Anatomical Study of the Skin

Experiment 34 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify the main structures of the skin on models, charts or preserved teaching material.

Principle

Epidermis is an outer barrier; dermis contains connective tissue, vessels, nerves and appendages. Structural relationships help explain the physiological function.

Structures and Functional Link

- Epidermis, dermis, subcutaneous tissue, hair follicle, sweat gland and sebaceous gland.
- Relate surface barrier, sensory receptors and sweating to protection and temperature regulation.
- The epidermis has no blood vessels; the dermis supplies vascular support.

Requirements

- Skin and appendages model or chart
- Institution-approved preserved demonstration material if available
- Labelled drawing sheet

Procedure

1. Orient

Identify the anatomical position and major divisions of the model or chart.

2. Identify

Locate and label: Epidermis, dermis, subcutaneous tissue, hair follicle, sweat gland and sebaceous gland.

3. Trace function

Relate surface barrier, sensory receptors and sweating to protection and temperature regulation.

4. Compare structures

Relate tissue or organ design to its major function.

5. Record

Draw a labelled schematic and explain the functional pathway in your own words.

Observations and Record

Structure / pathway	Identification / function
Main structures	_____
Inlet / outlet or connections	_____
Labelled drawing	_____
Functional pathway	_____
Structure-function explanation	_____

Result

The main structures were identified and labelled as _____. The functional pathway was explained as _____.

Precautions

- Handle museum material only as authorised.
- Use the provided orientation rather than assuming left/right from the viewer's position.
- Do not infer a patient diagnosis from the teaching model.

Viva Questions and Answers

1. Which structures should be identified?

Epidermis, dermis, subcutaneous tissue, hair follicle, sweat gland and sebaceous gland.

2. What pathway should be traced?

Relate surface barrier, sensory receptors and sweating to protection and temperature regulation.

3. What key concept is illustrated?

The epidermis has no blood vessels; the dermis supplies vascular support.

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