

Andtomy

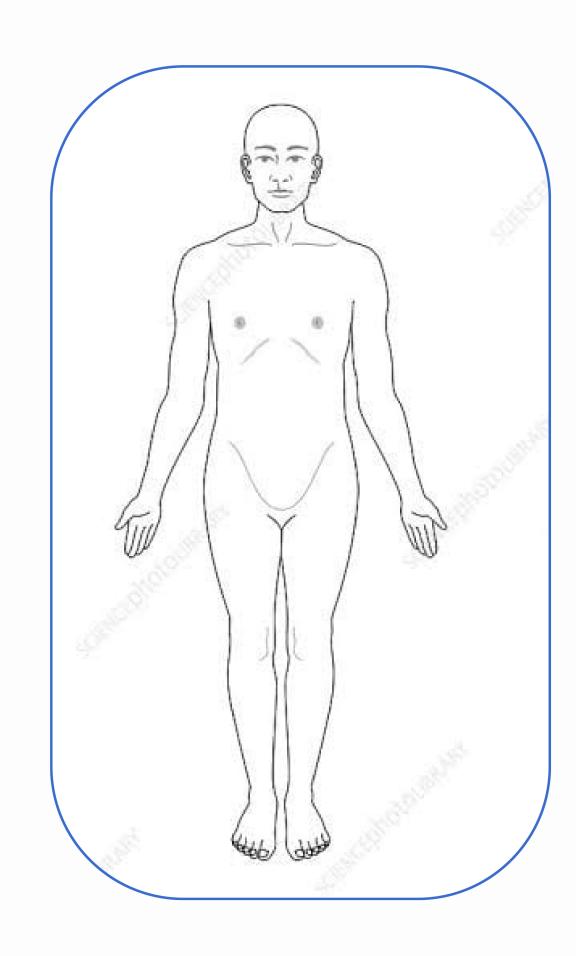


Terminology

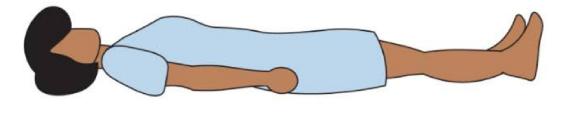
Anatomical position

1-Erect position

The body is standing up,
The face looks forwards,
The upper limbs at the sides,
The palm directed forwards.



