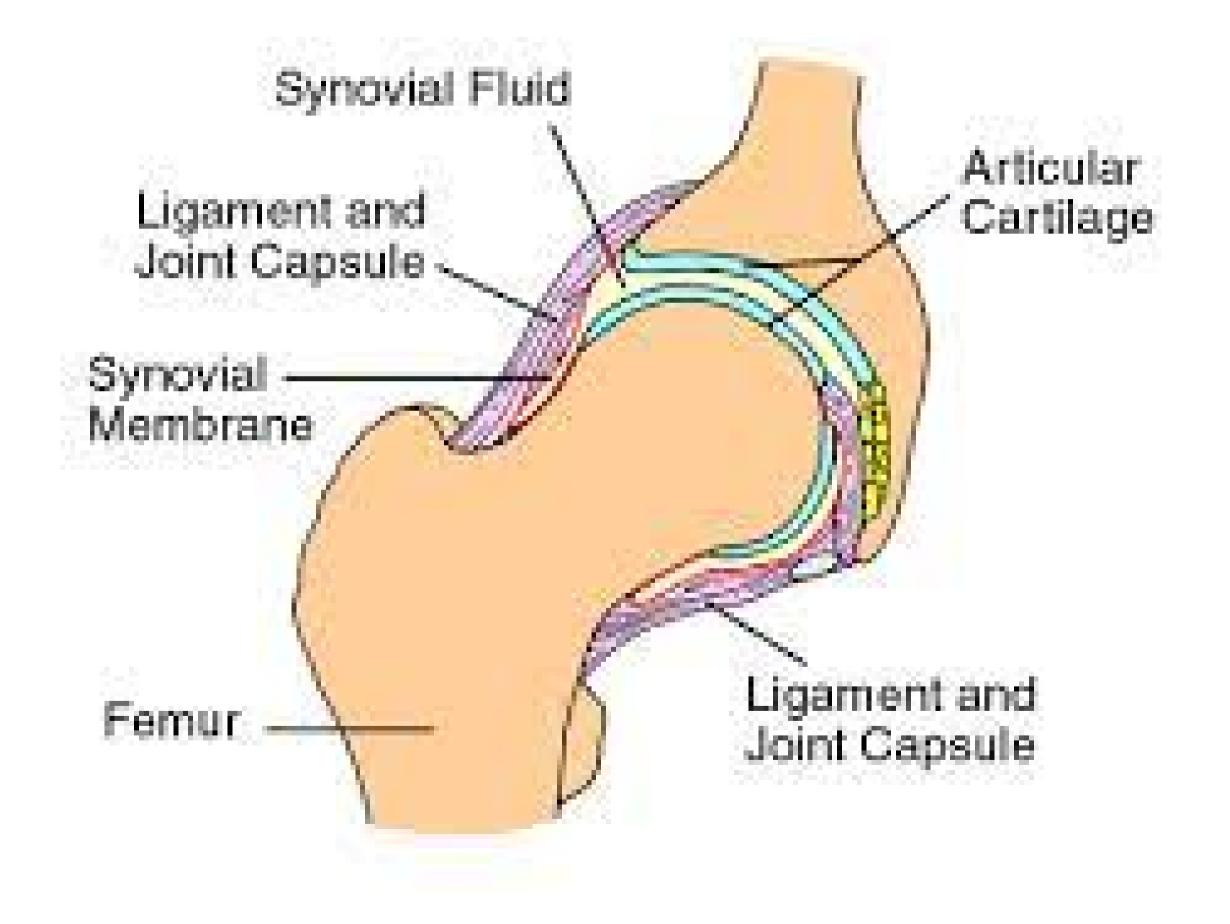
HIP JOINT

Hip joint

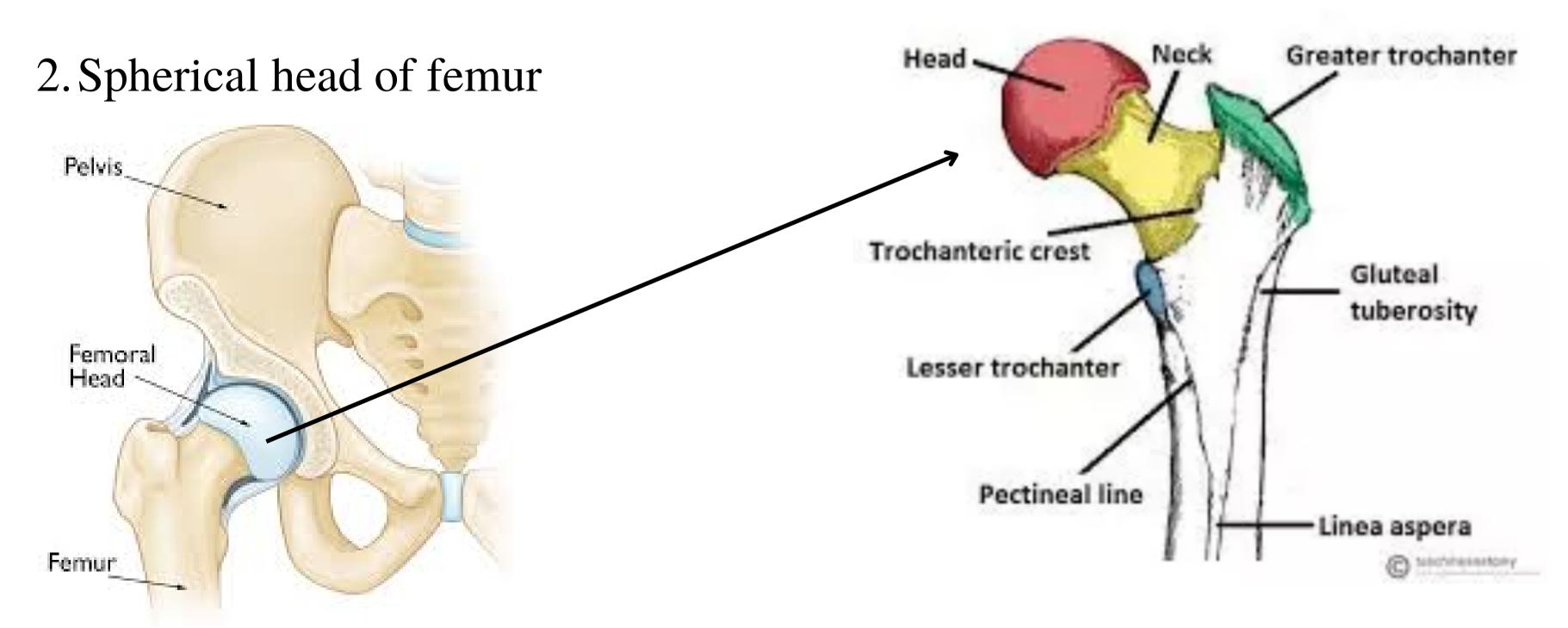
- It is the largest joint of the human body.
- 2nd largest weight bearing joint of human body.
- Hip joint is a synovial articulation between head of femur and acetabulum.
- TYPES: Multiaxial ball and socket type of synovial joint
- Hip joint is designed for stability over a wide range of movements
- Descriptive planes:
- Flexion /extension : sagittal plane
- Abduction/adduction:frontal plane
- Medial/lateral rotation :transverse plane (circumduction)

