

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

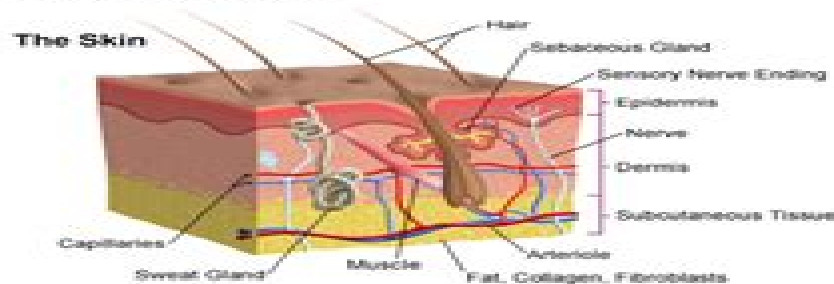
Skin is the most vulnerable organ exposed to radiation, trauma, infection, and *injurious chemicals*.

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

Hongru Du



Questions And Answers On Intergumentary System And Body Membranes:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Questions And Answers On Intergumentary System And Body Membranes**

In some sort of inundated with monitors and the cacophony of immediate transmission, the profound power and mental resonance of verbal beauty often fade in to obscurity, eclipsed by the constant assault of noise and distractions. Yet, nestled within the lyrical pages of **Questions And Answers On Intergumentary System And Body Membranes**, a charming work of fictional beauty that pulses with fresh emotions, lies an unforgettable journey waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this interesting opus instructions viewers on an emotional odyssey, delicately exposing the latent possible and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main subjects, dissect its charming publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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