2021

BONES OF THE GLUTEAL REGION

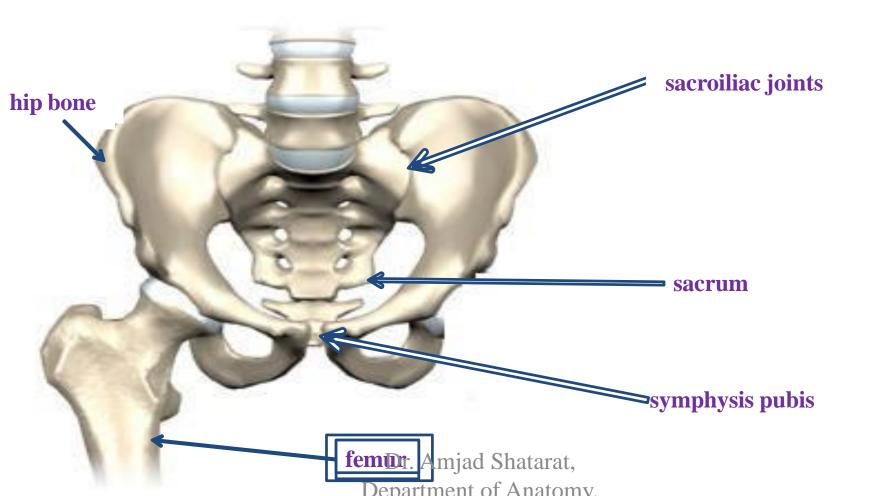
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The *pelvic girdle*

The hip bones articulate with the **sacrum**

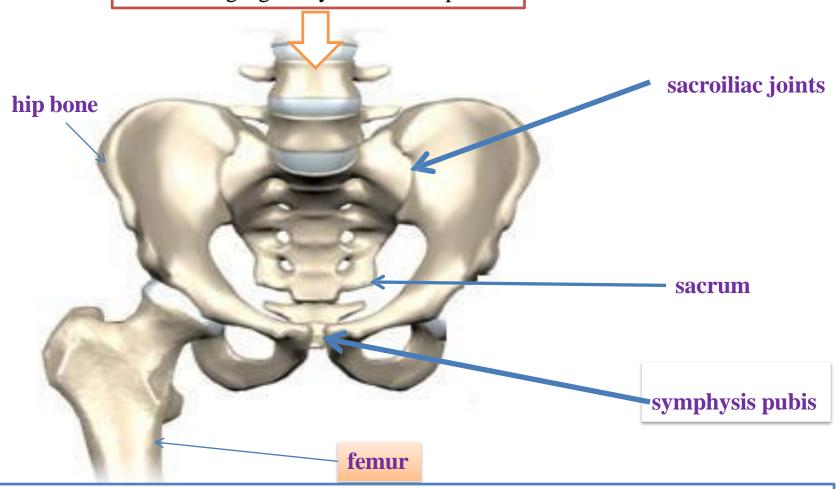
at the sacroiliac joints posteriorly

while **anteriorly** they articulate with one another at the **symphysis pubis**



The 2 hip bones with the sacrum form the pelvis

Now look! where does the pelvis look? It is looking right at you! Never upwards



During your first practical session, make sure to have a look at the anatomical position of the pelvis

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THE HIP BONE

Hip (Coxal) Bone Medial View





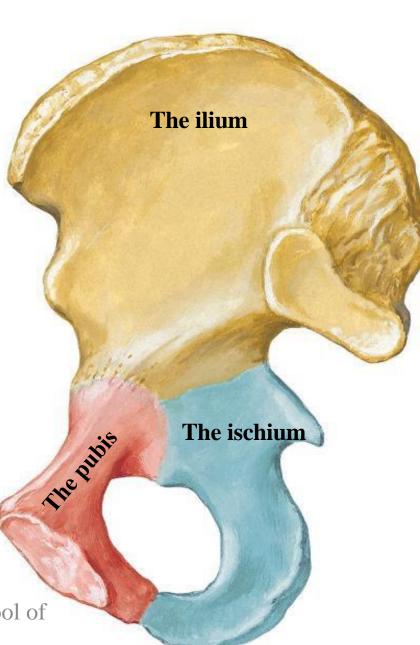
The hip bone is made of:

1 The ilium: superior in position

The ischium:postero-inferior in position

3 The pubis: antero-inferior in position

However!!!!!!



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Hip (Coxal) Bone

The ilium, ischium and pubis

meet one another by means of

<u>triradiate (Y-shaped)</u> <u>cartilage</u> at the Acetabulum.

