153 there are many variants in the
 names of fish. We note a few only. See Index of Fishes.

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acharne, aphye, alopex, anguilla, araneus, boca, batia,
 bacchus, batrachus, belonae, quos aculeatos vocamus—
 balanus, corvus, citharus, rhomborum generis pessi,
 146 mus, chalcis, cobio, callarias, asellorum generis, minor
 esset, colias¹ sive Parianus sive Sexitanus a patria
 Baetica, lacertorum minimi, † ab iis moncreses †²
 cybium—ita vocatur concisa pelamys, quae post XL
 dies a Ponto in Maeotim revertitur—cordyla—et
 haec pelamys pusilla; cum in Pontum a Maeotide
 exit, hoc nomen habet—cantharus, callionymus sive
 uranoscopos, cinaedi, soli piscium lutei, cnide, quam
 147 nos urticam vocamus, cancrorum genera, chemae
 striatae, chemae leves, chemae peloridum generis,
 varietate distantes et rotunditate, chemae glycy-mar-
 ides, quae sunt maiores quam pelorides, coluthia sive
 coryphia, concharum genera, inter quae et margariti-
 ferae, cochloe,³ quorum generis pentadactyli, item
 helices (ab aliis⁴ actinophoroe dicuntur), quibus
 radii; . . . cantant—extra haec sunt rotundae in
 148 oleario usu cocleae—cucumis, cynops, cammarus,
 cynosdextia, draco—quidam aliud volunt esse dracun-
 culum; est autem gerriculae amplae similis, aculeos

¹ colias *Hermolaus Barbarus*; coliae *Birt*: collia *B*: colla *multi codd.*

² moncreses *B*: nostrates *Mayhoff*: varia *rell. codd.*

³ conchoe *coni. Mayhoff.*

⁴ helices ab aliis *Ianus*: h. ab his *B*: halicembalis *vel sim. rell.*

^a Not of the island Paros, but of the city Parium on the Propontis.

^b Of the town Sex in Spain.

^c The Latin text is here corrupt.

^d This is puzzling. What are *radii* in the case of shell-bearing molluscs? “The spokes on whose shells are used for

“ asellus,” “ acharne,” small fry, thresher-shark, eel, weever-fish, bogue, skate, grey mullet, angler-fish, garfish ?—fish which we call thorny, sea-acorn, “ sea-crow,” “ cithari ” the worst esteemed of the turbot kind, shad (?), goby, “ callarias ” of the “ aselli ” kind were it not smaller, Spanish mackerel also known as the Parian ^a and as Sexitan ^b from its native land Baetica, the smallest of the mackerels, . . ., ^c “ cybium ” (this is the name given, when it has been sliced, to the young tunny which returns from the Black Sea into Lake Maeotis after forty days), “ cordyla ” (this too is a very small young tunny; it has this name when it goes out from Lake Maeotis into the Black Sea), black bream, the “ callionymus ” or “ uranoscopus,” “ cinaedi ”-wrasse—the only fishes which are yellow, sea-anemone, which we call nettle, species of crab, furrowed clams, smooth clams, clams of the kind “ peloris,” differing in variety of roundness of their shells, “ glycyumarides ”-clams, which are larger than “ pelorides,” “ coluthia ” or “ coryphia,” species of bivalves amongst which are also the pearl-bearers, “ cochloe ” (to the class of these belong the “ five-fingered,” also “ helices ” called by others “ actinophorae ”), whose rays give a singing sound ^d (outside these ^e there are round shells used in dealing with oil), sea-cucumber, “ cynops,” shrimps, ^f “ dog’s right-hand,” weever-fish; (certain people want the “ little weever ” to be regarded as a different animal; in fact it is like a large “ gerricula,”

musical purposes ”—Bostock and Riley. Perhaps the gastropod mollusc “ pelican’s foot ” is meant.

^e *haec*, neuter plural, is another problem. Mayhoff may be right in suggesting a lacuna after *radii*.

^f Or prawns.

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in branchiis habet ad caudam spectantes; sic ut
 scorpio laedit, dum manu tollitur—erythinus, echen-
 ais, echinus, elephanti locustarum generis nigri, pedi-
 bus quaternis bisulcis—praeterea bracchia iis¹ II
 binis articulis singulisque forcipibus denticulatis—
 fabri sive zaei,² glauciscus, glanis, gonger, girres,
 149 galeos, garos, hippos, hippuros, hirundo, halipleumon,
 hippocampos, hepar, ictinus, iulis, lacertorum genera,
 lolligo volitans, locustae, lucerna, lelepris,³ lamirus,⁴
 lepus, leones, quorum bracchia cancris similia sunt—
 reliqua pars locustae—mullus, merula inter saxatiles
 laudata, mugil, melanurus, mena, maeotes, murena,
 mys, mitulus, myiscus, murex, oculata, ophidion,
 ostreae, otia, orcynus—hic est pelamydum generis
 maximus neque ipse redit in Maeotim, similis tritomi,
 150 vetustate melior—orbis, orthagoriscus, phager, phycis
 saxatilium quaedam, pelamys—earum generis
 maxima apolectum vocatur, durius tritomo—porcus,
 phthir, passer, pastinaca, polyporum genera, pec-
 tines—maximi et in his nigerrimi aestate lauda-
 tissimi, hi autem Mytilenis, Tyndaride, Salonis,
 Altini, Chia in insula, Alexandriae in Aegypto—pec-
 tunculi, purpurae, pegrides, pina, pinoteres, rhine,
 quem squatum vocamus, rhombus, scarus, principalis
 151 hodie, solea, sargus, squilla, sarda—ita vocatur

¹ iis *add. Mayhoff.*

² zaei *Mayhoff: zaes codd. (zais B).*

³ lelepris *Janus coll. Hesych.: varia codd.*

⁴ lamirus] *larinus Sillig coll. Hesych.*

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PLINY: NATURAL HISTORY

pelamys longa ex oceano veniens—scomber, salpa, sorus, scorpaena, scorpio, salax, sciaena, sciadeus, scolopendra, smyrus, sepia, strombus, solen sive aulos sive donax sive onyx sive dactylus, spondyli, smarides, stellae, spongeae, turdus, inter saxatiles nobilis, thynnus, thranis, quem alii xiphian vocant, thrissa, torpedo, tethea, tritomum pelamydum generis magni,
152 ex quo terna cybia fiunt, veneria, uva, xiphias.

LIV. His adiciemus ab Ovidio posita animalia, quae apud neminem alium reperiuntur, sed fortassis in Ponto nascentia, ubi id volumen supremis suis temporibus inchoavit: bovem, cercyrum in scopulis viventem, orphum rubentemque erythinum, iulum, pietas mormyras aureique coloris chrysophryn, praeterea percam, tragum et placentem cauda melanurum, epodas
153 lati generis. praeter haec insignia piscium tradit: channen ex se ipsam concipere, glaucum aestate numquam apparere, pompilum, qui semper comitetur navium cursus, chromin,¹ qui nidificet in aquis. helopem dicit esse nostris incognitum undis, ex quo apparet falli eos, qui eundem acipenserem existimaverint. helopi palmam saporis inter pisces multi dedere.

154 Sunt praeterea a nullo auctore nominati. sudis Latine appellatur, Graece sphyraena, rostro similis

¹ *varia codd. Mayhoff sequimur.*

^a *Hal.* 94, 102, 104, 110–113, 126.

^b *Hal.* 96, 101, 108, 117, 121.

