



Faculty of Applied Science
Medical Technical Radiology
Radiographic and Medical
Terminology I
(MTR109)

Lecture 4

INTEGUMENTARY SYSTEM TERMINOLOGY

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Outline

- What is the Integumentary System?
- Functions of the Integumentary System
- Main Parts of the Integumentary System
- Common Word Roots (Skin-related)
- Common Prefix
- Common Suffix
- Common Integumentary Terms
- Word Breakdown Example
- Class Activity (pop quiz)
- References



Learning outcome

1

By the end of the lesson, students will be able to:

2

Define the **integumentary system** in simple terms

3

Identify the **main parts** of the integumentary system

4

Recognize and understand **common medical terms** related to skin

5

Use **basic prefixes, roots, and suffixes** to understand skin-related terms

What is the Integumentary System?

- The integumentary system is the body system that includes the skin, hair, nails, and glands. It protects the body and helps control temperature.

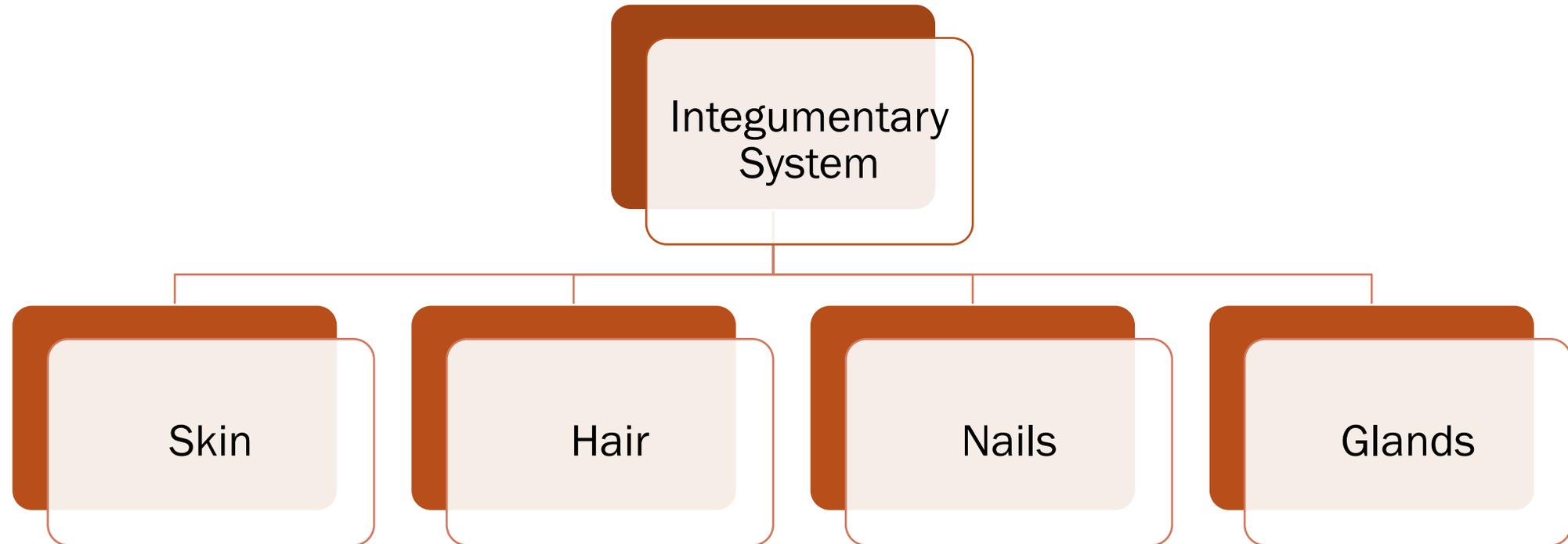




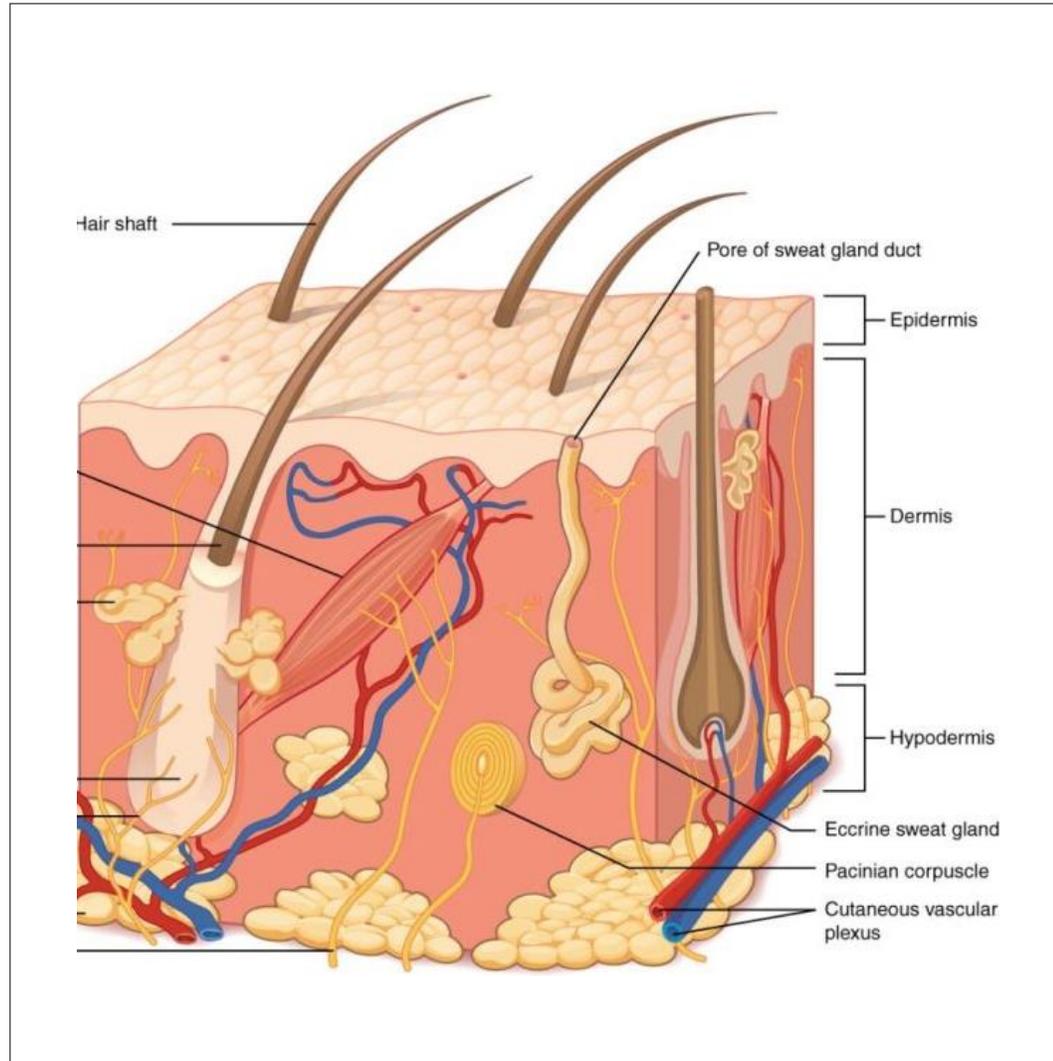
Functions of the Integumentary System

- Protection from germs and injury
- Regulation of body temperature
- Sensation (touch, pain, heat)
- Prevents water loss

Main Parts of the Integumentary System



Skin



- Largest organ of the body
- Covers the whole body
- Protects internal organs
- **Skin Layers:**
- **Epidermis** – outer layer
- **Dermis** – inner layer

Common Word Roots (Skin-related)

Root	Meaning	Example
derm / dermat	skin	dermatitis
cutane	skin	subcutaneous
kerat	hard tissue	keratin
Melan	black	melanin

