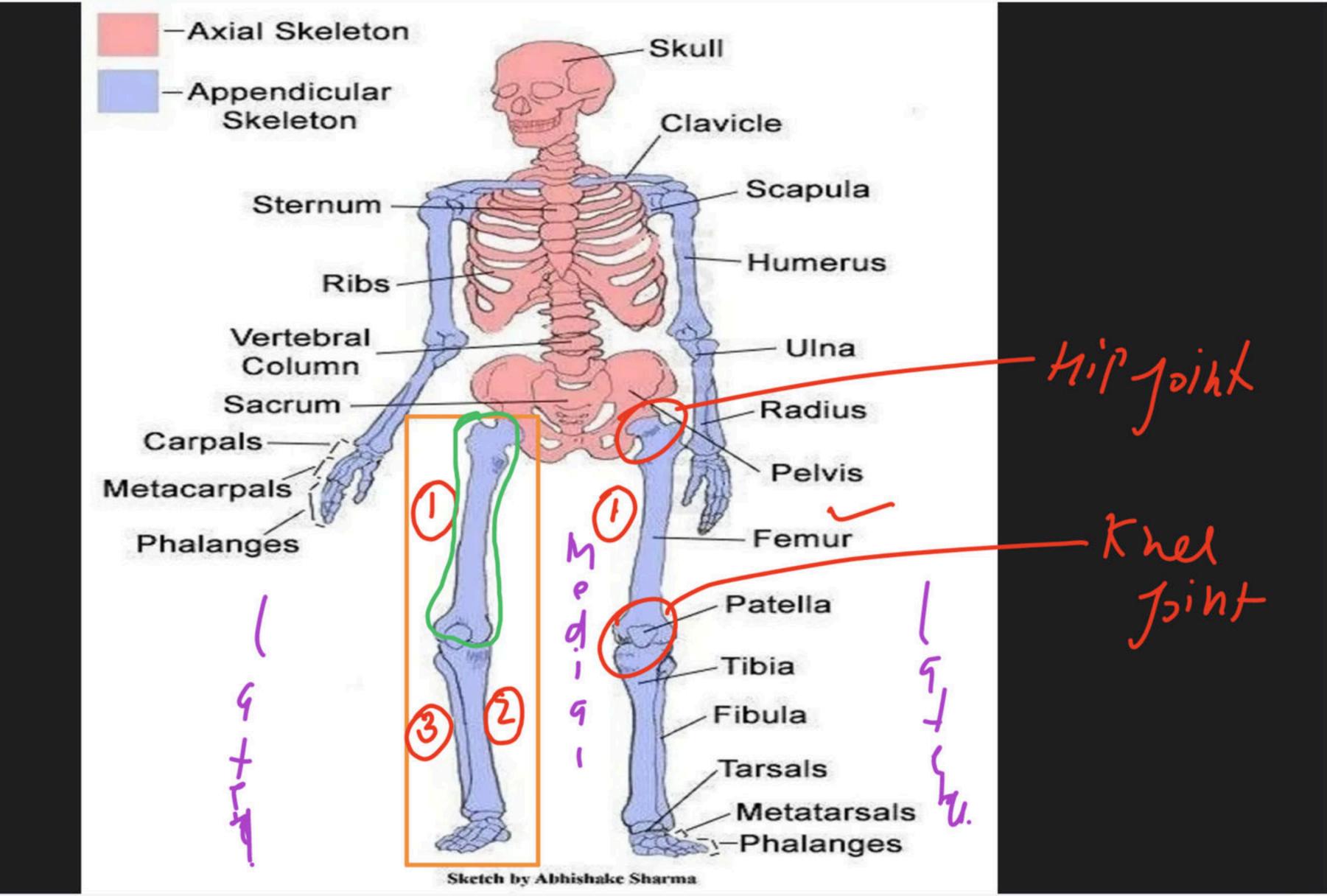
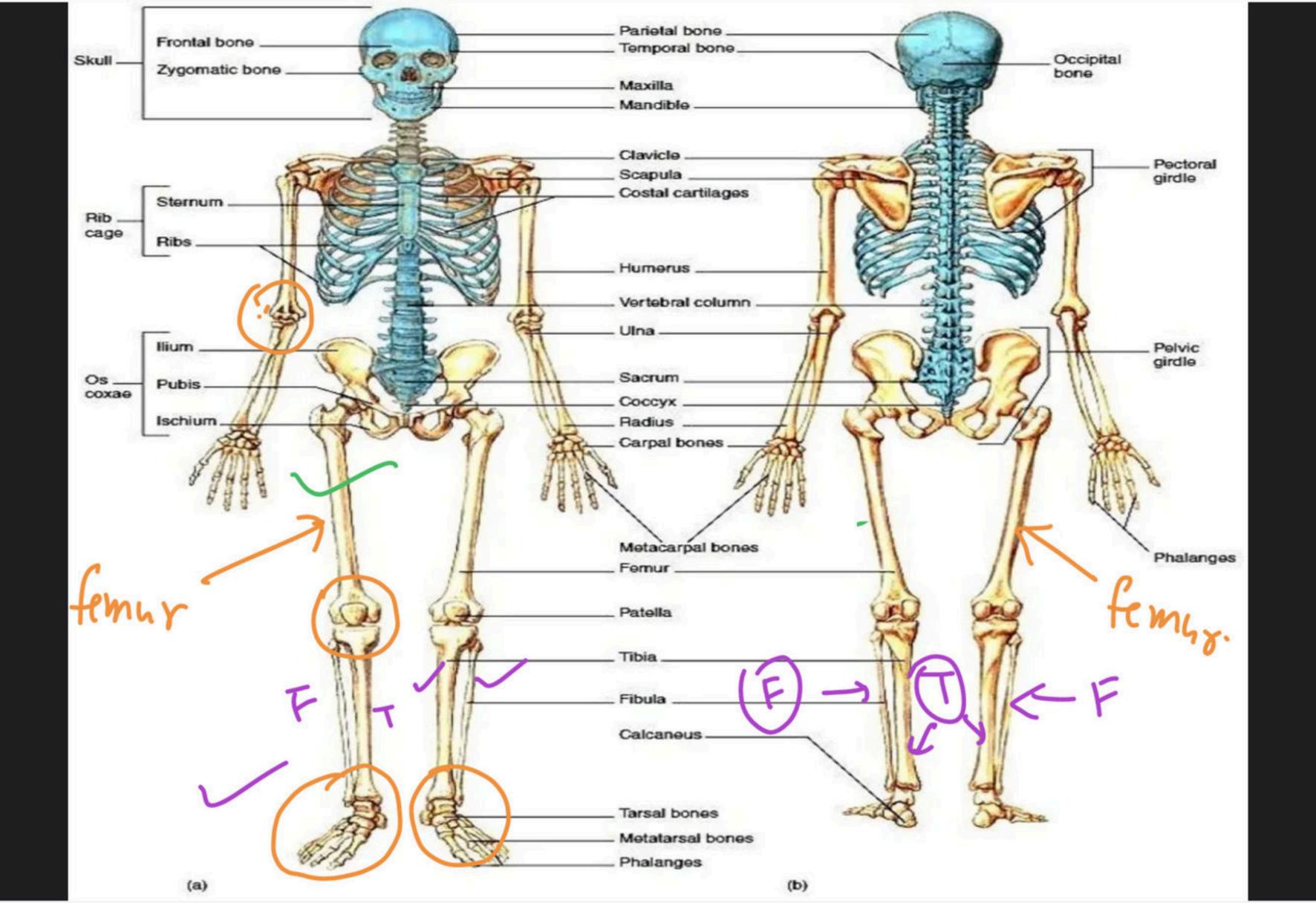