(this is the name given to an elongated pelamys-tunny which comes from the Ocean), mackerel, saupe, "sorus," two kinds of sculpin, two kinds of maigre, scolopendra-worm, "smyrus," cuttle-fish, spiral molluscs, razor-shells variously called "solen," "aulos", "donax," "onyx," and "dactylus"; thorny oysters, picarels, starfishes, sponges, "turdus"-wrasse, famous amongst rock-fish, tunny, "thranis," which others call sword-fish, "thrissa," electric ray, sea-squirt, "tritomum" ("thré-cut") belonging to a large kind of tunny, from each of which three "cybia" can be cut, "veneria," cuttle-egg (?), sword-fish. LIV. We will add to these some animals, mentioned by Ovid,^a which are found in no other writer, but which are perhaps native to the Black Sea, where he began that unfinished book in the last days of his life: horned ray, "cercyrus" which lives amongst rocks, "orphus," and red "erythinus," "iulus," tinted sea-breams and gilt-head of golden colour; and, besides these, perch, "tragus," "black-tail" with pretty tail, "epodes" of the flat kind. Besides these remarkable kinds of fishes he records: that the sea-perch conceives of herself, that the "glaucus" never appears in summer; and he mentions the pilot-fish as always accompanying ships on their course, and the "chromis" which makes its nest in the waves. He says that the "helops" is "unknown to our waters";^b from which it is clear that those who have believed that acipenser (*sturgeon*) is the same are in error. Many people have given the first prize for taste to the helops among all fish.

Moreover, there are some fish named by no author. There is one barracuda called "sudis" in Latin, "sphyraena" in Greek, in its muzzle resembling its

PLINY: NATURAL HISTORY

nomini, magnitudine inter amplissimos; rarus is et non degenerat. appellantur et pernae concharum generis, circa Pontias insulas frequentissimae. stant velut suillum crus e longo in harena defixae hiantesque, qua¹ latitudo est, pedali non minus spatio cibum venantur; dentes circuitu marginum habent pectinatim spissatos; intus spondyli grandis caro est. et hyaenam piscem vidi in Aenaria insula captum.— Exeunt praeter haec et purgamenta aliqua relatu indigna et algis potius adnumeranda quam animalibus.

quae coni. Warmington.

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ADDITIONAL NOTES

Additional Note A.

Mensa.

When used in reference to food *mensa* may have various meanings :—

- (1) Dining-table.
- (2) Small table, which when of many shelves was called *repositorium*. See Petronius *Satyr.* 34 : *suam cuique mensam assignari.*
- (3) Course.
- (4) Square slice of bread (*quadra*), used as a plate. See *Aeneid* VII 115 : *patulis nec parcere quadris;* “*Heus, etiam mensas consumimus,*” inquit Iulus.
- (5) A round plate, *lanx* or *discus*. See Pliny XXXIII § 140 : *iam vero et mensas repositoriis imponimus ad sustinenda opsonia.*

In Pliny XXVIII we have :

- § 24 *nam si mensa adsit.* Meaning (1).
§ 26 *aquis sub mensam profusis.* Meaning (1).
§ 26 *mensam vel repositorium tolli.* Either (2) or (5).
§ 26 *mensa relinquenda non sit, nondum enim plures quam convivae numerabantur.* The first seems to be (1) but *plures* to be (2). See, however, Wolters *ad loc.*
§ 27 *utique per mensas.* This is (2) on the usual interpretation, but (3) on that of Wolters.
§ 27 *in mensa utique id reponi.* This might be either (1) or (2).

Additional Note B.

The Hyaena.

The Romans were rather puzzled, and perhaps a little frightened, by the hyaena and its strange habits. Pliny has

ADDITIONAL NOTES

a short chapter (VIII §§ 105, 106) in which he refers to many popular beliefs about the animal: that it is bi-sexual, becoming male and female in alternate years; that it can imitate human speech, a belief arising perhaps from its laughing cry; that it imitates a person being sick, so as to attract dogs; that it digs up graves in search of corpses; and that it is an animal possessing magic powers.

Pliny seems to have obtained most if not all his information from books on magic, for perhaps none of the seventy-nine "remedies" in chapter XXVII of the twenty-eighth book can be considered rational. Neither Serenus nor Sextus Placitus mentions the animal, but Scribonius Largus makes use of hyaena's gall in an eye-salve (XXXVIII), and has much to say about a recipe for hydrophobia which he obtained *pro magno munere* from a *medicus* called Zopyrus (CLXXI and CLXXII). It turned out to be a piece of hyaena skin wrapped up in cloth. Scribonius took great pains to prepare the amulet and keep it ready, but confesses that he had not yet had a chance to put it to the test. Many of the hyaena remedies were probably fraudulent imitations, although hyaenas must have formed part of the wild-beast shows of which the Romans were so fond.

Additional Note C.

Sympathy and Antipathy.

"The Greeks have applied the terms 'sympathy' and 'antipathy' to the principle of Nature that water puts out fire . . . the magnetic stone draws iron to itself while another kind repels it . . . the diamond, unbreakable by any other force, is broken by goat's blood." So says Pliny (XX §§ 1, 2). At the beginning of Book XXIV he gives a longer list, from which examples are: oak and olive; oak and walnut; cabbage and vine; cabbage and cyclamen or marjoram; all being contraries. The affinities include: pitch and oil, both being fatty; gum and vinegar, which washes gum out; ink and water, which combine readily.

In the working out of this theory there must inevitably be, to modern minds, some inconsistency and much sheer fancy. The theory itself is fanciful, and more akin to the "Love and Hate" of Empedocles than to the *convenientia* of the Stoics,

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ADDITIONAL NOTES

Additional Note E.

P. Fournier, writing in the *Revue de Philologie* for 1952 and 1953, has a few *Notulae Pliniana*e which did not come to my attention in time to be mentioned in vol. VII. He thinks that *populus* should often be replaced by *opulus*, and *ornus* by *cornus*. For purely botanical reasons, he suggests the following emendations:

In XXV. § 125, *in ulvis* for *in silvis*.

In XXVI. § 56, *paleali* for *pallioli*.

In XXVI. § 95, *tensior* for *tenuior*.

In XXVII. § 104, *seridis* for *iridis*.

Additional Note F.

Pliny Book XXX.

In XXX. § 24, taking the best attested readings, we have: *s quoque vermiculus . . . mire prodest. nam urucæ brassicæ eius contactu cadunt et e malva cimices infunduntur auribus*. This gives: "The grub also . . . is wonderfully good (sc. for the teeth). For (or But) cabbage caterpillars fall at its touch, and bugs from the mallow are poured into ears." This is rather a *non sequitur*. Mayhoff emends: *urucæ e brassicæ foliis*. That is: "But at the touch of the caterpillar from the leaves of cabbages teeth fall out, and bugs, etc."

Professor Warmington would read: "*mire prodest, nam eius contactu cadunt; urucæ brassicæ et e malva cimices, etc.*"—a simple transposition: "is wonderfully good, for at its touch teeth fall out; cabbage caterpillars and bugs from mallow, etc."

Additional Note G.

Pliny Book XXX.

In XXX. 64 the best MSS. have: *in dolore si quis aquam per pedes fluentes (or fluentis) haurire sustineat*. Mayhoff has: *in dolore si quis aquam ter pedes eluens haurire sustineat*. The order of the words suggests that *ter* goes with *eluens*, but the sense that it goes with *haurire*.

Professor Warmington would keep *per* and change *fluentes* to *fluentem*. "If anyone when in pain can bring himself to swallow the water that swirls about his feet."

ADDITIONAL NOTES

Additional Note H.

Pliny Book XXXI, § 38.

The MSS. read: *certior subtilitas, inter pares meliorem esse quae calefiat refrigereturque celerius, quin et haustam vasis ne manus pendeant depositisque in humum tepescere adfirmant.*

The second sentence is very difficult, and one is reminded of Mayhoff's warning in the Appendix to Vol. IV. (p. 497): *verum in talibus rebus, quae omni ratione careant, rectius est desperare quam nullo testimoniorum adiumento e solis litterarum vestigiis inanem coniecturam facere.* Although it cannot be said that *omnis ratio* is wanting, yet the *ratio* is very obscure, and is perhaps irrecoverable.

