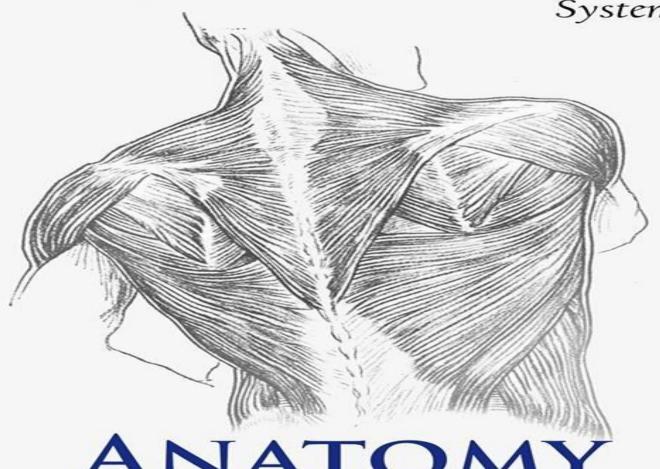


# The Skin and MUSCULOSKELETAL System



# ANATOMY

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SHEET DONE BY:

Number # 1- LAB, Bones of Gluteal Region

## BONES OF THE GLUTEAL REGION

#### THE HIP BONE

The hip bone is made of:

1-The ilium: superior in position-

2-The ischium:postero-inferior in position

3-The pubis: antero-inferior in position

#### Anatomical position of the hip bone

It is very important to understand the anatomical position of the hip bone,

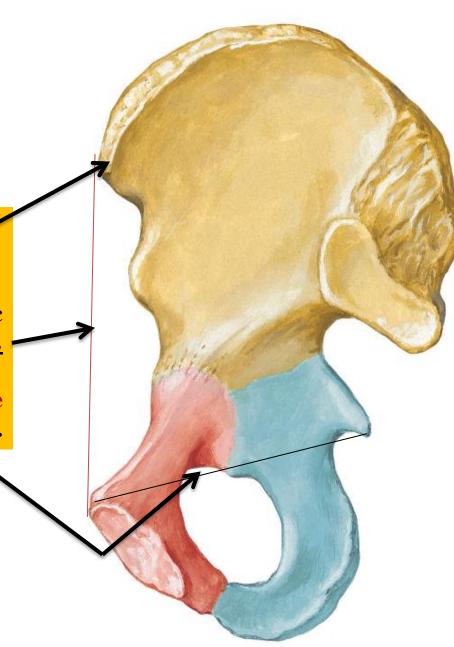
in anatomical position:

1-The Anterior superior iliac spine and the pubic tubercle lie in the <u>same vertical plane</u>.

2- The ischial spine and the upper border of the symphysis pubis lie in the <u>same horizontal plane</u>.

What does this mean?

Hip (Coxal) Bone Medial View



## The ilium, ischium and pubis

meet one another by means of

triradiate (Y-shaped)

cartilage at the Acetabulum.

