

CONNECTIONS OF THE UPPER AND LOWER EXTREMITY

(*juncturae ossium membra superioris et inferioris*)

Remembrance event for those who donated their bodies to the Department of Anatomy

Monday 11/4/2019 – 6 PM

Augustinian Abbey

Mendlovo náměstí 157/1
603 00 Brno



Articulatio cubiti (elbow joint)

Articulatio composita:

1. Articulatio humeroradialis (articulatio sphaeroidea)
capitulum humeri, fovea capitis radii
2. Articulatio humeroulnaris (articulatio trochlearis)
trochlea humeri, incisura trochlearis ulnae
3. Articulatio radioulnaris proximalis (articulatio trochoidea)
circumferentia articularis capitis radii,
incisura radialis ulnae



Articulatio cubiti

Articulation capsule:
Epicondyles of the humerus EXTRACAPSULAR, foveae of the humerus
INTRACAPSULAR

recessus sacciformis

Apparatus:

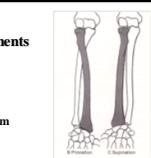
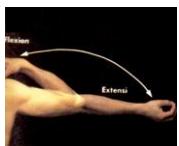
- lig. anulare radii
- lig. collaterale radiale
- lig. collaterale ulnare



Articulatio cubiti - movements

flexion and extension

Pronation and supination of forearm



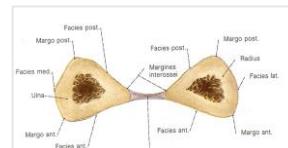
Juncturae radioulnares

Membrana interossea antebrachii

Fixation of the radius and ulna, origin of the muscles

Limitation of supination

chorda obliqua



Articulatio radioulnaris distalis

Facets: incisura ulnaris radii, circumferentia articularis capitis ulnae

Capsule: thin and tough

Apparatus: ligamentum radioulnaris palmar, dorsale

Type: articulatio trochoidea

Movements: pronation and supination of the hand

Pronation Supination

Articulationes manus

- Articulatio radiocarpalis
- Articulatio mediocarpalis
- Articulatio osis pisiformis
- Articulatio carpometacarpalis pollicis
- Articulationes carpometacarpales II.-V.
- Articulationes metacarpophalangeales
- Articulationes interphalangeales

Articulatio radiocarpalis

Facets:
facies articularis carpalis radii, discus articularis
os scaphoideum, os lunatum, os triquetrum (lig. intercarpalia interossea)

Morphologic and functional unit with articulatio mediocarpea

Common with mediocarpal joint:
capsule
apparatus
movements
Type - articulatio elipoidea

Articulatio mediocarpalis

Facets: proximal and distal row of the carpal bones except for os pisiforme

Radial:
head: os scaphoideum
pit: os trapezium, trapezoideum, capitatum

Ulnar:
head: os capitatum, hamatum
pit: os scaphoideum, lunatum, triquetrum

Communication with art. carpometacarpalis II.-V.
(between os trapezium and trapezoideum)

Articulatio mediocarpalis - apparatus

- ligg. intercarpaea dorsalia, palmaria et interossea
- lig. radiocarpeum dorsale et palmar
- lig. ulnocarpeum palmar et dorsale
- lig. carpi radiatum

Articulatio mediocarpalis

Functional unit with **articulatio radicarpalis** – ellipsoid joint

Movements:
palmar and dorsal flexion
radial and ulnar duction
circumduction