Hip Joint



ARTICULAR SURFACES OF HIP

1. lunate surface of the acetabulum

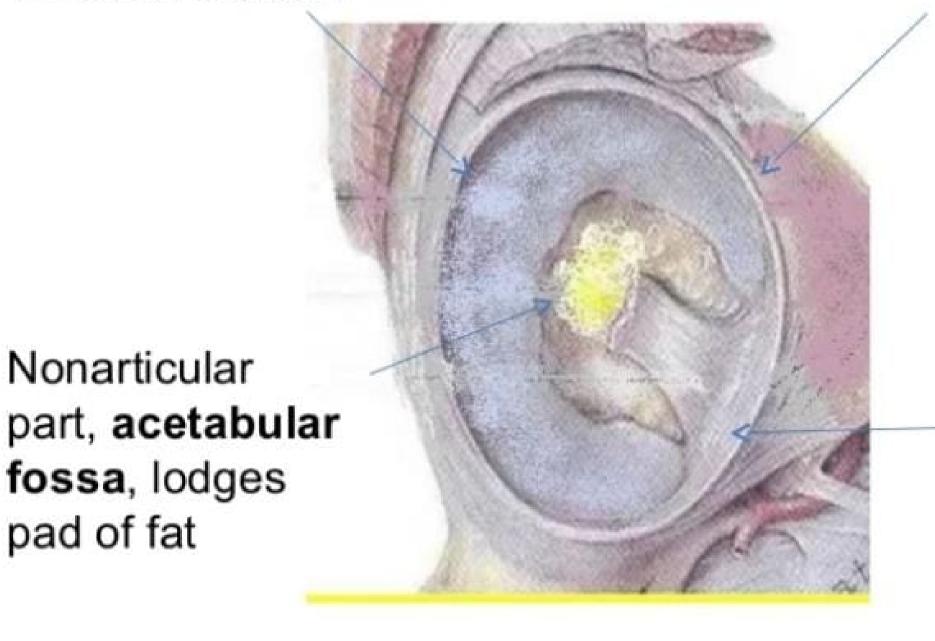


Acetabulum

Horse-shoe shaped articular surface

Nonarticular

pad of fat



Deepened by fibro-cartilaginous rim called acetabular labrum

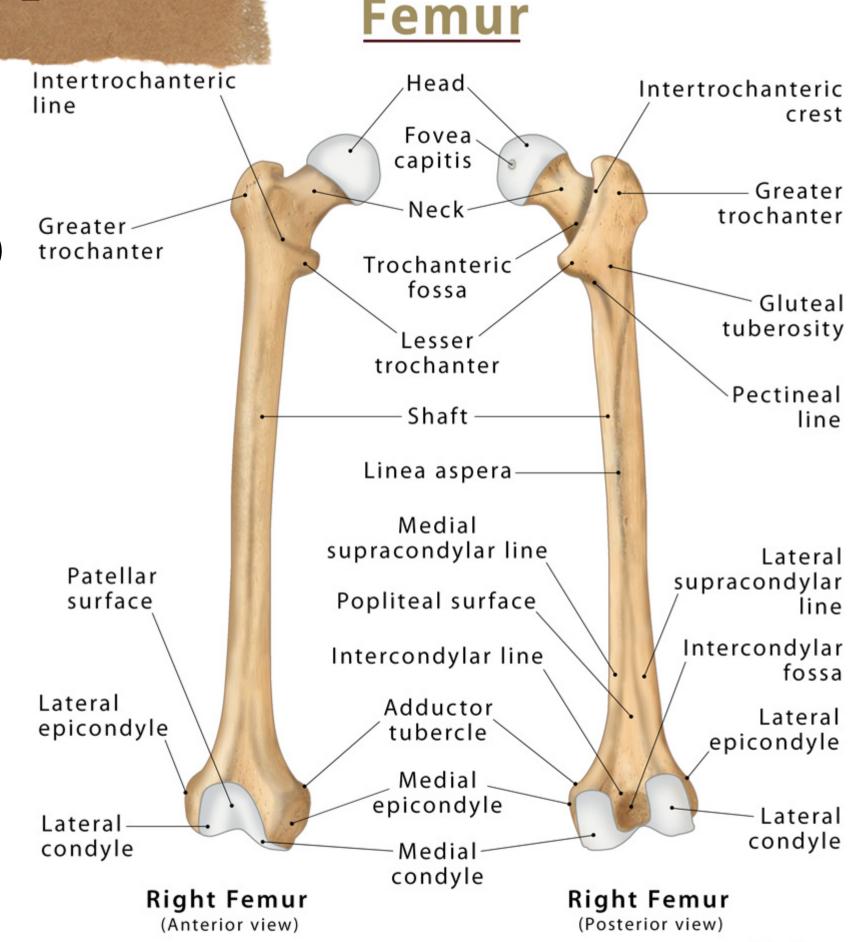
> Deficient inferiorly as the acetabular notch that is bridged up by transverse acetabular ligament