Course on Human Skeleton







FEMUR

Strongest, heaviest and largest bone

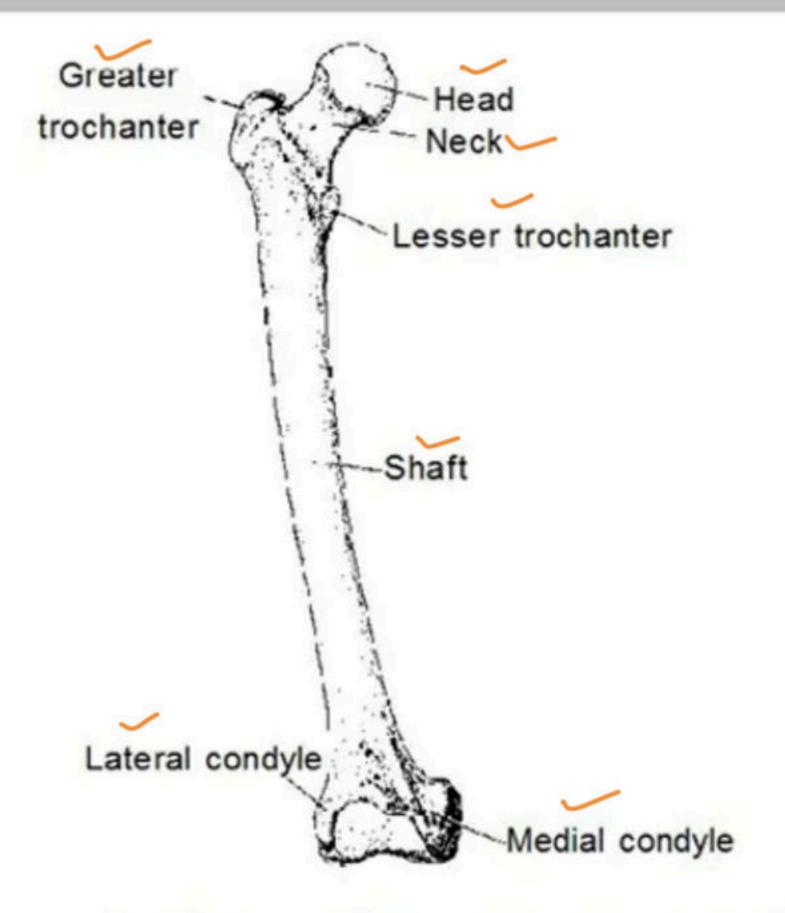
Head:

 Articulates with acetabulum to form the hip joint. (Ball and Socket joint)

Greater and lesser trochanter are rough projections to provide attachment to muscles.

Lower end: It widely expanded to form two large condyles, one medial & one lateral.

Patella bone: Small, triangular, sesamoid bone. It is knee bone and located in the pateller groove of femur bone upon knee joint.

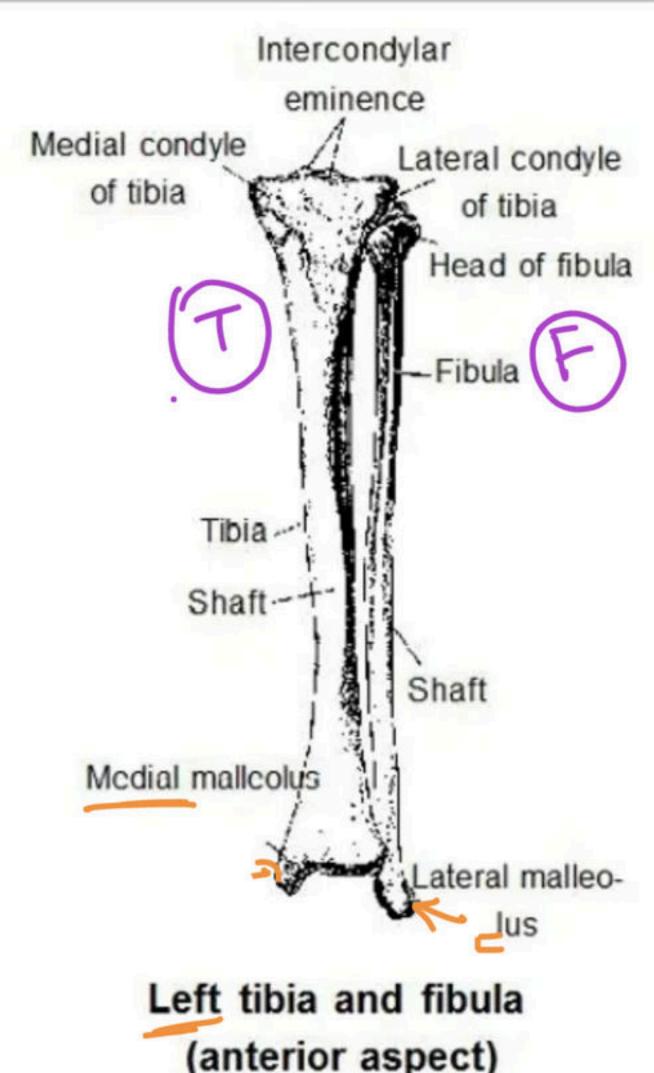


Right femur from anterior aspect

TIBIA

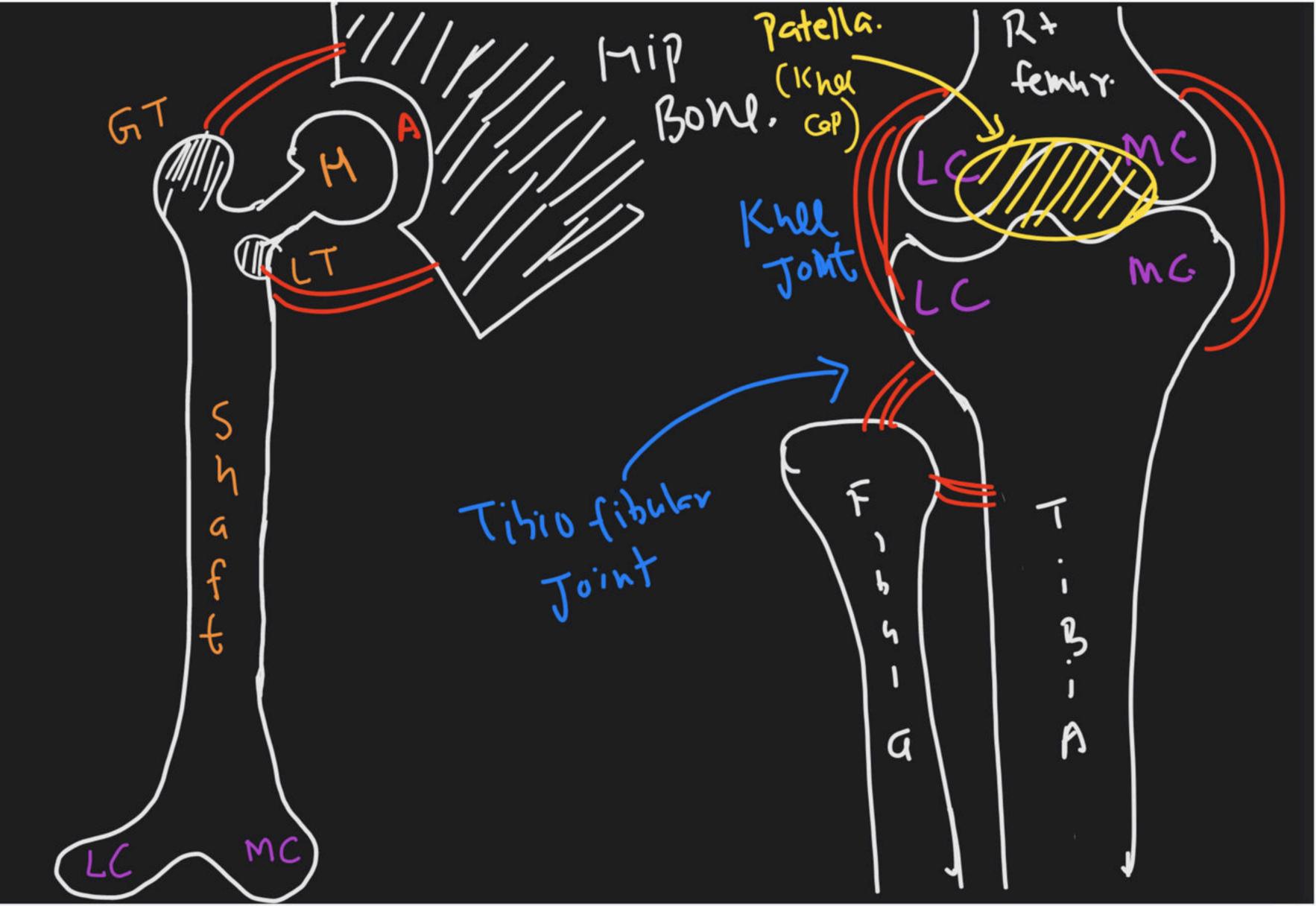
Medial & larger bone of the leg.