The subject of the passage is the wholesomeness or "lightness" of water. It has just been said that the lightness cannot be determined by a pair of scales or steelyard. A more delicate test is the increase in heat when the water is placed in pots on the ground. The problem is: was Pliny's intention to say, "don't weigh" or "don't warm by touching"? Either alternative would require considerable emendation. Mayhoff adopts from a Dalechamp variant *manu* for *manus*, and adds *portatis* after *vasis* in order to balance *impositisque*, "in pots carried without weighing by hand and placed etc."; Detlefsen, aiming at much the same sense, reads *manus suspendant*, and leaves the *-que* difficult to explain. The other interpretation would require a radical change of *pendeant* to *tangant* or *tepeant*, and perhaps other changes as well. The difficulty of *que* might be overcome by reading *impositam*, and if the avoidance of warming by touch is the point of the *ne*-clause, *ansatis*, "with handles," a Plinian word, would be better than Mayhoff's *portatis*.

On the whole it is best to confess that the sentence is a puzzle hitherto unsolved, and that two meanings are possible, with a preference for the one that implies weighing.

Additional Note I.

Pliny XXXI. Ch. 46.

Nitrum, from the Arabic *natron*, was probably a mixture of sodium carbonate, calcium carbonate, and various chlorides. It was often obtained from pools N.W. of Cairo.

ADDITIONAL NOTES

From the account of Pliny we can conclude with certainty that *nitrum* was to a great extent soda, but not entirely so. We are told, for instance, that it could be used instead of salt in making bread, that it turned green vegetables greener, that with dill, cummin, or rue it relieved gripes, that it dissolved in the mouth, and that sometimes, but not always, it crackled in fire.

Soda scum (*spuma nitri*, *aphronitrum*) was said to ooze from the sides of certain caves in Asia and also to come from Egypt. It was probably carbonates and nitrates of soda and potash, coloured by copper and iron oxides. See the Loeb *Pliny*, vol. II, p. LII.

Additional Note J.

Pliny discusses sponges in IX. Ch. 69,
and XXXI. Ch. 47.

In the former he says that sponges have four or five *fistulae*, going all the way through, and that there are others, closed at the upper end. A modern article on sponges will probably refer to the various holes of a sponge as canals, apertures, pores, cavities, funnels, oscules, according to their shape or purpose. Pliny calls the holes by one name only, *fistulae*. Now Pliny knew, or took from his authorities, that sponges were animal, but it is sometimes impossible to make out whether he is speaking of the living sponge or of the domestic article. Most of XXXI. Ch. 47, deals with the latter, but the classification is apparently concerned with the former.

Pliny's second class, the female, is said to have *fistulae perpetuae*, but the third class to have *fistulae* that are very small and very numerous. The words of Pliny imply that his first and third classes have *fistulae* that are not *perpetuae*.

As a matter of fact, the oscules of all living sponges never close. Therefore, if *perpetuus* can mean "never-closing," and if Pliny has in mind sponges in their native state, he is attributing to a particular class a characteristic that really belongs to them all. The adjective *perpetuus*, however, is a strange one to use in this sense, as it means properly "long and unbroken."

It is probable that Pliny has written carelessly and vaguely, and in partial ignorance.

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POPULAR MEDICINE IN ANCIENT ITALY

discarded superstitious methods of healing. Two treatises^a in the Hippocratic *Corpus* declare that all diseases are due to natural causes, and can be cured only by natural means. But traces of superstition are to be seen in the works of Celsus and Galen, and in popular medicine it flourished. The truth is that, however much the best physicians despised them, superstitious methods had their uses. A patient who is cheerful, and buoyed up by strong, even if false hopes, is more likely to do well than is a patient worried and depressed. If a man has complete faith in the efficacy of a completely inert compound, his chances of recovery are improved merely by the psychological effect of his belief. Herein lies at least one reason for the long vogue of medicines that we now know are physiologically useless. Magical ritual and incantations were often amusing, and always gave the impression that something of great importance was about to happen. The power of suggestion and auto-suggestion had full scope to act, especially among people who were far more credulous and superstitious than the present age of positive science.

Roman medicine for many generations was entirely popular, for the Romans never developed a scientific medicine of their own. Until 219 B.C., when the Greek physician Archagathus migrated to Rome from the Peloponnesus, they doctored themselves.^b Cato's hatred of professional physicians, apparent in

^a *Airs, Waters, Places and Sacred Disease.*

^b Doctors from Magna Graecia certainly influenced, directly or indirectly, medical practice in the rest of Italy, but we know little about the details. At Croton was one of the first Greek medical schools.

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the letter to his son, may have been unusually strong, but Pliny's dislike was almost as great, and marked disapproval is shown by Pliny Junior, Serenus, and pseudo-Apuleius. There were many low-class physicians in the Gracco-Roman world, for no tests were required before beginning a practice. These deserved all the blame bestowed upon them by their disappointed dupes; Pliny, however, picks out for his most venomous attack Asclepiades, who was really a good physician and highly praised by Celsus.

During and after the Roman conquest of Greece, there came to Italy great numbers of these poorly qualified men, who, desirous of making a living, pandered to the tastes and fancies of the self-doctoring Romans, supplying them with remedies of different sorts, but most of them useless except as faith cures. In this way there came to be known to the Romans a vast number of foreign drugs, most of which were perhaps never tried in Italy at all, but many of them appear to have become popular. How these new remedies were put on the market or "advertised" (as we might say) can be seen by reading the *Compositiones* of Scribonius Largus, a lower-grade doctor of perhaps a better type than the majority. He confesses to buying quack remedies from an African *muliercula* and a Roman *honestamatrona*, and one for pleurisy from a man who, to keep his prescription a secret, pretended to include ingredients which actually he never used.^a He also bought from his friend Zopyrus of Gortyn *pro magno munere* an amulet to protect from hydrophobia—a piece of hyena skin wrapped in cloth.^b

^a See pp. 53, 10, 11, 41 of Helmreich's edition.

^b See p. 70 (Helmreich).

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But the man who introduced to the Romans most of the new or foreign remedies was Pliny himself, who in Books XX–XXXII gives perhaps several thousands. He did little, if any, independent research, but collected recipes, botanical and animal, from every available source, including some he professed to dislike. According to his own statement Pliny preferred herbal simples, but he prescribes without disapproval mixtures, animal remedies, remedies from professional doctors and even those of the Magi, whom he cordially hated. The grosser forms of superstition—draughts of blood and relics from the cross or gallows—aroused his scorn, but he places them on record, while amulets, ritual, and incantations, are described or mentioned, though often prefixed by “they say that,” or “it is thought that.” Pliny sometimes reports gossip, and forgets his professed aim to be utilitarian. In this jumble of so-called cures very little guidance is given to the harassed attendant in search of a remedy for a difficult case.

The *Natural History* is not a good practical textbook. So thought many who later wrote popular works on the same subject, several of which are extant. These picked out recipes that appealed to them from Pliny's book, adding some from other sources. By the time of Plinius Junior, who wrote what is probably the earliest of the extant epitomes, a great deal of the matter in the *Natural History* had become what may be called communal knowledge, so that direct borrowing from Pliny, although possible, should not necessarily be assumed. The “Pliny” just mentioned is the pen-name of one who wrote a *medicina Plinii* about A.D. 350. He was followed by Serenus

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POPULAR MEDICINE IN ANCIENT ITALY

paring the treatment of epilepsy or malaria in Celsus and Pliny we can throw some light on the question, especially if we remember that epilepsy frightened the ancients, and that malaria was obstinate or incurable. The professionals discarded all superstitious or magical remedies, and relied on regimen, rest, and warmth, using drugs (except purges and emetics) very sparingly. Popular medicine had recourse to any and every supposed remedy, however absurd and disgusting to our minds, and to amulets, incantations, and various other kinds of magic. What we call "shock" remedies were sometimes employed; one of the most striking, used in the treatment of another disease, was to duck the victims of hydrophobia unawares into cold water.

Some popular medicines used were really of therapeutic value, but most of them were chosen because of a fanciful resemblance or relationship to the disease, e.g. black hellebore for diseases caused by black bile. Very common were amulets, usually prophylactic, although curative became common in Italy in the first century A.D. A common type of amulet is to take the eye of a crab, the crab being allowed to go free, and to wear it as an amulet for diseases of the eye. The theory behind all this is that the crab's eye retains power to heal eyes so long as the crab lives; the eye amulet absorbs the eye trouble and transfers it to the mutilated animal, which usually dies, carrying with it the complaint.