While the inferior ramus of the

pubis meets With the ramus

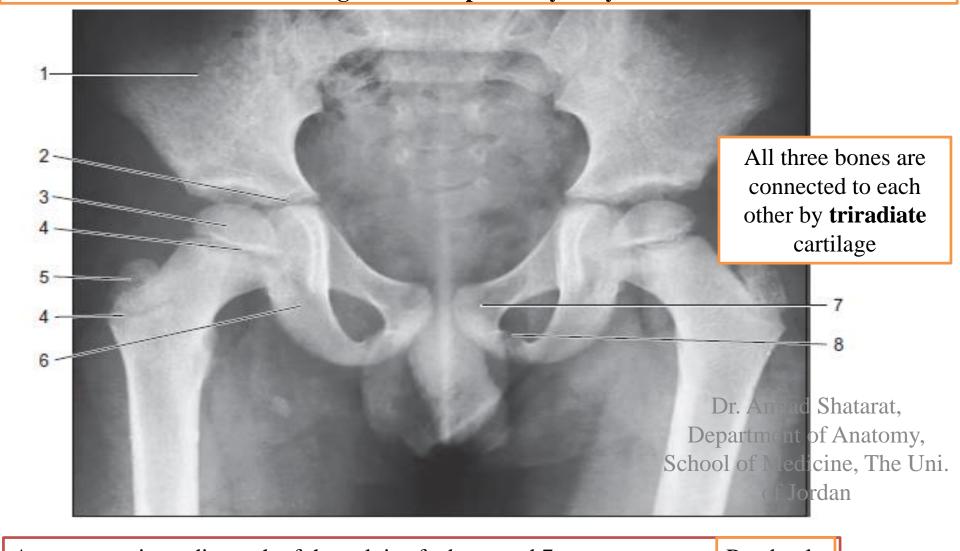
of the ischium by

<u>cartilaginous union</u> <u>Ossifies near the age of 7 years</u>

What is the idea here?

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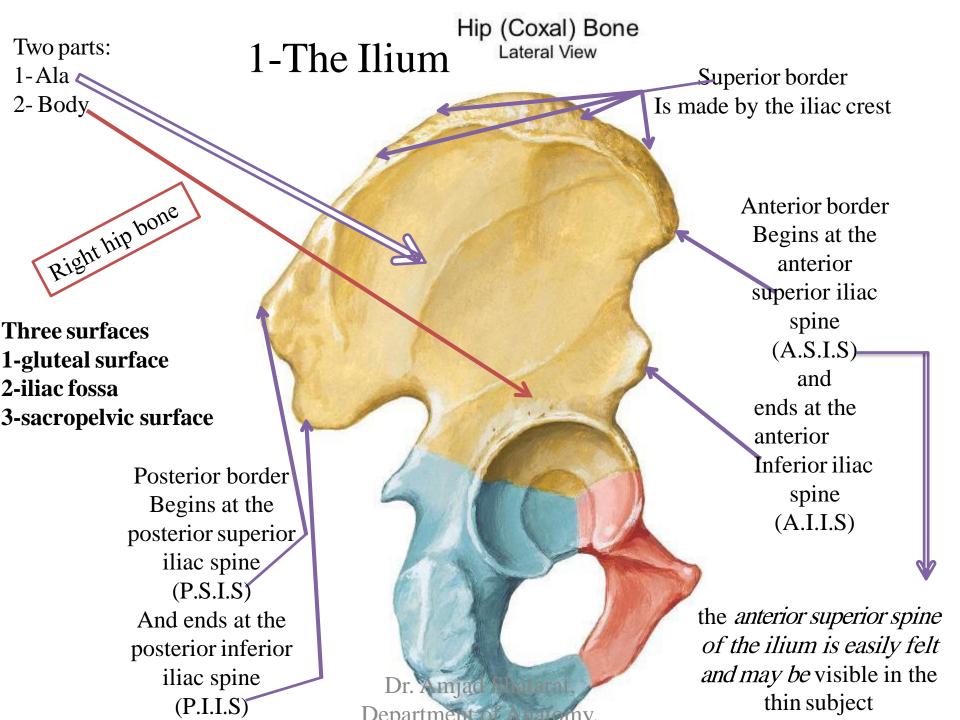
at puberty the triradiate cartilage starts to ossify and near the age of 17 the triradiate cartilage will be replaced by bony union

