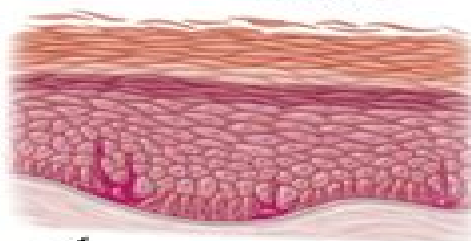


- The skin (or integument) is the largest organ in the body and has many functions, including protection, sensation, thermoregulation, and some metabolic processes • Different areas of the body have different functional characteristics, such as thickness, color, and the presence of epidermal appendages (hair, glands, and nails)
- Skin is formed by two layers: the epidermis and the dermis
- Thin skin is classified as thin, but skin of the palms and soles of the feet is classified as thick • In thick skin, the epidermis is thickened, but not the dermis • Skin thickness ranges from 0.5 mm to over 5 mm

Figure 1: Layers of the Epidermis (Cross Section)



- Stratum corneum**
 - Outermost "horny layer" of thin squamous cells that are continuously shed and replaced on the surface • The cytoplasm of these cells is replaced by water-repelling keratin • Functions as a barrier to water loss and threats from the environment
- Stratum lucidum**
 - "Clear layer" that is especially prominent in thick skin • Cell nuclei are generally absent, and the cells are filled with a soft gel-like substance called elastin, which eventually becomes keratin
- Stratum granulosum**
 - "Granular layer" where keratinization begins • Cell nuclei are either absent or degenerate • This layer may be absent in thin skin
- Stratum spinosum**
 - "Spiny layer" where protein synthesis occurs for keratin production
 - This layer accounts for most of the skin's thickness
- Stratum basale**
 - Single "base layer" of columnar cells where cell division occurs • Cells migrate from here to the upper layers and are eventually shed • Melanocytes, which are cells that produce the pigment melanin, are found in this layer • Difference in skin color are due to the amount of melanin produced, not the number of melanocytes
- Stratum germinale**
 - "Growth layer" referring to the stratum spinosum and stratum basale together

Figure 2: Cross Section of Generic Skin Area

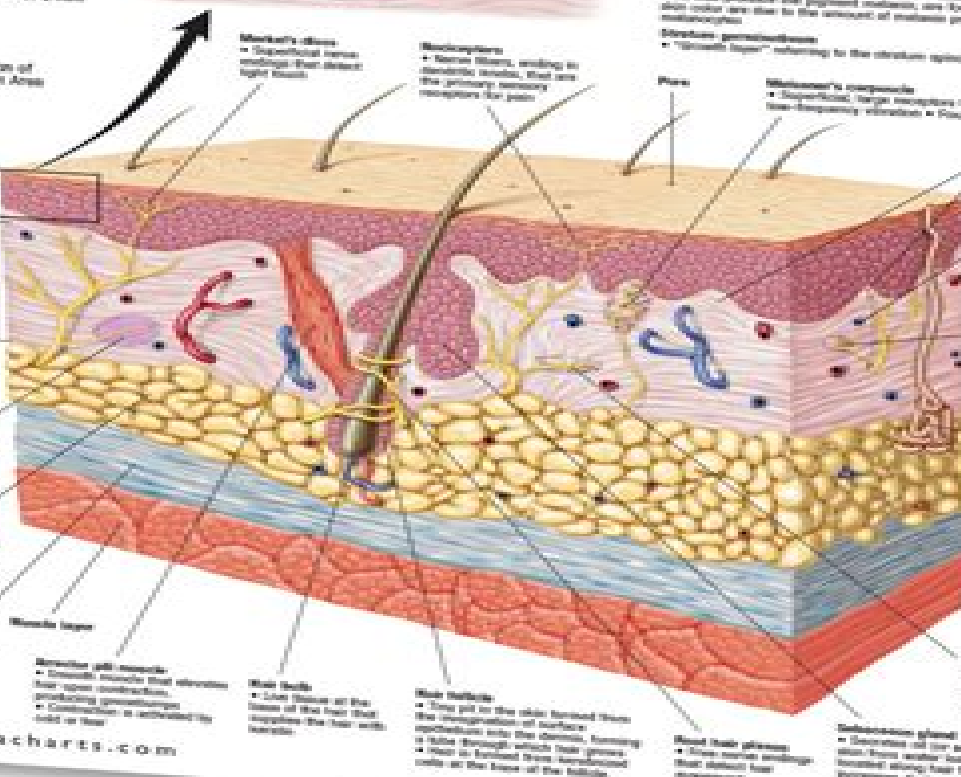
- Epidermis**
 - Outer, thin layer of the skin • Consists of layers of stratified squamous epithelium
 - Lacks blood vessels and has few nerve endings • Contains ridges on the body with thickened areas on the palms and soles, and thinnest on the eyelids

- Dermis**
 - Inner, thicker connective tissue layer of the skin • Composed mostly of collagen fibers, with some elastic fibers and reticular fibers
 - Contains specialized structures such as hair follicles, sweat and sebaceous glands, blood vessels, nerves, and lymphatic vessels

- Position receptors**
 - Nerve receptors found in deep skin that respond to deep pressure
 - Mainly found in the hands and feet

- Subcutaneous layer (Hypodermis)**
 - Connective tissue layer below the skin containing a large amount of fat
 - Contains the major blood vessels and nerves to the overlying skin

- Sweat glands**
 - Membranous facial sheet covering the skin and subcutaneous layer from underlying muscle and other structures



- Stratified squamous epithelium**
 - Composed of many layers of flat cells, with the outermost layer being the thickest

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- Merkel's discs**
 - Superficial nerve endings that detect light touch

- Meissner's corpuscles**
 - Superficial nerve endings that detect light touch

- Pacinian corpuscles**
 - Deep nerve endings that detect deep pressure

- Dermis papillae**
 - Fingerprints

- Arteries, veins, and lymphatics**
 - Supply blood to the skin

- Eccrine sweat glands**
 - Supply sweat to the skin

- Sebaceous glands**
 - Secrete sebum to the skin

- Hair follicles**
 - Grow hair from the skin

- Hair shafts**
 - The part of the hair that is visible above the skin

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- Hair follicle**
 - Tiny pit in the skin formed from the invagination of surface epithelium into the dermis, forming a tube through which hair grows
 - Root is formed from keratinized cells at the base of the follicle

- Hair shaft**
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Functions Of The Skin Study Guide

Scott C. Dulebohn



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