Integumentary System Function, Assessment, and Therapeutic Measures Chapter 53 Niomi Quinteros BSN, RN

Normal Integumentary System Anatomy and Physiology

Epidermis, Dermis, and Hypodermis	Hair	Nails
Receptors	Glands	Blood Vessels

Epidermis

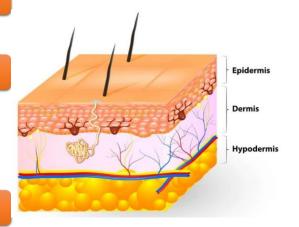
- Outermost layer
- No blood vessels

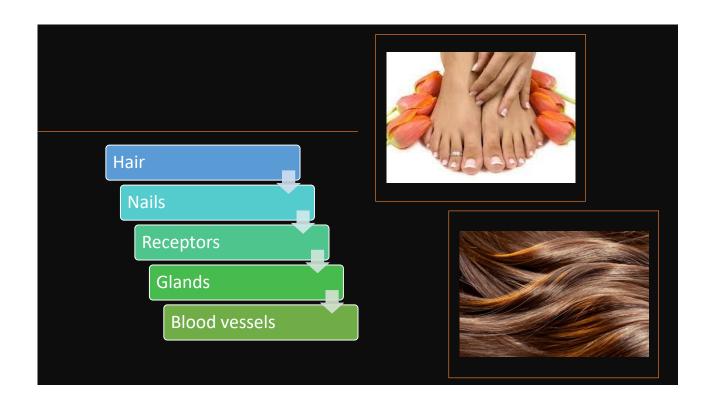
Dermis

- Inner deeper layer
- Abundance of blood vessels
- Sweat glands
- Sebaceous glands
- Nerve endings

Hypodermis

- Subcutaneous layer
- Cushions, insulates, and stores energy





Functions of The Skin

Protection

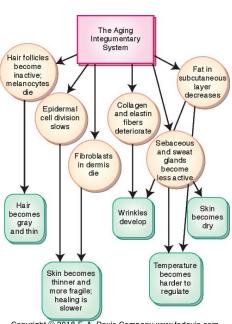
Synthesizes vitamin D with UV

Regulates body heat

Prevents unnecessary water loss

Sensory reception

Aging and the Integumentary System



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Nursing Assessment of the Integumentary System

Health History

Physical Examination

- Inspection
 - Color
 - Lesions
 - Moisture/Dryness
 - Edema
 - Vascular lesions
 - General integrity and cleanliness
- Palpation

Color

Pallor

Erythema

Jaundice

Cyanosis

Brown Coloring













Lesions

Primary

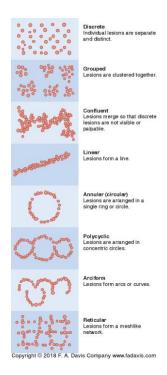
- Macule
- Papule
- Nodule
- Vesicle
- Bulla
- Pustule
- Wheal
- Plaque
- Cyst

Secondary

- Scale
- Crust
- Excoriation
- Fissure
- Ulcer
- Lichenification
- Scar

Configuration

- Discrete
- Grouped
- Confluent
- Linear
- Annular (circular)
- Polycyclic
- Arciform
- Reticular



Moisture/Dryness

- Dryness
- Moisture
- Scales
- Flakes









Edema

- Location
- Distribution
- Color
- Bilateral/Unilateral



Vascular Lesions

- Petechiae
 - Reddish purple spots smaller than 0.5 mm diameter
- Ecchymosis
 - Bruise
 - Blue black to greenish brown or yellow





General Integrity and Cleanliness





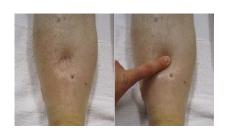


Palpation













Diagnostic Tests for the Integumentary System

Laboratory Tests

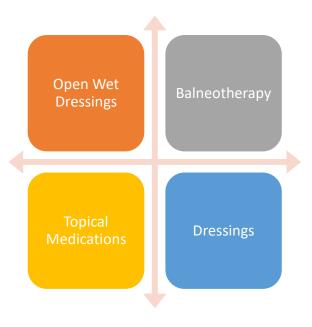
• Cultures

Skin Biopsy

Other Diagnostic

- Wood light examination
- Skin Testing

Therapeutic Measures for the Integumentary System



Nursing Diagnoses

- Impaired Skin Integrity
- Disturbed Body Image
- Self-Care Deficit



Skin Assessment

Skin Assessment

Primary Skin Lesions

Macule	1.	Vesicle or blister larger than 1 cm
	2.	Flat, nonpalpable change in skin color
Papule	3.	Round, transient elevation of the skin
Vesicle		caused by dermal edema and surrounding capillary dilation
Bulla	4.	Patch or solid, raised lesion on the skin or mucous membranes that is greater than 1 cm
Pustule	5.	Palpable, solid raised lesion
Wheal	6.	Small elevation of skin or vesicle or bulla that contains pus
Plaque	7.	Closed sac or pouch tumor that consists of semisolid, solid, or liquid material
Cyst	8.	Small raised area that contains serous fluid, less than 1 cm

Which of the following dressing types is most appropriate for the nurse to apply to a skin tear in an older adult client?

- A. Moist, sterile gauze
- B. Transparent dressing
- C. Paste
- D. Nonadherent dressing

Which of the following actions should the nurse take when new petechiae are observed on a client's skin?

- A. Cleanse the skin
- B. Apply cool compresses
- C. Inform the RN or physician
- D. Apply heat to the area