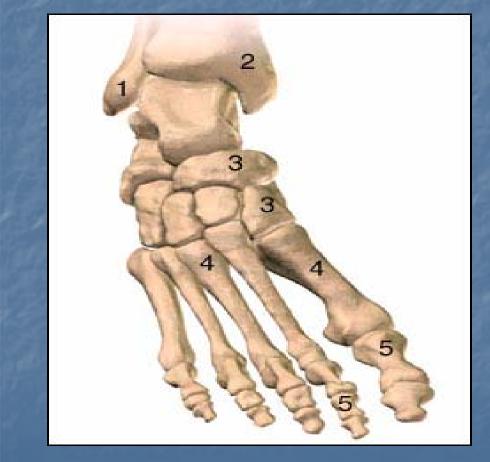
Ankle Anatomy

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Facts

Most frequently injured joint in the body
Works to maintain balance
26 bones in the ankle
Toes numbered 1-5 starting at the "'big toe" great toe

Bones of the Feet



Metatarsals Long bones of the foot

Bones of the Feet

Phalanges
 Small bones at the distal end of the metatarsals



Upper Ankle Joint

 Fibula – lower leg bone on the lateral side
 Lateral malleolusdistal end of the fibual

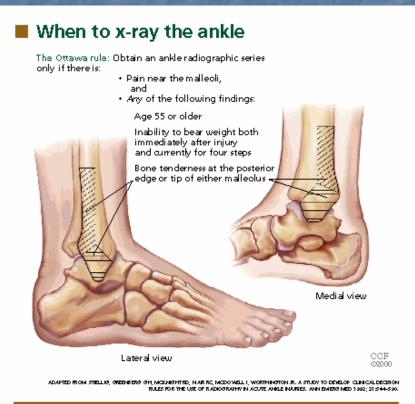
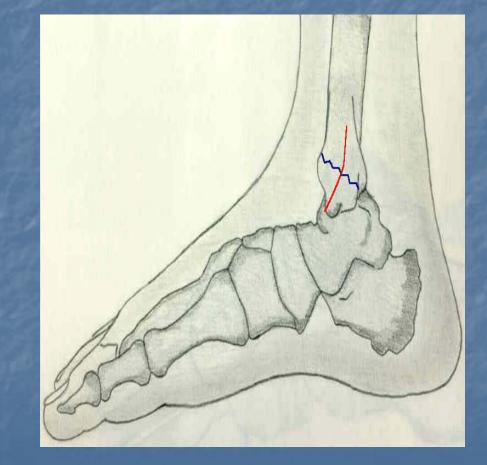


FIGURE 1

Upper Ankle Joint



 Tibia – lower leg bone on the medial side
 Medial malleolusdistal end of the tibia

Ankle Bones

Talus – large bone at the distal end of the tibia
 Calcaneus – large bone that forms the

heel

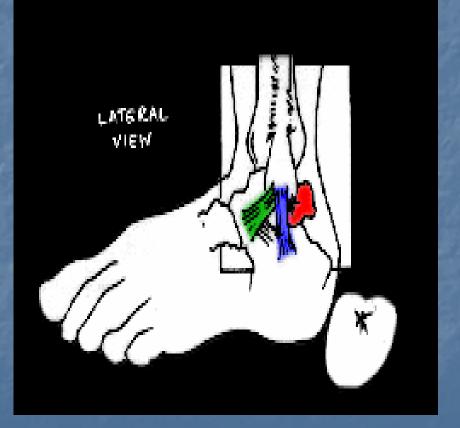


Ankle Ligaments

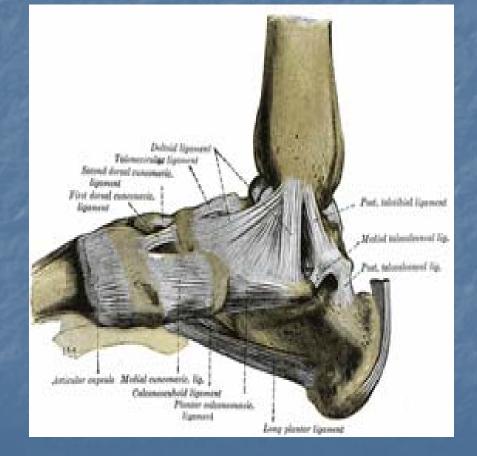
Note – Most of the names of the ankle ligaments, give the attachment point.

