Study of joints, ligaments, blood vessels, nerves and lymph nodes of hind limb.

Joints:-1.Sacroiliac articulation:-

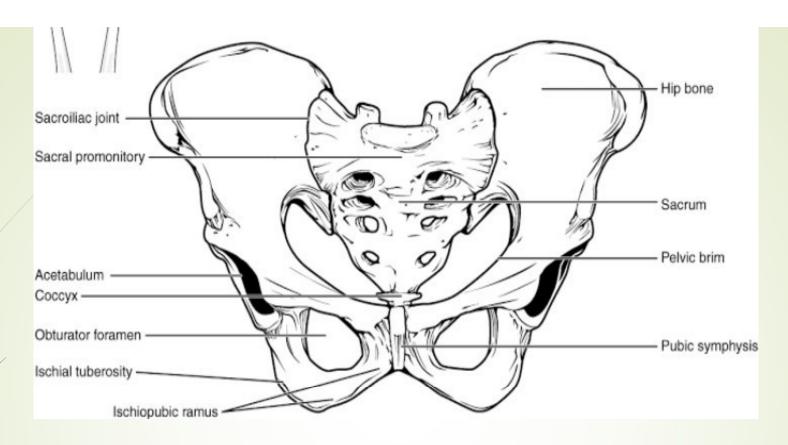
Type:-Amphiarthrosis.

Movement:-Restricted in young on and not appreciable in adults.

Bones involved:-Articular surface of wings of sacrum and articular surface of ilium.

Ligaments:-a)Capsular ligament.

b)Accesory ligament.

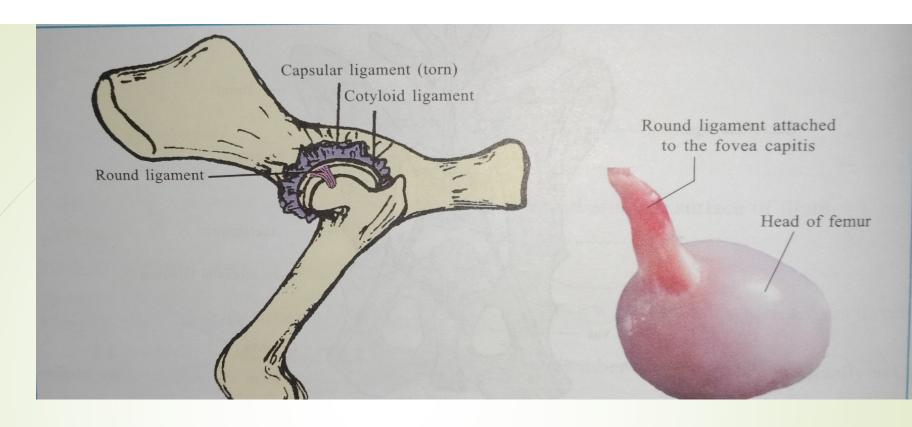


2.Hip joint:-Type:-Ball and socket joint.

Movement:-Polyaxial.

Bones involved:-Cotyloid cavity of os coxae and head of femur.

Ligaments:-Capsular, Round, Cotyloid ligament, and Acessory ligaments.



 3.Stifle joint:-Includes two articulations:i)Femoro-patellar joint:-Type:-Gliding.

Movement:-Translation.

Bones involved:-Trochlea of femur and articular surface of patella.

Ligaments:-Capsular,Lateral collateral,Medial collaletral, and Patellar ligaments.

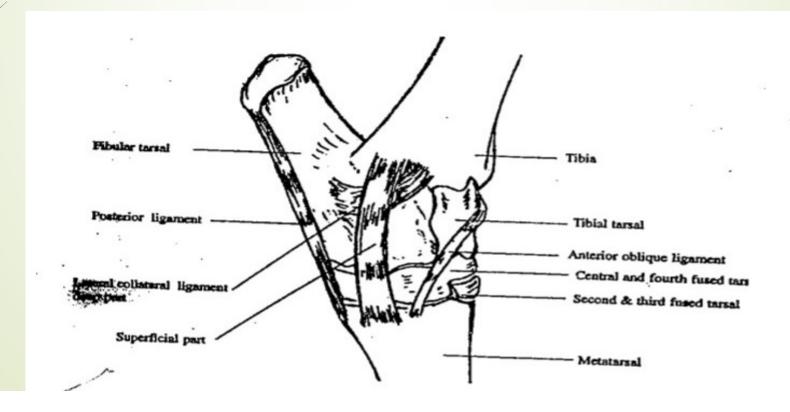
4. Hock joint:-Consists of :-a) Tibiotasral articulation.

b)Intertarsal articulation.

c)Tarsometatarsal articulation.