Upper end: Expanded from side to side to form two large condyles. Which articulates with femur bone.

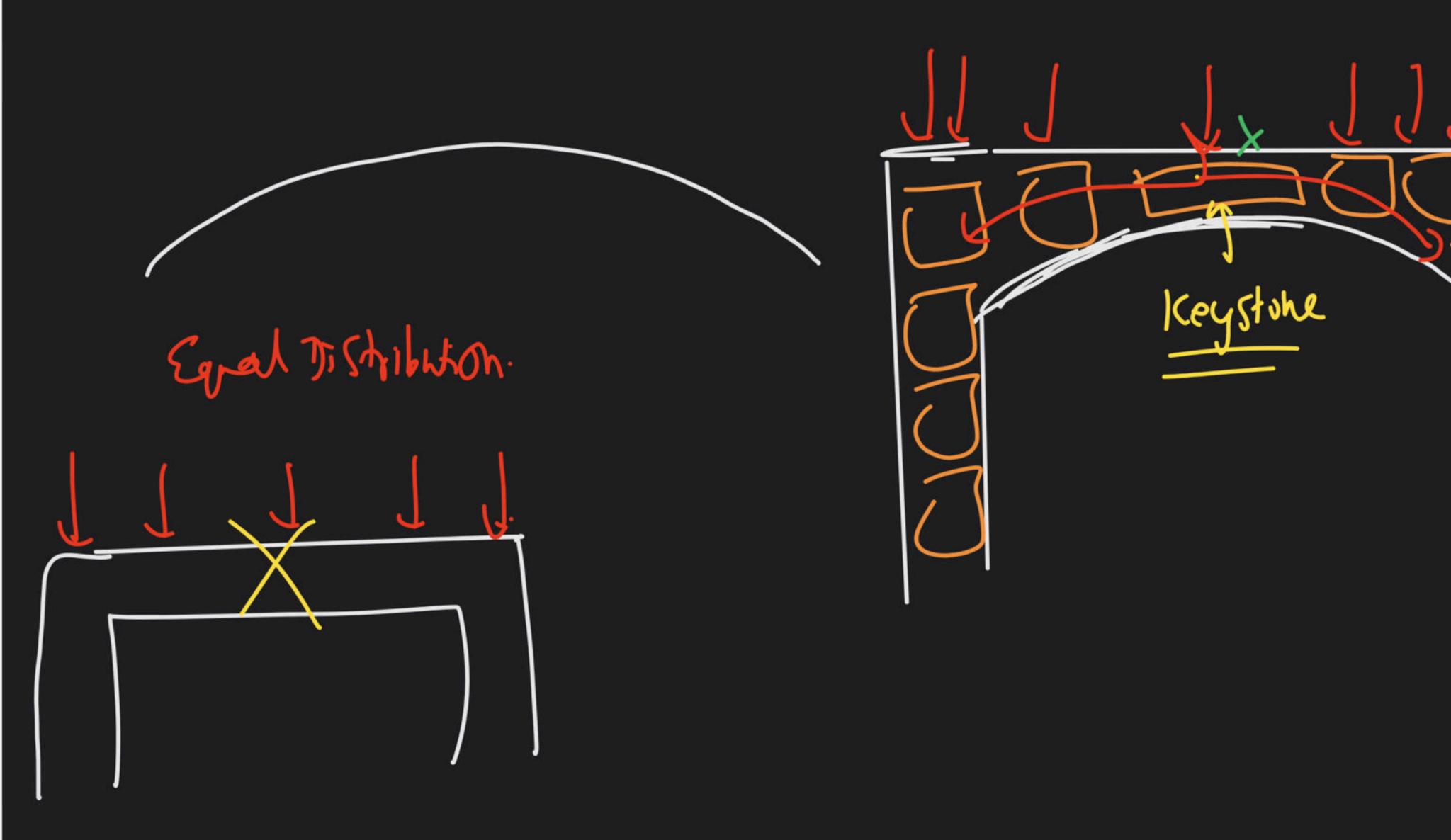


(anterior aspect)

Strongest Longest Largest Leoviet



fimhr Viennee frm medial Archer below 5,d1. 27,28 the foot Premire 21/area Phologes Humah (6 kgg you teav in Ligamont Aves. Chheiform



TARSALS

Ankle is made of seven tarsal bones arranged in two rows.

Proximal row: Talus above, Navicular in between and Calcaneum below.

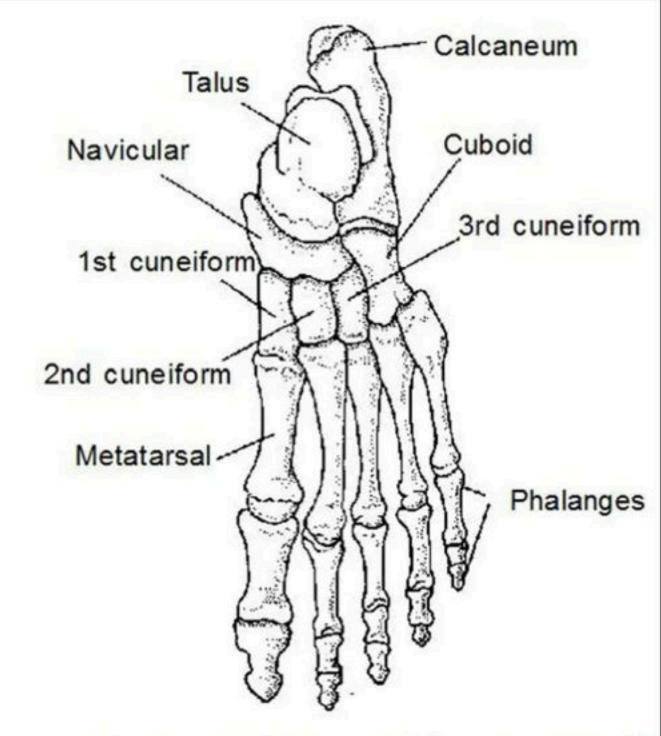
Tarsal bones are much larger & stronger than carpal bones because they have to support & distribute body weight.

Talus is second largest tarsal bone, lies between tibia above & calcaneum below.

Calcaneum: Largest tarsal bone, forms the prominence of heal.

Communicate body weight towards posterior during standing condition.

Distal row :- Four tarsal bones lying side by side (three cuneiform and one cuboid)



Bones of left foot (Upper aspect)