Common Prefix

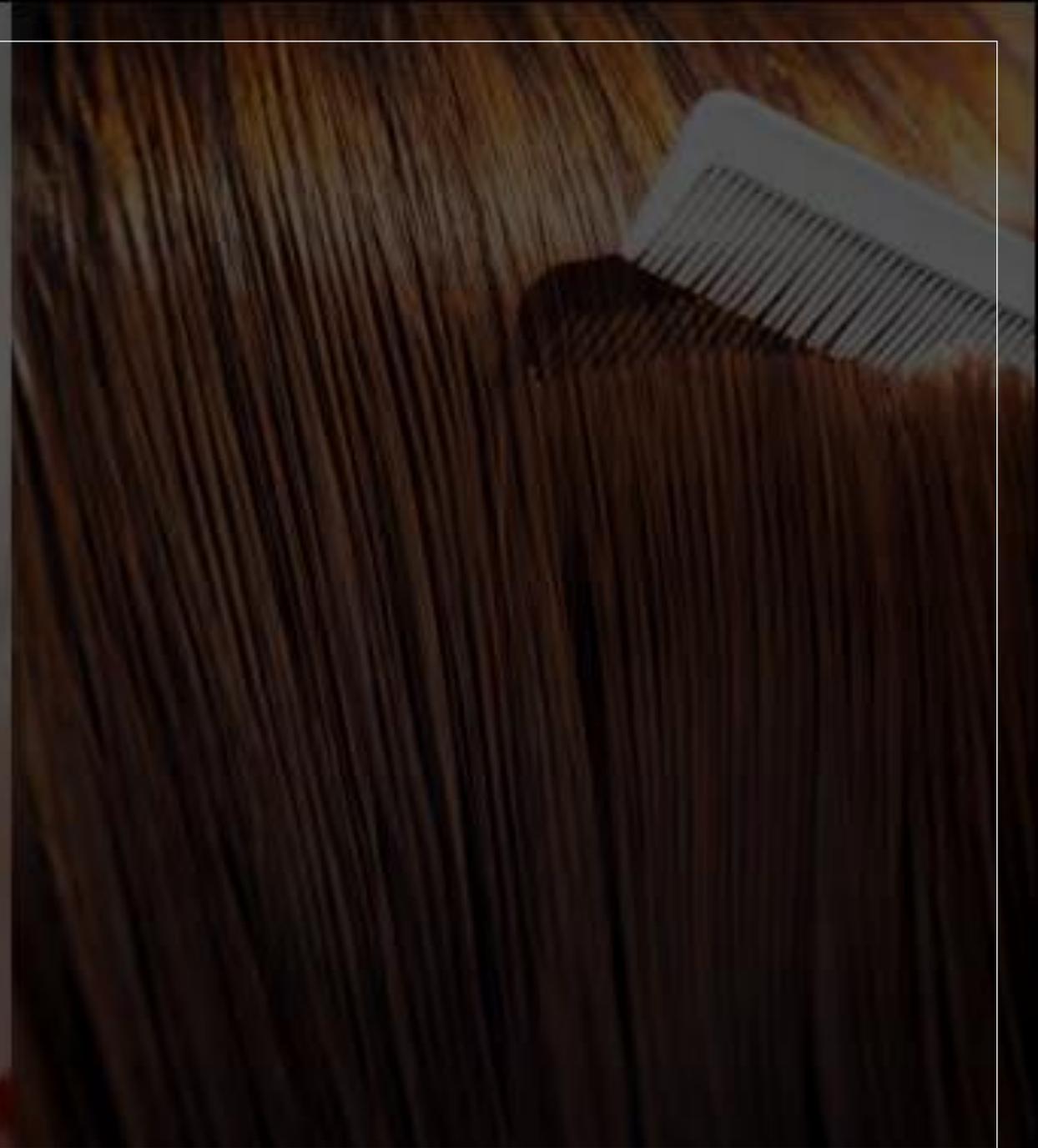
Prefix	Meaning	Example
epi-	upon	epidermis
hypo-	below	hypodermic
sub-	under	subcutaneous

