AVOC = American Veterinary Dentell College

the AVOC considers it appropriate for the Veterinarian to delegate certian dental tests to Vet Techs.

> tasks include professional cleanings and certian procedures that do not alter the shape, structure, or positional location of teeth in the dental arch.

~ Classifications of Teeth~



· limited enuption & developement time · found in humans, Carnivores & pigs. " Stops Growing"

Brachyodont

· Diphyodent·

> mostly seen in mammals > means animal has two sets of teeth

> - Deciduous = primary or balay teeth.

- Permanent = secondary adult teeth.



- Incisors
 - Rostral
 - For gnawing and grooming
- - For prehending and holding
- Premolars and molars
 - Cheek teeth
 - · For shearing and grinding

dvm Table 1



Rostral: towards the nose

Coudal: towards the back of the head.

Vestibular tooth surface facing the lips Calso called buccal & labial)

Facial vestibular surface of teeth visible from the front. (Incisors)

Lingual: the surface of the mandibular teeth adjacent to the tengue.

Palatal: the surface of the maxillary teeth adjacent to the palate.



Itypsoclont

· Continual growth & emption over lifetime.

· found in Horses, Rodunts, and lagomorphs " Keeps Graving"

5 Subcategories

· Radicular - Eventually stops growing.

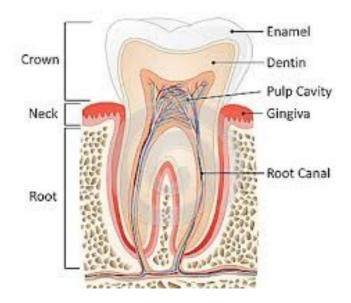
Hradicular

-found in rodents and voldoits

- Lack a true root structure

- life long tooth growth.

- Mesial: the portion of the tooth in line with the dental areade that is closest to the most rostral portion of the midline of the dental arch.
- Distal: the portion of the tooth that is closest to the most caudal portion of the dental each.
- Apical: a portion of the tooth that is closer to the apex (tip of the voot)
- Coronal: refers to a structure with a location that is closer to the crown of the tooth.



Canine Dental Formula:

2 x (13/3, C1/1, P4/4, M2/3)

= 42 Teeth



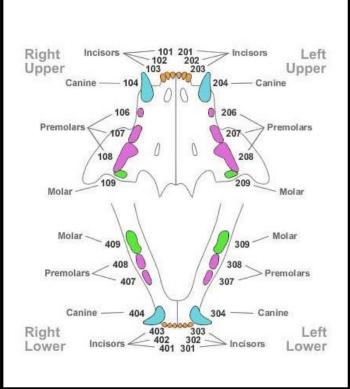
Feline Dental Formula:

2 x (13/3, C1/1, P3/2, M1/1)

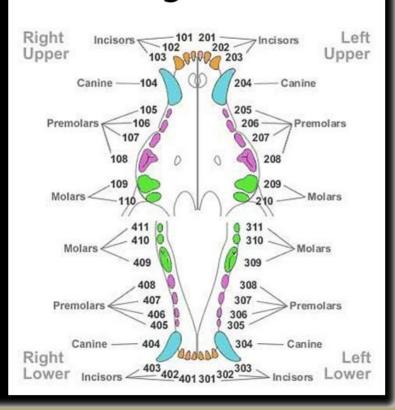
= 30 Teeth



Cat Teeth



Dog Teeth



Malocclusion: Teeth or Jaws are incorrectly aligned.

Sissors Bite teeth and Jaws are correctly aligned.

X Abnormal



VS



Normal

Carnassial = tearing of flesh

Anisognathism = the upper jaw is wider than the lower jaw.

Molars = have occlused surfaces for crushing food.

Susceptible to cavities (caries)

Cats have very few occlused surfaces

* A True Carnivore Is A Cat! *

Carnassial=tearing of flesh

-Oval Examination & History-

- osk about these clinical symptoms

· Pawing at the mouth

Dropping or walking away from food after 1st bite. Rubbing face on familiare. Showing agression when face is touched.

- closs the client perform out-home dental care?

- ask about diet, treats, and toys.

Extraoral Examination-

4 Includes head, face, eyes, ears, and nech

> Symmetrical comparison, atrophy, enlargement, pain swelling

> Discharge, odor or pain from ears and eyes

> Salivary glands end lyph nodes

> Occlusion, persistent diciduous teeth.

-Intraoral Examination-

4 soft tissues of oral cavity, duntal structures, periodontium.

Chronic Ulcerative Paraclental Stomatitis. "CUPS" "Contact Stomatitis"

Cause = Bacteria in the plaque

Mucosal ulcerations Site: Areas of mucosa adjacent to diseased



Chewing Lesions



Caudal Stomatitis - in the over lateral to the palatoglessal folds in a cont.

·Dental Explorer. -explores the topography of the

- Detects = · surface irregularities

- Uses teachile vibrations

*Scalers are clasigned to be used on the tooth crown, & - Dental Tools ~ cure Hes are designed to be used subgingivary.



