Anatomy and Physiology of the Skin

A South West Regional Wound Care Program Presentation

Three Primary Layers of Skin

- Epidermis
 - Avascular
 - Multilayer
 - o Environmental barrier and prevents water loss
- Dermis
 - o Vascular
 - o Two layers, papillary and reticular
 - Contains blood and lymph vessels, nerves, sweat and sebaceous glands, hair roots
 - Provides tensile strength, regulates temperature, senses environment
- Subcutaneous:
 - o Composed of fat, blood vessels and connective tissue
 - Anchors to deep tissue, regulates temperature, stores energy

Functions of Skin

- Supports underlying body structures
- Temperature regulation
- Sensory organ
- Waste elimination
- Protective barrier
- Vitamin D synthesis

How Age Affects Skin Integrity

- Decreased dermal thickness
- Flattening of epidermal-dermal papillae
- Loss of penetrability to environmental substances
- Loss of elastin fibers

The South West Regional Wound Care Program

Vision: Integrated, evidenced-informed skin and wound care – every person, every health care sector, every day.

Mission: To advocate for the seamless, timely and equitable delivery of safe, efficient, and effective, personcentered, evidenced-informed skin and wound care to the people of the South West LHIN, regardless of the healthcare setting.



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- Atrophied dermis
- Diminished vascularity
- Atrophied subcutaneous fat
- Reduced collagen in the skin
- Thinner more fragile blood vessels
- Reduction in sweat glands and sebum

Rules to Maintain Skin Integrity

- 1. Keep the skin clean
- 2. Hydrate the skin
- 3. Closely monitor the skin