Meta tarsuls

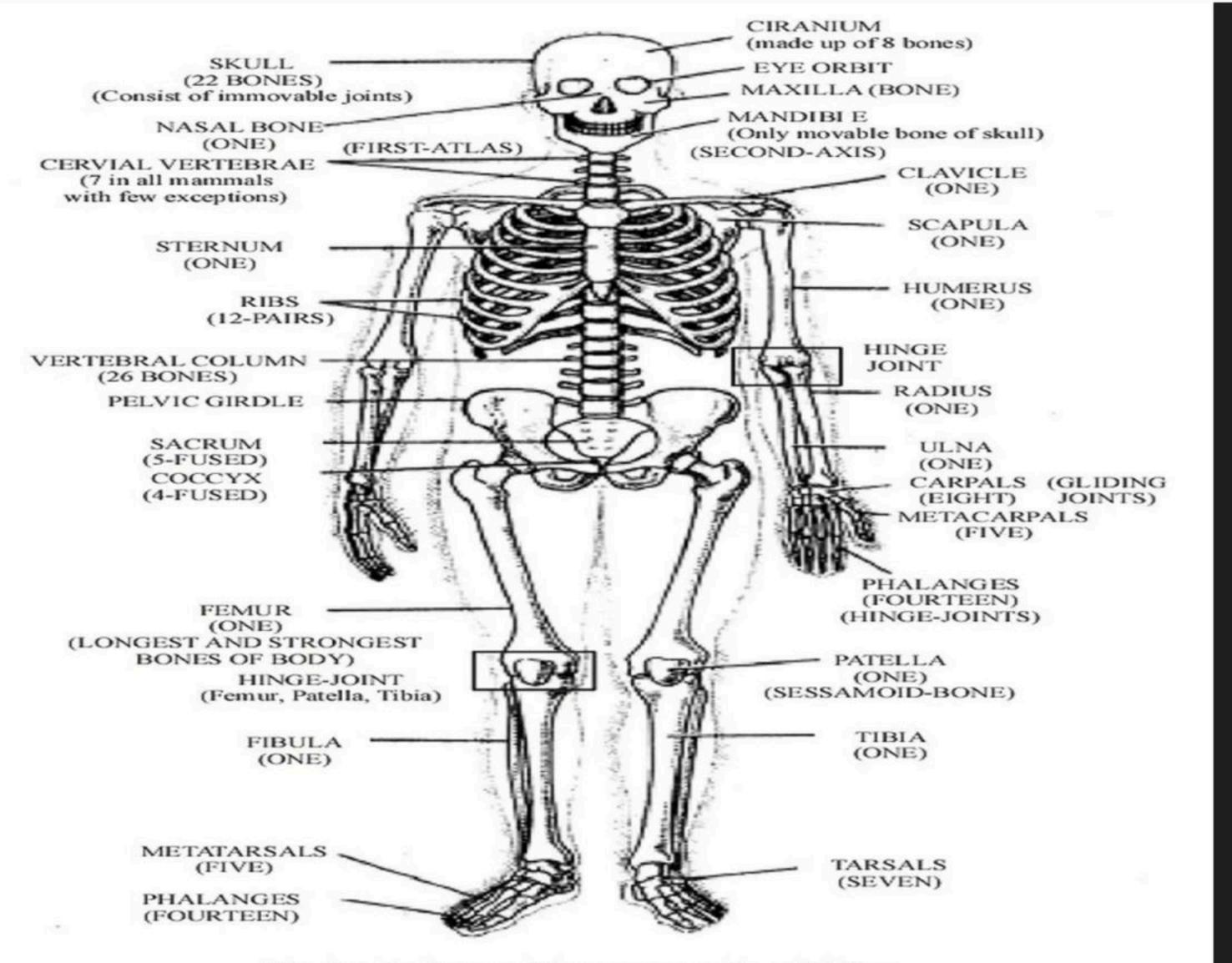
Made of 5 meta tarsal bones which are numbered medial to lateral.

Phalanges

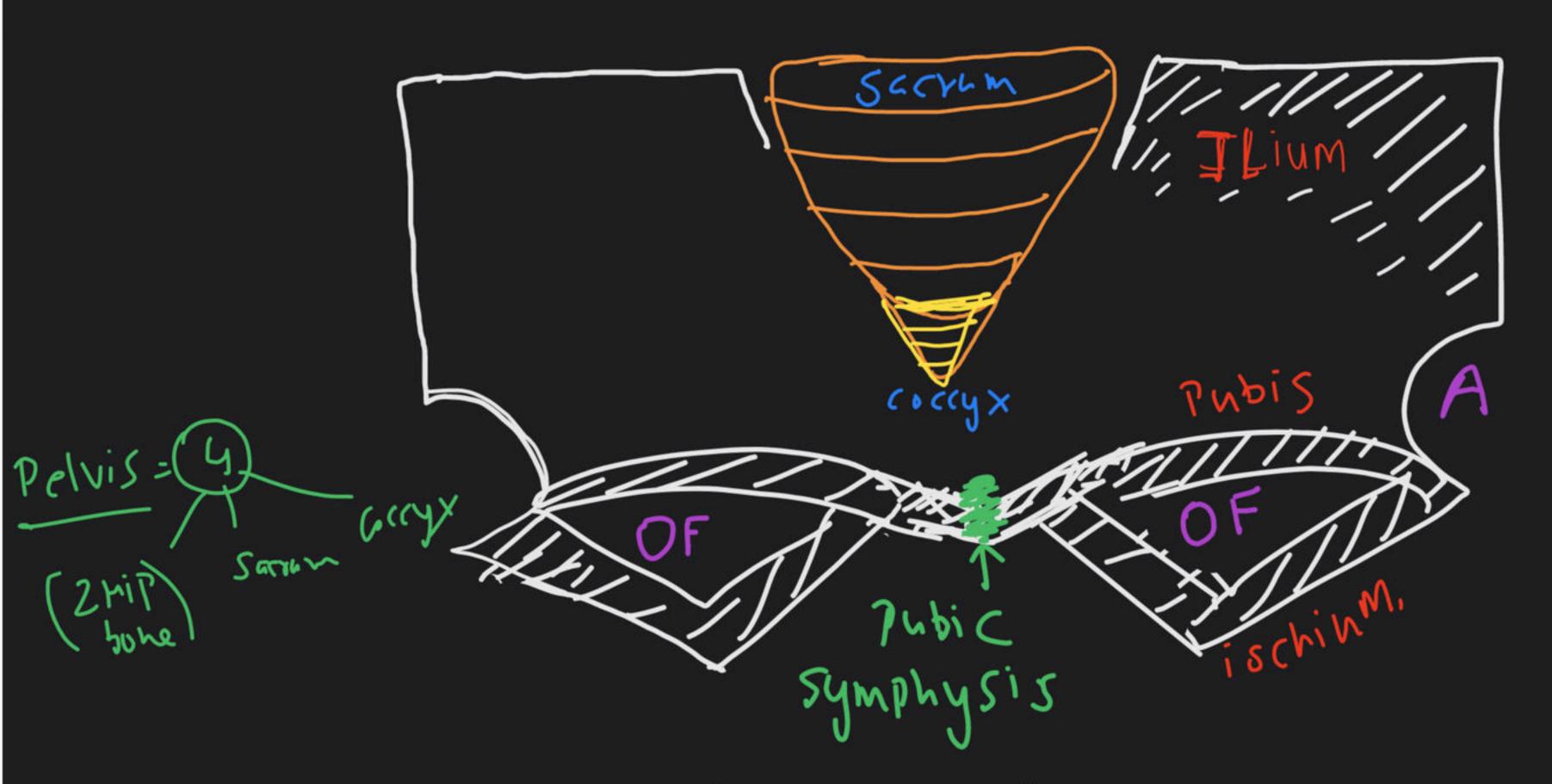
14 Phalanges, 2 for great toe & 3 each for other four toes.

As compared to Phalanges of hand these are small in size.