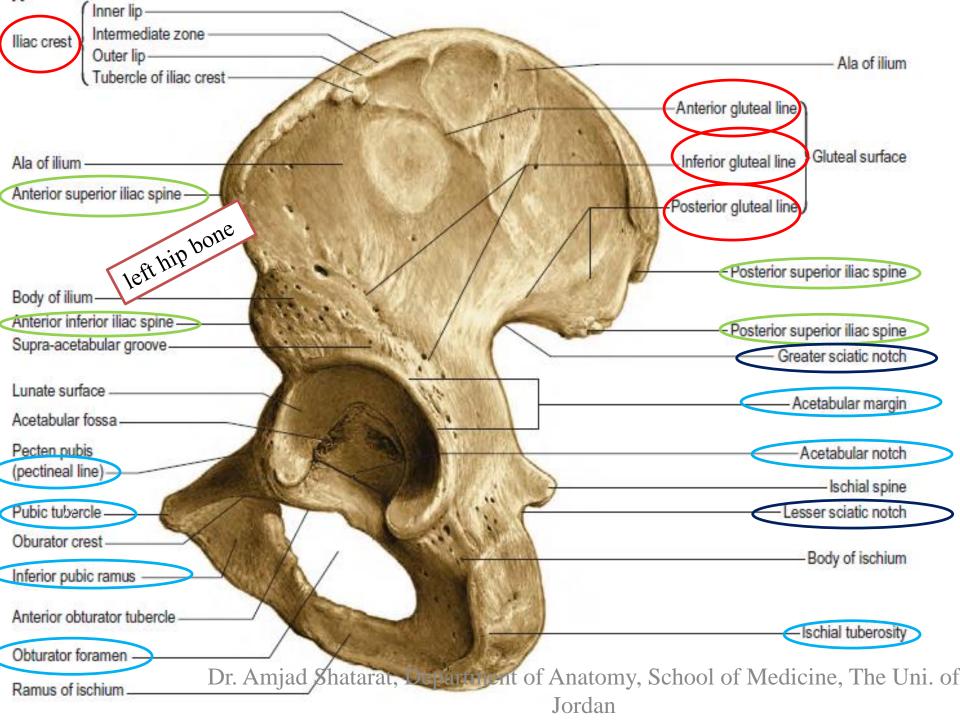


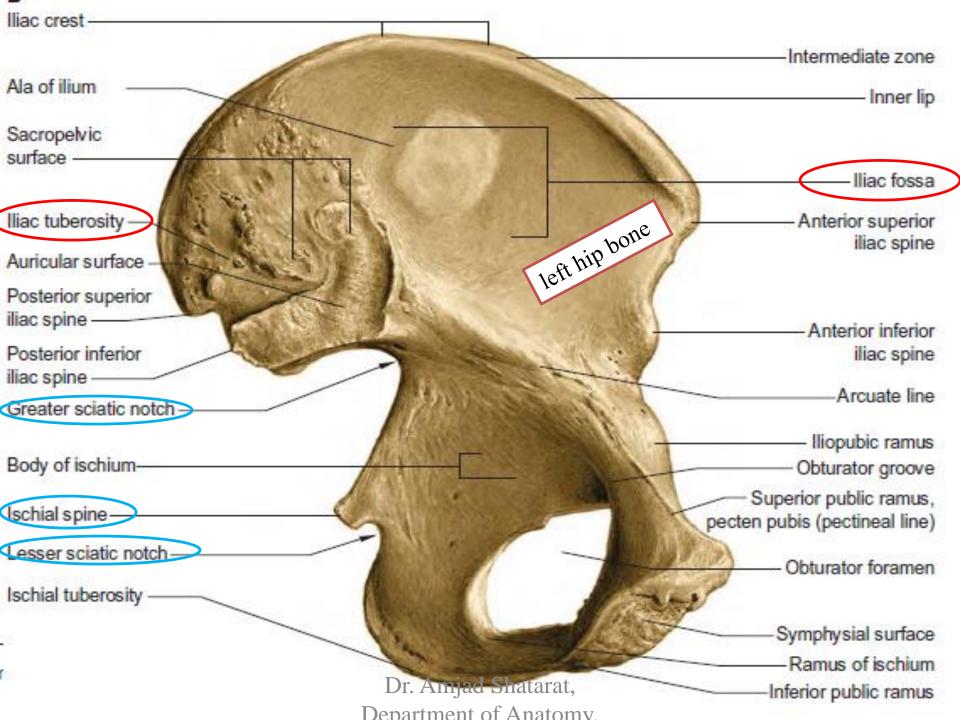
Anteroposterior radiograph of the pelvis of a boy aged 7.

1. Ilium. 2. Part of triradiate growth cartilage. 3. Superior femoral epiphysis. 4. Cartilaginous growth plates. 5. Ossifying greater trochanter.6.

Ischium. 7. Pubis. 8. Cartilage between pubic and ischial rami.







The gluteal surface is divided into 4 parts by three lines: 1- Posterior gluteal line 2- Middle gluteal line Or anterior

Hip (Coxal) Bone Lateral View

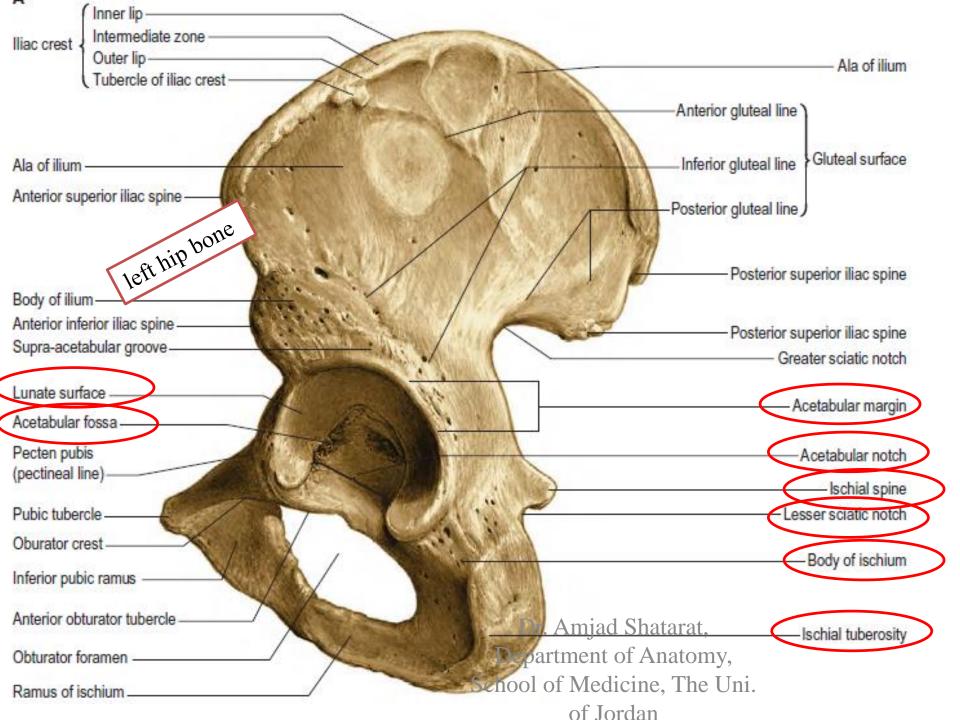
> MAKE SURE you know the names of the muscles that are attached to the areas between these lines



