

Aratomical Position

- -> Stanolines exect
- → The upper limbs by the sides
- The face and palms of the hands
- -> Feet by the sides



Amtomical Planes

-divide the body into anterior and posterior coronal or frontal plane parts

horizontal, divide the body into superior and interior parts

plane

sagittal or longitudinal

divide the body into equal right-median plane and left halves

parasagittal -> Parallel to median plane

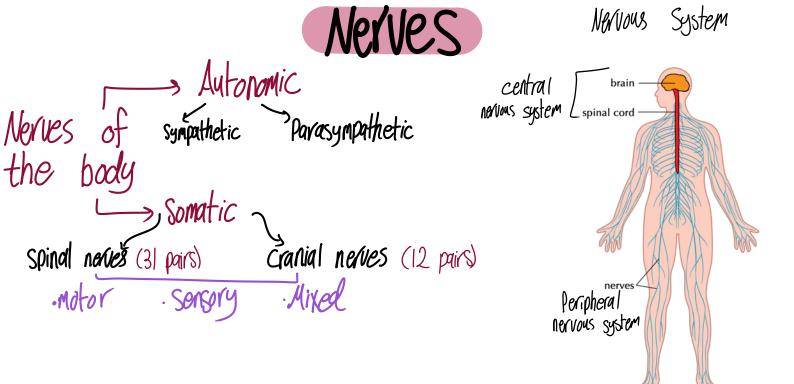


Movement Terms

Anatomical Positions and Directions

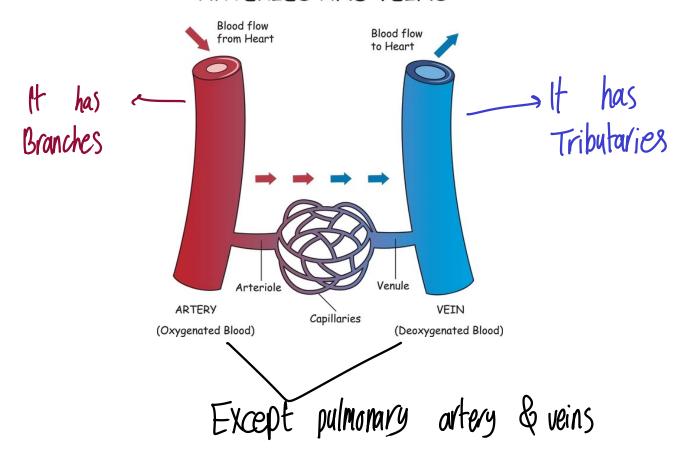
https://quizlet.com/891242322/positionsdirections-flash-cards/?i=5i2w7y&x=1jqY

https://quizlet.com/891243568/movement-termsflash-cards/?i=5i2w7y&x=1jqY



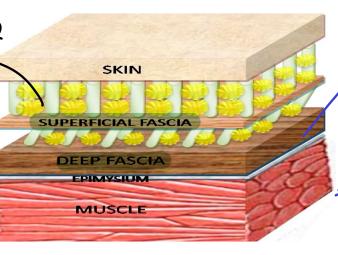
Bood vessels

ARTERIES AND VEINS





It is a Mixture of bose areolar and fatty tissue that unite the skin to the underlying deep fascia.



It is nombranous layer of connective tissue that invests the muscles and other deep structures.

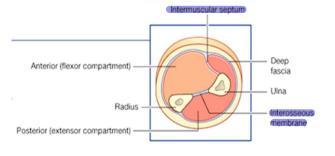
HIT is denser than superficial fascia.

Function of superficial fascia:

- 1-Acts as a bad conductor to heat.
- 2- Fills up the hollows and rounds off the irregularities at the surface of the body.

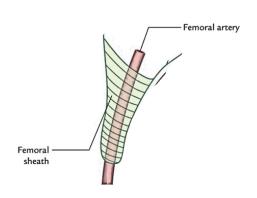
Function of deep fascia:

- 1. keep the underlying structures in position.
- 2. They give attachment to some muscles.
- 3. Formation of intermuscular septa and interosseous membranes.
- 4. Formation of palmar aponeurosis (in palm) and plantar aponeurosis (in sole).
- 5. Formation of **sheaths** around big blood vessels (Femoral sheath).