Pliny did not like compound prescriptions, but Roman popular medicine had several, for in order to make sure of the proper ingredient a great number of them were often combined in a "blunderbuss," as in the famous antidote of Mithridates, which finally

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had over seventy components. Conversely, when a remedy was found suitable for one complaint it was often assumed by false analogy that it would be good for many others. The outstanding example is betony, used for forty-seven ailments.

The main conclusion to be drawn is that popular cures, except in a few obvious cases, were faith cures. Faith is a powerful healer today; in ancient times, owing to the greater credulity of the age, it was probably a far more effective healer.

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LIST OF DISEASES

More important for our appreciation of antiquity than the identification of specific diseases is to ascertain which, if any, modern diseases were unknown in the Hellenistic age. Here the evidence, especially that relating to infectious fevers, is most disappointing. These fevers are endemic in the modern world, and figure largely in treatises on pathology. But the old medical writers—"Hippocrates," Celsus, Galen and the many compilers who succeeded Galen—do not describe, or give treatment for, small-pox, chicken-pox, measles, scarlatina, typhoid or even influenza. The most that can be said is that in isolated clinical histories or in chance aphoristic remarks one or other of them may be referred to; the evidence is strongest for diphtheria. Moreover, in the pseudo-Aristotelian *Problems* (VII 8) it is said that consumption, ophthalmia and the itch are infectious, but that fevers are not. It is difficult to believe that a people who knew that consumption is infectious would have called scarlatina non-infectious if it had been endemic among them.

The Romans borrowed many names of diseases from the Greeks. Usually, of course, the Latin word refers to the same disease as does the Greek, especially in the works of medical writers. But care must be exercised; *λέπρα*, for instance, seems to be much narrower than *lepra*.

Celsus is by far the most trustworthy authority to follow in identifying the diseases mentioned by Pliny, for both were Romans, both (probably) laymen and nearly contemporaries.

Aegilops.—A lacrimal fistula at the angle near the nose.

Albugo.—An unknown kind of white ulcer on the eye. In XXVI § 160 used of a head ulcer. The word occurs only in the Vulgate Bible and in Pliny.

Alopecia.—A disease in which the hair fell out. Meaning literally "fox mange," it is translated "mange" in the text. It is perhaps unsafe to limit it to the modern alopecia. Celsus (VI 4) has a brief ac-

count of it, saying that it occurred in the hair and beard. He distinguishes it from *ὀφίασις*, probably ring-worm, for this had a winding shape, whereas *alopecia* "*sub qualibet figura dilatatur*."

Amphemerinos.—Quotidian malaria.

Angina.—An acute swelling in the neck, generally quinsy. A loose term like our "sore throat." Sometimes possibly diphtheria.

LIST OF DISEASES

Apostema.—Greek for abscess.

Argema.—A small white ulcer, partly on the cornea, partly on the sclerotic coat of the eye.

Articularius morbus.—This in XXII 34 is joined to *podagricus*, and so means probably not gout but arthritis.

Asthma.—Apparently only XXVI 34. See also XXV 82.

Atrophus.—"Wasting away," of all such conditions, of which phthisis is one.

Boa.—"A disease when the body is red with pimples," XXIV 53. See also XXVI 120. An exanthem not certainly identified. Shingles is localised. It cannot be, as Hardouin thought, measles, because that disease seems to have been first described by Rhazes.

Cachecta.—A patient who is in a very bad state of health; sometimes a "consumptive" patient is meant.

Cacoethes.—A Greek adjective applied to sores that are very difficult or impossible to cure; "malignant" is the nearest, but not quite exact, equivalent.

Calculus.—Stone or gravel in the bladder.

Caligo.—Dimness of the eyes, hard to distinguish from *nubecula* (film) and *caligatio* (mistiness).

Carbunculus.—In XXVI 5, 6 seems certainly to be anthrax, and Pliny's description resembles that of Celsus V 28, 1. The word was, however, used of minor affections; for example, *carbunculus oculi* is a stye, and it is often used of a bad abscess.

Carcinoma.—Superficial malignant disease, severe forms of which are called *cacoethe*. It seems impossible to distinguish, at least in Pliny, *carcinoma* from *ulcera cacoethe*, *phagedaena* and *gangraena*.

Cardiacus.—The adjective refers to either disease or patient. Sometimes a simple ailment, heartburn, is referred to, at other times a serious complaint, said by W. G. Spencer on Celsus III 19 to be a kind of syncope. In fact the reference may be to any ailment supposed to be connected with the heart.

Cephalaea.—Aretaeus (III 2) calls this a severe, chronic headache, and says that there are *ιδέαι μυρία*. Persistent neuralgia, except when it means malarial headache, must be the complaint referred to.

Cerium.—Described by W. G. Spencer on Celsus V 28, 13 as a follicular abscess among hair. Its appearance—*κηρίον* means "honeycomb"—enables us to distinguish it from *panus*; it was also often more severe.

Chiragra.—Gout or gouty pains in the hands. But see *podagra*.

Cholera.—Perhaps never Asiatic cholera, but *cholera nostras* and possibly certain types of dysentery and severe diarrhoea. The word is derived from *χολή*, "bile."

Clavus.—Wart, corn or callus.

Coeliacus morbus.—W. G. Spencer on Celsus IV 19, 1 (last note) says that the author appears to be de-

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- scribing pyloric spasm and intestinal atony. Cf. Aretaeus IV 7.
- Collectio*.—The most general term for a boil or abscess, a “gathering.”
- Colostratio*.—Disease of babies caused by the first milk.
- Colum*.—Colitis, or inflammation of the colon.
- Comitialis morbus*.—Epilepsy and sometimes other fits.
- Condyloma*.—A small tumour in the anus due to inflammation. See Celsus VI 18, 8.
- Convulsa*.—Sprains.
- Cotidiana*.—Quotidian ague, malaria with fever occurring every day.
- Destillatio*.—A “running” cold in the head. Sometimes internal catarrh.
- Duritia*.—An induration, from whatever cause, in any part of the body.
- Dysintertia*.—Usually dysentery, but probably also severe diarrhoea, however caused.
- Dyspnoea*.—Difficulty of breathing, however caused.
- Elephantiasis*.—The usual name of leprosy. See XXVI 7 and 8, where it is said to have quickly died out in Italy.
- Enterocoele*.—Hernia.
- Epinyctis*.—Either (1) a sore on the eye-lid or (2) an eruption caused by fleas or bugs.
- Epiphora*.—Running from the eyes as the result of some ailment.
- Eruptio*.—A bursting out of morbid matter, either through the skin or sometimes in other ways.
- Extuberatio*.—A fleshy excrescence, perhaps not morbid.
- The word apparently occurs only in XXXI 104.
- Febris*.—Feverishness, or else one of the recognised types of malaria.
- Fistula*.—Practically synonymous with the modern term.
- Flemina*.—A severe congestion of blood around the ankles. It is neuter plural.
- Fluctio* and *fluxus*.—There seems to be little if any difference in the meaning of these words—any flow, but usually a morbid one. Pliny prefers *fluctio*.
- Formicatio*.—An irritating wart. See Celsus V 28, 14.
- Furfur*.—Scurf (anywhere).
- Furunculus*.—A boil, said by Celsus (V 28, 8) not to be dangerous, whereas Pliny (XXVI 125) says that it is sometimes *mortiferum malum*.
- Gangraena*.—Gangrene, hard to distinguish from *phagedaena* and *ulcera serpentia*.
- Gemursa*.—A disease the seat of which was between the toes. It is said by Pliny (XXVI 8) to have died out quickly in Italy. See Littré’s note.
- Glaucoma*.—Opaqueness of the crystalline lens.
- Gravedo*.—The usual term for the common cold.
- Gremia*.—Rheum.
- Hepaticus*.—A sufferer from any liver complaint.
- Herpes*.—A spreading eruption on the skin.
- Hydrocelicus*.—A sufferer from hydrocele.
- Hydropisis*.—Dropsy.
- Hypochysis*.—Cataract.
- Ictericus*.—A sufferer from jaundice.
- Ignis sacer*.—Erysipelas. Per-

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Perfrictio.—Sometimes a severe chill.