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

3- Inferior gluteal line

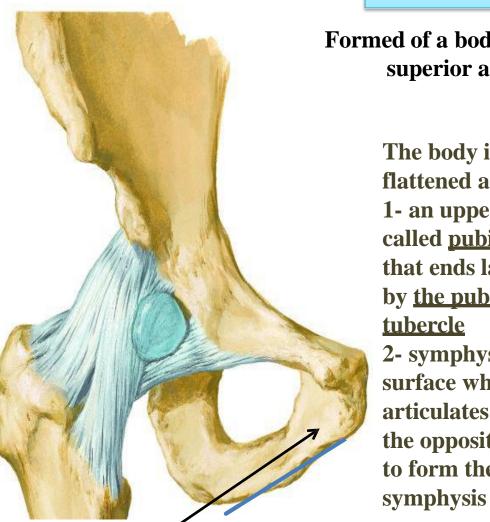
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Hip Joint Anterior View

Pubic bone

Hip (Coxal) Bone Medial View



The body is flattened and has: 1- an upper border called <u>pubic crest</u> that ends laterally by the pubic **tubercle** 2- symphyseal surface which articulates with

the opposite pubis

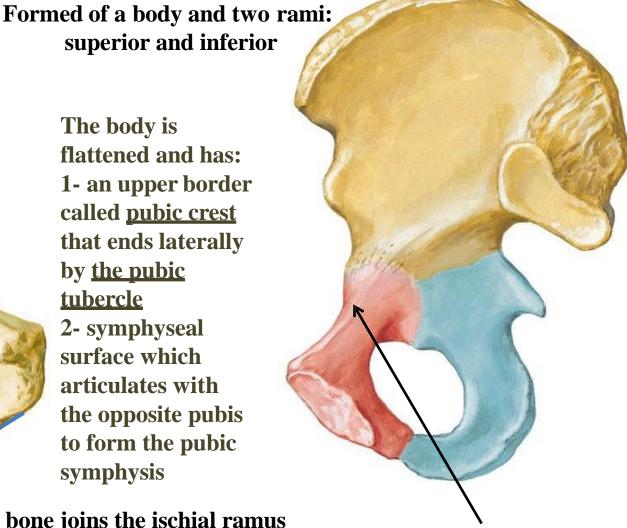
to form the pubic

The inferior ramus of the pubic bone joins the ischial ramus to form the conjoined tendon.

