

CHAPTER 5

The Integumentary System

5.1 – THE SKIN CONSISTS OF 2 LAYERS: THE EPIDERMIS AND DERMIS

- 2 layers:
 - Epidermis:** Composed of epithelial cells; outermost protective shield of the body
 - 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
- Hypodermis (Subcutaneous) Tissue:** Subcutaneous tissue deep to skin
 - Not part of skin; also known as superficial fascia
 - Stores adipose tissue; shock absorber and insulator (↓ 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



DEEP

- There are 4 or 5 layers of the epidermis:
 - Stratum Corneum
 - Stratum Lucideum
 - Stratum Granulosum
 - Stratum Spinosum
 - Stratum Basale
- 4 distinct cells:
 - Keratinocytes
 - Melanocytes
 - Dendritic (Langerhans) Cells
 - Tactile (Merkel) Cells

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Mr. Rohit Manglik



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8 threads per inch tpi for diameters above one inch

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using an allen key hex wrench or hex key sa193m carriage bolt a193 eye bolts and machine bolts available in 1 2 inch to 52
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