Peripleumonius.—A sufferer from pneumonia.

Pernio.—Chilblain.

Pestilentia.—Plague; a term as vague as the English, but usually bubonic.

Phagedaena.—Gangrene, hard to distinguish from *gangraena*. In XXVI 100 an abnormal diseased appetite.

Phlegmon.—Inflammation beneath the skin.

Phreniticus.—Properly a sufferer from *phrenitis* or *phrenesis*, pernicious malaria accompanied by raving. It also refers to the symptom when not caused by malaria, for in post-Hippocratic medical works it often seems equivalent to "brain fever." Perhaps sometimes meningitis.

Phthiriasis.—Phthiriasis, skin disease caused by lice.

Phthisis.—Pulmonary consumption.

Pituita.—Excessive mucus, in any part of the body.

Pleuriticus.—A sufferer from pleurisy.

Plumbum in XXV 155, points to the leaden bluish colour of certain eye diseases. Serenus XIV 33: *si vero horrendum ducent glaucomata plumbum*.

Podagra.—Gout or gouty pains in the foot. Sometimes perhaps the result of lead poisoning. See Spencer's *Celsus* I 464. Pliny (XXVI 100) says that the disease was on the increase in his day. The word (often with *chiragra*) refers sometimes to pains caused by senile degeneration.

Porrigio.—Dandruff or scurf (on hairy parts).

Prurigo and *pruritus*.—Itch; the words can scarcely be discriminated, although perhaps *pruritus* tends to be used of the symptom, *prurigo* of the infection.

Psora.—Several skin diseases are included under this term among which are itch and perhaps leprosy.

Pterygium.—An inflammatory swelling at the inner angle of the lower eyelid; another name for it is *unguis*. It also means a whitlow.

Pusula.—Pustule or blister.

Quartana.—Quartan ague, or malaria occurring after intervals of two days. It was reckoned the mildest form of the disease.

Ramex.—Hernia.

Regius morbus.—Jaundice.

Rhagades.—Chaps.

Rheumatismus.—Catarrh, whether of the nose, throat or stomach.

Rosio.—Gnawing pain in the chest or bowels.

Rupta.—Torn muscles etc.

Scabies.—Not our scabies, which is caused by the itch mite, but described by Celsus (V 28, 16) as a hardening of the skin, which grows ruddy and bursts into pustules with itching ulceration. It includes many types of eczema. *Scabies* of the bladder, a disease of which the symptom was scaly concretions in the urine.

Scabritia.—Diseased roughness of fingers, nails, eyes, etc.

Scelotyrbe.—Lameness of the knee or ankle.

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Siriasis.—Probably some form of sunstroke.

Spasma.—Cramp.

Splenicus.—Suffering from enlarged or diseased spleen. Enlargement of the spleen is a common after-effect of repeated attacks of malaria.

Stegna.—See note on XXIII 120.

Stomacace.—Scurvy of the mouth.

Stomachicus.—It is doubtful whether this means "one with stomach trouble" or "one with disease of the oesophagus." It is a word not much used by medical writers, but Caelius Aurelianus has a section on disease of the oesophagus. Although the Romans distinguished (Celsus IV 1) stomach from oesophagus (*stomachus* can mean either), they appear to have described under the same name their morbid conditions. In English "stomach," at least in popular speech, is equally vague.

Stranguria.—Strangury.

Struma.—A scrofulous sore.

Suffusio.—Usually cataract.

Suspiriosus.—Asthmatic. Apparently a popular word, as it is rarely found in the medical writers.

Syntecticus.—One wasting away, from whatever cause.

Tertiana.—Tertian ague, malaria with an onset every other day.

Testa.—A brick-coloured spot on the face. See XXVI 163 and XXVIII 185.

Tetanus.—Tetanus. See Celsus IV 6, 1 with Spencer's notes on *opisthotonus* and *emprosthotonus*.

Tormina (neut. pl.).—A general word for colic. It also sometimes means strangury.

Tremulus.—One with morbid tremors, palsied. See XX 85 *paralyticis et tremulis*.

Tuber.—A hard tumour.

Tumor.—Any morbid swelling.

Tussis.—A cough—the complaint rather than the act.

Tympanicus.—One afflicted with tympanites, a kind of dropsy, which makes the belly swell.

Ulcus.—A favourite word with Pliny, usually used in the plural. *Ulceræ manantia* are "running" sores, and *ulceræ putrescentia (serpentia)* include gangrene and superficial malignant diseases.

Unguis.—Another name for *pterygium*, an inflammatory swelling at the inner angle of the lower eyelid.

Varix.—Varicose vein.

Varus.—A pimple on the face.

Verruca.—Wart, a less wide term than *clavus*.

Vertigo.—Vertigo, usually giddiness caused by illness.

Vitiligo.—This includes more than one kind of psoriasis. The Romans distinguished the dull white, the dark, and the bright white. Sometimes perhaps leprosy.

Vomica.—Abscess; any gathering of pus, but apparently larger than *furunculus*. It was sometimes internal, but *panus* was superficial.

Zoster.—This ("girdle disease") was herpes round the waist, possibly shingles. Pliny calls it a form of erysipelas (*ignis sacer*), XXVI 121.

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- jelly-fish or octopus, or even a mass of sea-weed.
- **Aries*, IX 10, 145; XXXII 144; perhaps a large Dolphin; or *Orcinus orca* = *Orca gladiator*, Grampus, Killer Whale. The "other arietes having the shape of fishes," which Pliny mentions in the same sentence of XXXII 144, are uncertain.
- Aselli*, IX 61; principally *Merluccius merluccius*, Common Hake, also *Phycis mediterraneus*, Mediterranean Hake, and *P. blennioides*, Fork-beard Hake.
- **Astacus*, IX 97; *Homarus gammarus*, Lobster.
- Attilus*, IX 44; a large sturgeon, such as *Huso huso*, Giant Sturgeon.
- **Aulos*, XXXII 151 = *Solen*.
- Aurata*, see *Chrysophrys*.

B

- [*Babylon*, fish at IX 175; probably species of *Periophthalmus*, Mud skipper, Jumping fish].
- Bacchus*, IX 61, one of the *aselli* q.v.; in XXXII 77, 102, 145, a species of Grey Mullet, perhaps *Mugil labrosus*.
- **Balaenae*, IX 4 ff., 12-21, 41, 186; X 210; XI 235; XXXII 116, 144; Whales, especially *Eubalena glacialis*, Black Right Whale; *Megaptera novaeangliae*, Humpback Whale; *Balaenoptera musculus*, Common Rorqual or Blue Whale; *B. borealis*, Rudolph's Rorqual; *B. Sibbaldi* var. *Indica*, a var. of Sibbald's Rorqual (Pliny's

- huge whales in Indian waters would probably be the latter); and *Physeter catodon* = *macrocephalus*, Sperm Whale.
- **Balanus*, XXIII 145; sea-acorn, chiefly *Balanus cylindricus* and *B. tintinnabulum*.
- Batia*, XXXII 77, 145; *Raja punctata* or some other Skate.
- Batrachus*, XXXII 145; *Lophius piscatorius*, Angler-fish.
- Belone* = *Acus*, q.v.; in XXXII 145 perhaps *Belone belone*, Garfish.
- Blendeca*, *Blendius*, XXXII 102; probably *Blennius gattorugine*, Blenny.
- Boca*, XXXII 145; *Bōx vulgaris* (*Bōx boōps*), Bogue.
- Bos*, IX 78; XXXIII 52; *Mobula giorna*, Horned Ray, or perhaps the Grey Shark, *Notidanus griseus*.
- **Bucinum*, IX 130, 134, 138, *Ranella gigantea* or *Charonia lampas*, Trumpet-shell. In IX 130, 134, and 138 the name includes also a Purple-Shell, *Purpura haemastoma* and *Murex brandaris*. Not Whelk.

