# CHAPTER 5

## The Integumentary System

# 5.1 — THE SKIN CONSISTS OF 2 LANERS: THE EPIDERWIS AND DERMIS.

- 2 lavers:
  - Epidermis: Composed of epithelial cells; outermost protective shield of the body
    - o Epi = Upon
  - Dermis: Underlying bulk of skin; tough, leathery layer composed mostly of dense connective tissue
    - Highly vascularized
- Nutrients reach epidermis by diffusing through tissue fluid via BV in the dermis
- Equation of the control of the contr
- Hypodermis (Subcutaneous) Tissue: Subcutaneous tissue deep to skin
  - Not part of skin; also known as superficial facia
  - Stores adipose tissue; shock absorber and insulator ( \$\psi\$ heat loss)
  - Anchors the skin to the underlying structures.
- Sliding skin protects by ensuring many blows bounce off the skin.

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

#### SUPERFICIAL

- There are 4 or 5 layers of the epidermis:
  - (i) Stratum Corneum
  - (II) Stratum Lucideum
  - (III) Stratum Granulosum
  - (N) 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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