FOOT BONES

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There are 27 bones in the foot

and a variable number of sesamoid bones)

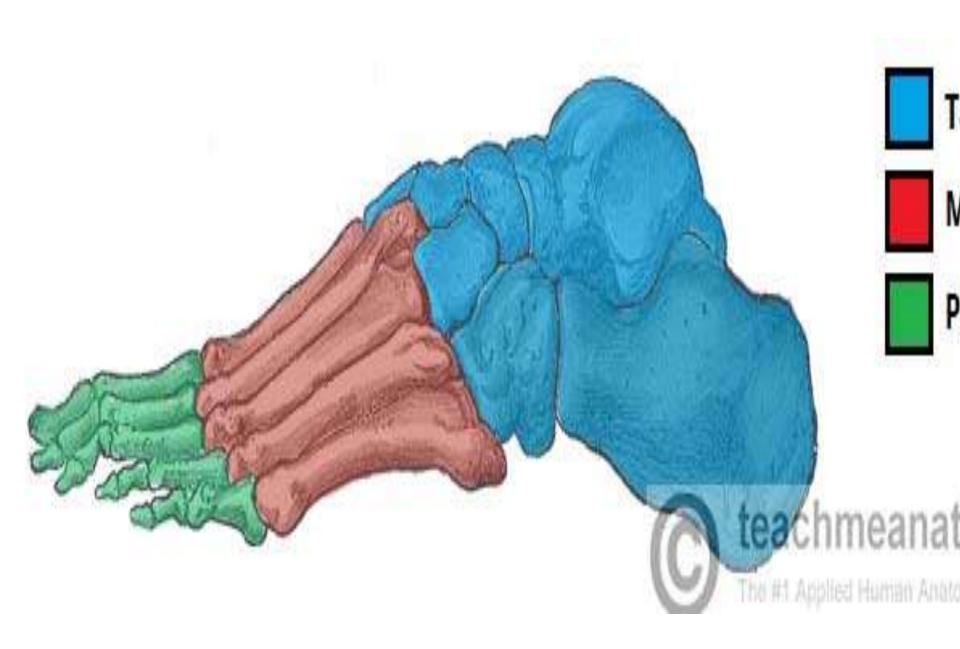
They may be broadly classified into

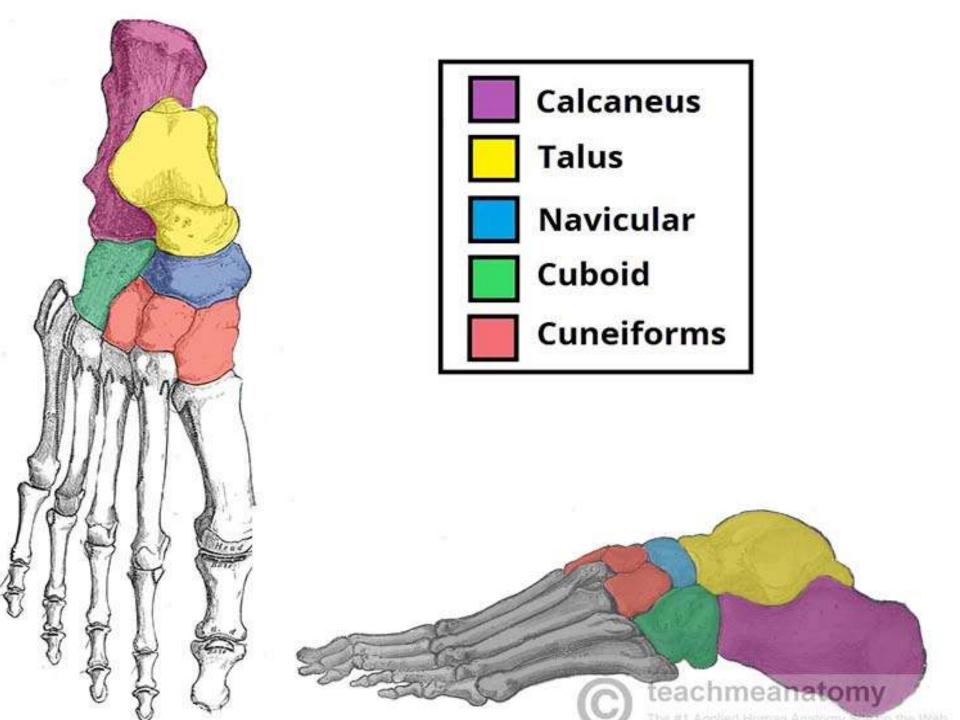
