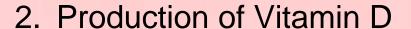
Function of the Skin

- Protection waterproof, tough, nearly impervious barrier
 - Keratin waterproofing agent, prevents fluid loss
 - Stratum corneum protects against pathogenic, chemical entry, prevents tears
 - Melanin prevents harmful ultraviolet rays from penetrating the body



3. Identification – facial characteristics, hair, skin color, fingerprints

4. Communication – sensory areas for touch, pain, temperature, and pressure

5. Temp Control - heat is released through sweat glands and stored through subcutaneous insulation



General Skin Pathologies

1. **Dermatitis** – an inflammation of the skin that may be associated with an allergic reaction from contact with an allergen or ingestion of a particular food or drug





2. Atopic dermatitis – a chronic inflammation of the skin caused by an allergy; ex: Psorasis







3. Hemangioma – a collection of blood vessels near the epidermis, giving a red appearance.



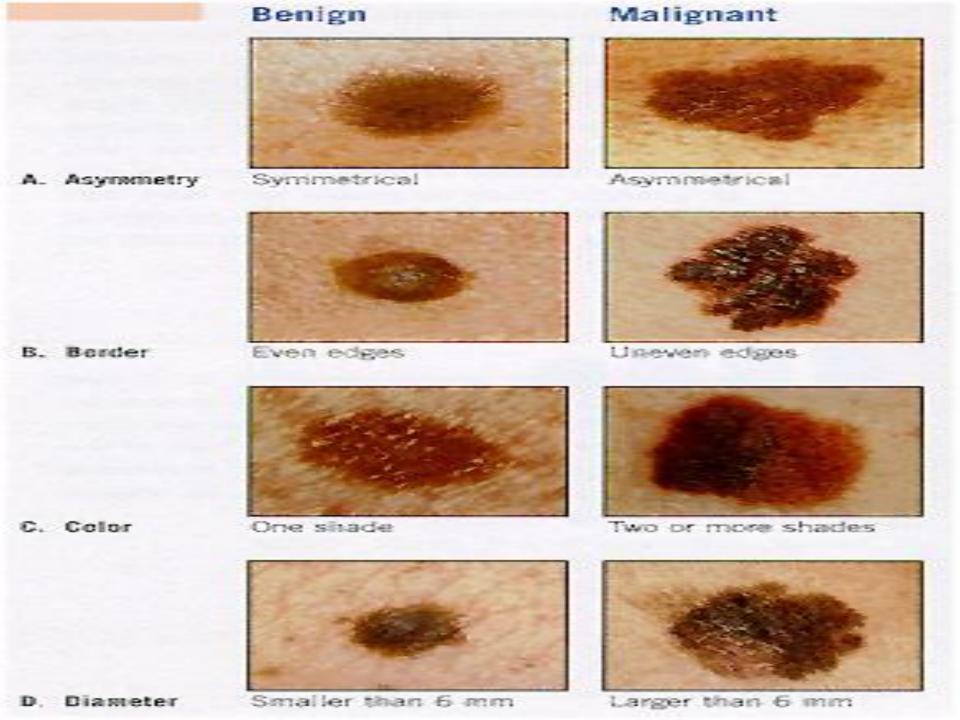
4. Skin CA -

- 1. Basal cell carcinoma most common, skin-colored papule
- 2. Squamous cell carcinoma scaly appearance, sharp margins, sun exposure areas are most vulnerable
- 3. Malignant melanoma dark, raised, can metastasize quickly





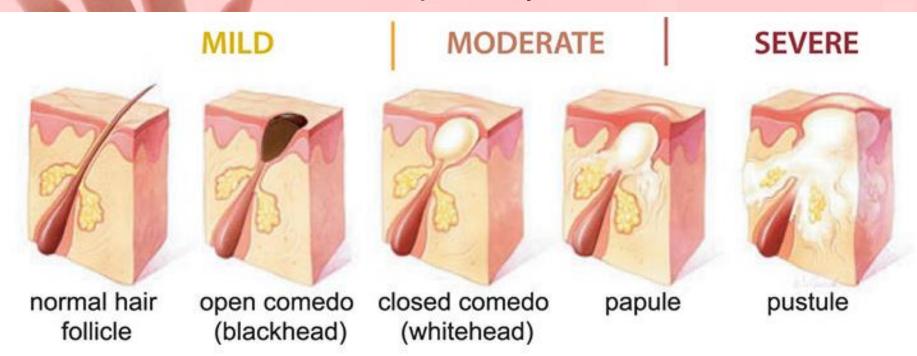






- 4. Acne sebaceous glands produce excess oil
 - a) Open comedones black heads
 - b) Closed comedones white heads

Acne appears as papules or pustules, aka, primary lesions.



Secondary Skin Lesions

Crust - thickened dry area,
scab

2. Excoriation - reddened abrasions, i.e. scabies, insect bites

3. Fissures - cracks in skin, i.e. athletes' foot, corners of mouth





4. Scales - flaky, dry shedding of keratin, i.e. ringworm, eczema

5. Scar - connective tissue that remains after healing takes place, i.e. acne

6. Ulcer – depression extending into dermis, i.e. Chancre, pressure sores



Conditions of Nails and Hair

 Hirsutism – abnormal growth of hair usually in face, arms, back, chest



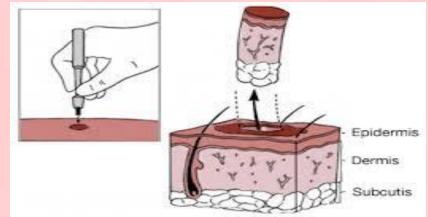
3. Paronychia – painful, swollen, red, inflammation of the skin surrounding the nail





Integumentary Surgical Procedures

 Biopsy – removal of a sample of affected tissue for testing



Patch test – performed to identify allergens



3. Debridement – used in burn victims to remove dead skin



4. Laser treatment – beam of light to remove skin lesions, unwanted hair, varicose veins, and other types of scarring



5. Dermabrasion – uses an abrasive device to rub against the skin to remove the outer layer of skin to remove scars, acne scars, tattoos.

