

Lab 3: Integumentary System

Learning outcomes of the lab exercises:

1. Locate on microscope slides and classroom models the major structures of the skin.
2. Describe the major functions of the skin.
3. Distinguish the locations and components of the epidermis, dermis and hypodermis.
4. Identify and sketch regions of the skin and associated accessory structures such as hair and glands that were observed on the microscope slides.

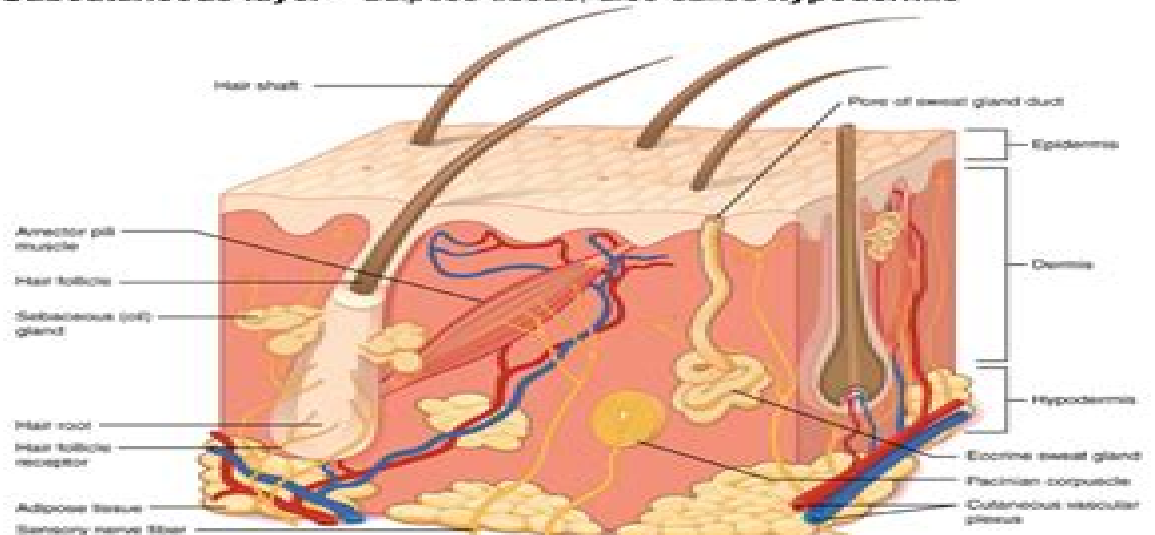
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It also has numerous sensory, and autonomic and sympathetic nerve fibers ensuring communication to and from the brain."

OpenStax A&P pg. 180

I. **SKIN AND ITS TISSUES (Cutaneous Membrane)**

A. **General Structure:**

1. Two distinct regions or layers compose the skin:
 - a. **Epidermis** = outermost layer;
 - keratinized stratified squamous ET.
 - b. **Dermis** = inner layer;
 - glandular epithelium (sweat, sebaceous glands),
 - dense irregular CT (collagen),
 - smooth muscle tissue (arrector pili muscles),
 - nervous tissue (Meissner's & Pacinian Corpuscles), and
 - hair follicles and blood vessels
2. **Subcutaneous layer** = adipose tissue; also called **hypodermis**



36 3 The Integumentary System

**United States. Surgeon-General's
Office**



36 3 The Integumentary System:

Report of the Surgeon-General, United States Army, to the Secretary of War United States. Surgeon-General's Office,1882 **Report of the Surgeon-General of the Army to the Secretary of War for the Fiscal Year Ending ...** United States. Surgeon-General's Office,1889 Provides data statistical and tabular on the operations and activities of the Surgeon General s Office including financial statements reports on health and hygiene in the Army hospitals medical supplies brief agency histories etc *National Cancer Institute Carcinogenesis Technical Report Series* ,1976 The Netter Collection of Medical Illustrations: Integumentary System Bryan E. Anderson,2012-02-27 The Integumentary System by Bryan E Anderson MD takes a concise and highly visual approach to illustrate the basic sciences and clinical pathology of the skin hair and nails This newly added never before published volume in The Netter Collection of Medical Illustrations formerly the CIBA Green Books captures current clinical perspectives on the integumentary system from normal anatomy and histology to pathology dermatology and common issues in plastic surgery and wound healing Using classic Netter illustrations and new illustrations created in the Netter tradition as well as a great many cutting edge histologic micrographs and diagnostic images it provides a vivid illuminating and clinically indispensable view of this body system Gain a rich holistic clinical view of every structure by seeing classic Netter anatomic illustrations cutting edge histologic images and diagnostic imaging studies side by side Visualize the most recent topics in cutaneous pathology such as sporothrix and cutaneous t cell lymphoma as well as classic problems like alopecia and neurofibromatosis informed by the latest developments in molecular biology and histologic imaging See current dermatologic concepts captured in the visually rich Netter artistic tradition via major new contributions from Netter disciple Carlos Machado MD making complex concepts easy to understand and remember through the precision clarity detail and realism for which Netter s work has always been known Get complete integrated visual guidance on the skin hair and nails in a single source from basic sciences and normal anatomy and function through pathologic conditions Adeptly navigate current controversies and timely topics in clinical medicine with guidance from the Editor and informed by an experienced international advisory board *Statistical Register of the Colony of the Cape of Good Hope* ,1906 **Elihu Root Collection of United States Documents** ,1895 *Annual Report of the Secretary of War* United States. War Department,1900 **Proceedings of the Parliament of South Australia** South Australia. Parliament,1884 *Annual report of the Surgeon General, U. S. Navy, ... relative to statistics of diseases and injuries in the United States Navy. 1883* ,1884 **The Science and practice of medicine v. 2** William Aitken,1868

Parliamentary Papers Great Britain. Parliament. House of Commons,1902 **Elihu Root Collection of United States Documents Relating to the Philippine Islands** ,1900 **Annual Report of the Secretary of the Navy** United States. Navy Department,1885 *weekly returns of birth and deaths in dublin* ,1874 *Photocarcinogenesis Study of Aloe Vera [CAS No. 481-72-1 (Aloe-emodin)] in SKH-1 Mice (Simulated Solarlight and Topical Application Study)* Nancy

Kerkvliet,2011-06 Extracts from the Aloe Vera plant are widely used in skin care products This pub reports on a study of the effects of synthetic solar light on the skin of hairless mice that had been treated with creams containing various Aloe Vera extracts The study concludes that Aloe gel or Aloe emodin had a weak enhancing effect on the photocarcinogenic activity of simulated solar light in female but not male hairless mice The study concludes that Aloe whole leaf extract and decolorized leaf extract had a weak enhancing effect on the photocarcinogenic activity of simulated solar light in both male and female hairless mice Illustrations This is a print on demand edition of an important hard to find publication Mortality Experience of the Prudential Assurance Company in the Industrial Branch for the Years 1867: 1868: 1869: 1870 Henry Harben,1871

Report of the Secretary of War, which Accompanied the Annual Message of the President of the United States, to Both Houses of the ... Congress ,1900 The Vital Statistics of the United States United States. Census Office,Francis Amasa Walker,1990 *Mortality of the United States* United States. Census Office,1870 **Administration Reports ...** ,1907

36 3 The Integumentary System Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **36 3 The Integumentary System**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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Table of Contents 36 3 The Integumentary System

1. Understanding the eBook 36 3 The Integumentary System
 - The Rise of Digital Reading 36 3 The Integumentary System
 - Advantages of eBooks Over Traditional Books
2. Identifying 36 3 The Integumentary System
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 36 3 The Integumentary System
 - User-Friendly Interface
4. Exploring eBook Recommendations from 36 3 The Integumentary System
 - Personalized Recommendations
 - 36 3 The Integumentary System User Reviews and Ratings

- 36 3 The Integumentary System and Bestseller Lists
- 5. Accessing 36 3 The Integumentary System Free and Paid eBooks
 - 36 3 The Integumentary System Public Domain eBooks
 - 36 3 The Integumentary System eBook Subscription Services
 - 36 3 The Integumentary System Budget-Friendly Options
- 6. Navigating 36 3 The Integumentary System eBook Formats
 - ePub, PDF, MOBI, and More
 - 36 3 The Integumentary System Compatibility with Devices
 - 36 3 The Integumentary System Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 36 3 The Integumentary System
 - Highlighting and Note-Taking 36 3 The Integumentary System
 - Interactive Elements 36 3 The Integumentary System
- 8. Staying Engaged with 36 3 The Integumentary System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 36 3 The Integumentary System
- 9. Balancing eBooks and Physical Books 36 3 The Integumentary System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 36 3 The Integumentary System
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 36 3 The Integumentary System
 - Setting Reading Goals 36 3 The Integumentary System
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 36 3 The Integumentary System
 - Fact-Checking eBook Content of 36 3 The Integumentary System
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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