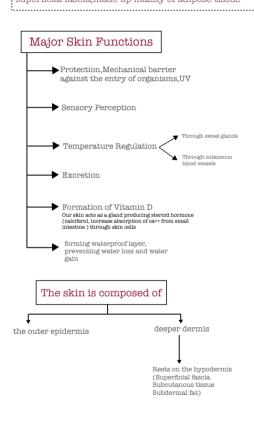
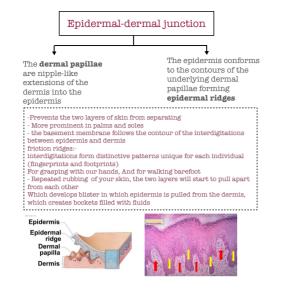
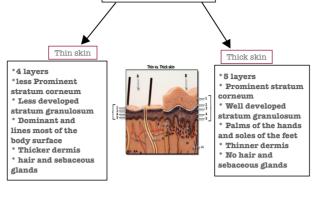
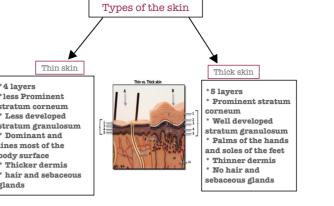
Skin histology

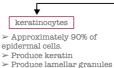
- The skin is considered the largest organ of the body; It has more than one tissue forming it, that's why it's an organ
- Epidermis + dermis= cutaneous membrane Hypodermis = subcutaneous tissue, Same as superficial fascia, made up mainly of adipose tissue











every 2-4 weeks

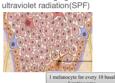
- > Are derived from the neural crest cells.
- > Have protrusions that transfer melanin granules to > shed continuously and generate the keratinocytes
 - Are located in the stratum basale

Melanocytes

Synthesize the dark brown pigment melanin Melanin protects the skin

Types of the epidermal cells

from the damaging effects of ultraviolet radiation(SPF)





Langerhans cells

> Originate from bone

> Mainly in the stratum

recognize, phagocytose,

antigens(immune cells)

marrow (monocytes)

> Langerhans cells

and process foreign

> Represent 2-8% of

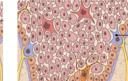
spinosum



- > Are found in the stratum basale
- > Are most abundant in the fingertips

Do PAMINE

- > Are closely associated with afferent (sensory) unmvelinated Axons > Function as light touch
- receptors (mechanoreceptors





The dermis lies immediately beneath the epidermis and is much thicker.

► It is responsible for the elasticity and strength of skin

 Contains blood vessels and nerve supply It supplies the epidermis with nutrients,

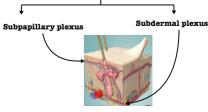
and plays an important role in thermoregulation
> Is derived from mesoderm

Reticular layer of Papillary laver of dermis dermis (Dense irregular (Loose connective connective tissue) tissue)

The dermis

Is important in giving the skin it overall strength (collagen l) and elasticity (elastic fibers)

The blood vessels form two major plexuses:-For Thermoregulation



The acid mantle is a very fine, slightly film on the surface of human skin

Is made up of natural oils, sweat, and dead skin cells, and is slightly more acidic in

to prevent harmful (naturally alkaline) contaminants from penetrating and damaging the skin



