

Unit 19 Study Guide

Williams Ch 53 & 54

Med/Surg Study Guide Workbook

Ch. 53 & 54

Chapter 53. Integumentary System Function, Data Collection, and Therapeutic Measures

1. Epidermis, Dermis, and Hypodermis: Melanin is a pigment barrier to prevent further exposure of living cells in the stratum germinativum to UV rays. UV rays are mutagenic, or capable of damaging the DNA in cells and causing mutations that can result in malignancy.
2. Receptors: Sensory receptors for the cutaneous senses reside in the dermis. Receptors for heat, cold, and pain are free nerve endings; encapsulated nerve endings are specific for touch and pressure. The sensitivity of an area of skin is determined by the density of receptors present.
3. Questions— subjective: Have you noticed any changes in your skin, such as a sore that does not heal, rashes, lumps, or a change in an existing mole? Sores that do not heal, moles that change color, or lumps may indicate cancer.
4. Physical Examination: the main techniques used in physical examination of the skin are inspection and palpation. Make sure the patient is undressed but adequately draped in a well-lit and warm environment.
5. Care of Older Patients' Feet:
 - a. Inspect feet for redness or pressure injuries over bony prominences.
 - b. Inspect feet for dryness or cracking.
 - c. Inspect between toes for cracking, wounds, or excess moisture.
 - d. Use a pumice stone to help remove dry dead skin over heels or calluses. Work gently, rubbing the stone in one direction only and removing only a small amount of dead skin at one time. Only use a pumice stone on a patient with diabetes mellitus under direction of a podiatrist.
 - e. Encourage the patient to wear comfortable leather shoes or hard-soled slippers to avoid injury to the feet and prevent falls. Patients with diabetes should be encouraged to wear closed-toe shoes.
6. Lab tests: If a viral **culture** is ordered, the fluid is expressed (gently squeezed) from an intact vesicle, collected with a sterile cotton swab, and placed in a special viral culture tube. If the lesion has crusts, they are removed or punctured before swabbing. The viral culture tube must be kept in ice and sent to the laboratory as soon as possible.
7. Skin Biopsy: A biopsy is an excision of a small piece of tissue for microscopic examination. Three common types of skin biopsies are punch, shave, and incisional.
8. Steps in Culturing a Wound: Box 53.1
9. Wood Light Examination: involves the use of UV rays to detect fluorescent materials in the skin and hair present in certain diseases such as tinea capitis (ringworm).

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