Peridontal Probes are used

- · for accessing mobility
- Accessing Gingival bleeding Measuring = using Williams morkings "Black Lines"



ODU 11/12

tooth suxface.



· Completeness of descricement · Smooth transitions

> Tufts 17



h. Modified Pen Grosp

· Proper way to hold instruments. ·Provides tactile sensitivity and precise control



2A Pigtail



Sheperd's HOOK 23

~Assessing Tooth Circumference ~

· Insert into sulcus Chiw gingina & tooth)

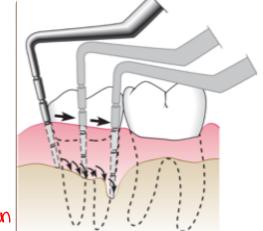
· trep probe as parallel as possible to the lang axis of the tooth

· Probe tip in contact with tooth

· Plsistonice Mark prohe level adjacent to gingival MONOTH

"Walk" probe would took to assess circumference

* Normal Sulcus depth is 0 to 3mm. in dogs & Oto Imm in Cats.



·Pecord Initial findings with tissue variction and the evaluation of the teeth and Supporting Structures

Dental Radiograph

· Intraoral radiographs show pathologic conditions not visible in the mouth Such as: Root Pesorption · Unerupted teeth

· Caries

· Periapical radio lucency

· Periodontal bone loss

· Peticined Root Tips

· Disease of the Temporomandibular joint "TMJ"

· Unerupted teeth Ostrovnyclitis · Neoplasta · Tooth Jaw fractures

Foreign bodies

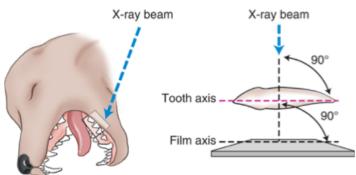
"CDR" = Computed Digital Radiography

- Techniques-

· Paralleling technique = parallel to the long axis of tooth

· Bisecting angle technique : Thinimizes distortion

Occlused technique larger areas on one film



"Paralleling Technique"

- Radiologic Interpretation-

· Radiopaque = · Block or absorb radiation · Appears white · Ex: Cementum, dentin, bone

· Radio lucent : X-Rays pass through . Appears black

· Soft tissue

· Ex: Periodontal ligament space.

The Enamel is

the strongest

part of any

animal"

~Periodontal Disease

* An image that appears too dark

Periodontium

· Structures

· Periodontal ligament

· Gingival connective tissue

· Alucator bone forming tooth socket

· Cementum

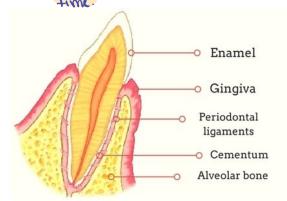


Periodontitis: occumulation of shaquel calculus



Gingivitis: Inflammation of the aimaida

is often a result of too much exposure time.



Plaque begins to mineralize as early as 24 hours after it adheres to the tooths surface

Periodontal Diseases: Periodontitis

· Girginitis

· Attatchment loss

· Gram-positive bacteria

· Gram-regative locateria

· Immune response

· Destruction of junctional epithelium, periodontal ligament, and mobility.

· Periodontal Debridement.

> nonsurgical instrumentation focusing on removal of hard and soft deposits from supragingival and subgingival surfaces.

> Prevents or arrests infection and restores health

> Premeres plaque, scale, noot planes, and polishes.

furcation = Loss of Bone

~Power Scaling~

* Done with routine debridement and advanced periodontal therapy.

·Sonic Scalers: 2000 to 9,000 cps

· Ultrasonic Scalers: 18,000 to 50,000 cps

to Vibrations remark deposits.

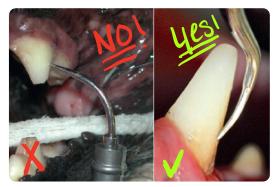
> You should use a cuffed endotracheal tube and gravity (tip the nose lower than the body) to prevent aspiration of fluids and debris.

Tip Designs: "Universal" - broad tips

> used for meelium/ heavy eleposits

· Slim Lips

* used for subgingival pockets and furcation areas

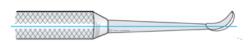


you NEVER put a scaling tip directly on a tooth. It should always be parrallel.

-Hand Scaling-



working on premolars &



· Straight Shank = best used for scaling teeth in the rostral portion of the mouth

Dental Instruments: Have three parts

· Handle

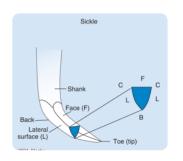
·Shank

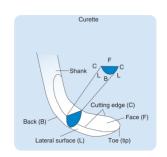
· Working end

> Examination instruments: Probes & Explorers

> Scaling Instruments: Curettes, sickles, files, & hoes. > two types of Curettes • Langer

· Gradey





Subgingival Instruments

> Sickle scalers: triangle shape gets under gingiva subgingival Cure Hes: cup like gets under gums.