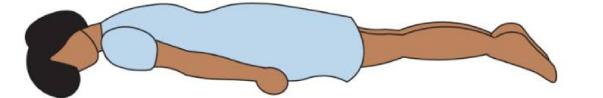
2-Supine position



Supine

The body lies on its back

3-Prone position

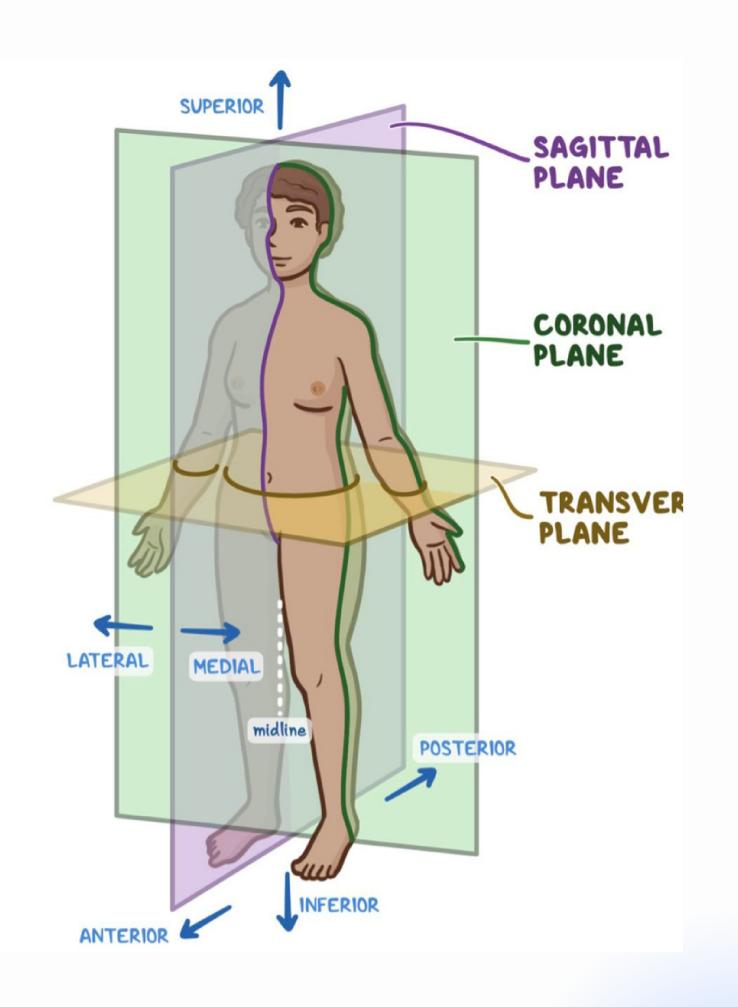


Prone

The body lies on its front

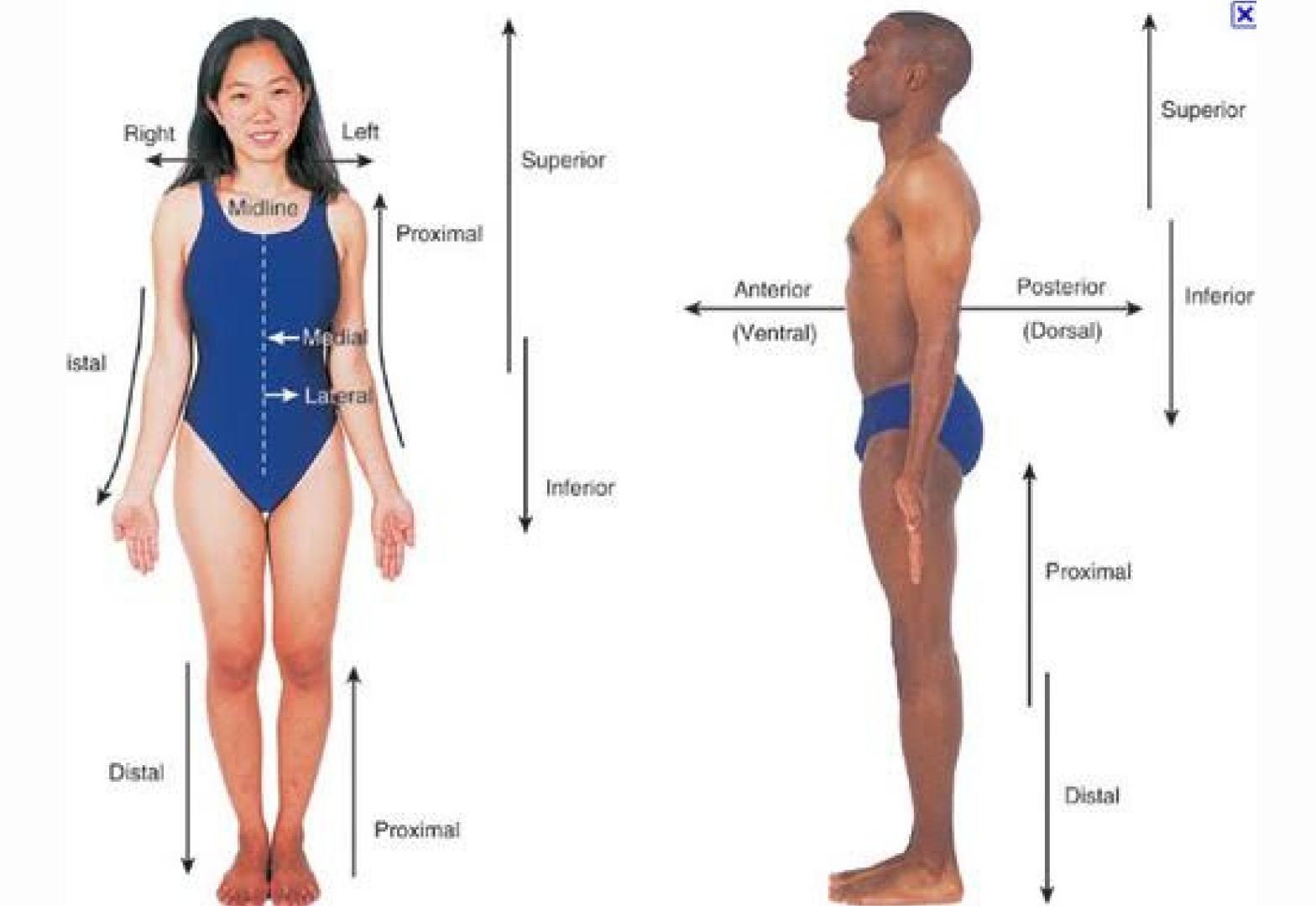
Anatomical planes

- 1- Coronal (Frontal) Plane: Vertical plane that divides the body into front (anterior) and back (posterior) parts.
- 2- Median (Sagittal) Plane: Vertical plane that divides the body into equal right and left halves.
- 3. Horizontal Plane:Transverse plane that divides the body into upper (superior) and lower (inferior) parts.
- 4- Paramedian plane (lateral sagittal plane): It is vertical plane that runs parallel to the median plane dividing the body into two unequal parts.



Anatomical terms of location

- Anterior (ventral): Near to the front of the body.