Acetabulum

- Acetabulum is the depression or fossa where the femoral head articulates. Its positioned in downward and outward direction
- The rim of acetabulum is raised slightly by a fibro cartilaginous collar known as acetabulum labrum. Inferiorly the labrum bridges across the acetabulum notch as the transverse acetabulum ligament and converts the notch into foramen.
- The lunate surface if the acetabulum is covered by hyaline cartilage except for fovea
- Acetabulum fossa is non articular. Formed mainly by ischium and contains loose connective tissue.

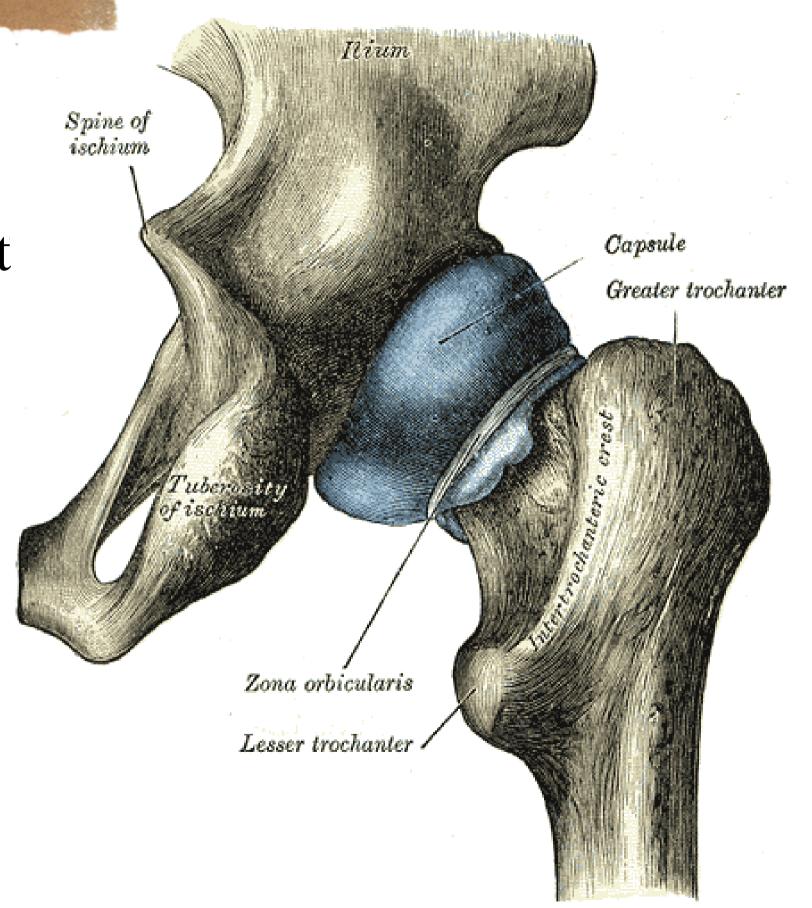
FEMUR

- Head of femur is globular and forms 2/3 of as sphere.
- Covered by hyaline cartilage(except fovea)
- The femur connect to the head via femoral neck
- The angle of inclination is approximately is 135deg
- The angle of anteversion or torsion is forward relationship of head and neck
- the angle of torsion is normally in the 12-15 deg



CAPSULE

- Strong, thick
- MEDIALLY :attached to margin of acetabulum, transverse acetabulum ligament and adjacent margin of obturator foramen
- LATERALLY: attached to intertrochantric line of femur. Just proximal to intertrochantric crest on posterior surface
- Femoral neck: intracapsular
- Greater and lesser trochanter: extracapsular



SYNOVIAL MEMBRANE

- Extensive synovial membrane within the capsule
- Lines the intracapsular portion of neck of femur and both surface of acetabulum labrum, transverse ligament and fat in acetabulum fossa.
- Forms a tubular covering around the ligament of head of ferum and lines the fibrous membrane of join

