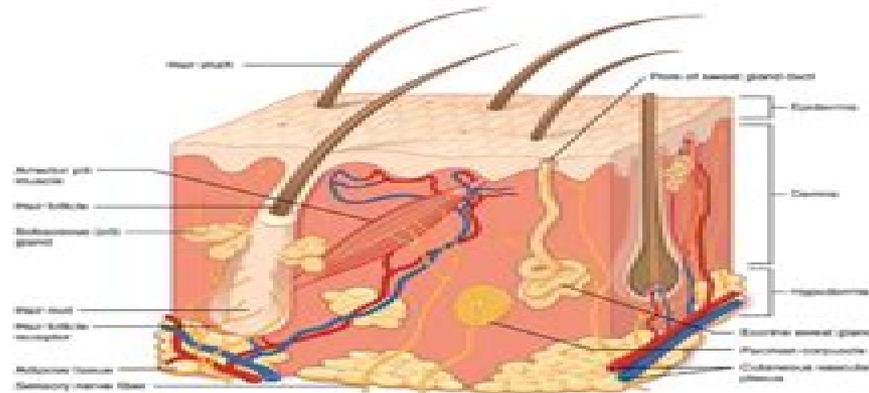


Chapter 4- The Integumentary System

Section 1: Functional Anatomy of the Skin

Integumentary system, or the integument, has two major components.

- **Cutaneous membrane**, or skin, including the epidermis and papillary layer of the dermis.
- **Accessory structures** including the hair, nails, and a variety of exocrine glands.



- Cutaneous Membrane:
 - The Epidermis
 - Dermis
 - Papillary layer
 - Reticular layer
- Hypodermis
- Accessory Structures
- Artery
- Vein
- Cutaneous Plexus

Functions of the Integumentary System:

- Protect underlying tissues and organs against impact abrasion, fluid loss, and chemical attack
- Excrete salt, water, and organic wastes by integumentary glands
- Maintain normal body temperature through either insulation or evaporative cooling, as needed
- Produces Melanin, which protects underlying tissues from ultraviolet radiation
- Produces keratin, which protects against abrasion and repels water
- Synthesize vitamin D₃
- Store lipids in the dermis and in adipose tissue in the hypodermis
- Detect touch, pressure, and temperature stimuli
- Coordinate immune response to pathogens and skin cancers

The epidermis is composed of layers with various functions.

- Epidermis is dominated by keratinocytes
 - These cells form several layers or strata
- Deeper layers of the epidermis form epidermal ridges, adjacent to dermal papillae
 - **Dermal papillae** a nipple shaped mound creating ridges or dermal projections
 - Greatly increases the surface area for attachment, binding the epidermis to the dermis

Integumentary System Packet Answers

Huangqi Zhang



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Study Guide to Accompany Anatomy and Physiology Kalyani Premkumar,2011-03-16 The 3rd edition of Anatomy and Physiology ties anatomy and physiology to situations massage therapy students will face in practice and makes this material accessible to facilitate learning This accompanying study guide helps students apply their knowledge and ensure their understanding of the content covered

Body of Evidence: The Integumentary System DVD ,2011-05-27 Skin serves to waterproof cushion and protect deeper tissues In addition to numerous other vital roles it provides Vitamin D synthesis and protects against infectious organisms Other parts of the integumentary system include the skin s glands and appendages such as hair and nails The skin is the largest organ in the body and the one we are probably most familiar with It is right there before our eyes every day but without the aid of a microscope we cannot really appreciate its complexity and many important functions Our very life on this planet depends on a dead layer of epithelial cells no thicker than refrigerator shrink wrap The connective tissue of our dermis is woven in a way to make our skin tough but elastic Our sweat glands control our body temperature and allow us to work in hot weather Our pigment cells protect our skin from the sun s radiation And wait till you see through the technology of high magnification the marvelous complexity of the hair follicle and hair Part 1 45 mins Part 2 48 mins

The Medical Transcription Workbook Linda C. Campbell,Diane S. Heath,Sally C. Pitman,1999

Study Guide [for] Charles Seiger,2000

Study Guide for The Human Body in Health & Disease Linda Swisher, RN, EdD,Kevin T. Patton, PhD,Gary A. Thibodeau, PhD,2013-02-15 Reinforce your understanding of the concepts in Patton and Thibodeau s The Human Body in Health Disease 6th Edition Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to the anatomy and physiology of the human body and body function in health and disease A variety of exercises make it easy to review and apply key concepts and labeling of anatomy drawings helps you learn

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