- Posterior (dorsal): Near to the back of the body behind.
- Upper (superior, cephalical): Towards the head.
- Lower (inferior, caudal): Towards the feet.
- Median: In the median plane.
- Medial: Near to the median plane.
- Lateral: Away from the median plane.
- Middle: Located at equal distance between two fixed points.

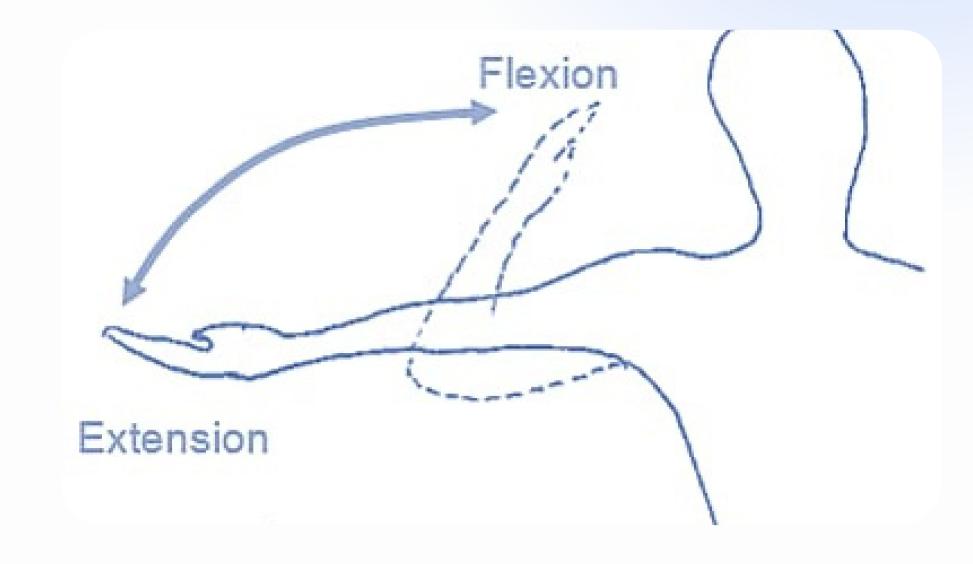


- Intermediate: A point located between two fixed points.
- Superficial: Near to the skin.
- Deep: Away from the skin.
- Proximal: Near to the root of the limb.
- Distal: Away from the root of the limb.
- Palmar: Refers to the front of the hand.
- Plantar: Refers to the ventral aspect of the foot.
- External: Near to the surface of a hollow organ.
- Internal: Near to the cavity of a hollow organ