Digital formula = 23333



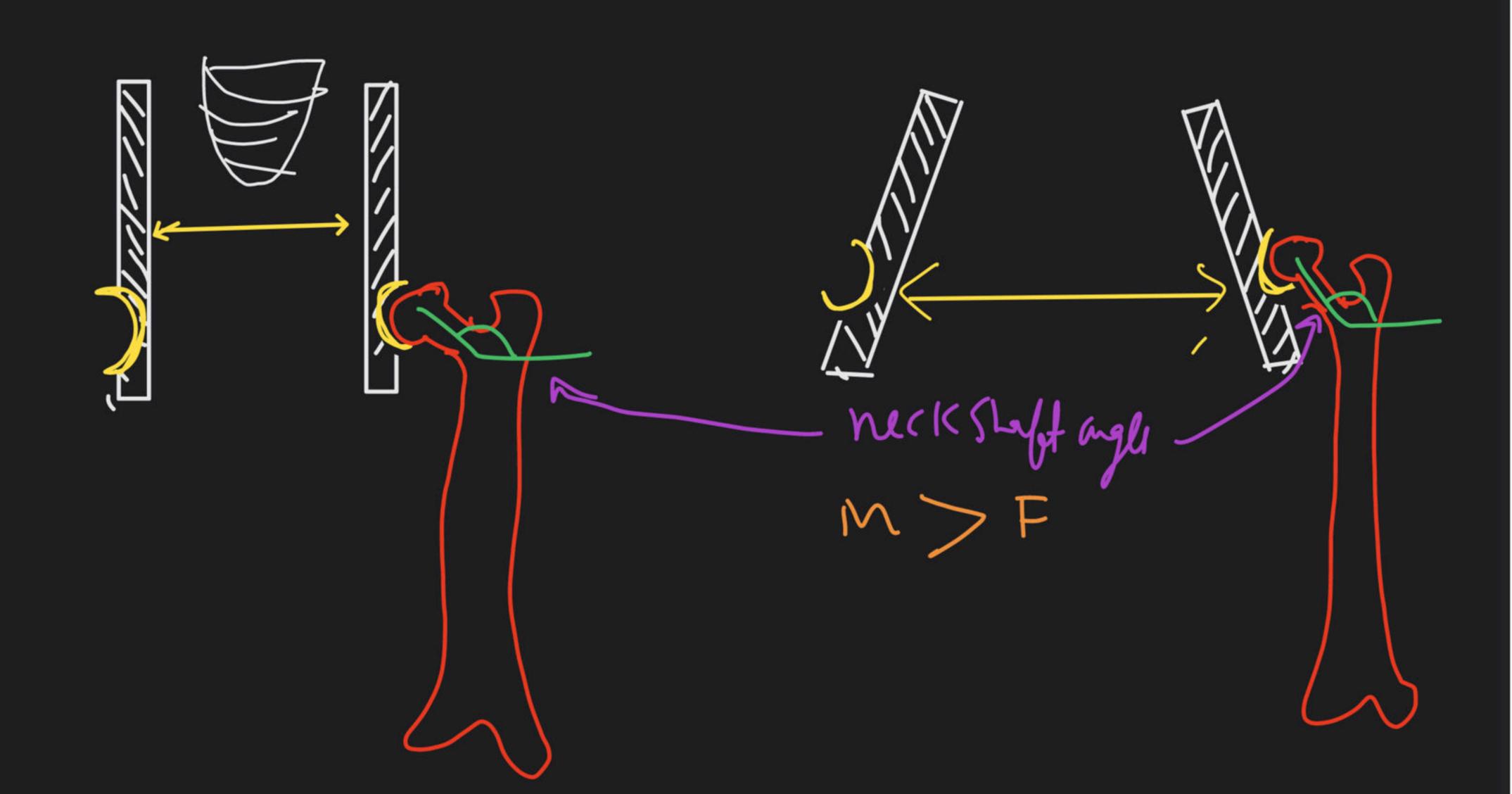
Endoskeleton Framework of Man

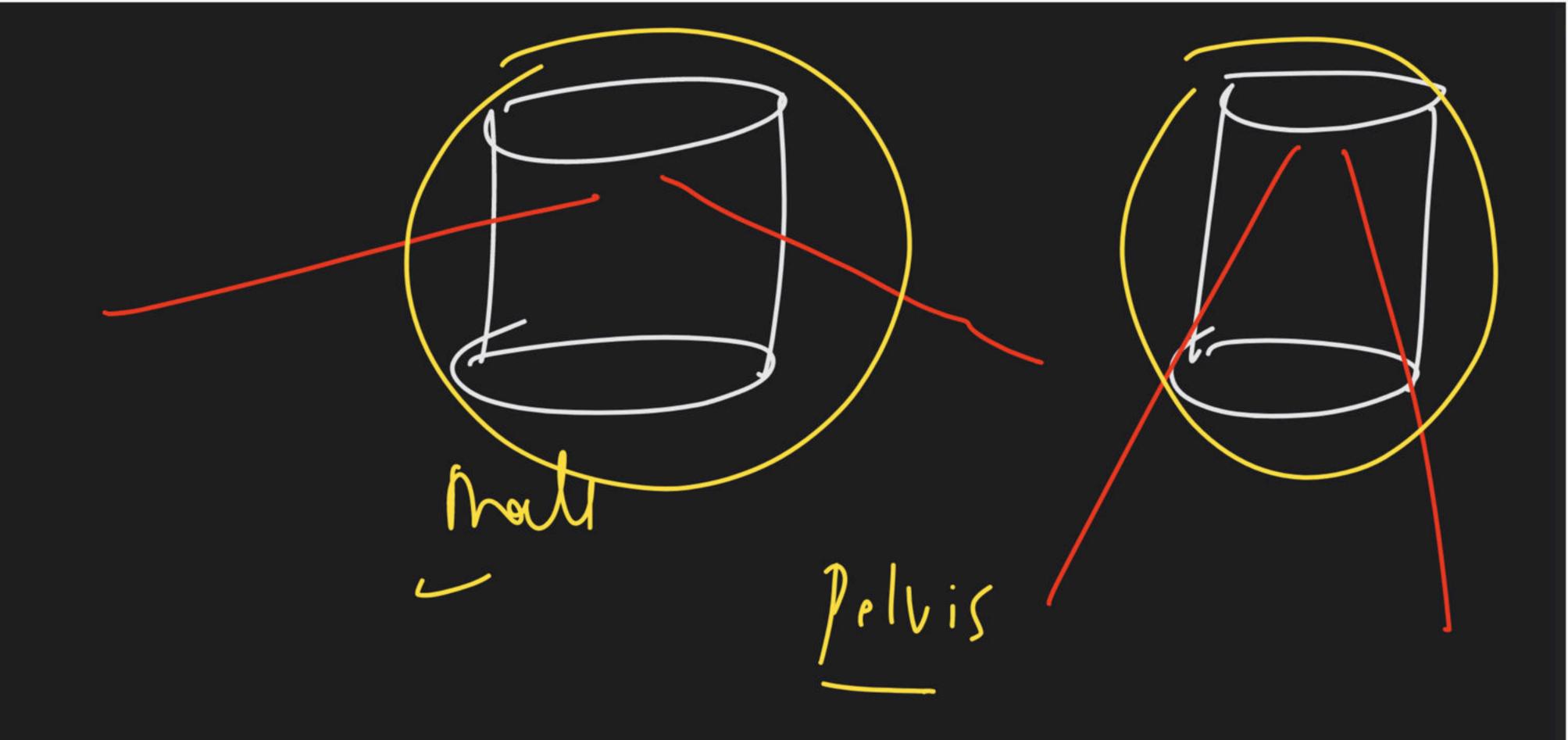


tip Bone = Innominate / Coxal bone obturator foramen = only mammals.

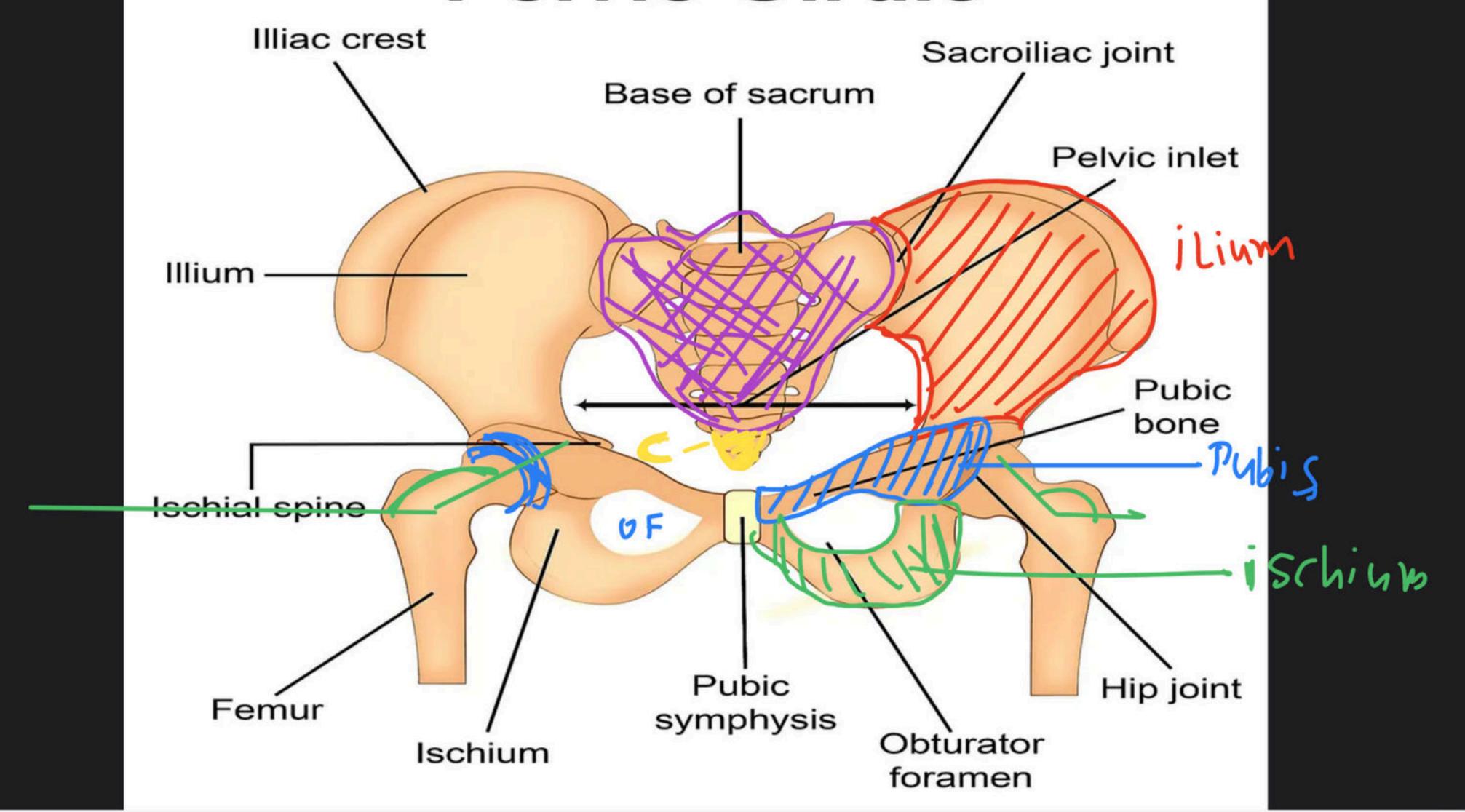
nternal Diameter of Pelvic F>M.