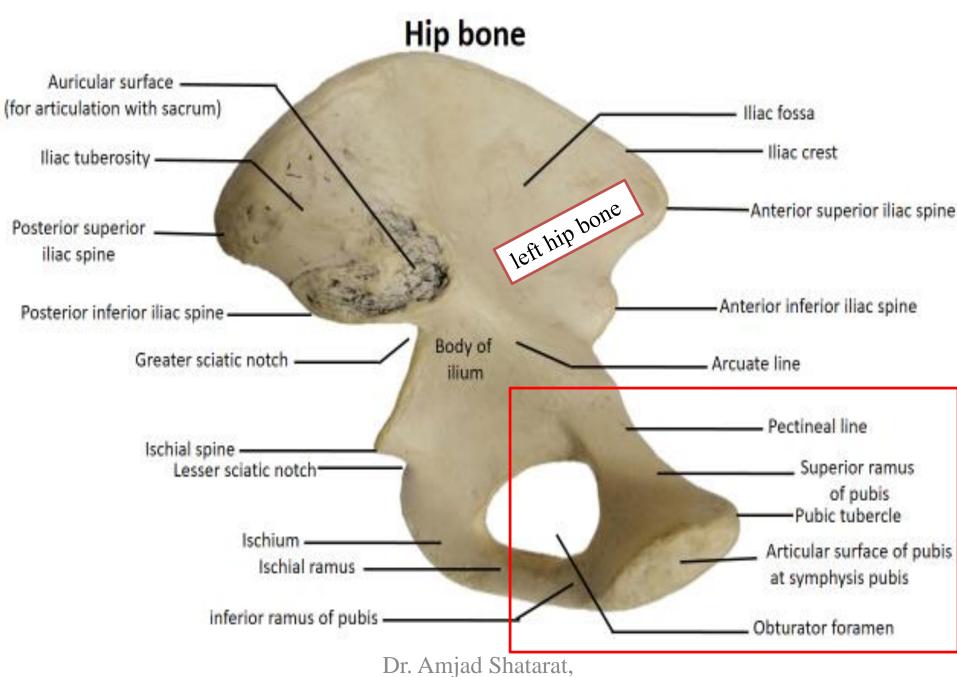
its medial surface

The superior pubic ramus has a pectineal line on

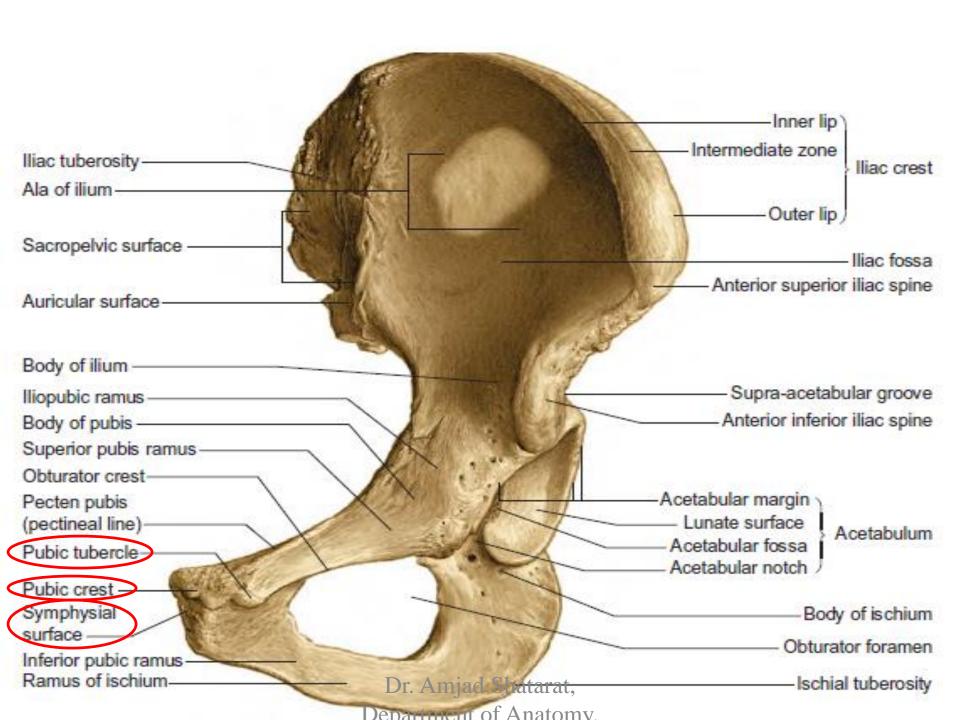
its medial surface Dr. Amjad Shatarat, Department of Anatomy, School of Medicine, The Uni. of Jordan

