

INTERGUMENTARY SYSTEM

INTEGUMENTARY SYSTEM

- consists of the skin and its accessory organs hair, nails, and cutaneous glands
- Inspection of the skin, hair, and nails is significant part of a physical exam

THE SKIN

- The body's largest and heaviest organ
 - covers area of 1.5 -2.0 m²
 - 15 % of body weight
- Consists of two layers:
 - >**epidermis** - stratified squamous epithelium
 - >**dermis** - connective tissue layer
 - >**Hypodermis** - another connective tissue layer below the dermis
 - Most skin is 1 - 2 mm thick
 - Ranges from 0.5 mm (eyelids) to 6 mm between shoulder blades

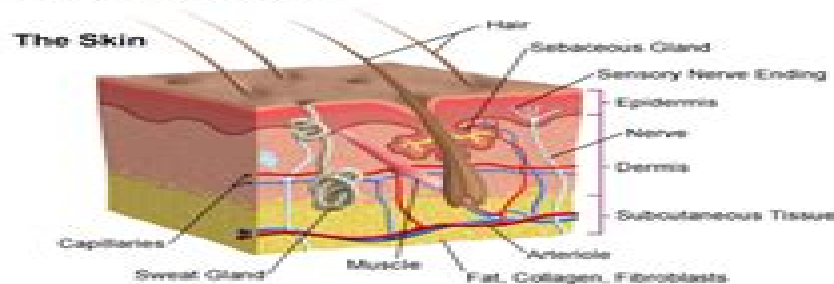
Skin is the most vulnerable organ exposed to radiation, trauma, infection, and ~~injurious chemicals~~

Thick skin - on palms, sole, corresponding surfaces on fingers and toes

- has sweat glands; no hair follicles or sebaceous (oil) glands
- epidermis 0.5 mm thick

Thin skin - covers rest of the body epidermis about 0.1 mm thick possesses hair follicles, sebaceous glands and sweat glands

SKIN STRUCTURE



FUNCTIONS OF SKIN

1. **Protection** - provides protection against abrasion and UV light
 - also prevents microorganism from entering the body & reduces water loss, thus preventing dehydration
2. **Vitamin D synthesis/ production** - when exposed to UV light, the skin produces a molecule that can be transformed into Vit. D, an important regulator of calcium homeostasis
3. **Sensation** - sensory receptors that detect heat, cold, touch, pressure and pain.
4. **Thermoregulation** - help regulate body temperature
5. **Nonverbal communication** - acne, birthmark, or scar
6. **Transdermal absorption** - administration of certain drugs steadily through thin skin - adhesive patches
7. **Excretion** - small amount of waste products are lost through the skin & in gland secretions

THE EPIDERMIS

Questions And Answers On Intergumentary System And Body Membranes

R Pring



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