-Principles of Scaling~

- ·Adaptation application of cutting edge against the tooth
- · Angulation-relationship of the force of an instrument to the tooth
- ·Stroke- Exploratory, working, or Root planing

Sharpening-Dull instruments can burnish calculus
- Can sharpen manually or mechanically
- Start with 90° angle to sharpening stone
then increase angle to 110°

~ Polishing~

- >smooths surfaces
- > removes extrinsic stains
- > Two Methods
 - · Electric motor our compressor
 - · Air polishur

-Periodontal Surgery~

· Grading System: Grade 1

- Poutine Cleaning

Grade 11

-Root deboidement, Subgingival cure Hage

- Root deloniclement, subgingival curettage, -Home Care-Surgeni

Grade IV

- Extraction

Reasons for Oral Surgery

- · Deep periodontal pockets · Bone loss

- Regional Newe Blocks for Oral Surgery -

· Benefits: Preemptive analgesia, prevention of "Wind-up" pain.

- Postoperative analyssia

-Decreased concentration of inhalant anesthetic gas

·Three Basic Uses: Splash black, Tocal anosthesia, Regional anesthesia

Types of Newe Blocks Used:

- -Infraorbital
- Middle mented nerve block
- Inferior alveolar newe block
- Moxillary nerve block

* Without proper post-op care the problem will return.

- > essential for reducing bacteria
- > Brushing
- > Diet
- > Toys



- Position the filaments up toward the root at a 45° angle to the
- Place the brush with the filament tips directed into the gingival sulcus.





full-metal

Jacket

Crown

- Restorative Dentistry-

> restores or maintains tooth's structure and function.

> preservation is key > corrects caries, fractures, endontically treated teeth

-> Can but on Metal or Zirconium Crowns

-Endontics-

> Study and treatment of the inside of the tooth (pulp) and periapical tissues (at the apex of tooth root)

Treatment for Endontic disease:

- Removal, shaping of root canal, obturation, extraction

- Radiographs are necessary.

- Extraction Techniques-

· Closed extraction

> single rooted teeth or severe periodontal disease

· Surgical extractions

> root fractures, often less tramatic

· Tooth Resorption.

> common in cots & dogs

> lesions are commly seen at the conviced protion of the tooth (the junction where the crown meets the root, "neck")

·Malocclusions.

> Four Classes: Class 1: Neutroclusion

· One or more teeth are in an abdormal position

Class II: Mandibular Distoclusion "overshot" · Mondible shorter than maxilla

Class III: Mandibular Mesiculation "undershot"

·Maxilla shorter than mandible

Class IV: Wry Bite

· Maxillary - mandibular a symmetry.



Dolichocephalic



Brachycephalic



Mesocephalic

- Interceptive Orthodontics-

· Extraction of adult teeth that are causing or will cause malocalusion problems.

· Persistent diciduous teeth - baby teeth that are retained

Stomatitis = diffuse inflamation of entire oral cavity Common in costs

~Equine Dentistry~

- · Horses have 24 deciduous teeth · 36-44 permanent teeth
- · you can determine an equines age by their teeth:
 Occlusal surface features
 - Eruption times Dental Star

· Canine teeth

- Absent or rudimentary in females
- four permanent teeth in males

· Premolars

- "Wolf Teeth"
- Each quadrant contions six, closely arranged
- Normal angulation

·Jaws

- Anisognathism = Mandibles fuse at midline (Not in cats & Dogs)

Signs of Severe Dental Disease in Equine:

· Early detection

- → Weightless, quidding, head shaking, tilting head → Predispose to impaction colic & esophageal choke
- · Extraoral Examination
 - > Eacial swelling, atrophy, discharge Dental Flocat: Purnoves
- ·Intra oral Examination
 - > Requires sectotion

raised areas/points from occlusial surfaces of teeth.

- Common Dental Problems for Horses-

- ·Tooth root abscess
 - pulp exposure or tooth death tooth fracture, excessive wear, decay
- · Periodontal Alonermalities - loss or demoge to structures

· Jaw length discrepancies

- Mandi bular brachy gnathism

"parrot mouth"

*lower Jaw Shorter than upper Jaw

-Maxillary brachygnathism
> "monthy mouth"

* upper Jaw Shorter than Lower Jaw

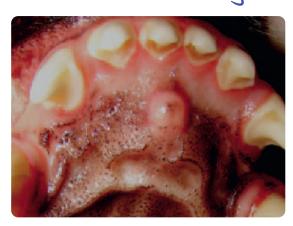
- Wry Nose - deviotion from the midline · Gingivitis

· Cemental hypolosia - loss of cementum

· Caries

* The check teeth of horses are an example of Radicular hypocodent teeth

The incisive papilla is a raised structure located at the midline behind the maxillary incisors in Dogs & cats.



The major salivary glands of the Dog & cat are the paired mandibular, sublingual, zygomatic, and Parotial glands.