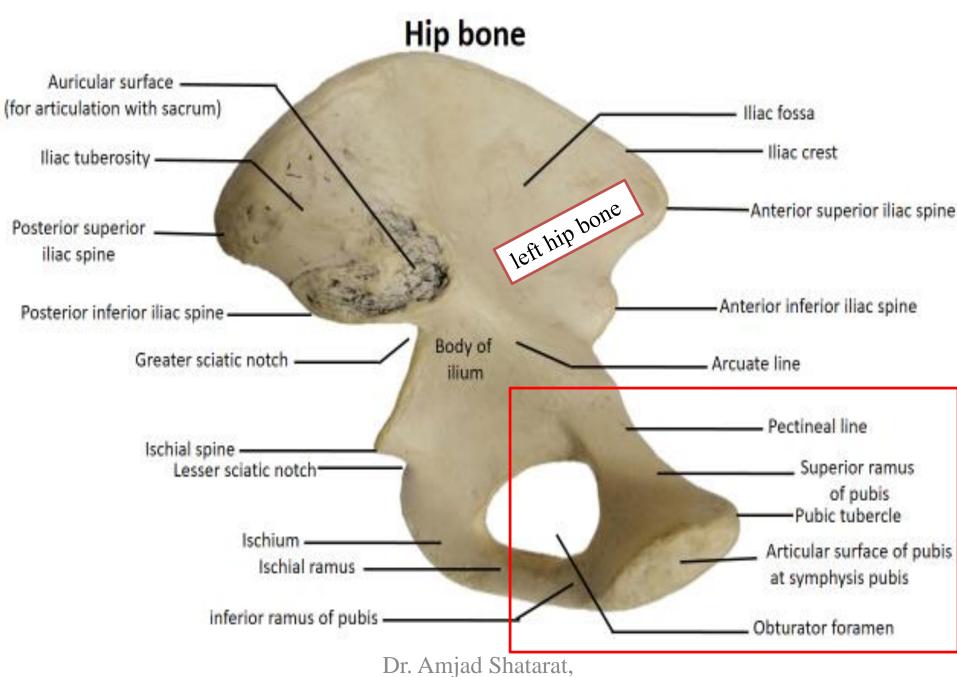


Pectineal line

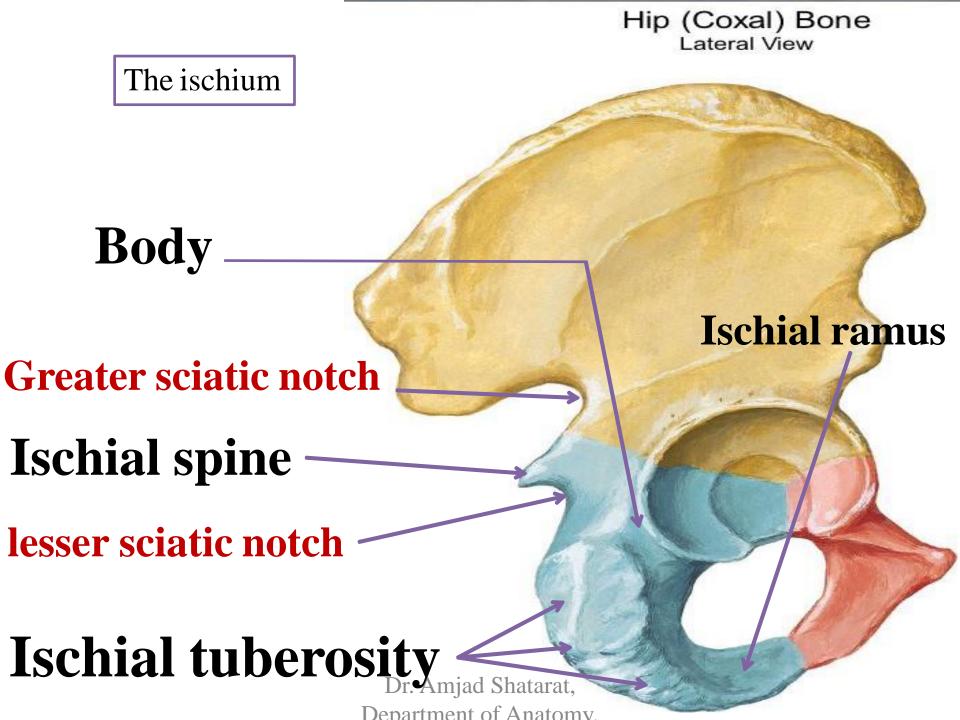


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Ischial tuberosity

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 andlong head of biceps

These divisions are of no clinical value,
Therefore, they are not exam material.
You can read them as general information

Ischiopubic ramus

bic bone

Obturator foramen

For attachment of adductor magnus muscle —

For attachment of semitendinosus and long head of biceps femoris muscles

For attachment of semimembranosus muscle

- For attachment of sacrotuberous ligament

The lower triangular part is divided by a longitudinal ridge into connective tissue and bursa 1-lateral part that gives attachment

to the adductor part of the adductor

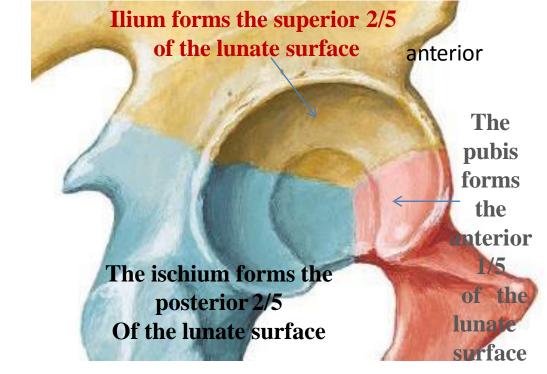
magnus muscle 2-medial part (subcutaneous part)

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The Acetabulum

➤It is a C-shaped cavity located on the lateral aspect of the hip bone

➤ 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 Dr. Amjad Shatarat,

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THE HIP BONE

Hip (Coxal) Bone Medial View

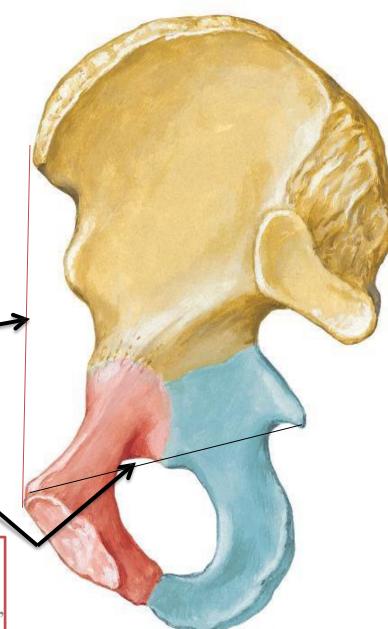
Anatomical position of the hip bone

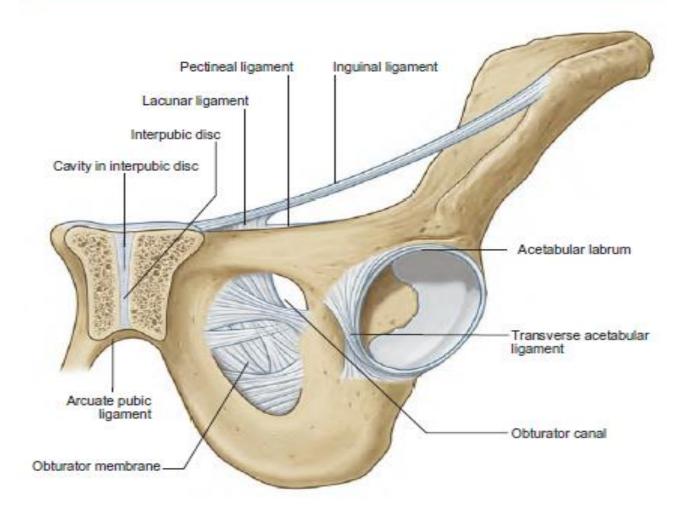
It is very important to understand the anatomical position of the hip bone,

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</u> <u>plane</u>.