While the inferior ramus of the

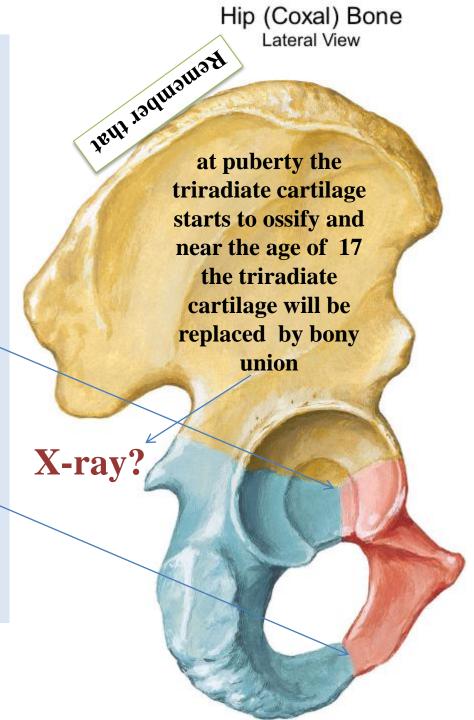
pubis meets with the ramus

of the ischium by

cartilaginous union

Ossifies near the age of 7 years

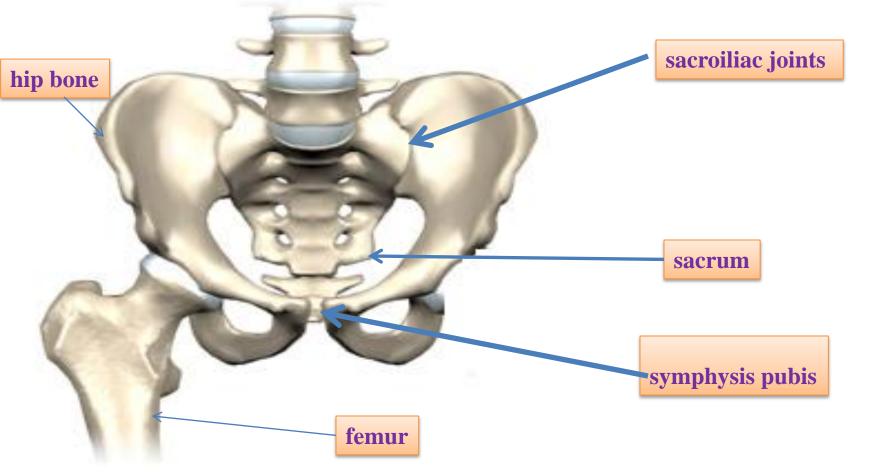
What is the idea here?