Movement:-Extension, flexion and Gliding.

Ligaments:-Capsular, Medial Collateral, Lateral Collateral, Anterior Oblique and Posterior ligament.



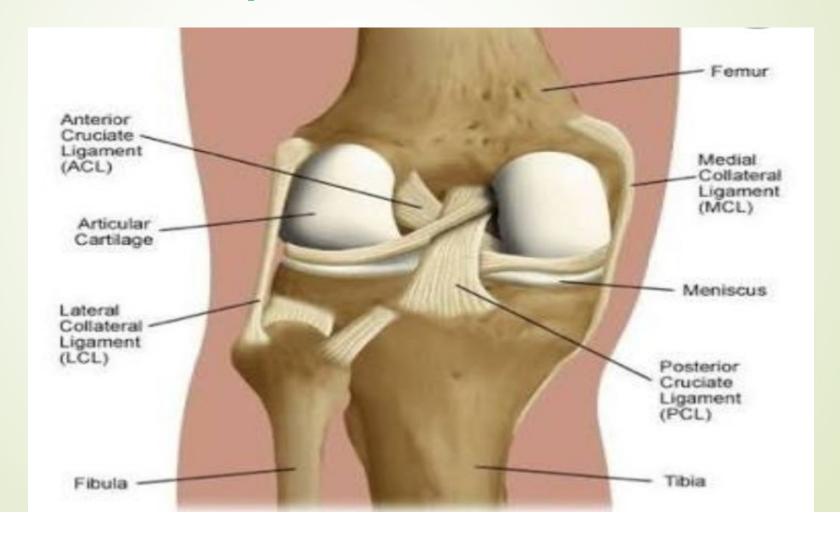
Ligaments:-Cranial and Caudal Cruciate Ligaments:-These are the ligaments in intercondyloid fossa of femur in between two synovial sacs.

Cranial:-Connects the lateral femoral condyle to the central intercondylar area of the tibia.

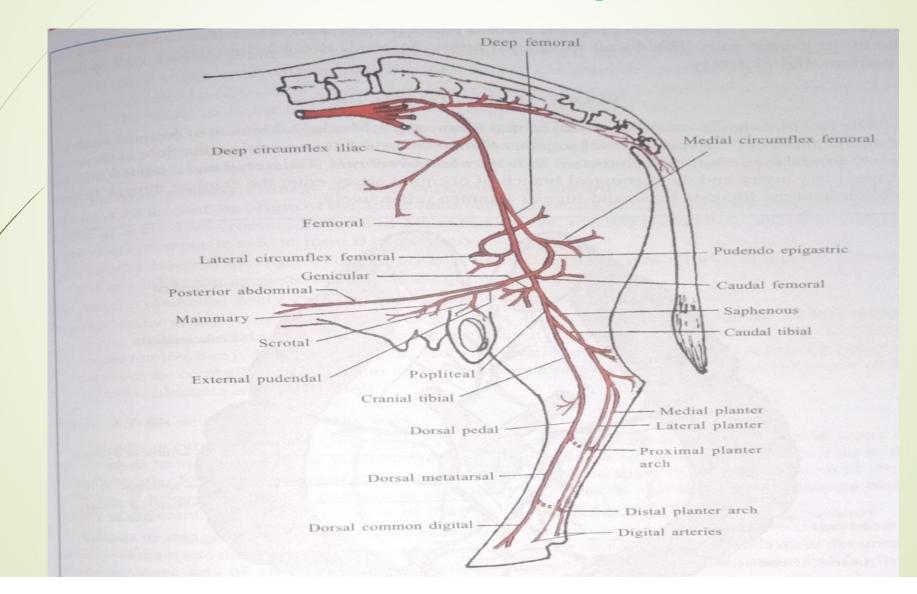
Tough band of tissue connects two main bones of knee joint.