Anatomical Terms of Joint Movements

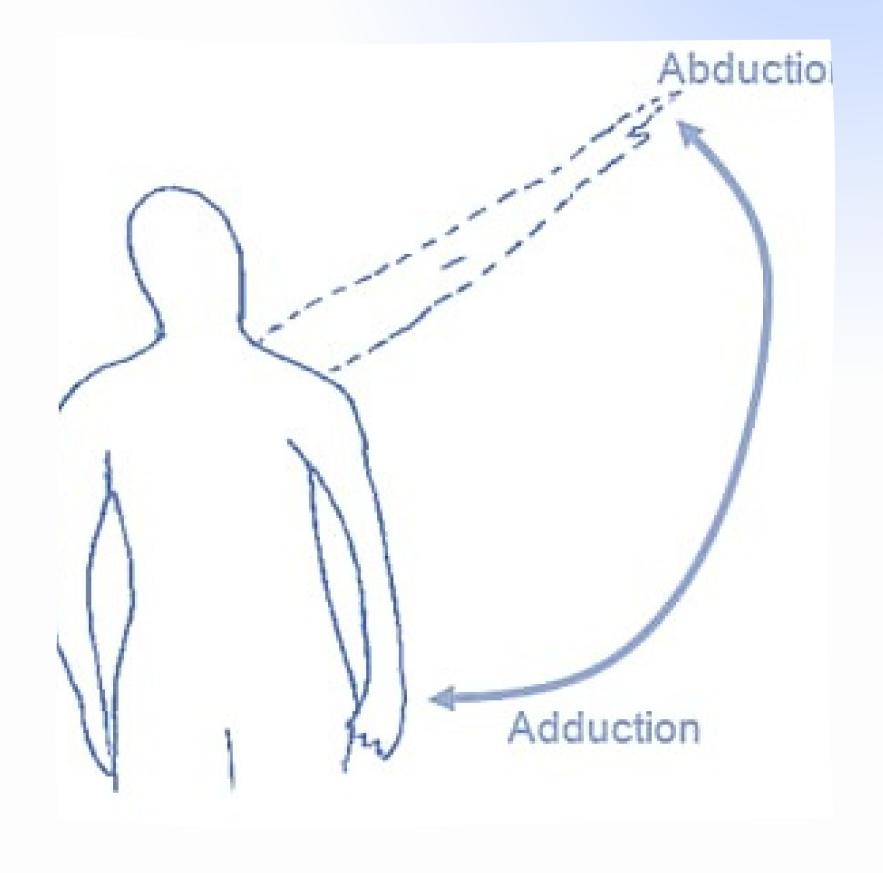
Flexion (bending):
Approximation of two flexor or ventral surfaces.

Extension (Straightening):
 Approximation of two
 extensor or dorsal surfaces.



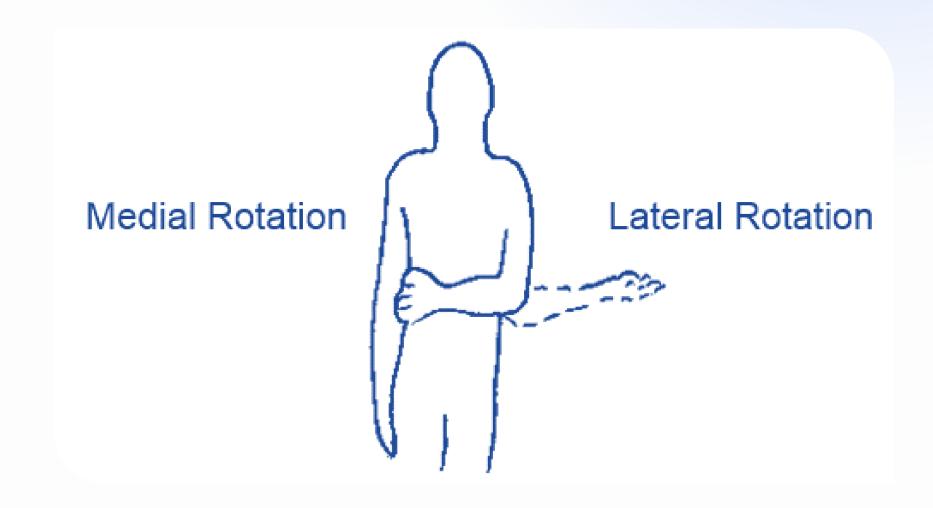
 Abduction: Movement of the part away from the middle line (in fingers: from the axis of the middle finger, and in toes: from the axis of the second toe).

•Adduction: Movement of the part towards the trunk (in fingers towards the axis of the middle finger, and in toes towards the axis of the second toe).