Anterior View

- Tarsal bones
- Metatarsal bones



- Phalanges

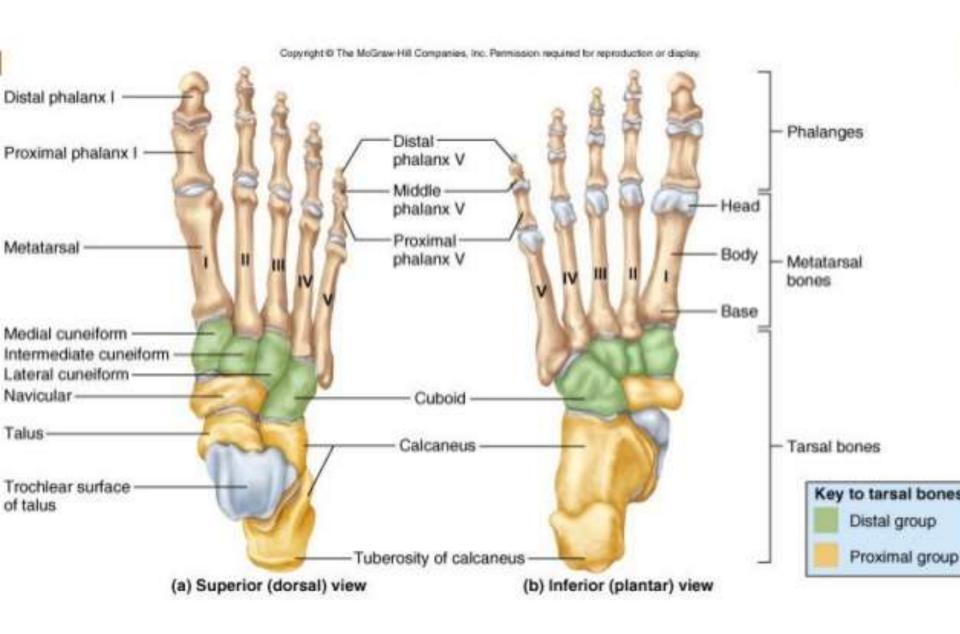




There are 7 Tarsal Bones

- 1. Talus
- 2. Calcaneus
- 3. Navicular
- 4. Medial Cuneiform
- Intermediate Cuneiform
- 6. Lateral Cuneiform
- 7. Cuboid