C

- Callarias*, = *Collyrus*, IX 61; XXXII 146; one of the *aselli*, q.v.
- Callionymus*, XXXII 69, 77, 146; probably *Uranoscopus scaber*, Stargazer, rather than *Lophius piscatorius*, Angler-fish.
- **Cammarus*, XXXI 96; XXXII 148; one or more kinds of shrimp and prawn.
- **Cancer*, sea-, VIII 79; 62, 95-99, 158; X 199; XI IX

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- 129, 152, 258; XVIII 293; XIX 180; XX 120, 180; XXIX 101; XXXI 35, 53, 54, 55, 71, 82, 87, 105, 110, 111, 116, 119, 126, 129, 131, 132, 134, 135, 147; *Cancer pagurus*, the Edible Crab and others; IX 98, 142 Hermit Crabs and Pinna-Guard Crabs; see *Pinoteres*; river-, XXXII 53, 54, 56, 78, 88, 90, 100, 103, 107, 114, 117, 118, 125, 130, 137 *Astacus fluviatilis* it seems mostly, Freshwater Crayfish; but also *Potamon fluviatile*, Freshwater Crab; sea- or river-, XXXI 82, 87, 105, 111, 119, 126, 129.
- Canes marini*, IX 40, 110; small Dogfish or small Sharks, especially *Galeorhinus galeus*, Tope, and *Scyliorhinus caniculus*, Dogfish.
- Caniculae*, IX 52; Sharks; cf. *Canes*.
- Cantharus*, XXXII 146; *Spondyllosoma cantharus*, Black Bream.
- Caper*, see *Aper*.
- **Carabus*, IX 97; *Palinurus elephas*, Crawfish, see *Locusta*.
- Cercyrus*, XXXII 152; perhaps *Cepola taenia*, Red band-fish.
- Cetos*, IX 78, 157; XXXII 10, 82; *a whale or dolphin, or a very large fish especially a tunny.
- Chalcis*, IX 154, 162; XXXII 30, 146; probably *Clupea sardina*, pilchard.
- Channe*, IX 56, 166; XXXII 153; *Paracentropristis cabrilla* and *P. scribea*, Sea Perch.
- **Chema*, XXXIII 147; a term mostly for various members of the genera *Chama*, *Venus*, *Cardium*, and similar types.
- Chromis*, IX 57; X 193; XXXII 153, *Sciaena aquila*, Maigre, or *Corvina nigra*, Black Umber.
- Chrysophrys* = *Aurata*, XXXII 43, 145, 152; *Sparus aurata*, Gilthead.
- Cinaedus*, XXXII 146, 153; a species of Wrasse, perhaps *Crenilabrus melops*, Goldsinny.
- Citharus*, XXXII 146; perhaps *Arnoglossus laterna*, Lantern-flounder.
- Clupea*, IX 44; possibly **Lampetra planeri* = *Petromyzon branchialis* or *marinus*, a small Lamprey. Elsewhere, usually the shad.
- **Cnide* = *Urtica*, XXXII 146; a Sea-anemone.
- Cobio*, XXXII 146; see *Gobio*.
- Colias*, XXXII 146; *Pneumatophorus colias*, Spanish Mackerel.
- Collyrus* (*Callarias*), IX 61; XXXII 146; one of the *aselli*, q.v.
- Coluthia*, see *Coryphia*.
- **Concha*, shell of any mollusc, bivalve or gastropod; in XXXII 93, *concha* is a special name for a mussel.
- **Conchylia*, IX 128; collective term for snails and mussels.
- Conger*, IX 57, 72, 87, 185; XXXII 148; *Conger conger*, Conger Eel.
- Coracinus*, V 51; IX 68; XXXII 56; *Tilapia nilotica*, Bolti; IX 57; XXXII 70, 106, 127, 145; *Corvina nigra* or *Umbrina cirrhosa* and *Chromis castanea*.
- Cordyla*, IX 47; XXXII 146; very young Tunny-fishes.
- Cornuta*, I 9, 43; IX 82; XXXII

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145; unknown, but perhaps *Mobula giorna*, Horned Ray, or the Grey shark, *Notidanus griseus*, or the Piper, *Trigla lyra*.

Corvus, XXXII 146; *Umbrina cirrhosa* or *Corvina nigra*.

**Coryphia* (*Coluthia*), XXXII 147; small molluscs, such as Winkles and Top-shells.

**Cucumis*, IX 3; one of the Echinoderma; a Sea-cucumber, Sea-gherkin, cf. XXXII 147.

**Curalium*, XXXII 21-24; XXVIII 164; cf. XIII 135, 140; *Corallium rubrum*, Red Coral.

Cybion, XXXII 146; a Tunny of a certain age, or a cut or preparation from a Tunny.

Cynops, XXXII 147; unknown.

**Cynosdemia*, XXXII 148; an Octopus.

Cyprinus, IX 58, unknown, unless *in mari* in 58 is an error; 162, *Cyprinus carpio*, Carp.

D

**Dactylus*, IX 184, bivalve molluscs such as *Lithodomus lithophagus*, Date Shell, and *Pholas dactylus*, Piddock; and Tellen or Sunset-shells; XXXII 151 = *Solen*.

**Delphinus*, VIII 91; IX 19 ff., 50, 57; X 210, 235, 263; XVIII 361; *Delphinus delphis*, and other species of Dolphins, which are not fish. In VIII 91 the "dolphins" which tear open crocodiles are probably two species of fish of the Nile — *Synodontis schall*, Shall and *Schilbe mystus*, Shilbe.

**Donax*, XXXII 103 = *Solen*.

Draco, IX 82; XXIV 180; XXVI 31; XXVII 50; XXXI 96; XXXII 44, 45, 47, 79, 148; *Trachinus draco*, Weever and allied species.

Drino, XXXII 145; unknown.

E

Echeneis, *Echenais*, IX 79; XXXII 2-6, 139, 148; *Echeneis remora*, and *E. naucrates*, Sucking Fish; in IX 79 it is a goby or blenny.

**Echinometra*, IX 100; *Echinus acutus*, *E. melo*, and *Cidaris cidaris*, Sea-urchins.

**Echinus*, IX 40, 99, 147, 164; XI 165; XVIII 361; XXVIII 67; XXXI 95; XXXII 58, 67, 72, 88, 96, 103, 106, 127, 130, 148; various Sea-urchins, esp. *Echinus esculentus* and *Strongylocentrotus lividus*.

*?*Elephantus*, IX 10, unknown; —hardly Walrus of the far North?; *XXXII 148, *Homarus gammarus*, Lobster, dark coloured.

Elops = *Acipenser*, IX 60, 169; XXXII 46; *Acipenser sturio*, Sturgeon.

Enhydris, any kind of eel; cf. *Ophidion*.

Epodes, XXXII 152; flatfish of uncertain identity.

Erythinus, IX 56, 166; XXXII 101, 139, 148, 152; certainly one of the perches, perhaps *Anthias anthias*.

Exocoetus, IX 70; *Blennius Montagui*, a type of Blenny.

F

Faber, see *Zaeus*.

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L

- Lacertus marinus*, XXXII 146, 149; *Pneumatophorus colias*, Spanish Mackerel, and *Trachurus trachurus*, Horse Mackerel = Scad.
- Lamia*, IX 78; a large Shark, such as *Carcharias carcharodon*, Great White Shark.
- Lamirus*, XXXII 149; perhaps *Pagellus erythrinus*, Becker.
- [*Larius* and *Verbannus* (Lakes), fish in, IX 69; probably species of the Carp family, *Rutilus rutilus*, Roach; *Idus idus*, Ide; *Abramis brama*, Bream.]
- Laser*, XXXI 25, 44; unknown.
- Lelepris*, XXXII 149; some kind of Wrasse.
- **Leo*, XXXII 149; cf. IX 97; - *Nephrops norvegicus*, Lion-crab.
- **Lepas*, XXXII 149; a Mediterranean Limpet, especially *Patella Lamarckii* or the like.
- **Lepus marinus*, IX 155; XX 223; XXIII 108; XXIV 18, 20; XXV 125; XXVIII 74, 129, 158, 159; XXIX 104; XXXII 8, 9, 48, 54, 58, 59, 68, 70, 88, 104, 110, 135, 149; *Aplysia depilans*, Sea Hare (a "Sea Slug"). In IX 195 one of the spiny Porcupine-fish of the Indian Ocean is also referred to.
- **Limax*, IX 162; XXX 56, 79, 101, 139; generic term for slugs.
- **Locusta*, IX 95-6, 158, 164, 185; XI 152; XXXVI 89; *Palinurus elephas*, Crawfish.
- **Loligo*, IX 83, 93, 158, 164; XI 215, 258; XVIII 361; XXXII 15, 149; *Loligo*

vulgaris and other Squids, especially *Ommatostrephes sagittatus*, a large kind.