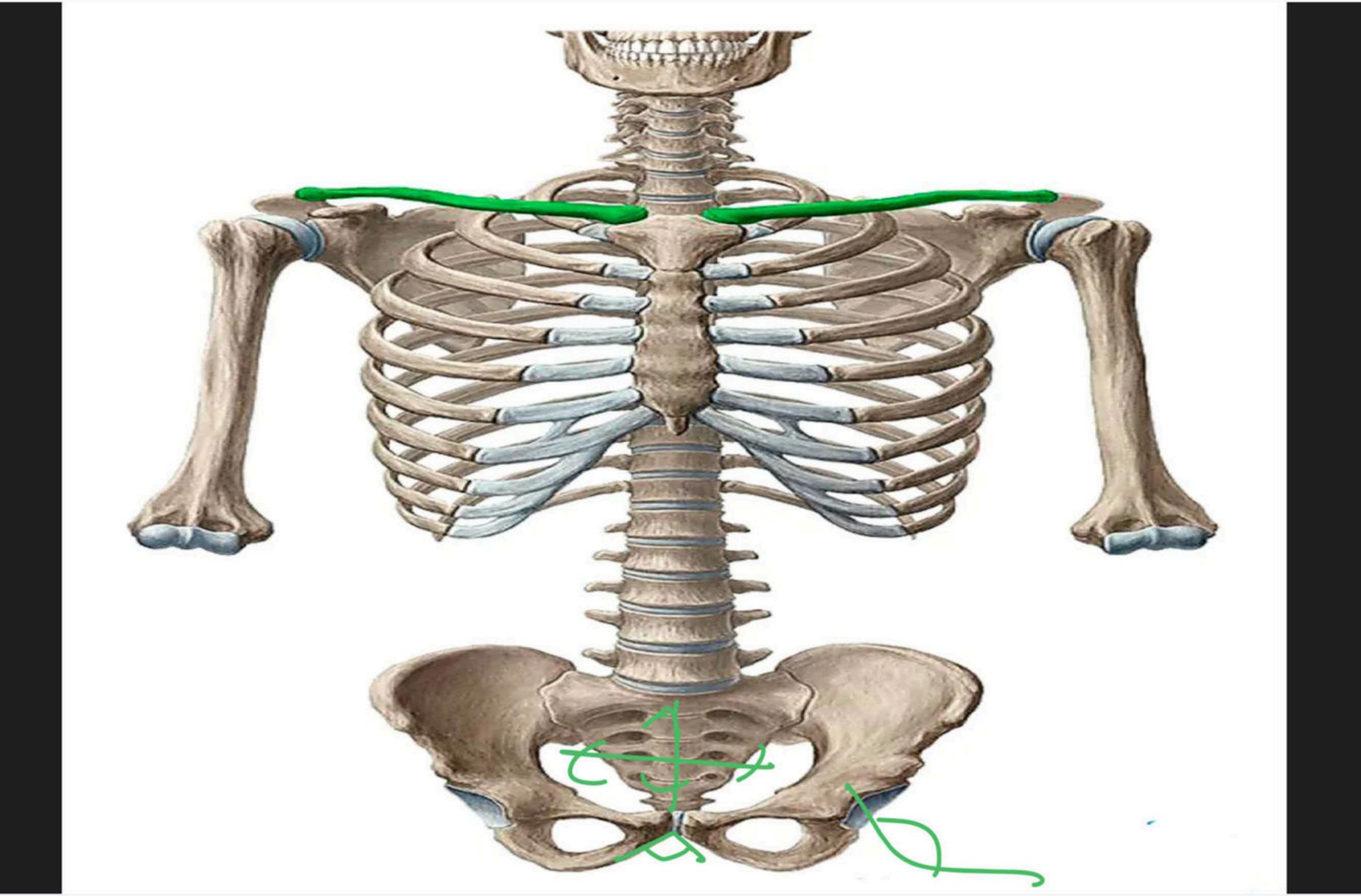
Each Pelvic Girdle (I) Hipborn.