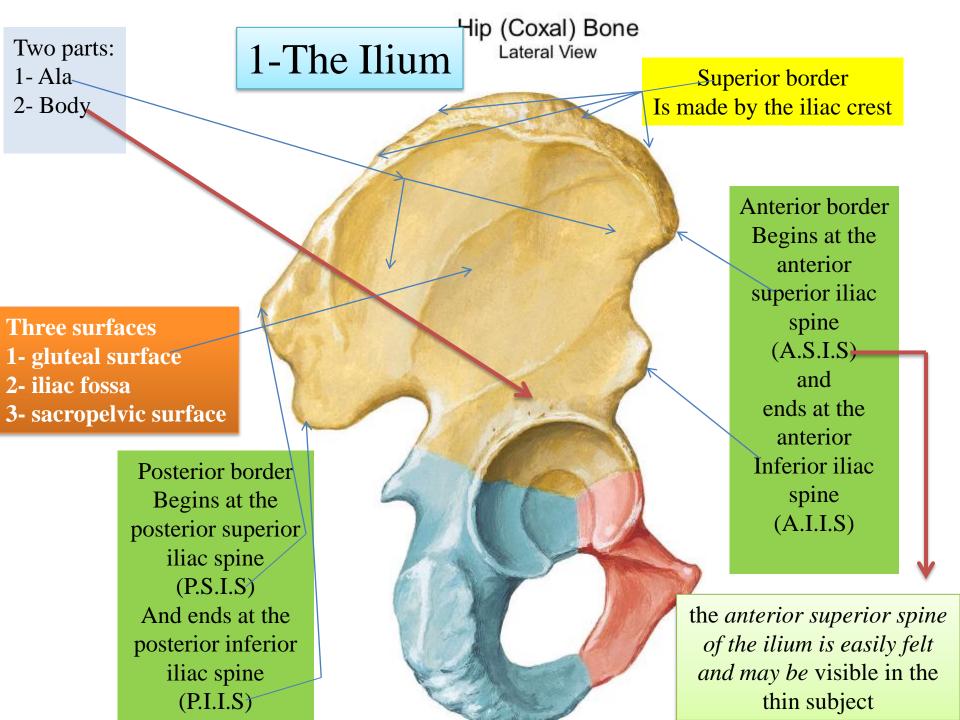


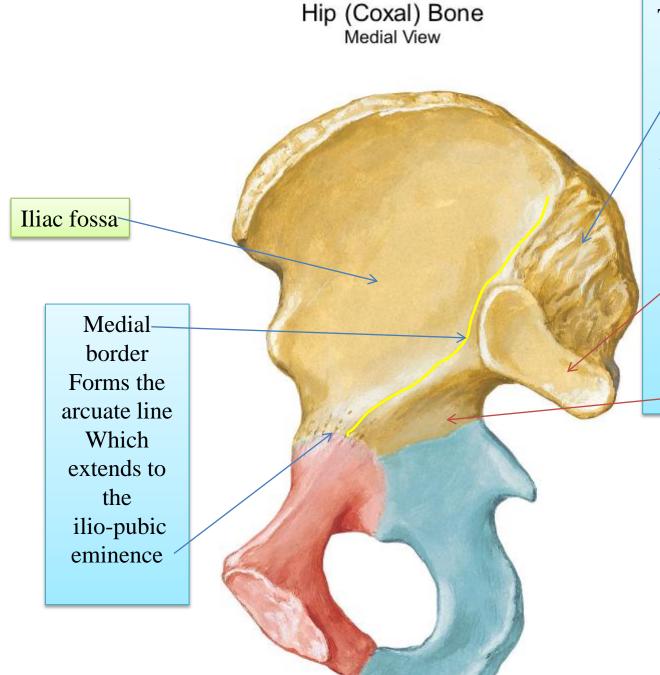
The hip bones articulate with the **sacrum** at the **sacroiliac joints posteriorly** while **anteriorly** they articulate with one another at the **symphysis pubis.** 



Thus the two hip bones form the <u>pelvic girdle</u> where the ilium corresponds to the scapula in the upper limb, the pubis corresponds to the clavicle while the ischium corresponds to the coracoid process







The sacropelvic surface presents:

1- Iliac tuberosity:

rough area that gives attachment to the interosseous and dorsal sacroiliac ligaments
2- auricular surface:

Smooth area articulates with the sacrum to form the sacroiliac joint
3- pelvic surface

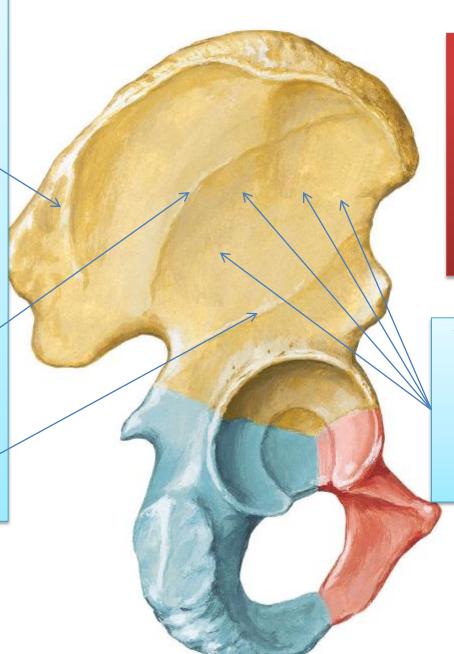
Smooth area

The gluteal surface is divided into 4 parts by three lines:

1- Posterior gluteal line

- 2- Middle gluteal line Or anterior
- 3- Inferior gluteal line

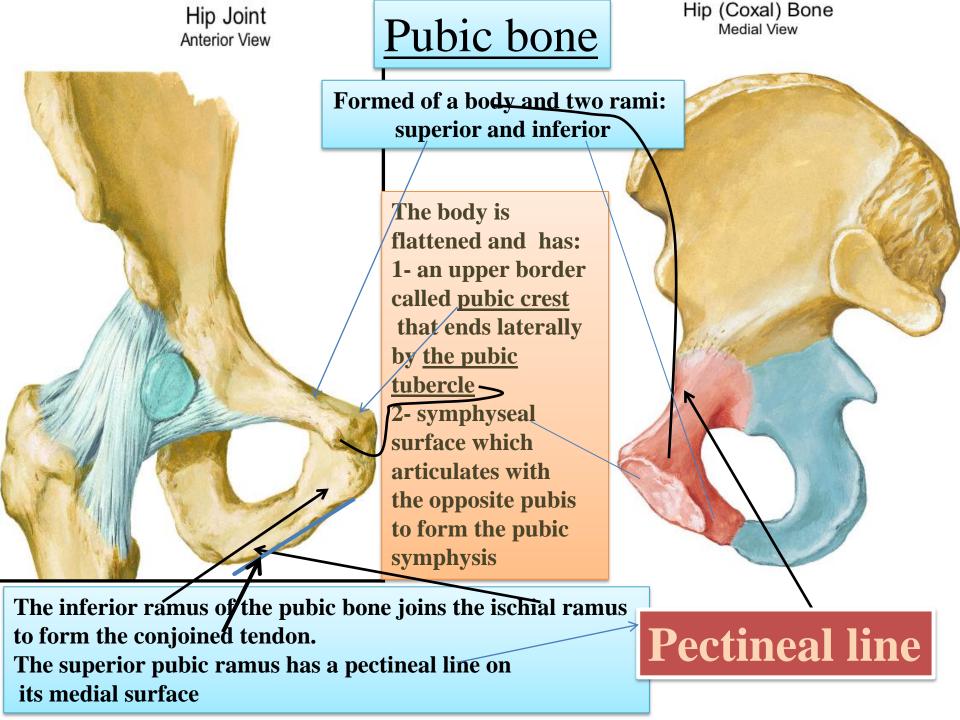
Hip (Coxal) Bone Lateral View

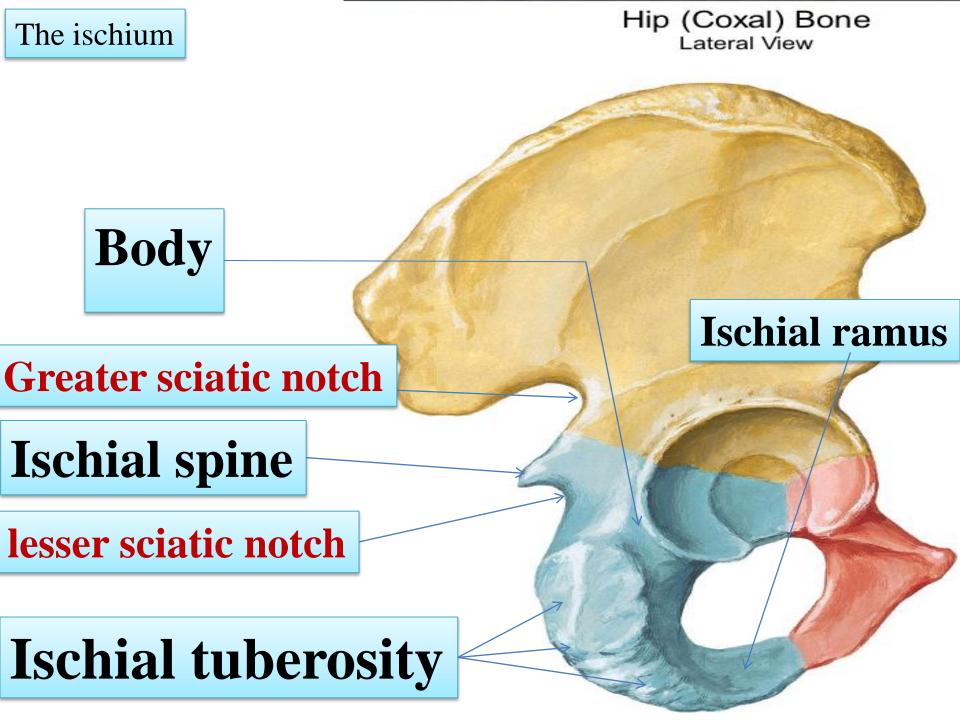


MAKE SURE
you know the
names of the
muscles
that are attached
to the areas
between these
lines



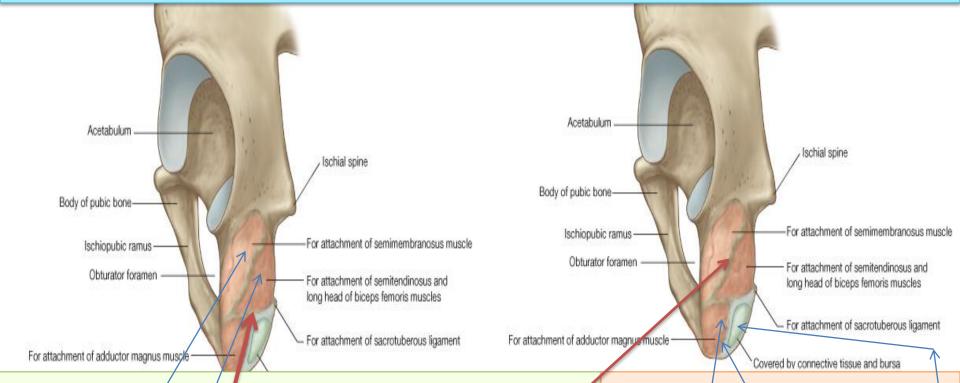
Which muscle is attached to the area between The inferior and middle gluteal lines?





The ischial tuberosity is covered by gluteus maximus when one stands.