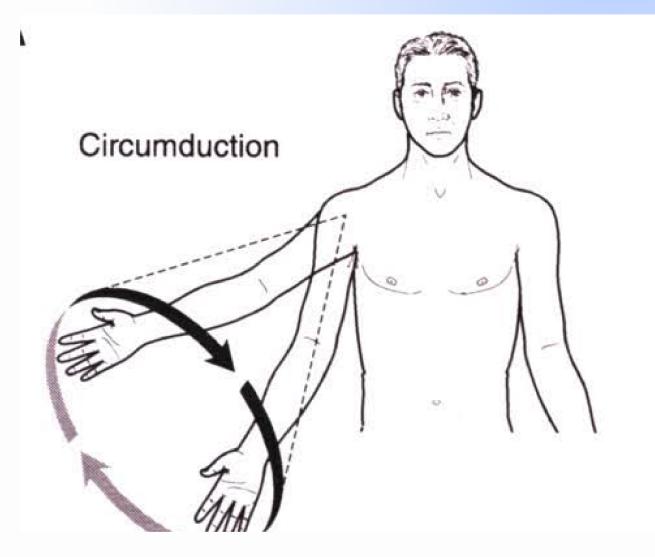


• Medial rotation: Internal or medial rotation of a part around its long axis.

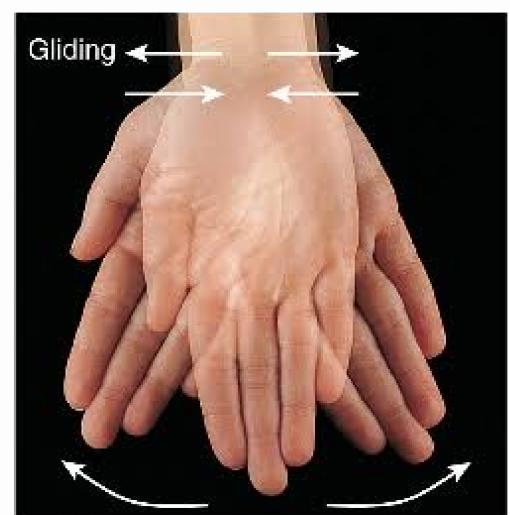
• Lateral rotation: External or lateral rotation of a part around its long axis.



•Circumduction: Successive combination of flexion, adduction, extension and abduction.

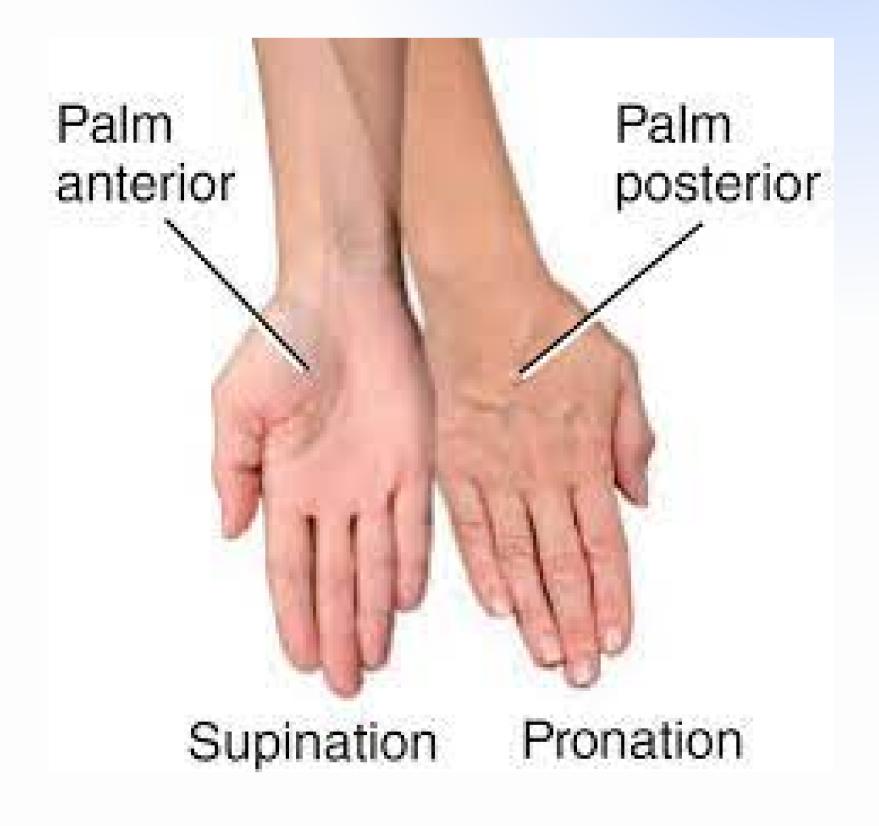


•Gliding: Sliding with no axial movement.