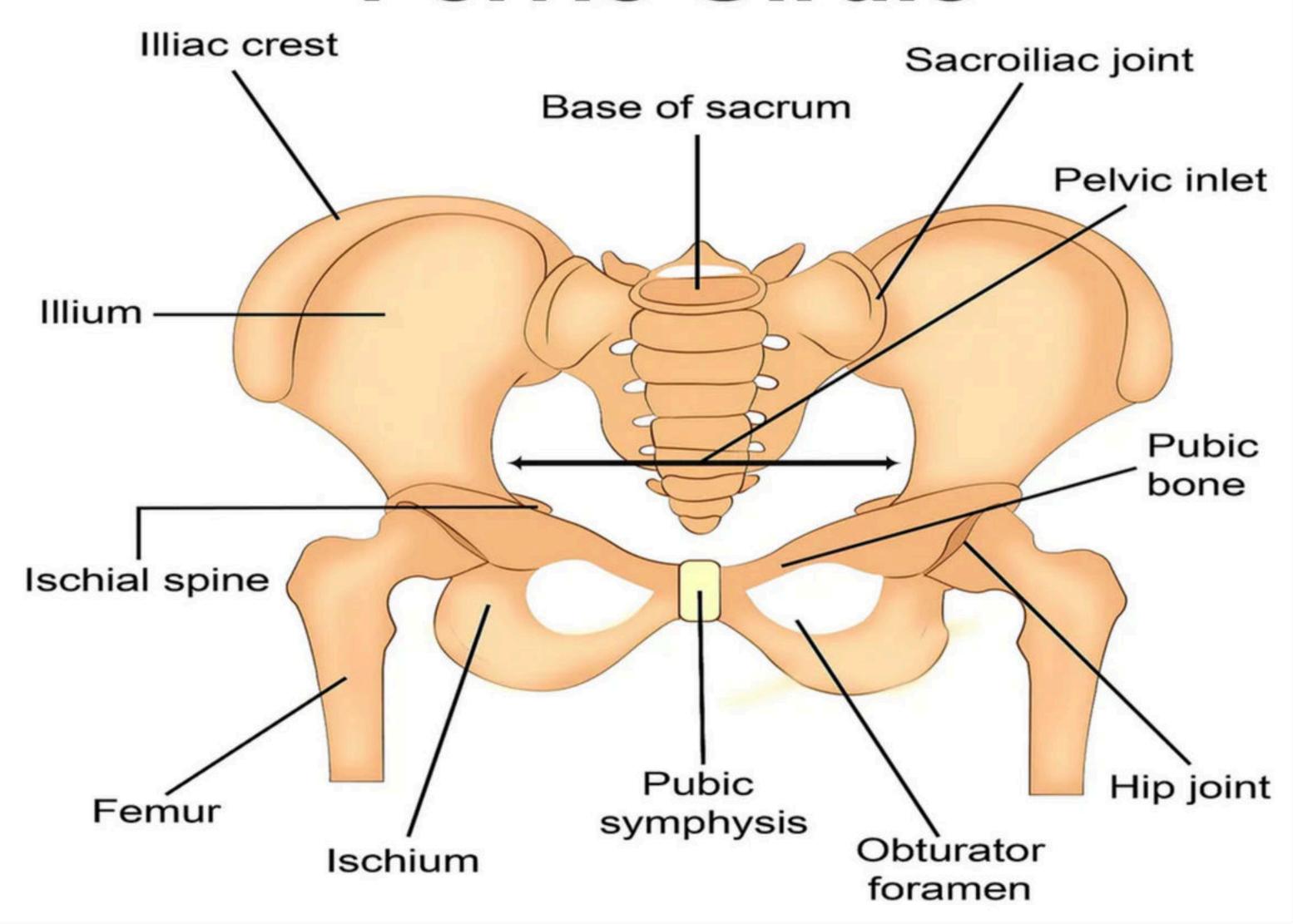


Pelvic Girdle

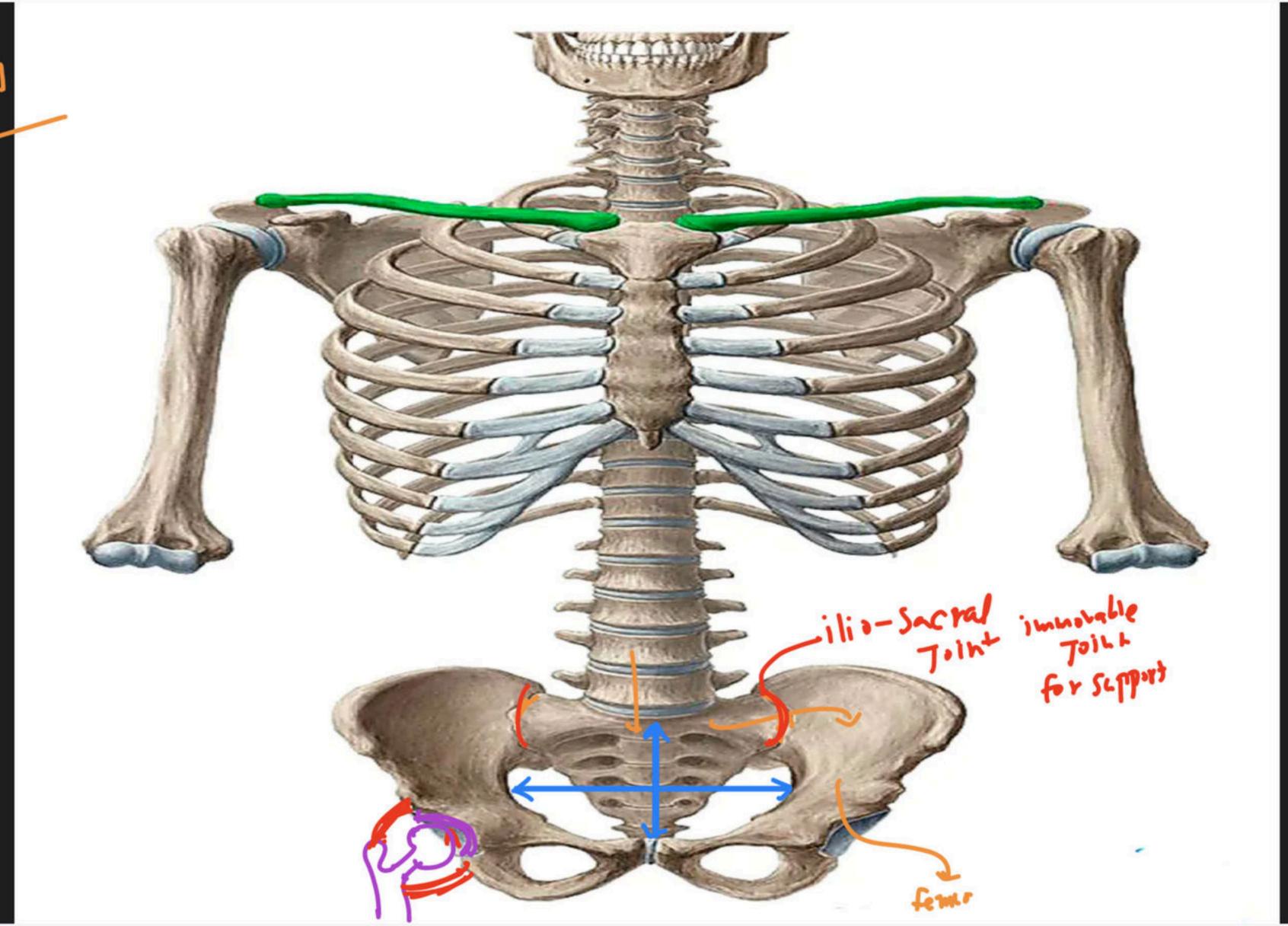




Pelvic Girdle



5MJ Assi



BONES OF HIND LIMB

Total number of bones in each hind limb: 30

Thigh bone: Femur – 1

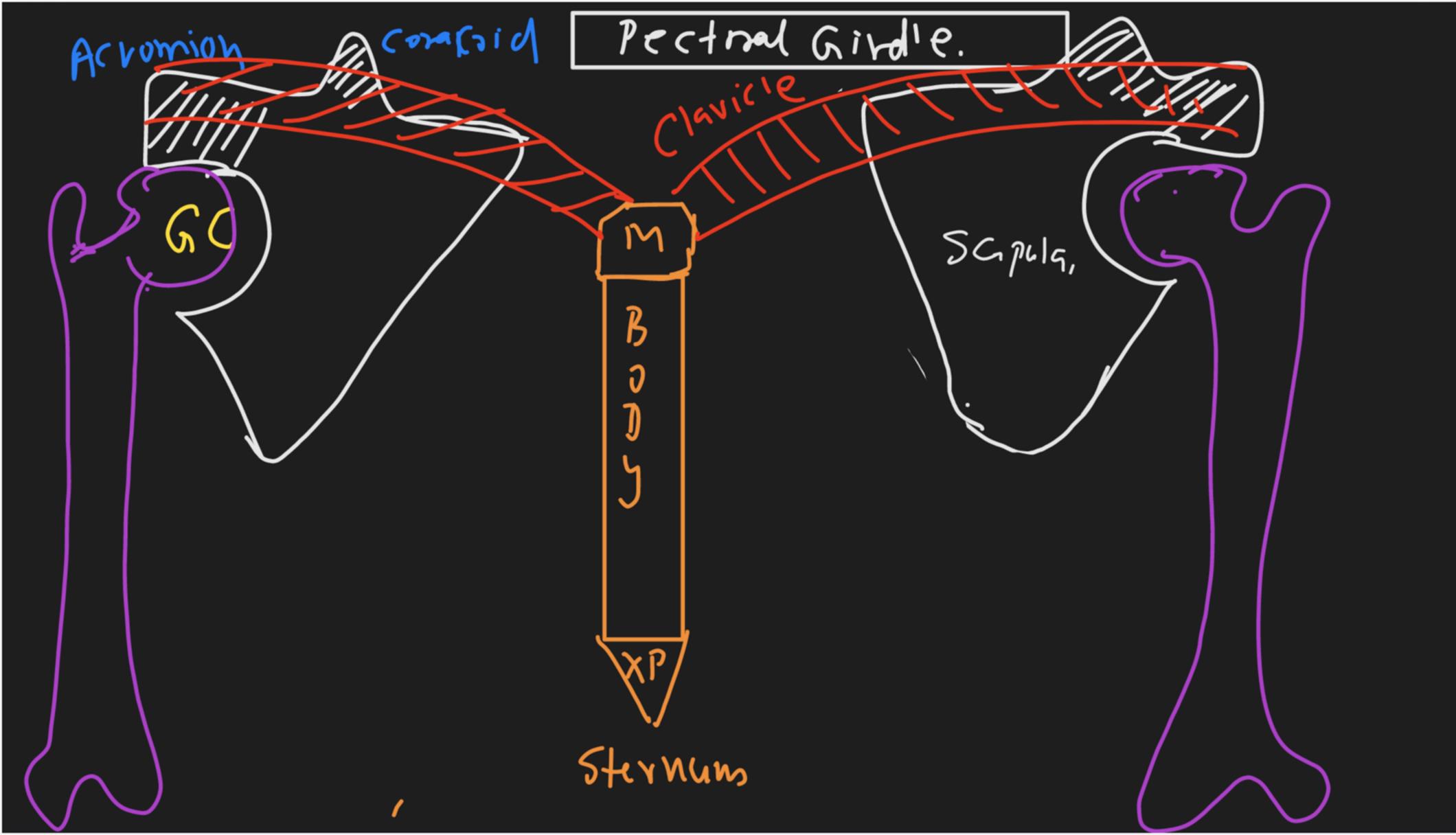
Knee bone: Patella – 1

Shank region – Tibia and tibula – 2

Ankle region Tarsals – 7

Sole: Melatarsals – 5

Toes: Phalanges – 14



PECTORAL GIRDLE

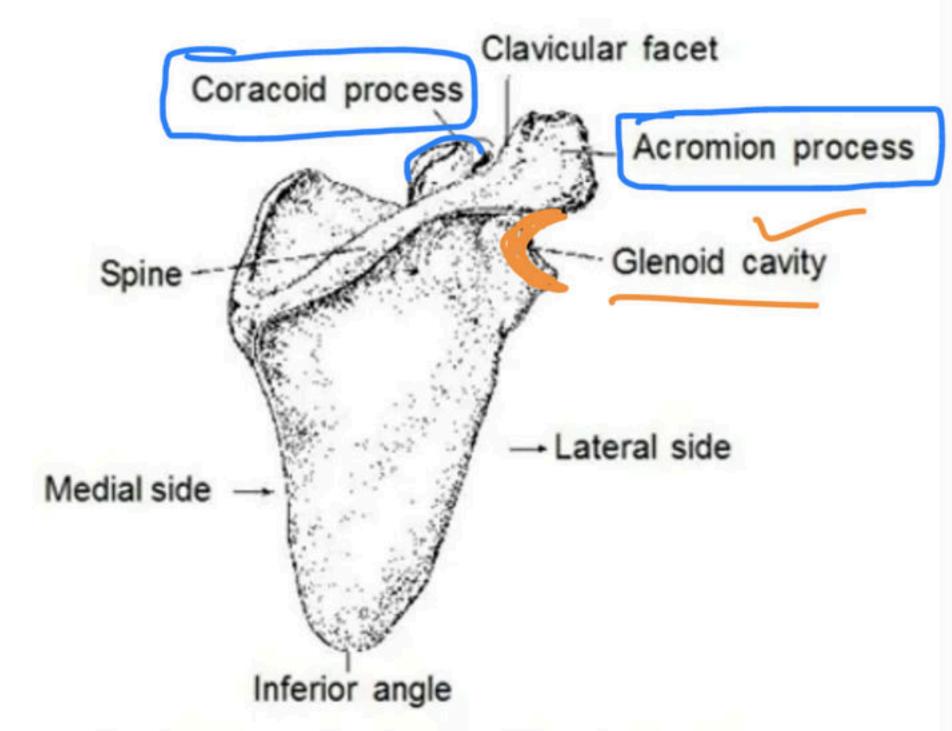
Pectoral girdle: Each pectoral girdle consists of two bones i.e.

Scapula + Clavicle

Scapula has 3 process which provide attachment to muscles

- Spinous process
- Acromion process
- Coracoid process

It also has a glenoid cavity to accomodate head of Humerus.



Right scapula from dorsal aspect

