Ulnar Nerve 3min

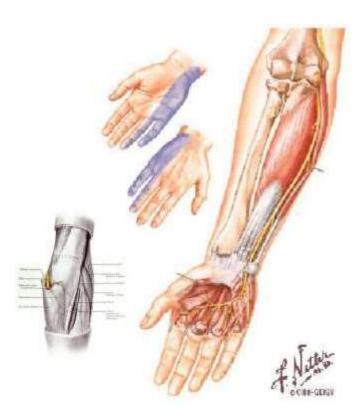
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Ulnar nerve

- Medial cord
- Anterior division of inferior trunk
- C8 & T1 spinal roots
 - Also C7 as ulnar nerve often picks up C7 fibres at root level, trunk level, divisions level, etc.
- Forms lower part of M

Myotomes

- Anterior forearm muscles:
 - Flexor carpi ulnaris (FCU)
 - o Medial half of flexor digitorum profundus (FDP)
- Everything that the median nerve does not supply
 - o Medial 2 lumbrical and Thenar remanence
 - Abductor digiti minimi (AbdDM)
 - Flexor digiti minimi (FDM)
 - Opponens digiti minimi (ODM)
 - Adductor pollicis (AddP)
 - 3rd and 4th lumbrical
 - Interossei

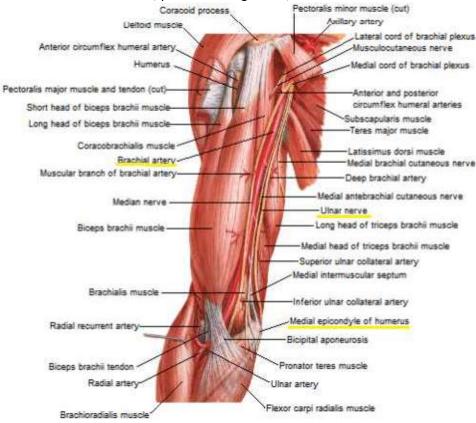


Dermatome

- Medial 1.5 digits (both palmar and dorsal)

Route

- Medial to brachial artery in arm
- Passes posterior to medial epicondyle
 - Susceptible to compression and/or stretch across back of medial epicondyle
- Between and deep to heads of flexor carpi ulnaris (FCU)
- Between flexor carpi ulnaris (FCU) and medial surface of flexor digitorum profundus (FDP)
- Superficial to flexor retinaculum medially
 - Susceptible at wrist to compression against handlebar of bike
- Enters hand through ulnar canal/tunnel:
 - With ulnar artery
 - Pisiform bone, pisohamate ligament, hook of hamate



Injury

- 'Claw hand'
- Ulnar nerve paradox: More distal the cut the more claw it appears

Veins and lymphatics of Upper limbs 2min 25

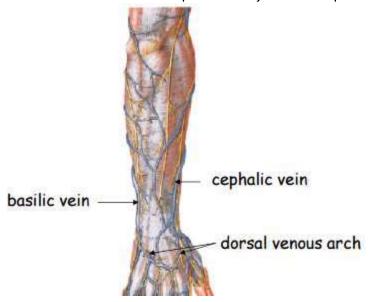
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Veins

- There are always superficial and deep veins
- Deep and superficial veins always readily anastomose
- Superficial and deep veins have valves for unidirectional flow