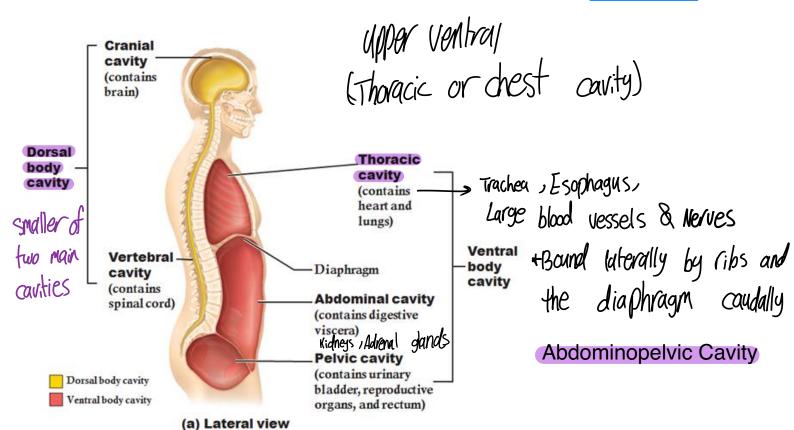


Thoracic Cavity

Body Cavities

Abdominal and Polvic

https://youtu.be/ 8kvnPaPN6GA? feature=shared



(Muscoskeletal System)

> Appendicular skeleton

> Axial skeleton

- *Includes:
- -Bones → 206 <
- -Joints
- -Muscles
- -cartilages
- -Ligaments



-SKull

22 bones



-Hyoid bane

-vertebral

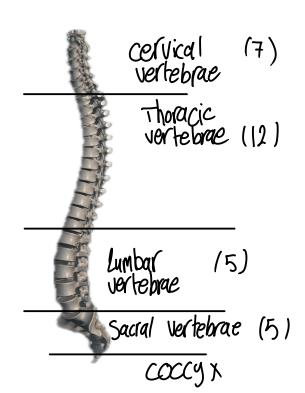
The only bone that doesn't articulate with another bone





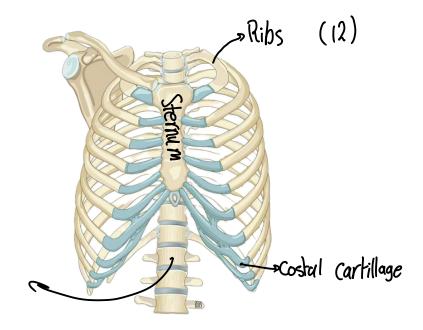
composed of 32-33 vertebrae seperated by interverte brai discos







-Ribs & Sternum *Skeleton of the thorax:



Thoracic verte bra

+Appendicular skeleton:

-Bones of the upper and lower limbs (Will be discussed later)

Functions of the bones
Protection Support Movement Storage Makes blood
(by Bone marrow)

Types of bone according shape:

