

THE SKIN

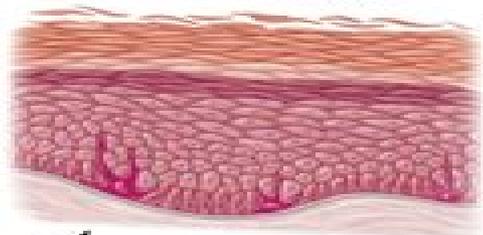
2ND EDITION

• 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

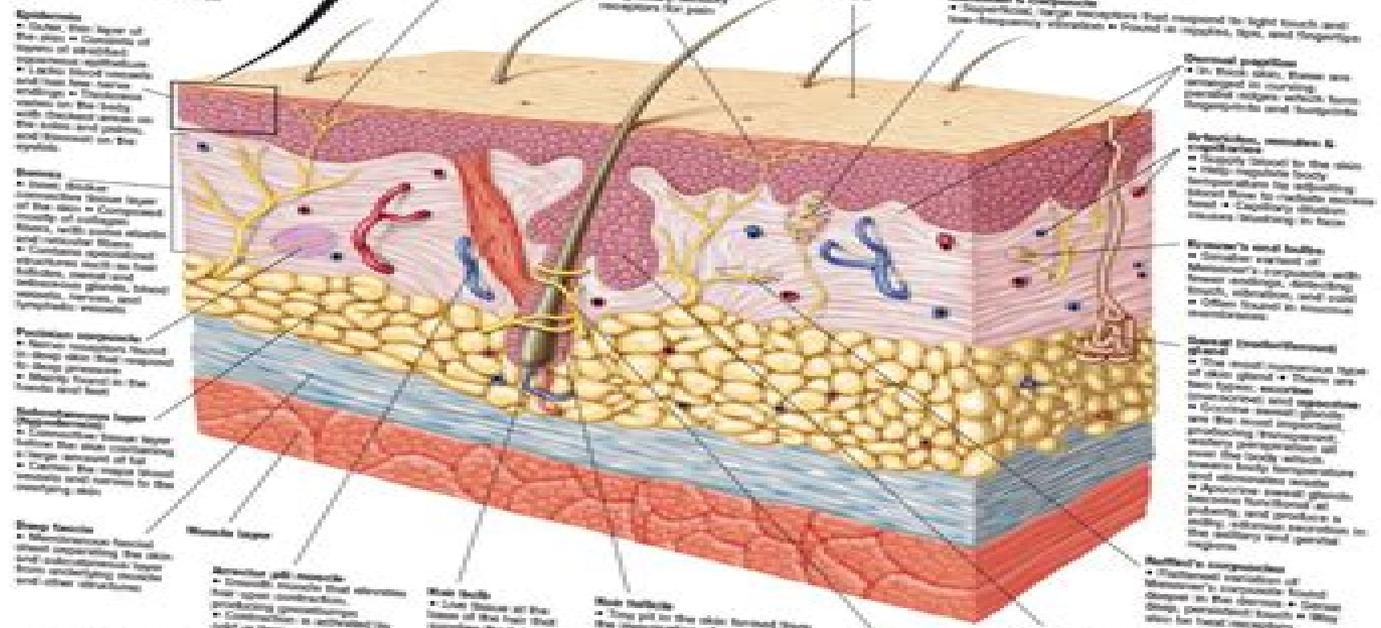
• Upper skin is classified as thin, but skin of the palms and soles of the feet is classified as thick • In thick skin, the epidermis is thickened, but not the dermis • Skin thickness ranges from 0.5 mm to over 5 mm

Figure 1: Layers of the Epidermis (Cross Section)



- Stratum corneum**
 - Outermost "thick layer" of thin squamous cells that are continuously shed and replaced on the surface • The cytoskeleton of these cells is replaced by keratinizing keratin • Functions as a barrier to water loss and bacteria from the environment
- Stratum lucidum**
 - "Clear layer" that is especially prominent in thick skin • Cell nuclei are generally absent, and the cells are flat with a soft gel like substance called elastin, which prevents excessive tearing
- 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 contains, primarily under a microscope
- Stratum basale**
 - Single "base layer" of columnar cells where mitosis occurs • Cells migrate from 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 germinativum**
 - "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
 - 1 mils thick (except on the feet)
 - Contains melanocytes on the sides and palms, and dendritic on the palms
- Dermis**
 - Thick (middle) layer underneath the epidermis
 - 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
- Papillary dermis**
 - Nerve receptors found in the skin that respond to deep pressure
 - Usually found in the hands and feet
- Subcutaneous layer (Hypodermis)**
 - Deepest layer below the skin consisting of adipose tissue
 - Contains the major blood vessels and nerves to the underlying skin
- Deep fascia**
 - Membranous fascial sheet underlying the skin and subcutaneous layer from underlying muscles and other structures
- Stratum corneum**
 - Outermost layer of the epidermis
 - Composed of multiple layers of dead, flattened keratinocytes
 - Functions as a barrier to water loss and bacteria
- Stratum lucidum**
 - Thin, clear layer between the stratum corneum and stratum granulosum
 - Composed of keratin and elastin
- Stratum granulosum**
 - Layer of the epidermis where keratinization begins
 - Contains keratinocytes in various stages of maturation
- Stratum spinosum**
 - Layer of the epidermis where protein synthesis occurs for keratin production
 - Contains keratinocytes connected by desmosomes
- Stratum basale**
 - Deepest layer of the epidermis
 - Composed of a single layer of columnar keratinocytes
- Melanocytes**
 - Specialized cells in the stratum basale that produce melanin
 - Responsible for skin color
- Sebaceous gland**
 - Associated with hair follicles
 - Produces sebum, which lubricates the skin and hair
- Sweat gland**
 - Eccrine sweat glands: produce sweat for cooling
 - Apocrine sweat glands: produce odoriferous sweat
- Hair follicle**
 - Structure from which hair grows
 - Consists of the hair shaft and the hair bulb
- Hair bulb**
 - Base of the hair follicle
 - Contains the hair matrix
- Hair matrix**
 - Region of the hair bulb where new hair cells are produced
- Hair shaft**
 - The part of the hair that is visible above the skin surface
- Sebaceous gland**
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Functions Of The Skin Study Guide

Lingsheng Yao



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