

Integumentary System: Skin & Body Membranes

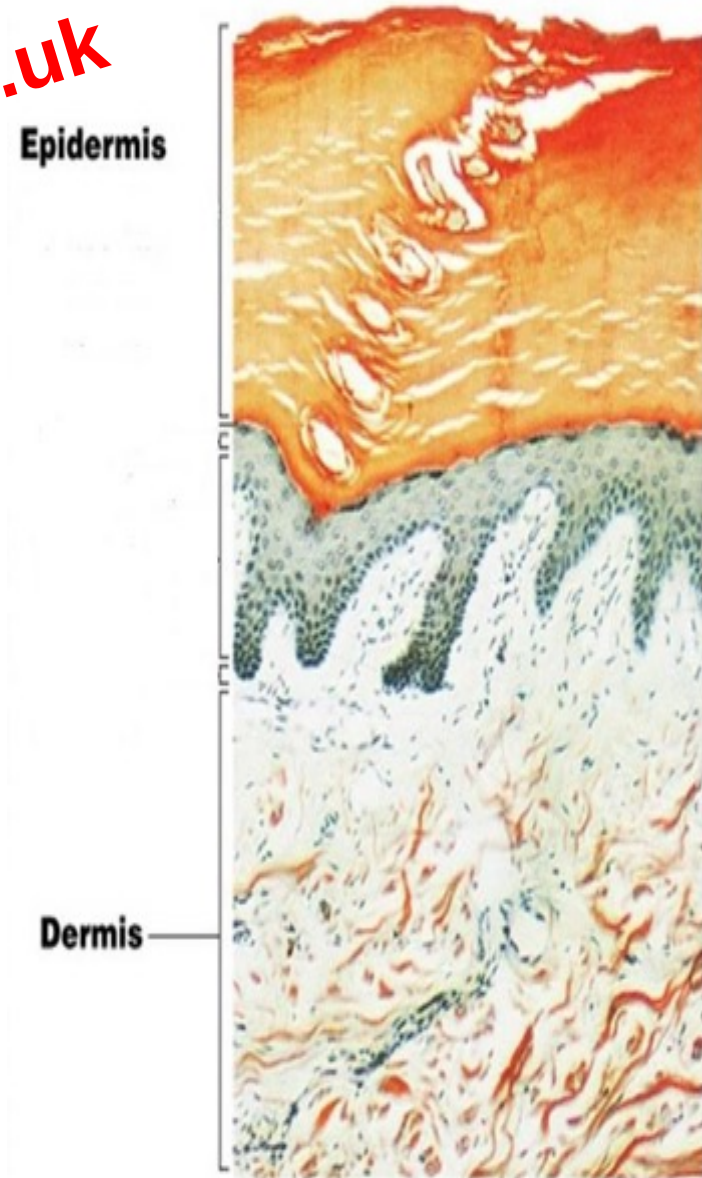
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Chapter 4



Skin Structure

- The epidermis and dermis are highly connected
- Burn or friction can cause separation
- Extracellular fluid leaks in and causes blisters
- Double layer of papillae on foot and hands (prevent tearing, and facilitate gripping)



Appendages of the Skin (cont'd)

Hair

- Has lost much of its usefulness
- Used to keep our ancestors warm

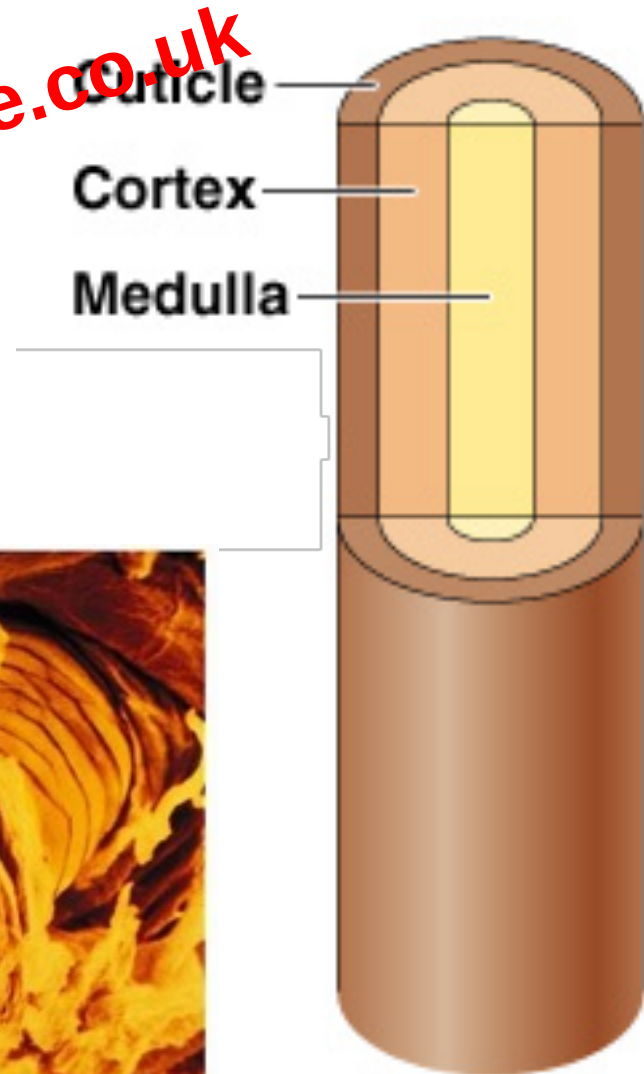
Now...

- Protects head from bumps
- Shields eyes
- Keeps particles out of respiratory system

Hair Shaft Anatomy

- Medulla (center part)
- Cortex surrounds medulla
- Cuticle on outside of cortex
 - Most heavily keratinized

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(b) Hair

UV radiation and Skin

- Small amounts of UV are good for people
 - Essential in the production of vitamin D
- Prolonged exposure to UV radiation may result in acute and chronic health effects:
 1. Sunburn
 2. Actinic keratoses are skin growths that occur on areas exposed to the sun
 3. Premature aging
 4. Skin Cancer
- All people are susceptible to these problems regardless of skin darkness

Common Skin Infections

Infections and allergies

- Contact dermatitis
 - Exposures cause allergic reaction
- Impetigo
 - Caused by bacterial infection
- Psoriasis
 - Cause is unknown
 - Triggered by trauma, infection, stress



(a) Cold sores



(b) Impetigo



(c) Psoriasis