It means that the pelvis is looking forward in the anatomical position





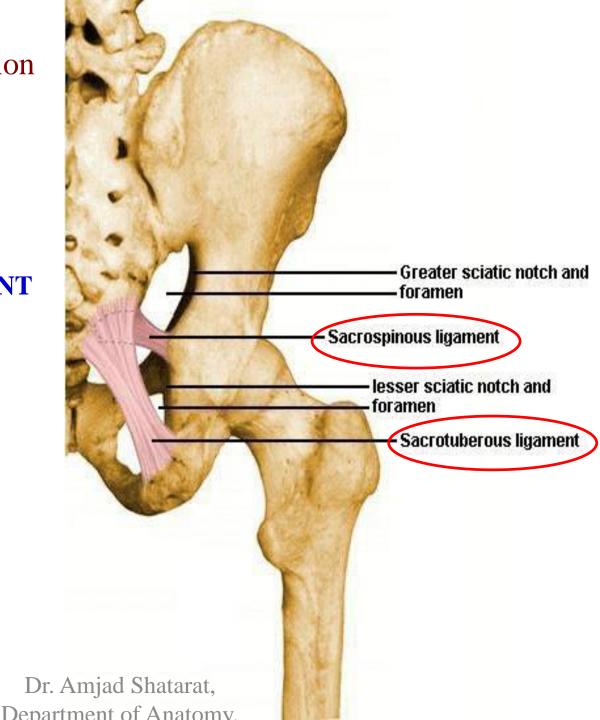
OBTURATOR foramen Covered by a membrane in living subjected Shatarat,

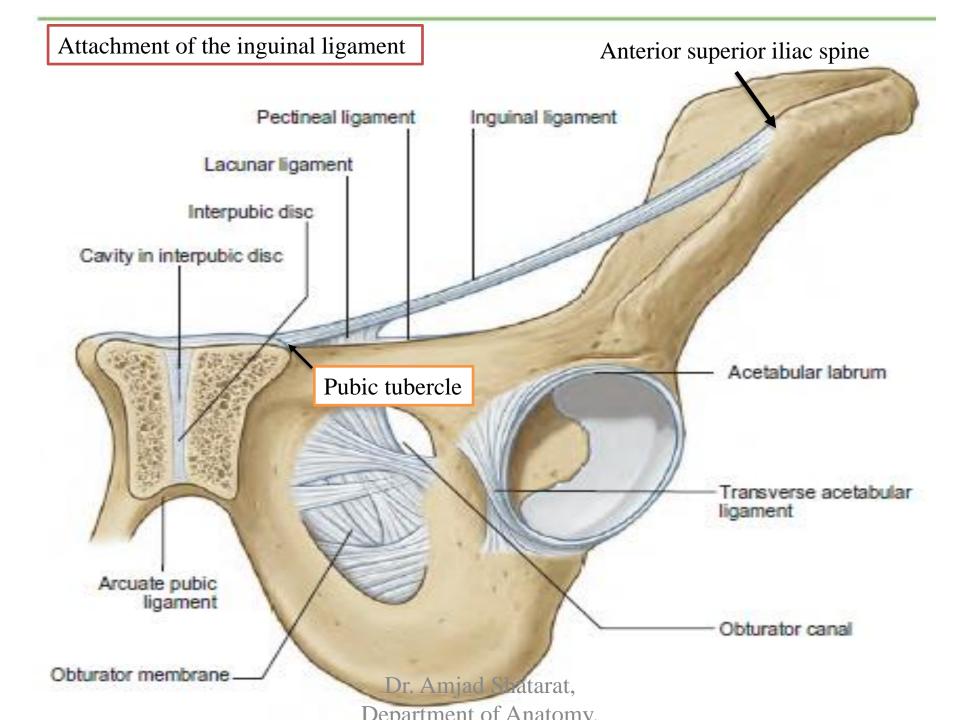
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ligaments in the gluteal region