- Lucerna*, IX 82; = *Uranoscopus*.
- Lupus*, IX 57, 61, 169; X 193; XXXI 15; *Morone labrax*, Sea Basse; XXXI 95, *Engraulis encrasicolus*, Anchovy.

M

- Maena*, IX 81; XXVI 23, cf. 127; XXXI 83; XXXII 83, 88, 90, 100, 105, 107, 126, 128, 149; cf. 152; Mendole, *Maena maena*, *M. osbeckii*, and *M. jusculum*.
- Maeotes*, XXXII 149; cf. 146; in Pliny, apparently small horse-mackerel and young tunny or pelamid.
- **Maia*, IX 97; a large Crab, probably *Maia squinado* or else *Homola barbata*; possibly also *Lithodes Maia*.
- [**Margarita*, pearl, got from *Margaritifera margaritifera* = *Mytilus margaritiferus*, Pearl Oyster, IX 106 ff. Inferior pearls came from Mussels, Oysters, Pinnas and Fresh-water Mussels.]
- Marris* (better *mario?*), IX 75; perhaps a type of sturgeon.
- [*Melandrya*, IX 48; cuts or cutlets of *μελάδρυς*, a kind of large Tunny.]
- Melanurus*, XXXII 17, 149, 152; Oblade, *Oblata melanura*.
- Mena*, see *Maena*.
- Merula*, XXXII 149; a species of Wrasse, perhaps *Coricus rostratus*.
- Milvus* = *Ictinus*, IX 82.
- **Mitulus*, *Mytilus*, IX 160; XXXII 95, 111, 149; *Mytilus edulis*, Mussel.

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Mormyra, XXXII 152; *Pagellus mormyrus*, a Sea-Bream.
Mugil, IX 54, 59, 144; X 193; XI 185; XXXII 104; several forms of Grey Mullet, especially *Mugil capito* and *M. cephalus*.
Mullus, IX 64, 66, 67; XXXII 8, 25, 44, 70, 91, 104, 120, 127, 138; Red Mullet (Surmullet), *Mullus barbatus* and the larger *M. surmuletus*.
 **Murena*, *Muraena*, IX 73, *Petromyzon marinus*, Sea Lamprey; IX 76, 77; mostly *Lampetra planeri*, River Lamprey. In all other passages *Muraena helena*, the fish Murry, Moray is meant: IX 71 (76), 89, 169; XXVIII 14; XXXII 12, 13, 14, 57.
 **Murex*, V 12; VI 201; IX 80, 102, 125, 130 ff., 160, 164; XXII 3; XXIII 83; XXXII 68, 78, 82, 98, 106, 108, 127, 129, 149; Purple-Shell-fish, especially *Murex brandaris*, *M. trunculus*, and *Purpura haemastoma*. In XXXII 84 probably *Turritella communis* is meant. In IX 80 it appears that a Cowrie (probably *Trivia monacha* or *Cypraea lurida*) is described.
Musculus, IX 186; cf. XI 165; *Naucrates ductor*, Pilot-fish; see also next item.
Musculus marinus, XI 165; XXXII 144; here Pliny confuses the little Pilot-fish, *Naucrates ductor*, with *Whalebone Whales; these would be *Eubalena glacialis*, Black Right Whale; *Megaptera nodosa*, Hump-backed Whale; and species of *Balaenoptera*, Rorqual.

Mus marinus, IX 71; *Balistes capriscus*, File-fish, or *Tetrodon lineatus*. In IX 166, probably by error for *emys*. The mistake perhaps arose in Greek from mis-reading or mis-hearing ἡ δ' ἐμύς or ὁ δ' ἐμύς as if it were ἡ δὲ μύς or ὁ δὲ μύς.
Mustela, IX 63, principally the Hake and Rockling, *Phycis* sp. and *Motella* sp.; as a fresh-water fish, chiefly *Lota lota*, Burbot, but sometimes **Lampetra fluviatilis*, Lamper-eel.
 **Mya*, IX 115; species of *Unio*, Freshwater Mussel.
 **Myax*, XXXII 95-98; perhaps *Mytilus edulis*, Mussel.
 **Myiscus*, XXXII 98, 149; probably *Modiolus barbatus*, Bearded Mussel.
Myrus = *Zmyrus*.
 **Mys*, XXXII 149 = *Mitulus*.
 **Mytilus*, see *Mitulus*.
Myxon?, see *Bacchus*.

N

**Nauplius*, IX 94 = *Nautilus*.
 **Nautilus*, IX 88, 94 (*Nauplius*), 103; (*Veneria*) *Argonauta Argo*, Argonaut = Paper Nautilus.
Novacula, XXXII 14; perhaps *Xyrichthys novacula*, a species of wrasse.

O

Oculata, XXXII 149; probably *Oblata melanura*, Oblade.
Odinolytes, XXXII 6 = *Echeneis*.
 **Onyx*, XXXII 103, 134; species of Razor-shell, *Solen*; and of

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- Piddock, *Pholas* or *Lithodomus*.
- Ophidion*, XXXII 109, 149; an Eel or a related fish; includes perhaps *Oxystomus serpens*.
- Orbis*, XXXII 14, 149, 150; probably a species of Globe-fish.
- **Orca*, IX 12-14; XXXII 144; probably *Orcinus orca*, Grampus, Killer Whale.
- Orcynus*, XXXII 149; a large specimen of a Tunny.
- Orphus*, IX 57; XXXII 152; either *Serranus gigas*, a Sea Perch or *Polyprion americanus*, Jew-fish.
- Orthogoriscus*, see *Porcus*.
- **Ostrea* or *Ostreae*, II 109; V 180; IX 40, 52, 154, 160, 161, 168; X 129, 189, 192, 195; XI 129, 139, 226; XXVIII 66; XXXI 96; XXXII 59, 60, 64, 93, 149; a general term for bivalve molluscs, but properly *Ostrea edulis*, Oyster. See especially II 109; IX 154, 168; X 129, 189, 192, 195; XI 139; XXVIII 66; XXXI 96; XXXII 59-65.
- **Otia*, XXXII 149; *Haliotis tuberculata*, Sea-Ear or Ormer.
- **Ozaena*, IX 89; an ill-smelling species of Octopus, probably *Eledone moschata* and possibly also *E. Aldrovandi*.
- P
- **Pagurus*, IX 97; *Pagurus bernhardus*, and other Hermit Crabs.
- [*Paphlagonia*, some fishes in, IX 178; probably *Cobitis fossilis*, a kind of Loach.]
- [**Parasites* on fish, and other "Sea Fleas," and "Sea-lice," all Crustaceans, IX 154. See also *Scorpion-like parasites; Pediculi; Phthir.*]
- Parus*, XXXII 152; unknown.
- Passer*, IX 72; *Pleuronectes platessa*, Plaice, or else *Platichthys flesus*, Flounder.
- Pastinaca*, IX 155; XXII 146; XXVIII 162; XXXI 25, 44; XXXII 57, 79, 83, 133; *Trygon pastinaca*, Sting Ray.
- **Pecten*, IX 101, 103, 147, 160, 162; XI 139, 267; XXXII 103, 150; species of Scallop, especially *Chlamys* = *Pecten varius* and *C. Jacobaeus*.
- **Pectunculus*, IX 84; XXXII 70, 150; a small or young Scallop.
- **Pediculi marini*, XXXII 77, 89; apparently Sea-lice, small crustaceans.
- Pelamys*, IX 47; a year-old tunny; XXXII 105, 107, 146, 149, 150, 151; a species of Tunny, *Sarda sarda*, Pelamid; sometimes smaller species or very young Tunny.
- **Peloris*, XXXII 99, 147; probably *Psammobia vespertina*, Sunset-shell.
- ?**Pentadactyli*, XXXII 147; unknown.
- Perca*, XXXII 145; *Perca fluviatilis*, Perch, and *Paracentropristis scribea* and related species, Sea Perch; IX 57; XXXII 107, 116, 126, 130, *Paracentropristis scribea*.
- **Percis? Pegris?*, XXXII 150; unknown mollusc.
- **Perna*, *Pin(n)a*, IX 115, 142; XXXII 150, 154; a bivalve mollusc, *Pinna nobilis* or else *P. fragilis*, Pinna-shell.
- Phagrus, phager*, IX 57; XXXII 150, a species of Sea Bream,

