

Wound Physiology Handout

A Wound Physiology Handout

Definition of wound healing: a cascade of immunologic and biologic events resulting in a closed wound. Acute wounds close in a timely and orderly manner, while chronic wounds do not

Wound Healing Models

- Superficial wound healing
- Primary intention wound healing
- Delayed primary intention wound healing
- Partial thickness wound healing
- Full thickness/secondary intention healing

Phases of Wound Healing

- Inflammation (days 1-7)
 - Hemostasis
 - Breakdown and removal of debris
- Proliferation (days 2-10)
 - Angiogenesis
 - Granulation tissue formation
 - Contraction
 - Epithelialization
- Remodeling (starts at 3 weeks, lasts up to 2 years)
 - Hemostasis between collagen synthesis and degradation
 - Reorganization of collagen

Factors Negatively Affecting Wound Healing

- Extrinsic
 - Medications
 - Nutrition

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, person-centered, evidenced-informed skin and wound care to the people of the South West LHIN, regardless of the healthcare setting.



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- Radiation/chemotherapy
- Stress
- Bioburden
- Intrinsic
 - Age
 - Chronic disease and immunosuppression
 - Perfusion and oxygenation
 - Neurologically impaired skin
- Iatrogenic:
 - Local ischemia
 - Inappropriate wound care
 - Trauma
 - Wound extent and duration