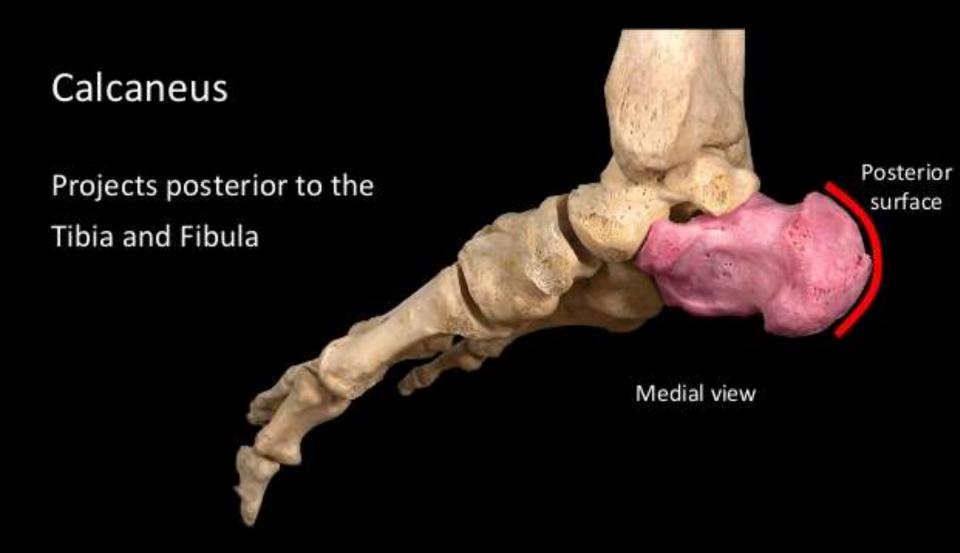
There are 7 Tarsal Bones

1. Calcaneus

Largest tarsal bone Best viewed from the side



There are 7 Tarsal Bones



There are 7 Tarsal Bones

Calcaneus

The medial aspect of the calcaneus has a projection

Sustentaculum Tali



Posterior view

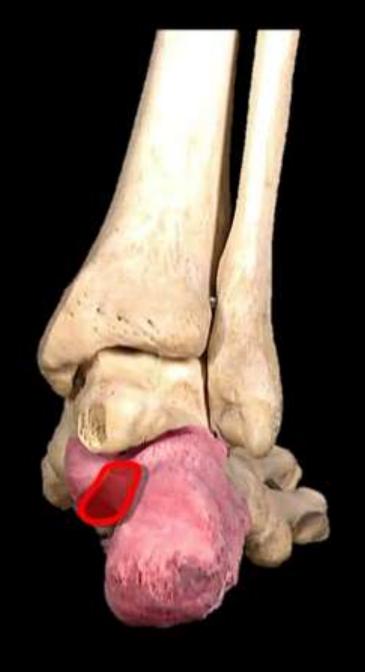