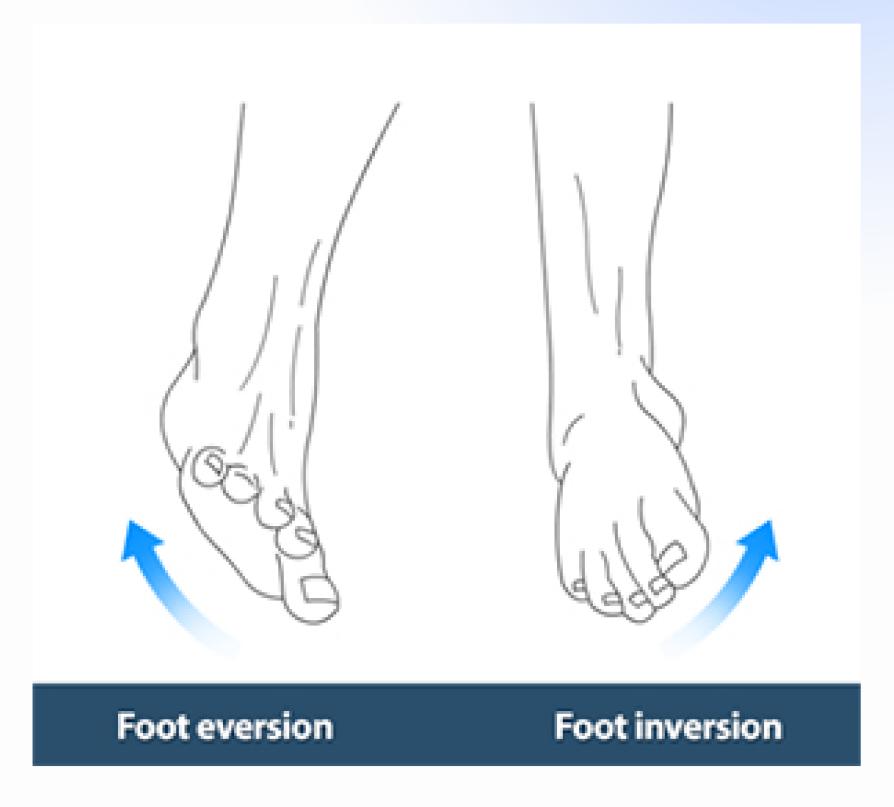


Special movement

- Pronation (in the forearm and the hand): Rotation of the forearm so that the palm of the hand looks backwards and the thumb looks medially.
- Supination (in the forearm):
 Rotation of the forearm so that the palm of the hand looks forwards and the thumb looks laterally.



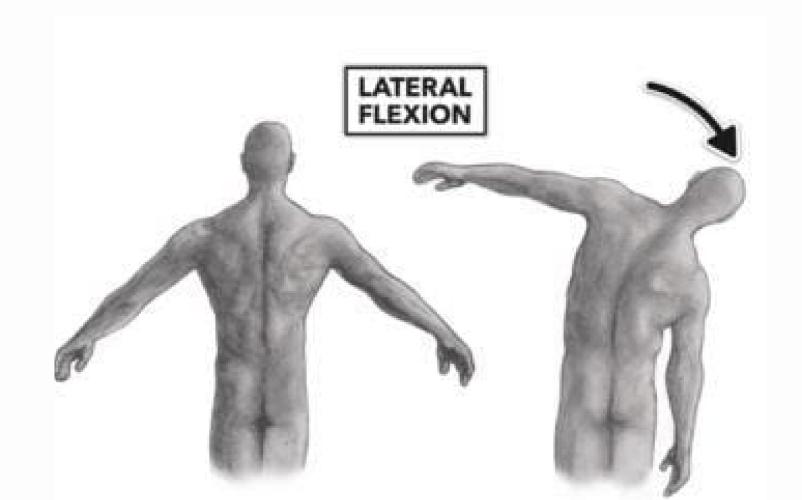
- Inversion (in the foot): The medial border of the foot is raised up and the sole looks medially. It is accompanied with plantar flexion of the foot.
- Eversion (in the foot): The lateral border of the foot is raised up and the sole looks laterally. It is accompanied with some degree of dorsiflexion of the foot.



