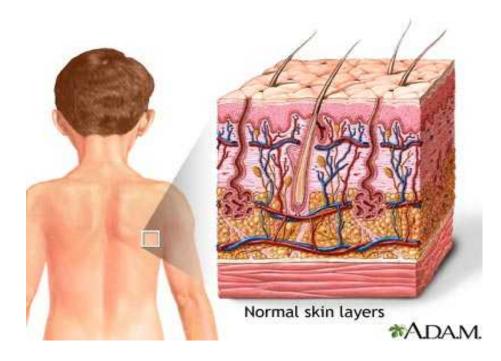
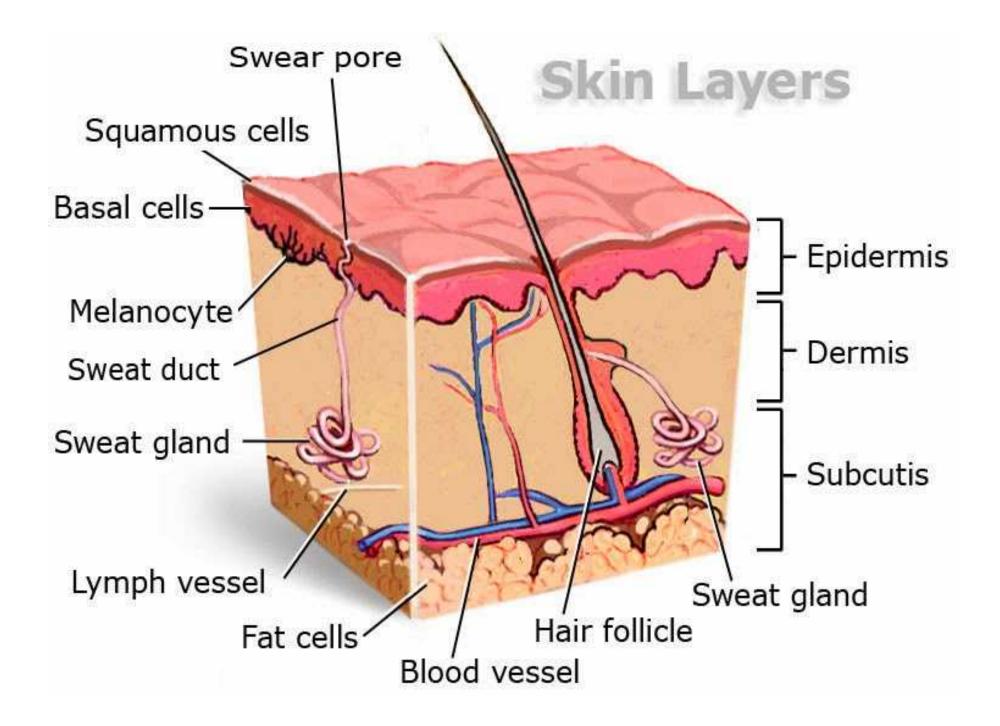
The Integumentary System

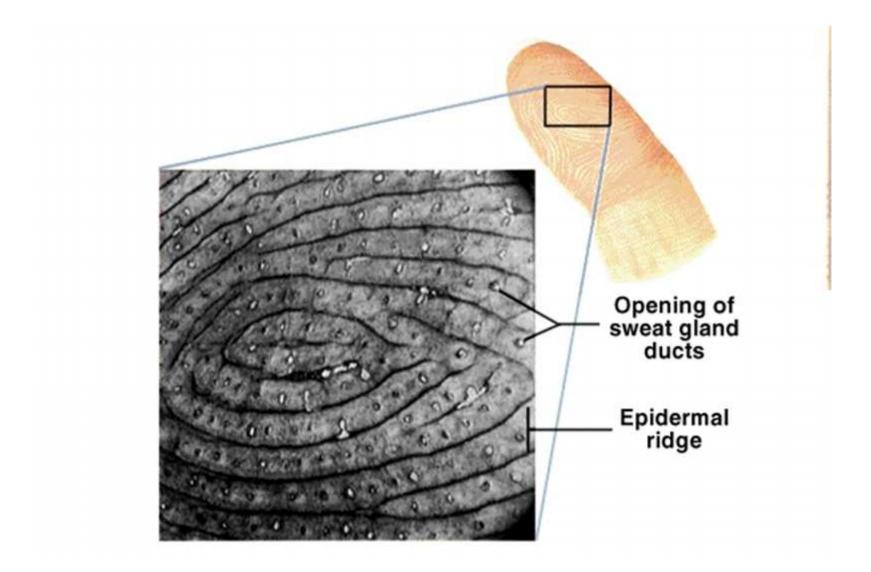


Epidermis and Dermis

- –Epidermis is avascular (no blood vessels)
- –Dermis is highly vascular (has blood vessels)
- Epidermis receives nourishment from dermis
- -Cells far away from nourishment die
- -subcutaneous layer