1. Long bone - Femur, Humerus

3. Flat bone

5. Seasamoid bone
- Patella

They diminis function between tendons and underlying bones

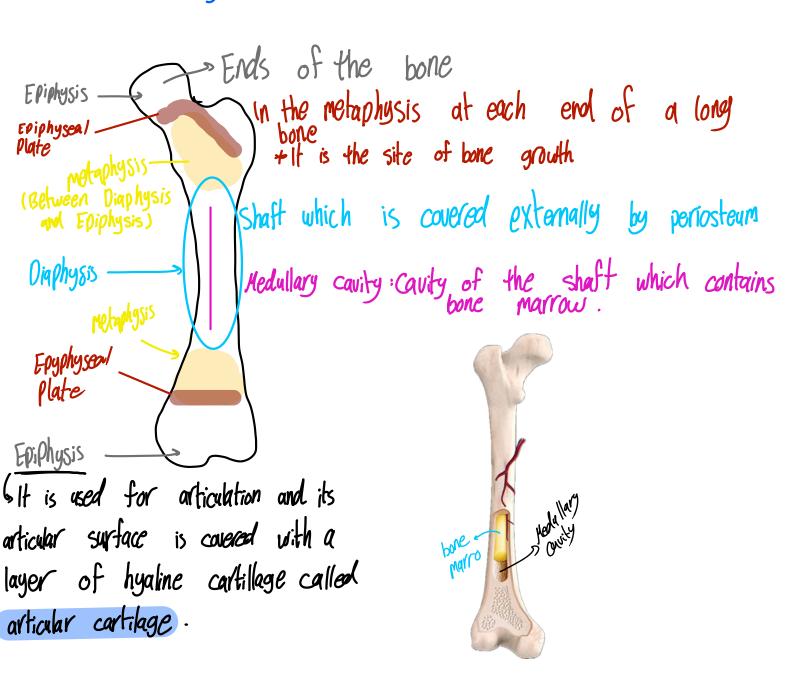
2.5 hort bone - carpal, tarsal

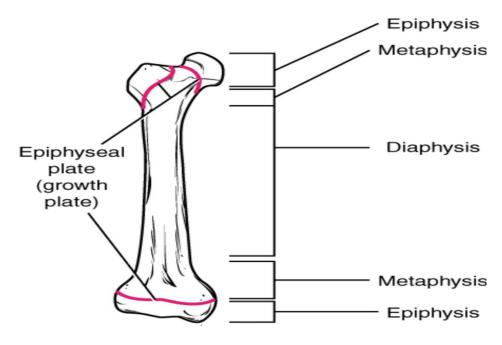
U.Inregular bone -vertebra

6. Pnoumatic bone

x They decrease the weight of skull
x They lead to resonance of voice
x They have a highly vascular mucosa to
warm the inspire air

* Parts of the Long Bone:





*Toints: the site of articulation between bones. Classification of joints— - Immovable (Synarthroses) - Fibrous -Slightly Movable (Amphiarthroses) - Cartillaginous - Freely Mouable (Diathroses) -Synovial -> Fibrous Joints > Sutures -Bones united by -> SyndesMoses eq: distaly end of tibia and fibula fibrous tissue ->Gomphosis -Cartilaginous Joints -Bones are connected by cartilage Primary → Chostochondral joint > Epiphyseal plate of cartilage Secondry Middle of body --->Intervertebral disc joints ---- symphysis pubis >Synovial Joints -articulating bones are seperated by a joint early covers the « alines the joint capsule ends of (hyaline bones cartilige) > Joint surface are enclosed by it — Ligaments reinforce & the joint

of synovial Joint

Uniaxial

Hinge

Permit flextion and only extension

-Elbow -Ankle



Plane

The afficulate surface are flat, and they allow gliding movement

-Intercarpal

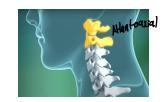
Intercarpal

- Between vertebral articular processes



Rotation Hovemen

-Padioulnar -Atlantoaxial



Biaxial

Condyloid

*Botween the shallow depression of one bone and the rounded structure of another bone/bones.

-It permits - (flexion, extension) & (abduction, adduction)

-Wist joint



saddle

Each articular surface has both concave & convex areas

-Carbometa carpal of thymb (CMC)



Multiaxial

Ball and socket

spherical or hemispherical of one bone acticulates with the cuplike socket of another.

-Shoulder joint





https://youtu.be/ dJZz7hBoALs? feature=shared

SKeletal

Attached to and produce Site novement of the skeleton

Site: blood vessels & walls of viscera

Smooth

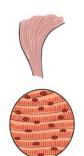
Cardiac

Site: Myocardium of the heart

+Voluntary muscles
+Nerve supply :Somatic nerves

alnuoluntary nuscles

+ Nerve supply: Automanic nerves











A muscle has two attachments > Origin → fixed -> Insertion → mobile https://youtu.be/ hXgMzn7KLKk? feature=shared

When a muscles contract, its fibers shorten and the insertion moves towards the origin, thus producing movement at the related joint.



Action of skeletal muscles:

Prime movers (Agonists)

-responsible for initiation of a particular movement

Antagonist

-oppose the action of prime movers

Fixators (Stabilizers)

-Help the prime mover by fixing it origin or keep bones immobile when needed Synergists

-Assist the prime mover in its role

Zeina yassin