**In the sitting position** the muscle slips away laterally .To palpate this bony point, therefore, feel for it uncovered by gluteus maximus in *the flexed position* of the hip.



## Ischial tuberosity

Divided by a transverse ridge into:

An upper quadrangular and a lower triangular parts

The upper quadrangular part is divided by an oblique ridge into:

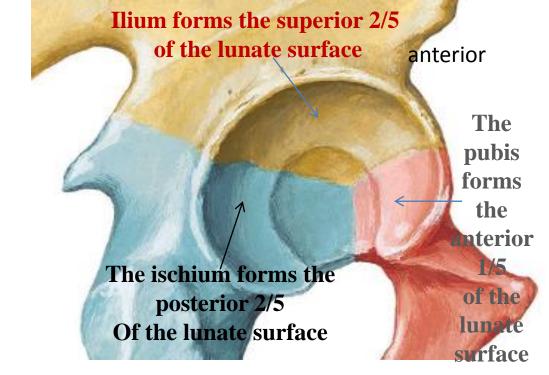
- 1-Upper lateral part for the attachment of semimembranousus
- 2- lower Medial for the attachment of semitendinosus and long head of biceps

The lower triangular part is divided by a longitudinal ridge into:

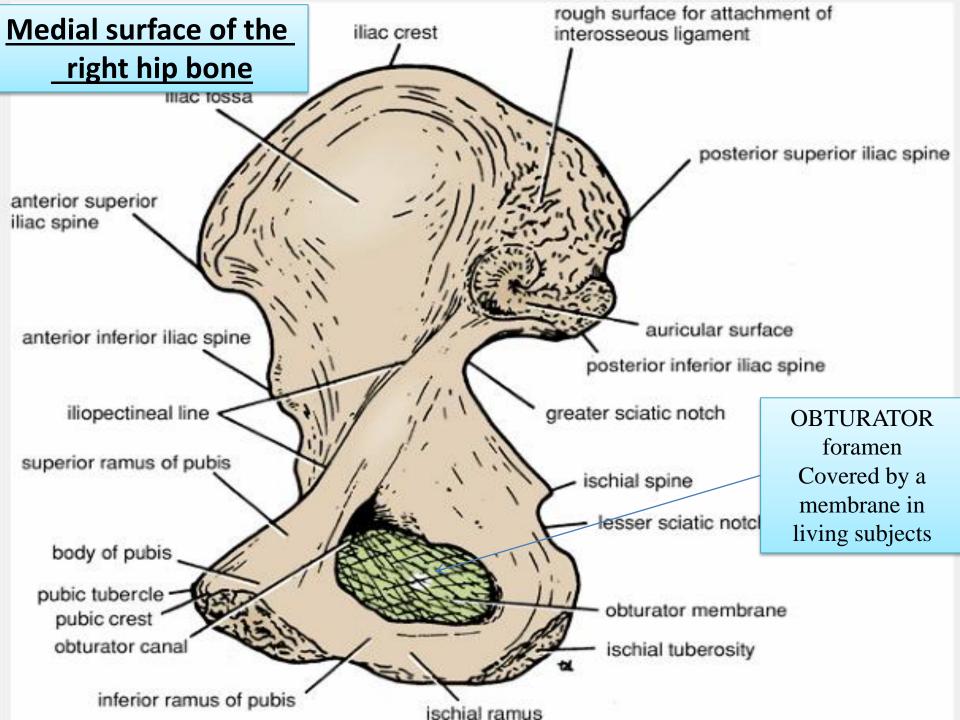
1-lateral part that gives attachment to the adductor part of the adductor magnus muscle 2-medial part (
subcutaneous part)