There are 7 Tarsal Bones

Calcaneus

The Sustentaculum Tali

Articulates with the Talus superiorly

Has a prominent groove inferiorly for the tendon of Flexor Hallucis Longus



Posterior view

There are 7 Tarsal Bones

Talus

Connects the foot to the leg

Articulates with the

Tibia and Fibula

superiorly



Medial view

There are 7 Tarsal Bones

Talus

Anterior view



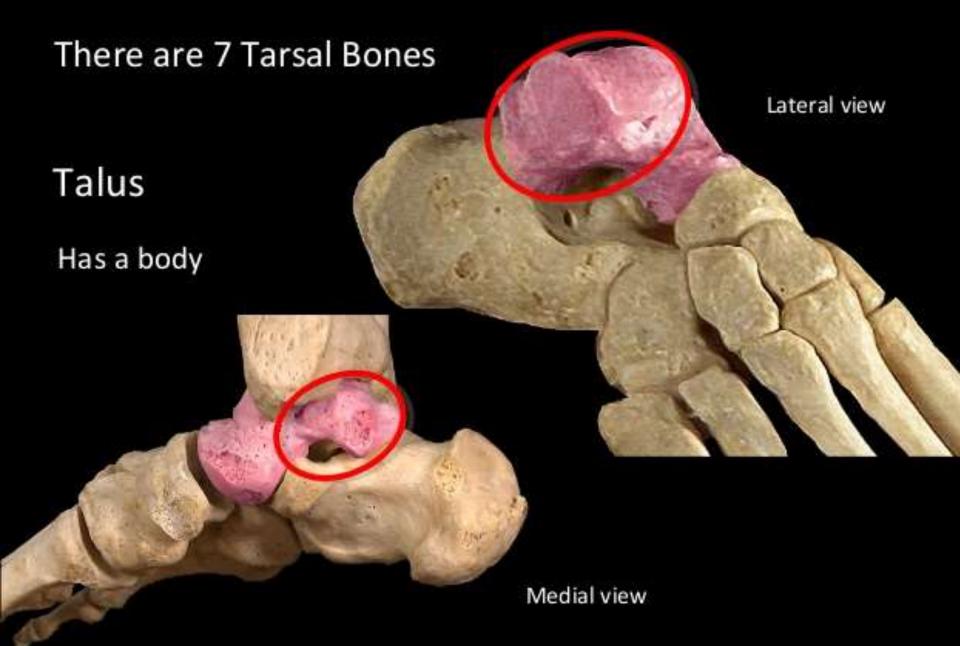
There are 7 Tarsal Bones

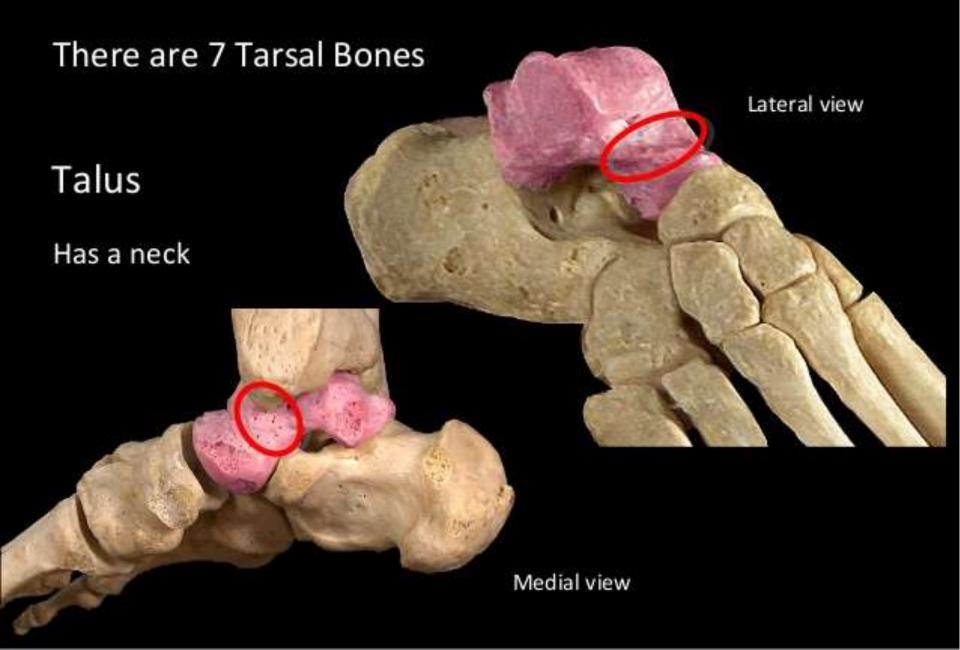
Talus

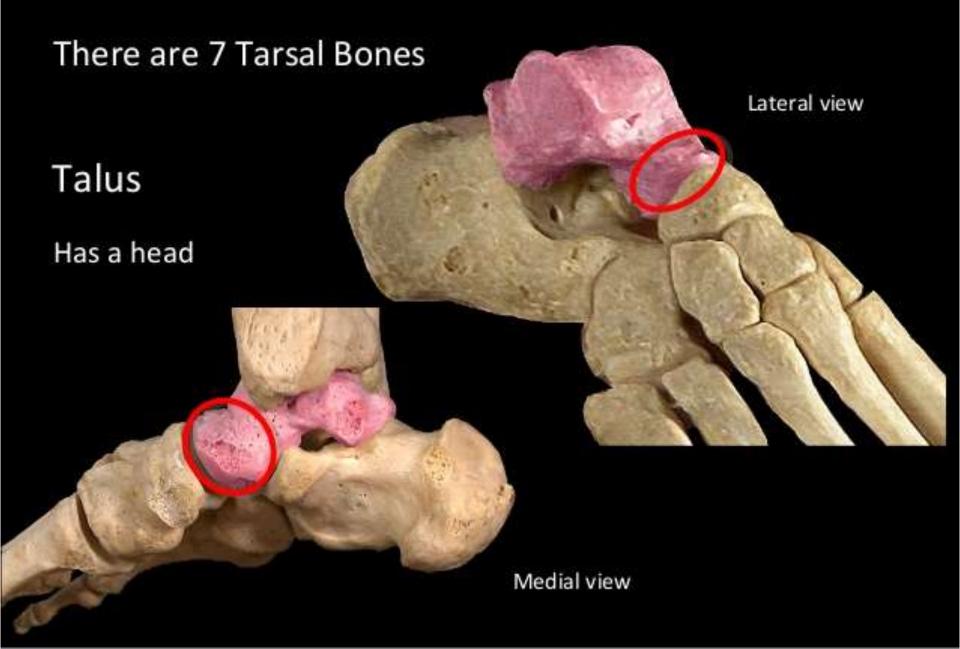
Connects the foot to the leg

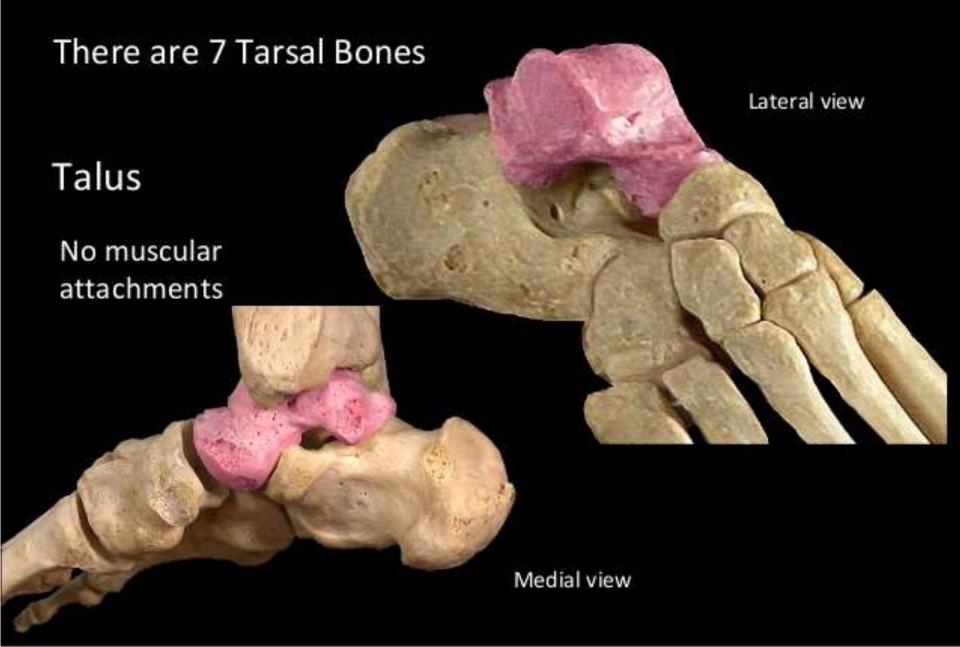
Articulates with the Calcaneus inferiorly