1-SACROTUBEROUS LIGAMENT

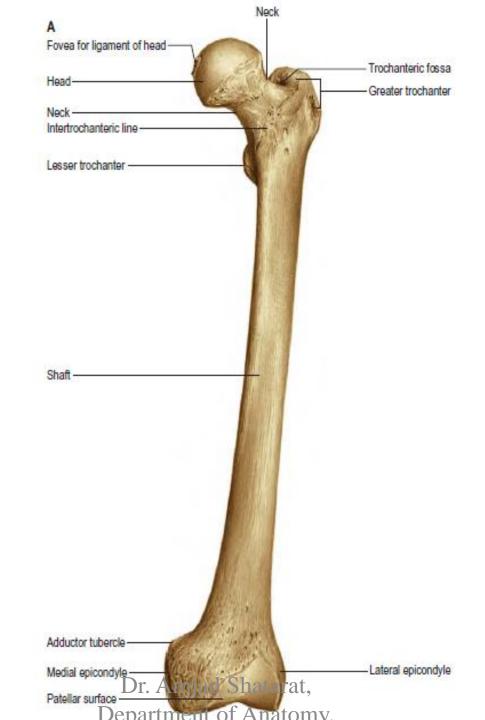
2- SACROSPINOUS LIGAMENT

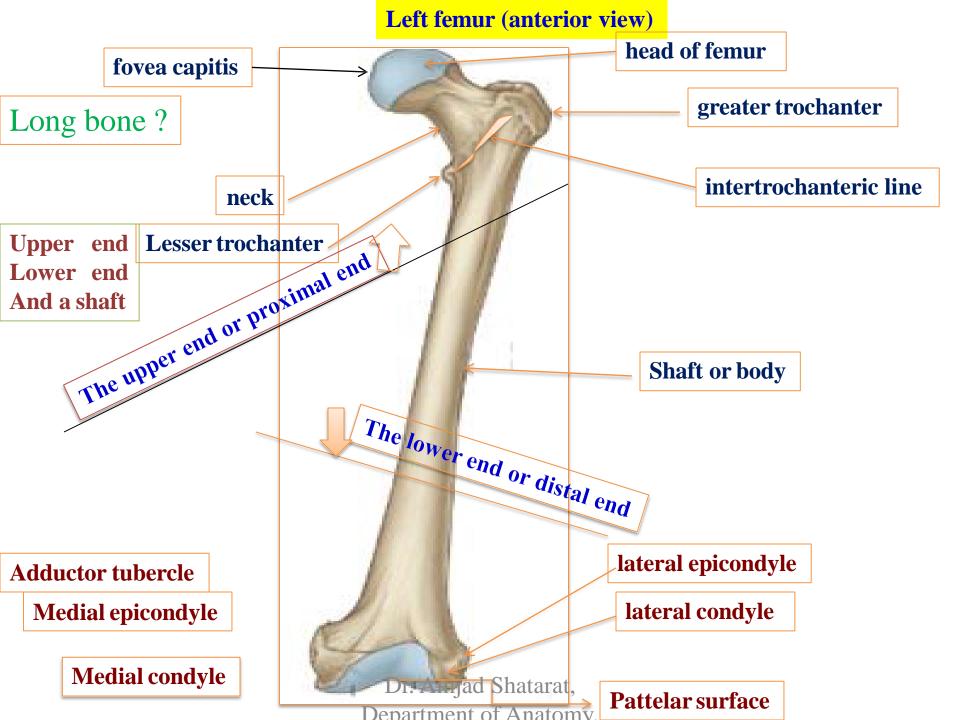


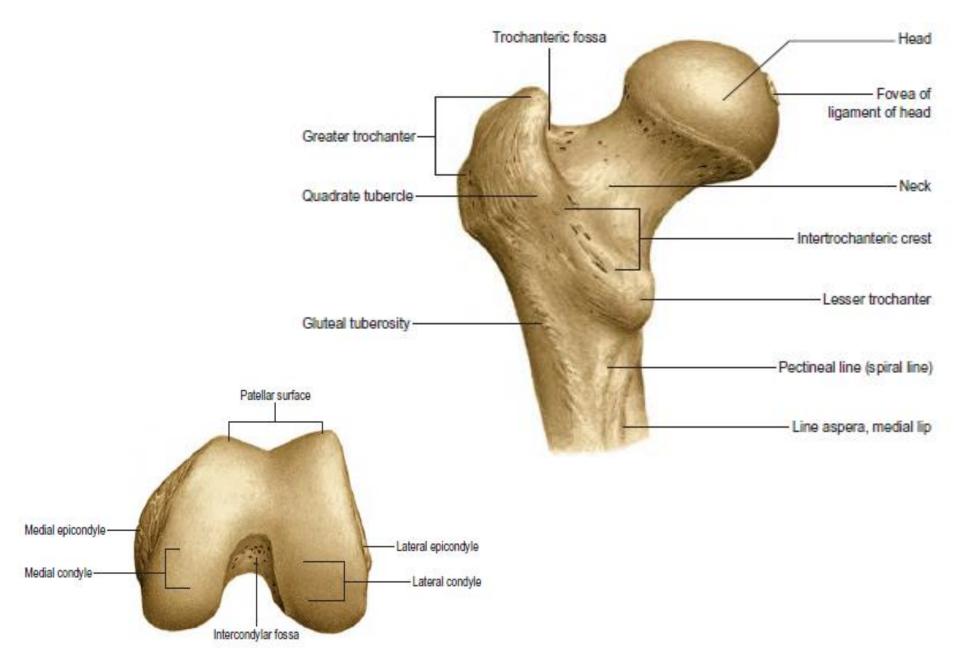


BONES OF THE THIGH

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Distal end of femur: articular surfacer. Amjad Shatarat,

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Head Fovea of ligament of head Greater trochanter Neck Quadrate tubercle Intertrochanteric crest Lesser trochanter Pectineal line (spiral line) Gluteal tuberosity Lateral lip Linea aspera Medial lip Lateral supracondylar line Medial supracondylar line Popliteal surface important Adductor tubercle Lateral epicondyle Lateral condyle Medial condyle Intercondylar line Intercondylar fossa

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