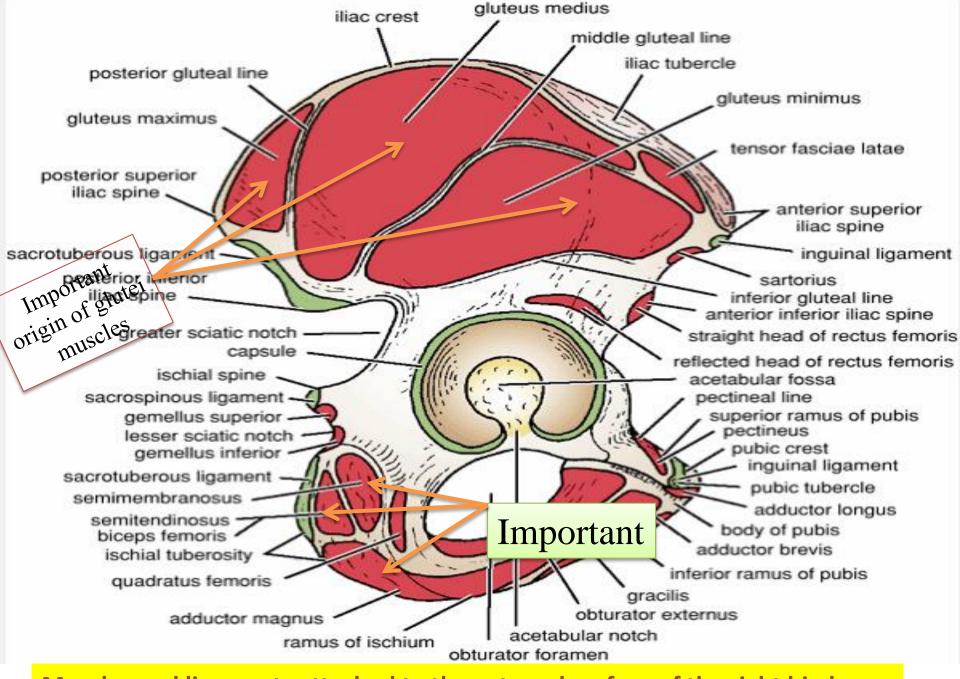
## The Acetabulum

- ➤It is a C-shaped cavity located on the lateral aspect of the hip bone
- directed <u>laterally</u>, <u>downwards and</u>
  <u>forwards</u>
- ➤ It is notched inferiorly by the acetabular notch which is bridged by the *transverse acetabular ligament* (part of the acetabular labrum)

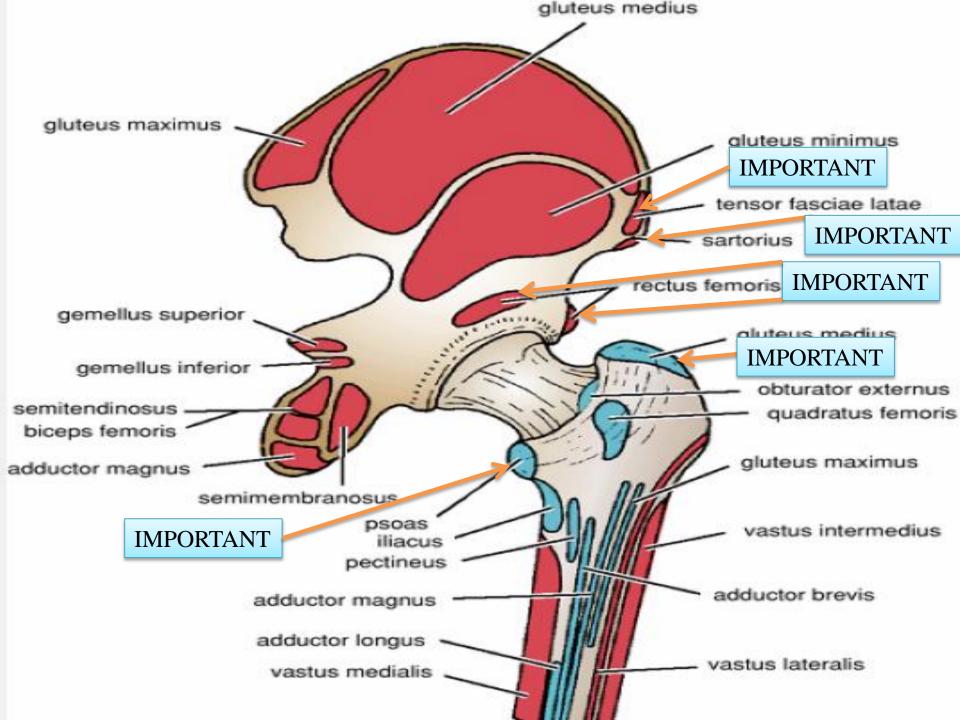


- The acetabular ligament converts the acetabular notch into foramen
- ➤ Its cavity presents a horse-shoe shaped articular surface called Lunate surface
- The Lunate surface surrounds a non articular depression called <u>acetabular fossa</u> which is occupied by fat tissue in living