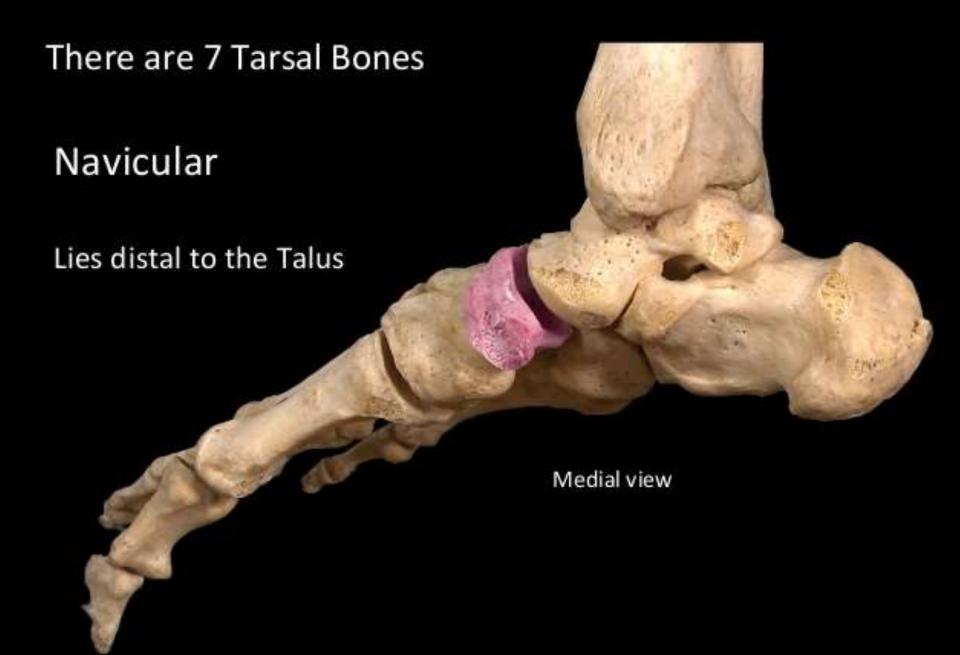










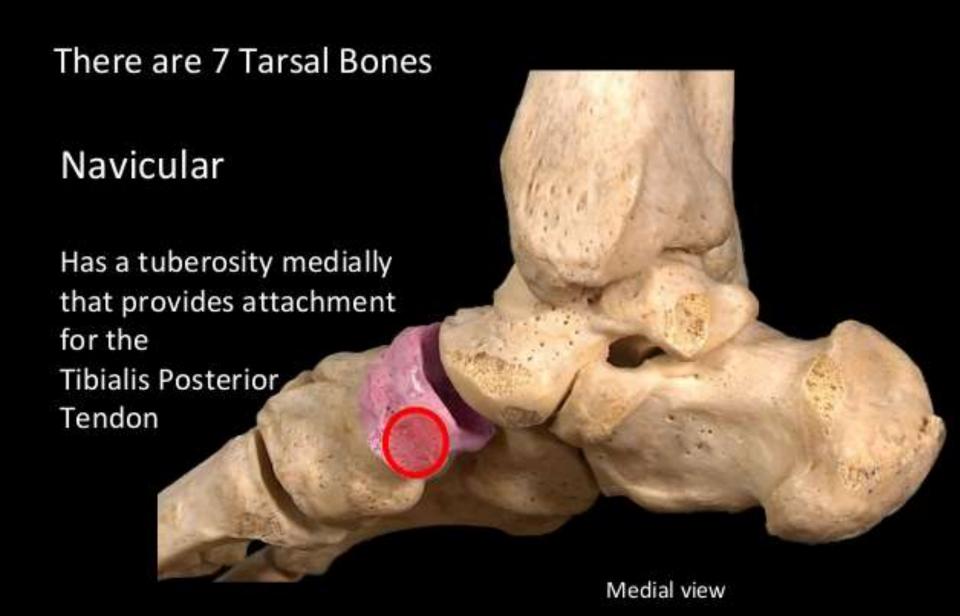


There are 7 Tarsal Bones

Navicular

Articulates distally with the 3 cuneiform bones





There are 7 Tarsal Bones

Medial Cuneiform

Articulates with the

Navicular proximally

1st Metatarsal distally



There are 7 Tarsal Bones

5. Middle or Intermediate Cuneiform



There are 7 Tarsal Bones

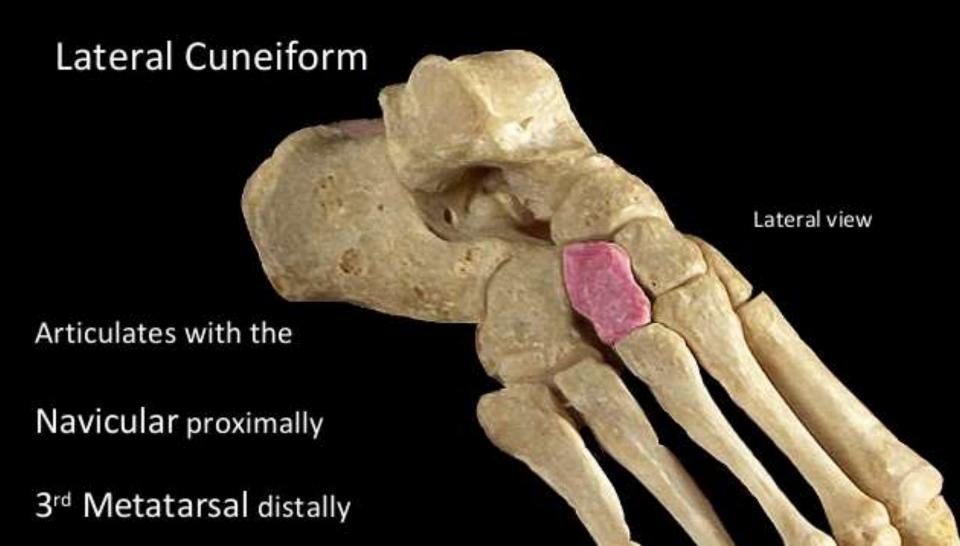
Middle or Intermediate Cuneiform Articulates with the Lateral view Navicular proximally 2nd Metatarsal distally