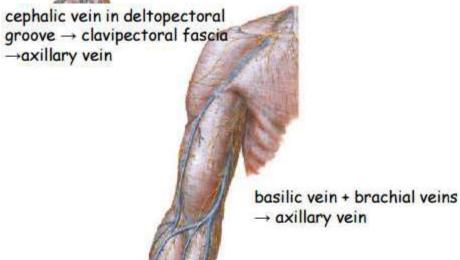
Superficial Veins

- In superficial fascia outside of compartments
- Dorsal venous arch:
 - o Clenching of fist or pressure of gripping promotes collection of blood in dorsum of hand
 - o Drains into cephalic (lateral) and basilic (medial) veins of forearms
- Cephalic veins:
 - o Around lateral border of forearms to appear on anterior surface
 - Ascend lateral side on anterior side of forearm
 - o Communicates with basilic vein via median cubital vein in cubital fossa
 - o Everyone has a different pattern
 - Runs on the lateral side of biceps into deltoid-pectoral groove (between deltoid and pectoralis major)
 - o Pierces clavipectoral fascia just before clavicle joining the axillary vein
- Basilic vein:
 - Winds around medial side of forearm to appear on anterior side
 - o Communicates with cephalic vein via median cubital vein In cubital fossa
 - Medial side of biceps before piercing deep fascia at insertion of coracobrachialis (1/2 up arm)
 - o Enters anterior compartment to join brachial pair comatitentis/veins



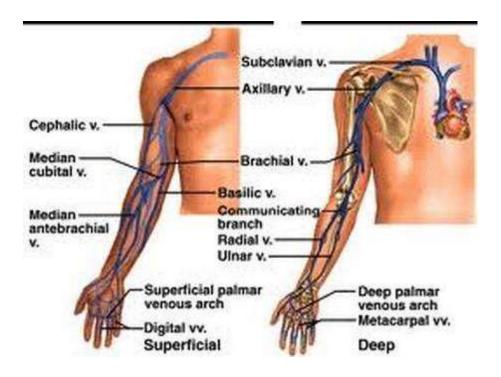


median cubital vein



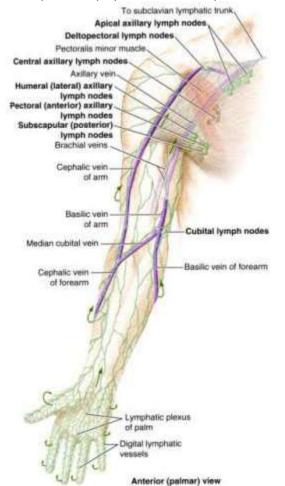
Deep Veins

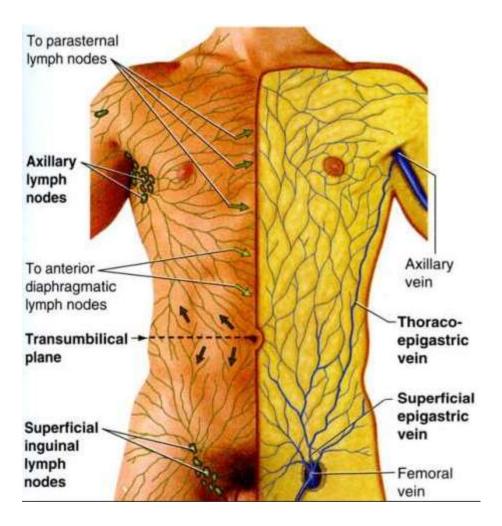
- Always accompanying arteries in compartments
- Proximal to middle joint (elbow) there are paired veni comitanties (a vein on either side of artery)
 - o Paired ulnar, radial and brachial veins
 - o Relatively small due to most venous drainage being superficial



Lympathics

- Lymph ends in axillary lymph nodes
 - Also drains anterior and posterior chest wall (upper quadrant)
- Deep lymphatics with major arteries
- Superficial lymphatics follow superficial veins