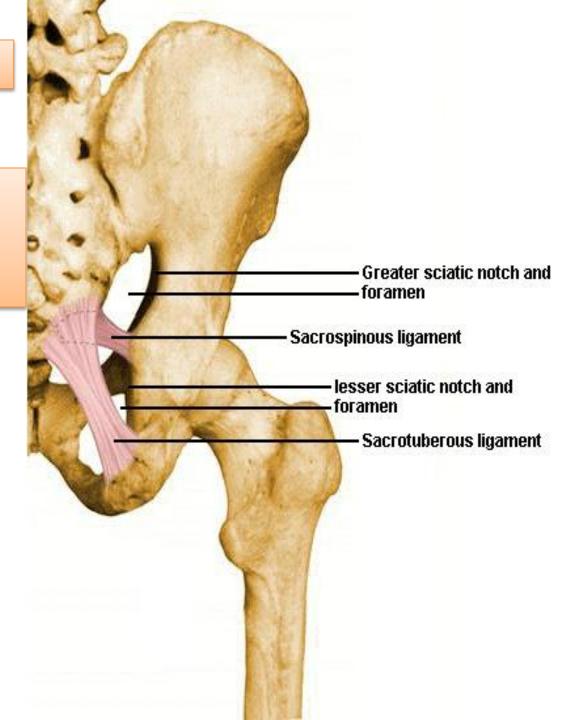
Muscles and ligaments attached to the external surface of the right hip bone