There are 7 Tarsal Bones

6. Lateral Cuneiform



There are 7 Tarsal Bones

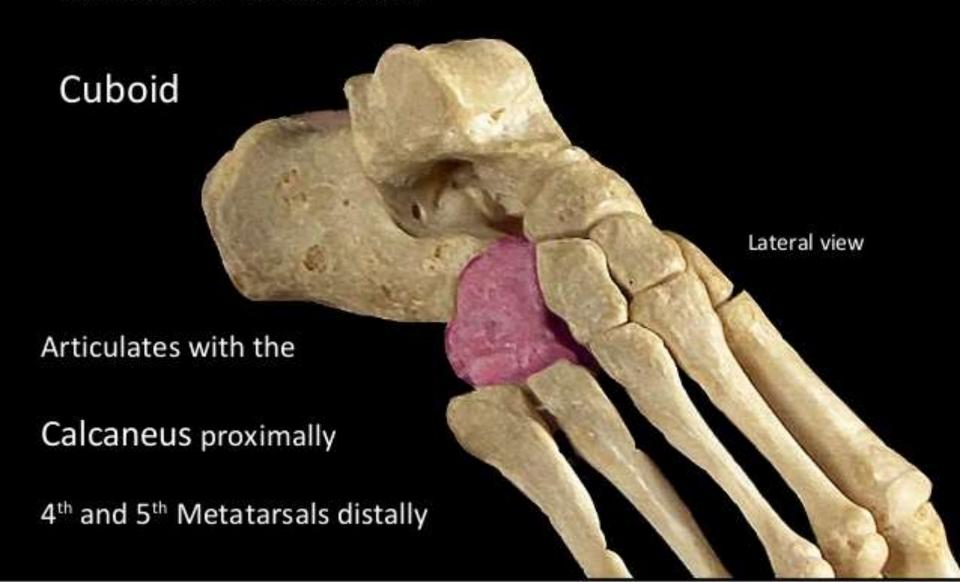


There are 7 Tarsal Bones

7. Cuboid



There are 7 Tarsal Bones

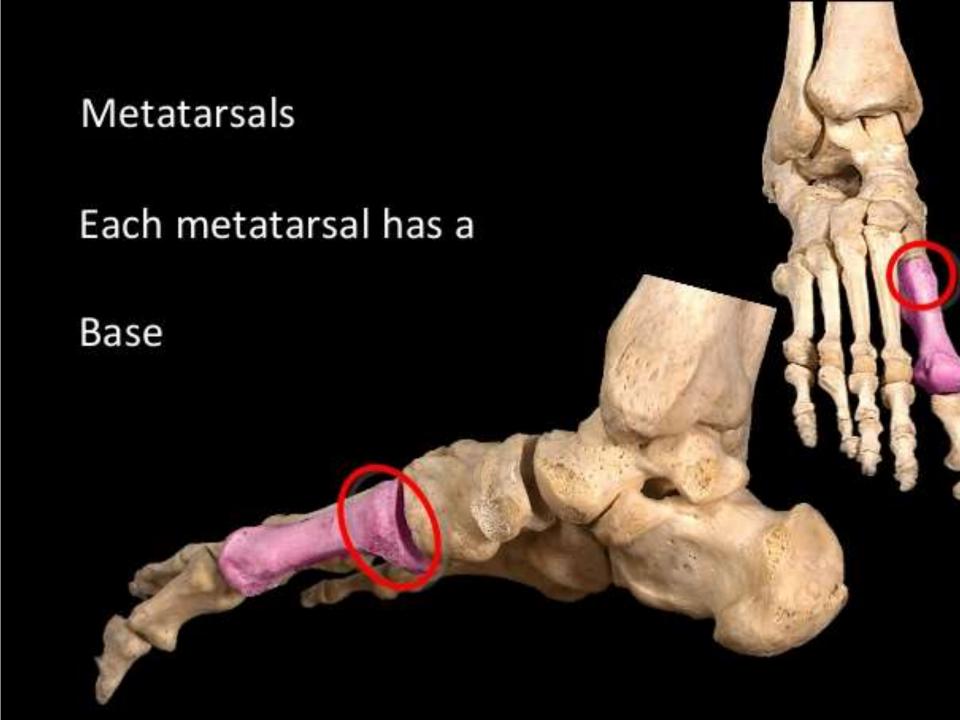


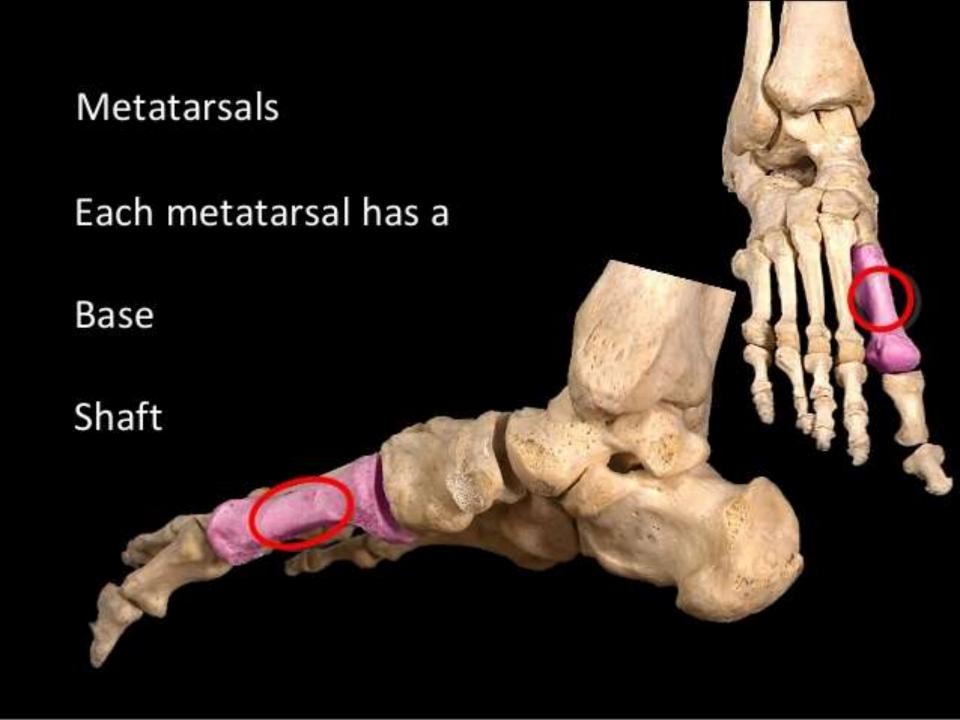
Metatarsals

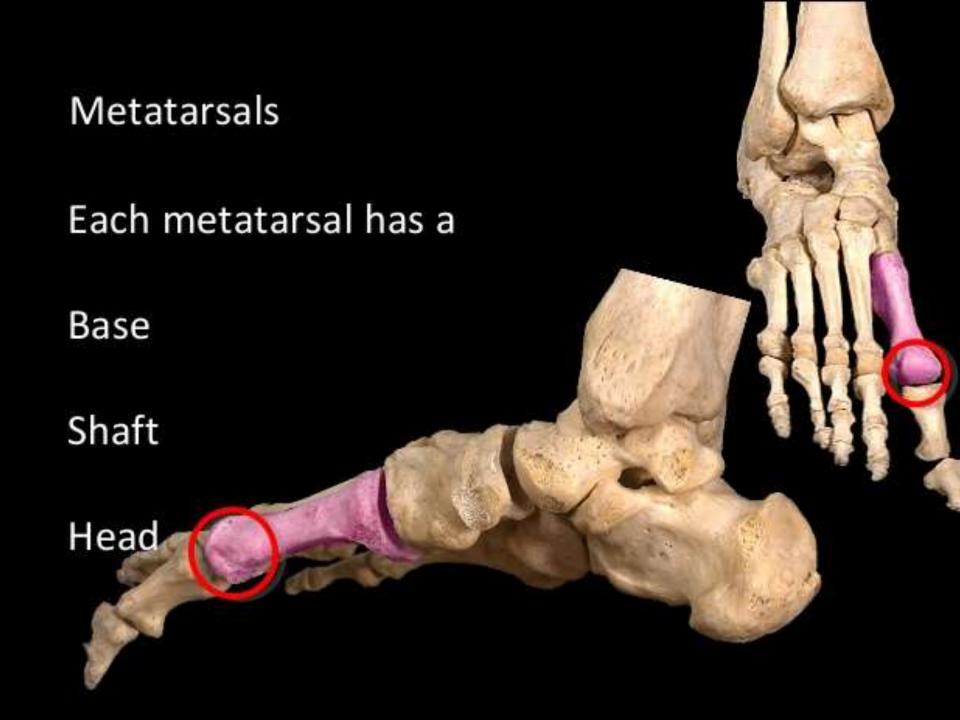
There are 5 metatarsals











The Great Toe has two Phalanges

Proximal Phalanx



The Great Toe has two Phalanges

Distal Phalanx



The other toes have 3 phalanges each

Proximal Phalanges



The other toes have 3 phalanges each

Proximal Phalanges

Middle Phalanges



The other toes have 3 phalanges each

Proximal Phalanges

Middle Phalanges

Distal Phalanges



TALUS BONE FRACTURES

- Talar fractures most commonly occur in the neck of the talus (50%) but can occur in the talar body or lateral process, with those in the talar head being the least common.
- Neck fractures typically high energy injuries, caused by excessive dorsiflexion of the foot. The neck of the talus is pushed against the tibia. In this type of fracture, the blood supply to the talus may be disturbed, leading to avascular necrosis of the bone.
- Body fractures usually occur from jumping from a height.

CALCANEUS BONE FRACTURES

 The calcaneus is often fractured as a result of axial loading, typically from a fall from a height. These patients should be assessed for associated injuries such as fractures of the lumbar spine or lower limb.

 The bone can break into several pieces – known as a comminuted fracture. Upon x-ray, the calcaneus will appear shorter and

FRACTURES

- Even after treatment, a calcaneal fracture can cause further problems.
- The sub-talar joint is usually disrupted, causing the joint to become arthritic.
- The patient will experience pain upon inversion and eversion – which can make walking on uneven ground particularly painful.
- The calcaneo-cuboid joint can also be affected.