# CHAPTER 5

# The Integumentary System

#### 5.1 - THE SKIN CONSISTS OF 2 LAYERS: THE **EPIDERMIS AND DERMIS**

- 2 lavers:
  - 1. Epidermis: Composed of epithelial cells; outermost protective shield of the body
    - Epi = Upon
  - 2. Dermis: Underlying bulk of skin; tough, leathery layer composed mostly of dense connective tissue
    - o Highly wascullarized.
- Nutrients reach epidermis by diffusing through tissue fluid via BV in the dermis
  - Hypodermis (Subcutaneous) Tissue: Subcutaneous tissue deep to skin
    - Not part of skin; also known as superficial facia

    - Stores adipose tissue; shock absorber and insulator ( 4 heat loss)
    - Anchors the skin to the underlying structures.
- Sliding skin protects by ensuring many blows bounce off the skin

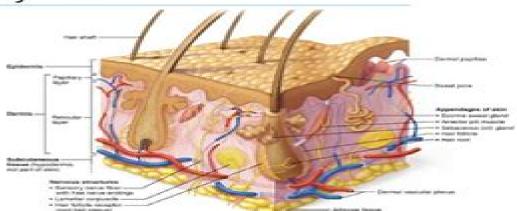
#### 5.2 - THE EPIDERNIS IS A KERATINIZED STRATIFIED SQUAMOUS EPITHELIUM

#### SUPERFICIAL

- There are 4 or 5 layers of the epidermis:
  - (i) Stratum Corneum
  - (iii) Stratum Lucideum
  - (iii) Stratum Granulosum
  - (iv) Stratum Spinosum
  - (v) Stratum Basale

#### DEEP

- 4 distinct cells:
  - (ii) Keratinocytes
  - (iii) Melanocytes
  - (iii) Dendritic (Langerhans) Cells
  - (iv) Tactile (Merkel) Cells



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Scott C. Dulebohn

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