Opposition: It is flexion and medial rotation of the thumb so as it gets in contact with the tips of the medial four fingers.

Opposition

Lateral flexion of the trunk: Bending the trunk to one side.





Skin & Fascia

The Skin

Epidermis

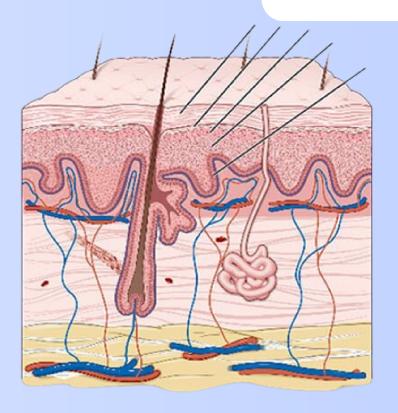
It if formed of stratified squamous epithelium covered by Keratin layer

It invaginates the deeper layer (dermis) to form:

- a. Sweat gland
- b. Hair follicle
- c. Sebaceous glands

Dermis

Consists of collagen and elastic fibers, blood vessels, lymphatics and nerves.



Skin appendages

1-Hair

2-Nails: It develops from epidermis. It is formed of root body and free border.

3- Sebaceous gland: It is located in the angle between hair follicle and the hair erector muscle. Their ducts open in the hair follicles.

4- Sweat glands: It is simple coiled tubular glands open on the surface of the skin.

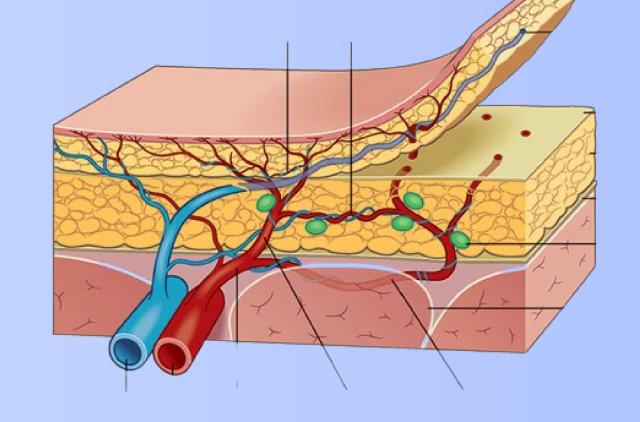
Fascia: collection of connective tissue under the skin

Superfacial fascia

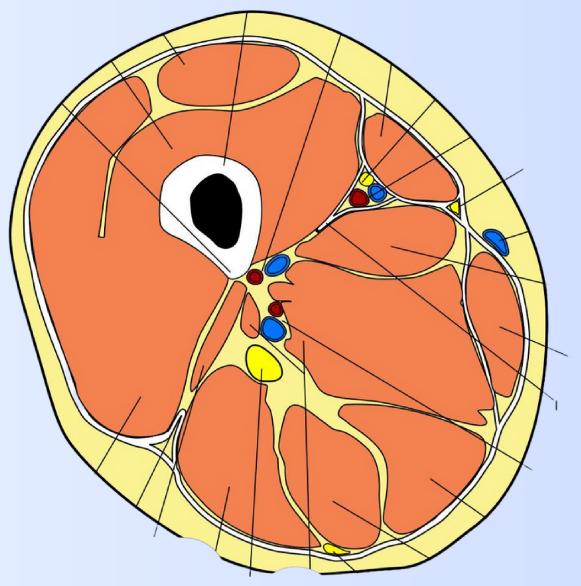
Functions of superficial fascia:

- 1- Retains warmth of the body.
 - 2- Acts as a reservoir of fat.
- 3- Facilitates movement of skin.
- 4- Acts as a soft bed for passage of vessels and nerves to skin.





Fascia: collection of connective tissue under the skin





Deep fascia

Function of deep fascia:

- 1- Keeps the underlying structures in position.
- 2- Binds the muscle into groups and extends between them as intermuscular septa.
- 3- It forms interosseous membranes that bind bones together.
- 4- Formation of fibrous sheaths around flexor tendons of hands and feet.

Sites of condensation of the deep fascia:

1- At wrist and ankle joints.

2- At the palm of the hand.

3- At the sole of the foot.





Thank's For Watching

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