- Caudal:-Connects the medial femoral condyle to the popliteal notch of tibia.
- Provides rotational stability to joints.
- Keeps thighbone from slipping back.

Cranial cruciate ligament:-Maintains forward stability of tibia.
Caudal cruciate ligament:-Maintains backward stability of tibia.

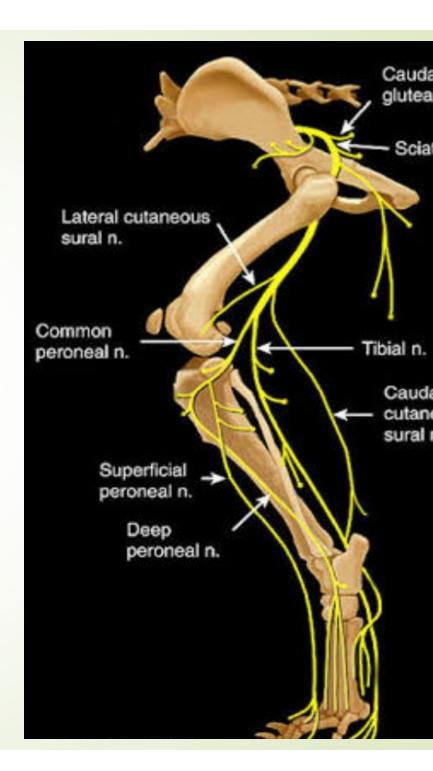


Blood supply:-The external iliac artery is the main principal artery of hind limb. It branches from aorta runs along the ilial body.



- It gives off following branches:-
- 1.Deep circumflex iliac artery:-origin from abdominal aorta.
- 2.Deep femoral artery:-originates from ventral margin of pelvic inlet.
 - 3.Lateral circumflex femoral artery:-also known as anterior femoral artery.
 - 4.Saphenous artery:-originates from middle of thigh.
 - 5.Genicular artery:-arises from distal third of thigh.
 - 6.Caudal femoral artery:-originates from femoral artery just below stifle joint.

- Nerves :-Major nerves of hind limb includes:-
 - 1.Femoral nerve.
 - 2. Obturator nerve.
 - 3.Sciatic nerve and it's branches:a)tibial nerve.
 - b)common femoral nerves
 - the common peroneal and tibial nerves on the dorsal and plantar sides of the hind limb.



It also identifies the major blood supply to the foot.

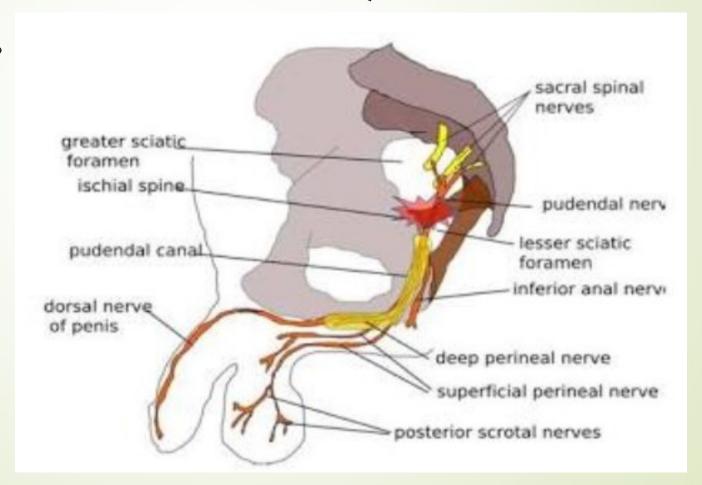
The dorsal metatarsal artery III carries blood to the dorsal aspect of the foot, and the plantar common digital artery III off the saphenous artery to the plantar aspect. There is clinical importance of the superficial veins, especially the branches of the lateral saphenous.