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- Salpa*, IX 68, 162; XXXII 151;
Sarpa salpa, Saupé.
Sarda, XXXII 46, *Sardina pilchardus*, Sardine or Pilchard; XXXII 151, a large *pelamys*, q.v.
Sargus, IX 65, 162, 182; XXXII 151; *Diplodus sargus*, Sargue, Sargo; and *D. vulgaris*.
Saurus, XXXII 89; *Trachurus trachurus*, Horse Mackerel.
Scarus, IX 62; XI 162; XXXII 11, 151; XXXVII 187; *Sparisoma cretense*, Parrot-Wrasse.
Sciadeus, XXXII 151; *Sciaena aquila*, Maigre and related species.
Sciaena, IX 57; XXXII 106, 151 = *Sciadeus*.
Scias, XXXII 151 = *Sciadeus*.
 **Scilla* = *Squilla*.
 **Scolopendra*, IX 145; XXXII 151; species of Nereid worm.
Scomber, IX 49; XXXII 151; *Scomber scombrus*, Mackerel.
Scorpaena = *Scorpio*.
Scorpio, XX 150; XXXII 44, 67, 70, 102, 127-128; *Scorpaena scrofa* and *S. porcus*, Sculpin.
 *[Scorpion-like parasites on Tunny, *Brachiella thynni*; on Sword-fish, *Pennella filosa*, IX 54].
 **Sepia*, IX 83, 84, 93 (its eggs perhaps IX 3, uva); *Sepia officinalis* and other Cuttlefish.
Serra, IX 3; XXXII 145; *Pristis antiquorum*, Sawfish.
Silurus, V 51, *Lates niloticus*, Nile Perch; VI 205, unknown; IX 44, *Lates niloticus*; IX 45, *Silurus glanis*, Sheatfish; IX 58, 165, *Parasilurus aristotelis*; XVIII 293, unknown; XXXII 90, 93; 94, 104, 111, 119, 125, 126, 131, probably all *Lates niloticus*; XXXII 145, unknown.
 **Simones* = *Delphini*.
Smaris (*Zmaris*), XXXII 108, 128; *Smaris smarís*, Picarel; and related species.
Smyrus, XXXII 151, see *Zmyrus*.
Solea, IX 52, 57, 72; XXXII 102, 151; *Pleuronectes solea*, Sole, and allied species.
 **Solen*, X 192; XI 139; XXXII 151; species of the bivalve mollusc Razor Shell, especially *Solen coarctatus*.
Sorus, XXXII 151; *Scombrox rondeletii*, Skipjack, Skipper.
Sphyraena, XXXII 154; *Sphyraena sphyraena*, Barracuda.
 **Spondylus*, XXXII 154; *Spondylus gaedaropus*, Thorny "Oyster."
 **Spongea*, IX 146, 150; XXXI 123-131; species of Sponge, especially *Spongia officinalis* and its variety *mollissima*.
Squalus, IX 78; smaller Dogfish and Sharks.
Squatina, IX 40, 78, 144, 161, 162; *Squatina squatina*, Angel-fish.
Squatus, XXXII 150; = *Squatina*.
 **Squilla*, *Scilla*, IX 158; XI 152; XXXII 151, species of *Palae-mon*, Prawn, and Crangon, Shrimp; IX 142, probably *Pontonia pinnophylax* = *tyrrhena*.
 **Stellae marinae*, IX 154, 183; XXXII 44, 151; various Starfish.
 **Strombus*, XXXII 117, 129, 151; some species of spiral-shelled mollusc.

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Sudis = *Sphyraena*.
Synodus, XXXVII 182; *Dentex dentex*, a Sea-Bream.

T

**Teredo*, XVI 220; *Teredo navalis*, Ship-worm.

**Tethea*, XXXII 13, 93, 99, 151; species of Sea-squirt, especially *Phallusia mammilata*.

Thranis, XXXII 151; *Xiphias gladius*, Sword-fish.

Thrissa, *Thassa*, *Thessa*, XXXII 151; probably *Alosa vulgaris*, Shad.

**Thursiones*, IX 34; species of Dolphin, perhaps *Tursiops truncatus*; or a porpoise.

Thynnus = *Thynnus*.

Thynnus (*pelamys*), IX 47 ff.; X 210; XXXII 76, 87, 95, 135, 145; *Thynnus thynnus*, *Sarda sarda*, and other kinds of Tunny; on the coasts of Spain and France chiefly *Germo alalunga*, Germon = Albacore.

Torpedo, IX 57, 78, 143, 162, 165; XXXII 7, 94, 102, 105, 133, 135, 139, 151; *Torpedo marmorata*, Electric Ray; the references in XXXII may apply in part to *Melapterurus electricus*, Electric Catfish.

Tragus, XXXII 152, a male *Maena*, q.v.

Trichias, IX 52, 162; a Sardine or a Sprat such as *Sprattus pontica* or *S. sprattus*; or *Sardina pilchardus*, Pilchard.

**Tridacnum*, XXXII 63; a great mollusc, *Tridacna squamosa*.

Triglis, XXVIII 82; = *Mullus*.
Tritomus or *Tritomum*, XXXII 149, 150, 151; as a fish-name, usually = *pelamys*.

Trochus, IX 166; = *Rota*.

Trygon, = *Pastinaca*.

Turdus, IX 52; XXXII 151; a species of Wrasse, perhaps *Crenilabrus pavo*.

U

**Unguis*, IX 101 = *Dactylus*.

Uranoscopus, XXXII 69, 146; *Uranoscopus scaber*, Stargazer.

**Urtica*, IX 68; XXVI 51, 88; XXXII 135, 146; cf. XXXI 95 (i) Sea Anemone, especially *Tealia felina* = *Actinia crassicornis*, *A. equina*, and *A. cari*; (ii) IX 146, probably the sea-nettle, *Actinia* sp.

**Uva*, IX 3; XXXII 138, 151; probably egg of Cuttle-fish.

V

**Veneria*, IX 103; XXXII 151; *Argonauta Argo*, Argonaut = Paper Nautilus; but it is likely that the name was given also to *Cypraea tigris*, *C. pantherina* and other large Cowries; cf. IX 80.

**Vermes*, IX 146; huge Worms in Ganges, perhaps an exaggerated report of Conger Eels or even Leeches.

**Vitulus marinus*, II 146; VIII 111; IX 19, 41, 50; X 128; XI 137, 151, 171, 206, 215, 235; XXVI 23, 113, 114; XXVIII 96; XXXII 57, 83, 110, 112, 116, 120, 130, 144; usually *Monachus monachus*, Monk Seal, also *Phoca vitulina*, Common Seal.

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Vulpes marina, IX 145; *Alopias vulpes*, Thresher Shark.

X

Xiphias, XXXII 15, 151; *Xiphias gladius*, Sword-fish.

Z

Zaeus, IX 68, XXXII 148;

Zeus faber, John Dory.

Zmaris = *Smaris*.

Zmyrus, IX 76 (XXXII 151, *smyrus*): *Lycodontis unicolor*.

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