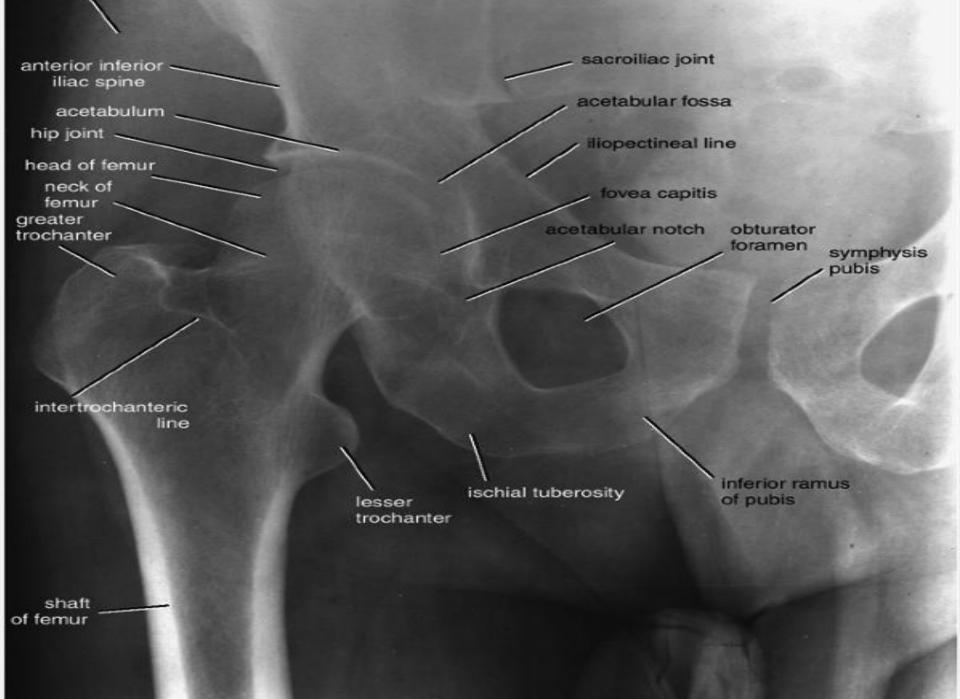


ligaments in the gluteal region

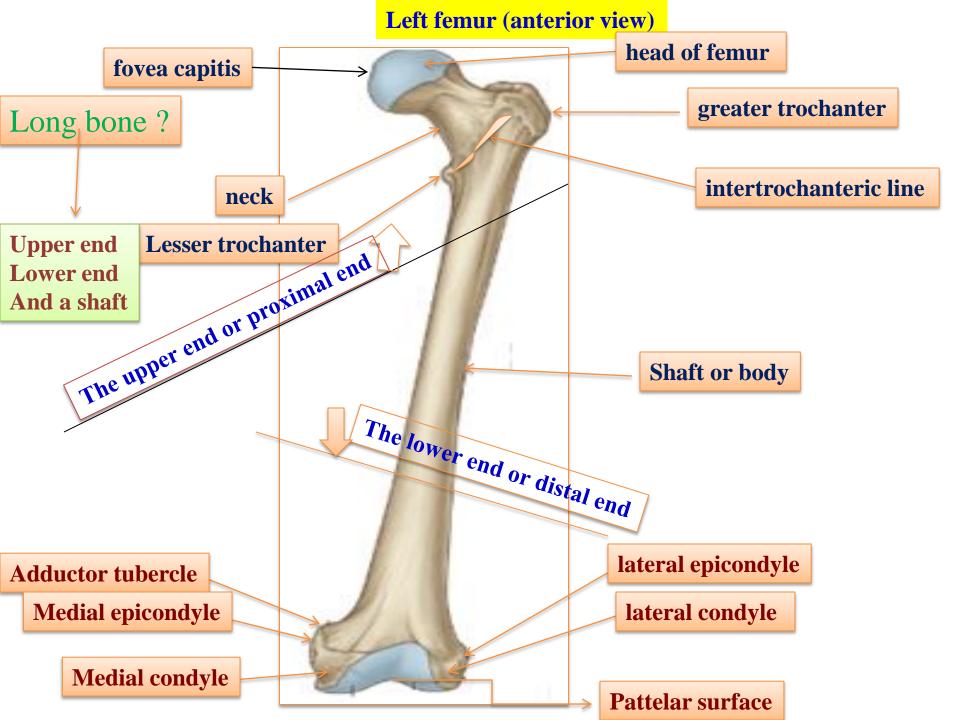
## 1- SACROTUBEROUS LIGAMENT

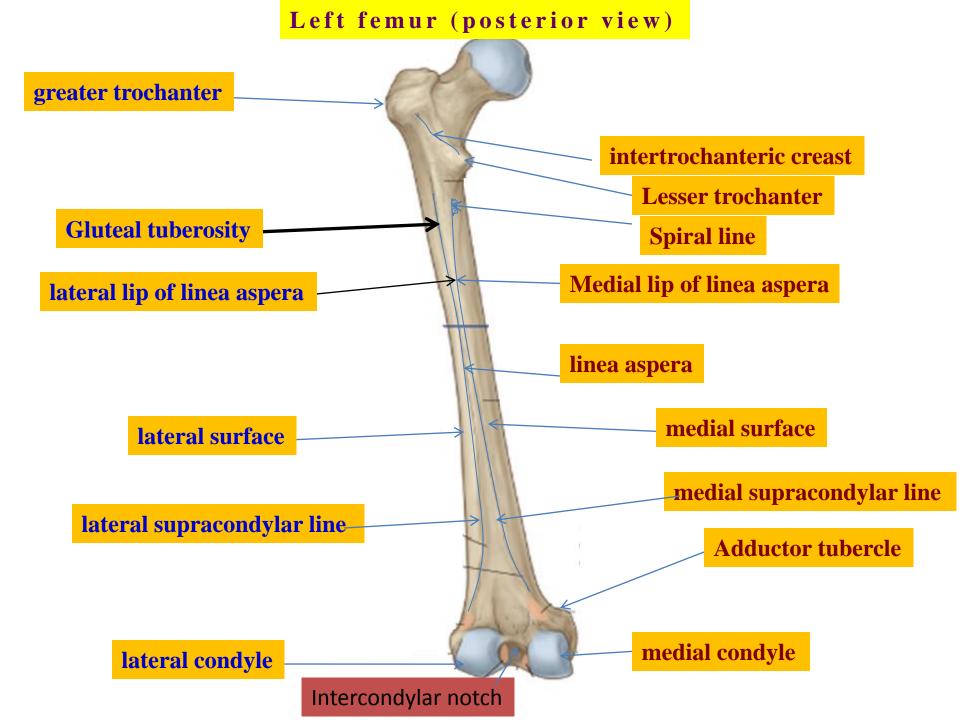
#### 2- SACROSPINOUS LIGAMENT





## BONES THE THIGH





The greater trochanter of the femur lies a hand's breadth below the iliac crest; it is best palpated with the hip adducted so that the overlying hip abductors (tensor fasciae latae and gluteus medius and minimus) are relaxed.

#### Femur Posterior View

Greater trochanter

Trochanteric fossa

Head