The external iliac artery provides the main blood supply to the legs. It passes down along the brim of the pelvis and gives off two large branches - the "inferior epigastric artery" and a "deep circumflex artery."

These vessels supply blood to the muscles and skin in the lower abdominal wall.

Branches: femoral arteries, inferior

epigastric.



 Lymph nodes:-The popliteal lymph nodes are relatively small in size.

They are embedded in the popliteal fat.

One lies just deep to the popliteal fascia and drains the saphenous vein territory e.g. the superficial regions of the lateral leg and the sole of the foot.

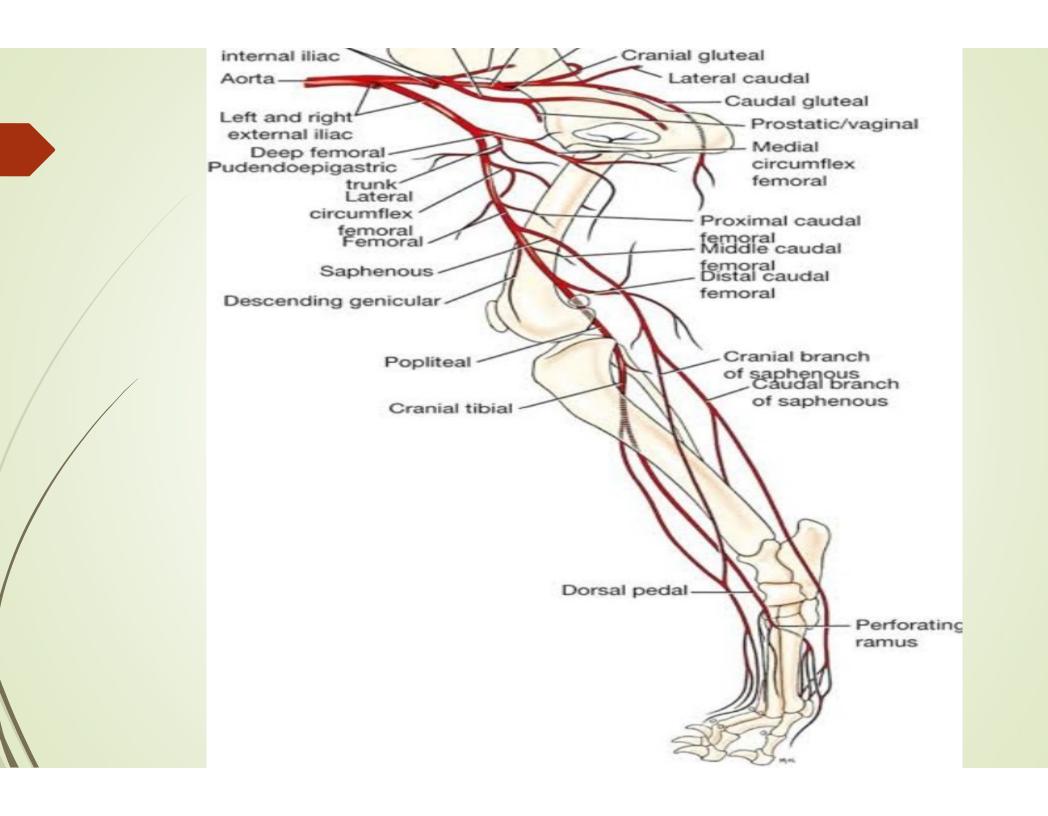
A second node lies near the popliteal artery.

- Superficial
- These are present in a T shape. There is a horizontal part of the T shape, and a vertical part of the T shape arranged along the greater saphenous vein.

The T shape is divided into medial, lateral and vertical groups.

They drain back lymph from the following areas:-

below the level of the iliac crest the buttock (lateral group) the lower abdominal wall perineum anal canal scrotal skin penis (medial group) entire lower limb (vertical group



Deep These lie medial to the femoral vein and drain the following areas:glans penis/clitoris superficial inguinal nodes. deep lymphatics that follow the femoral vessels They drain into the external iliac lymph nodes.

Thank You!!!