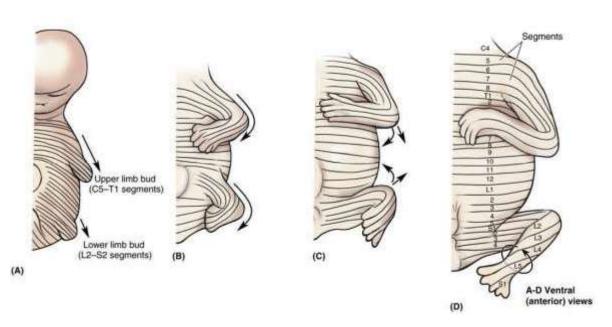


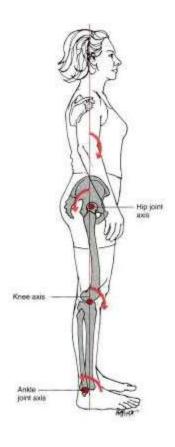
Lower Limb 50sec

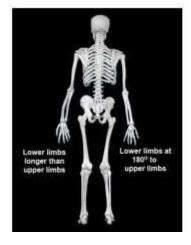
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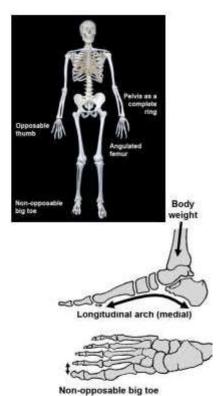
Lower Limb

- Lower limb bud rotates medially
- Designed for weight, locomotion, posture and stability
- Has a complete ring compared to the shoulder girdle
- Longer limbs for increased stride length, leverage, momentum, etc.
- Angulated femur so not swaying (controls centre of balance/mass)
- Non-opposable big toe (lies adducted)
- Longitudinal arch ensures weight distribution
- Centre of gravity:
 - Posterior to hip joint axis
 - Slightly anterior to knee
 - o Anterior to ankle: Soleus, gastrocnemius, etc. in calf maintain posture
 - Not directly over joints so as to decrease wear
 - o Structures to provide support









Regions

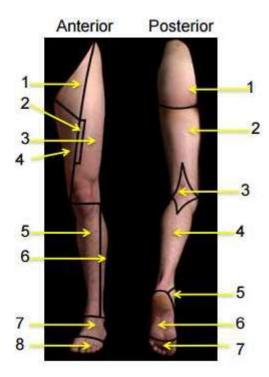
Major regions: hip, thigh, leg, foot

Anterior regions:

- 1. Femoral triangle
- 2. Subsartorial canal
- 3. Anterior compartment of thigh
- 4. Medial compartment of thigh
- 5. Anterior compartment of leg
- 6. Lateral compartment of leg
- 7. Dorsum of foot
- 8. Dorsal aspect of digits

Posterior regions:

- 1. Gluteal region
- 2. Posterior compartment of thigh
- 3. Popliteal fossa
- 4. Posterior compartment of leg
- 5. Tarsal tunnel
- 6. Sole of foot
- 7. Plantar aspect of toes

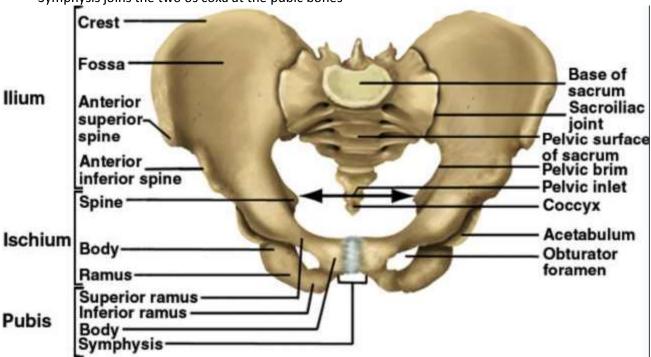


Pelvic Girdle 4min 10

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Pelvis

- Formed by 2 os coxa and sacrum
- Ligaments:
 - Sacral spinal ligament:
 - Ligament from sacrum to ischial spine
 - Makes the greater sciatic notch a foramen
 - Sacral tuberous ligament:
 - Ligament from sacrum to ischial tuberosity
 - Makes the lesser sciatic notch a foramen
- Symphysis joins the two os coxa at the pubic bones



Os coxa

- Each os coxa consists of:
 - o Ilium
 - Ischium
 - Pubis
- Acetabulum:
 - Socket for head of femur
 - Ilium contributes superior part
 - Ischium contributes to posterior rim
 - Pubis contributes to anterior part
 - Acetabular notch: Incomplete inferiorly
 - Contains labrum (fibrocartilaginous disc)
- Obturator foramen:
 - Posteriorly and superiorly formed by ischium
 - Anteriorly and some superior formed by pubis
 - Obturator membrane covers the obturator foramen