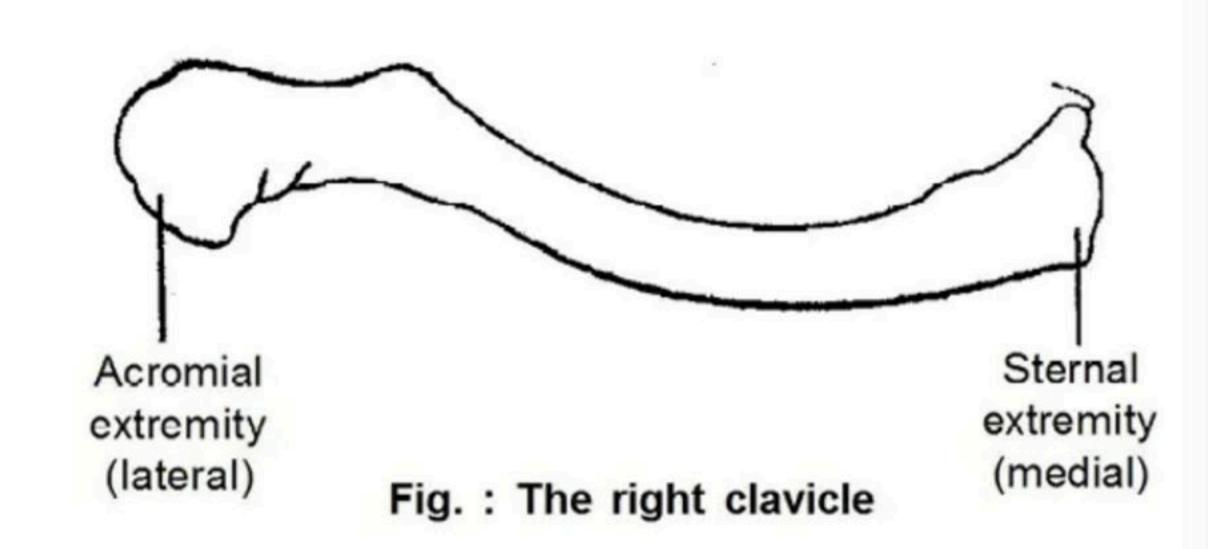
 Clavicle (Collar Bone): is a weak, thin, cylindrical bone.

Medial End:

Articulates with the manubrium.

Lateral End:

articulates with acromion process of scapula.



STERNUM

It is 15 cm long flat bone. It is divided into three segments – Manubrium, body and xiphoid process.

Upper part Manubrium:

Quadrilateral shaped. Its lateral border joints with first rib pair.

In its clavicular notch, medial end of clavicle bone articulates.

Body (Middle part)

Its lateral border. forms joint with 2nd rib to 7th rib

Lower part Xiphoid process: Smallest part, lower half of 7th rib articulates here.

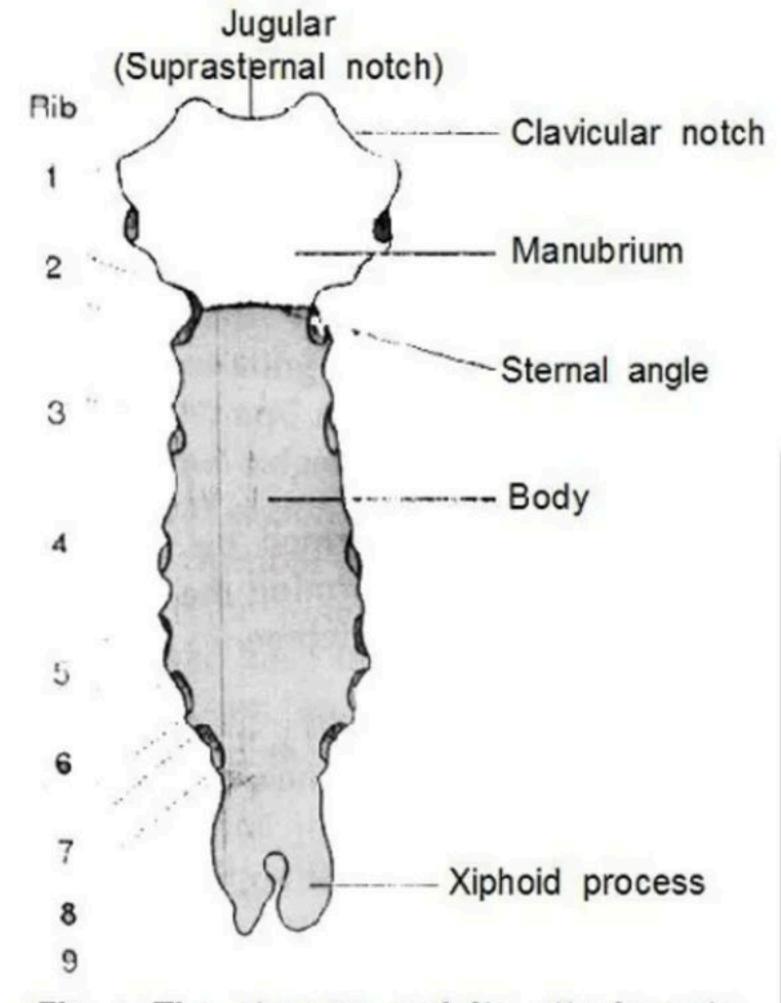


Fig. : The sternum and its attachments