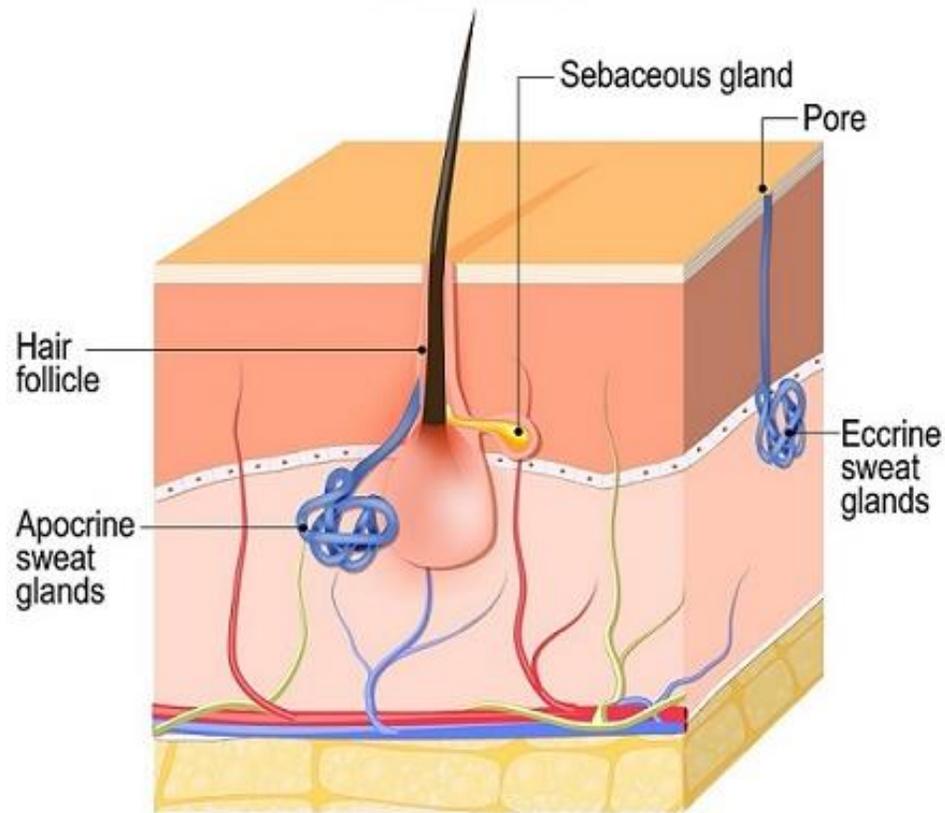
Common Suffix

Suffix	Meaning	Example
-itis	inflammation	dermatitis
-oma	tumor	melanoma
-osis	condition	dermatosis
-Logy	Study of	Dermatology

Hair and Nails

- **Hair**
 - Protects the skin
 - Helps control body temperature
- **Nails**
 - Protect fingers and toes
 - Help in grasping objects





Glands

- an organ or a specialized group of cells that produces and secretes substances—such as hormones, enzymes, or sweat—to be used by the body or eliminated from it.
- **Sweat glands**
 - Produce sweat
 - Control body temperature
- **Sebaceous glands**
 - Produce oil
 - Keep skin moist



Common root world (gland)

- **Root Word: Aden/o** (derived from the Greek *aden*, meaning "acorn" or "gland").
- **Adenoma:** glandular tumor
- Adeno = gland (root word)
- Oma = cancer or tumor (suffix)

Common Integumentary Medical Terms

- **Dermatitis** = Inflammation of the skin
- **Epidermis** = Outer layer of skin
- **Subcutaneous** = Under the skin
- **Melanoma** = Skin cancer
- **Onychomycosis** = A common fungal infection of the nails, also known as nail fungus.

Word Breakdown Example

- **Dermatologist**
- **Dermat** = skin
- **o** = combining vowel
- **logist** = specialist who studies and treats disorders
- **Meaning: A specialist who studies and treats disorders of the skin**

Class Activity (pop quiz)

- Marks: 10
- Time: 10 min





References

- Open Resources for Nursing (Open RN); Ernstmeyer K, Christman E, editors. Medical Terminology [Internet]. 2nd edition. Eau Claire (WI): Chippewa Valley Technical College; 2024. Chapter 3 Integumentary System Terminology. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK607449/>