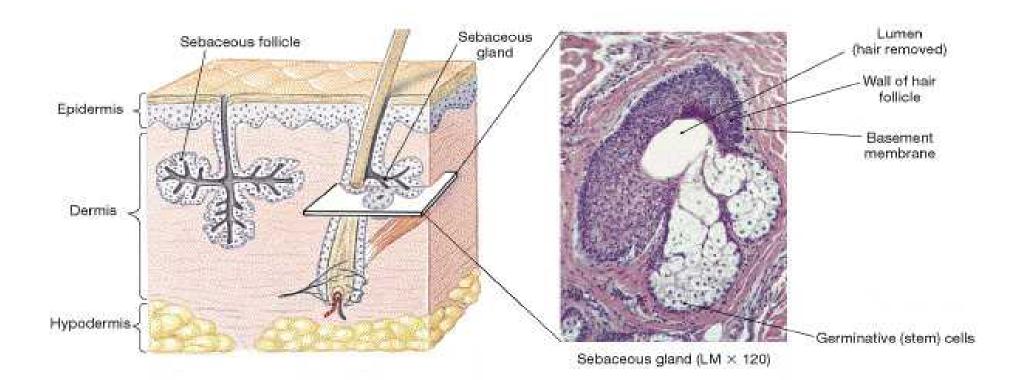
Fingerprints



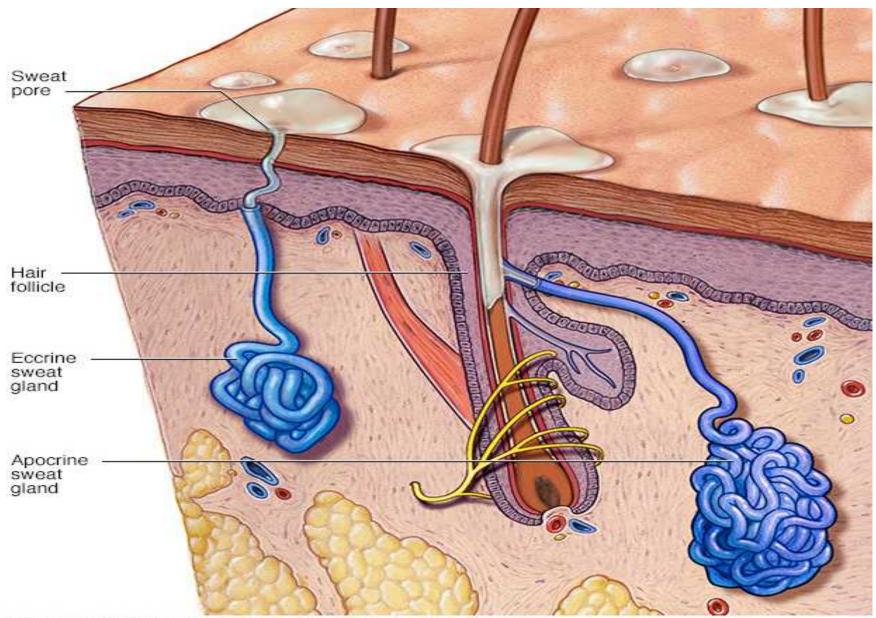
What Else Comes from the Epidermis?

–Hair –Glands –Nails

Sebaceous Glands



The Skin with Sweat Glands



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Functions of Hair

Protection
Thermoregulation
Sensory
Minor role in humans

Glands

• Glands:

Sebaceous glands

Sweat glands

- Eccrine- open to pore on skin surface
 - Found just about everywhere
 - Produce "perspiration"
 Water, salt, Wastes
 - Function cooling of the body Apocrine- empty in hair follicles

Functions of the Skin

- Protection
- Sensation
- Heat regulation
- Control of evaporation.
- Aesthetics and communication
- Storage and synthesis
- Excretion
- Absorption
- Water resistance