Study Guide for Anatomy & Physiology Skin System

The skin and its appendages make up the integumentary system. The skin is an organ that performs a vital function for our body. It helps our body control its temperature, protect us from UV radiation and other environmental hazards. In addition, the sensors in our skin keep us protected by making us aware of conditions that could harm us.

Skin is composed of these layers from superficial to deep:

- Epidermis: The superficial layer made up of stratified squamous epithelial tissue that contains four distinct types of cells: Keratinocytes, Melanocytes, Merkel Cells, and Langerhans Cells – the specific layers of the epidermis from superficial to deep are:
 - Stratum Corneum multiple layers of squamous, lifeless, keratin-filled cells

Stratum lucidem - only found in palms of hand and sole of feet - extra thin layer of - squamous keratinocytes found in thick skin)

- Stratum granulosum flattened keratinocytes in a lipidrich layer for impermeability
- Stratum spinosum several layers of keratinocytes contains melanocytes
- Stratum basale single layer of cuboidal cells germinating cells (mitosis)
- Dermis: a fibrous connective tissue that is below the epidermis it has two sublayers (from superficial to deep)
 - 1. Papillary layer areolar connective tissue (loose irregular)
 - 2. Reticular Layer dense irregular connective tissue
- Hypodermis: NOT TECHNICALLY PART OF THE INTERGUMENTARY SYSTEM this is a fatty layer below the dermis made of adipose tissue and separates the skin from skeletal muscle

Appendages of the Skin

Sebaceous Glands: known as oil glands and produce an oily product call sebum. Found everywhere expect the palms and soles.

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