Lateral Ankle Ligaments

Commonly injured with ankle inversion
 Talofibular – connects the talus and fibula
 Calcaneofibular – connects the connects the calcaneus and fibula

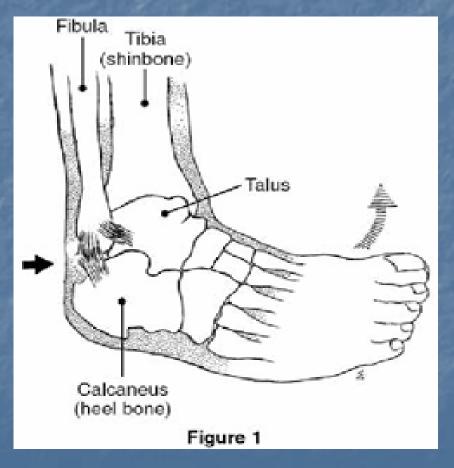


Medial Ankle Ligaments



Deltoid ligaments are four strong ligaments maintaining stability during eversion Talotibial – connects the talus and tibia Talocalcaneal – connects the talus and calcaneus

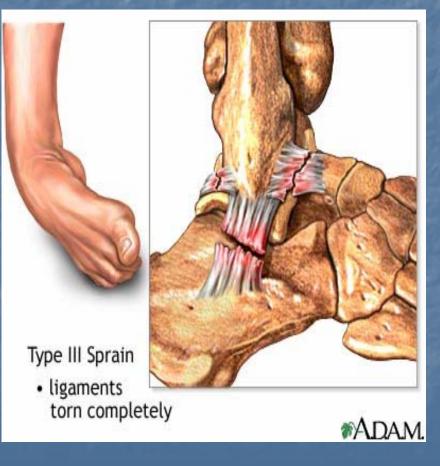
Grade I — Only a few muscle fibers are stretched or torn, so the muscle is mildly tender and painful, but muscle strength is normal.





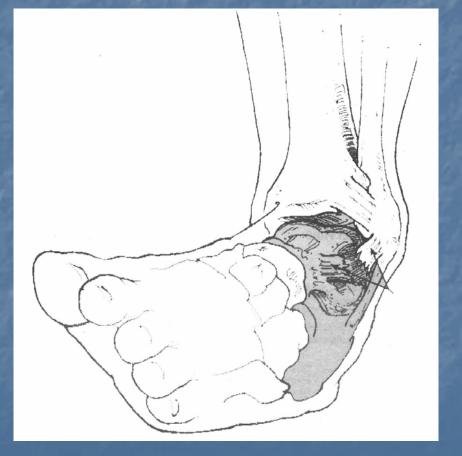
Grade II — A greater number of muscle fibers are torn, so there is more severe muscle pain and tenderness, together with mild swelling, noticeable loss of strength and sometimes bruising

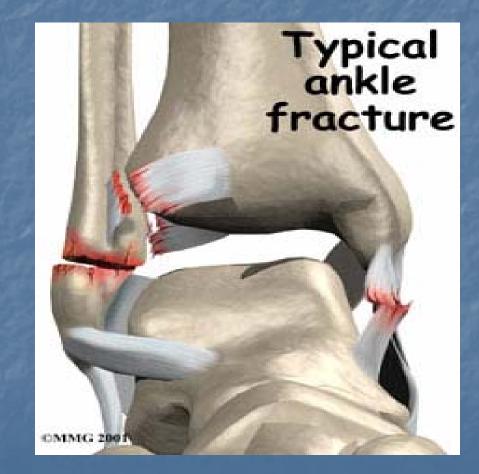
Grade III — The muscle tears all the way through. Either it rips into two separate pieces, or the fleshy part of the muscle breaks away from the tendon. Grade III muscle strains are serious injuries that cause complete loss of muscle function, as well as considerable pain, swelling, tenderness and discoloration.



 Sprains / Strains – 80% of sprains are caused by ankle inversion.

 Inversion sprains cause damage to the lateral ligaments





Ankle Fracture – commonly caused by eversion. The fibula is often broken.



 Achilles tendon rupture – third degree strain of the tendon