

The Pathophysiology of Skin Failure vs. Pressure Injury: Conditions That Cause Integument Destruction and Their Associated Implications ~ Is It Pressure?



Michael A. Bain

Hoag Memorial Hospital Presbyterian, USA

Abstract

With the medical advancement in past decades, patients frequently survive acute and/or chronic conditions that once relegated them to immediate death. Consequently, medical conditions such as integument failure, once without time to manifest, are now commonly observed. Integument failure of various etiologies is a significant issue for severely ill patients in both acute and chronic care settings. Despite high rate of skin breakdown in more than 5 million patients treated annually in intensive care units, the pathophysiology and anatomic etiology underlying integument failure are not clearly described. Because of the complexity of the underlying mechanism leading to integument failure, it is imperative not only to better understand its underlying pathophysiology, but also to accurately classify integument failure by the avoidable and unavoidable factors responsible for injury (primary cause), including pressure. This may lead to better and appropriate treatment strategies and an improved quality of care and better outcomes for affected patients, while potentially reducing wasted health care resources (e.g., prolonged hospital stays, repeated emergency room visits), financial penalties for health care providers, and medicolegal claims. This presentation will review existing studies and case reports to systematically present 1) the different types of integument injury and etiology; 2) the anatomic and pathophysiologic factors affecting integument failure; 3) various ways to differentiate avoidable vs. unavoidable integumentary injury regarding non-pressure related sources; 4) the factors leading to integument injury, including comorbid and risk factors, and 5) the clinical and economic importance of delineating pressure injury from integument failure and associated risk factors.

Biography

Dr. Michael A. Brain currently services as Medical Director of the Sally and Joseph Warpinski Wound Healing and Hyperbaric Medicine Center, and Chairman of Plastic Surgery, at Hoag Memorial Hospital Presbyterian in Newport Beach, California. He has lectured worldwide on both reconstructive and cosmetic plastic surgery. He received his MMS and his MD from Hahnemann University College of Medicine, and completed his internship and residency at Boston University Medical Center and Lehigh Valley Hospital, respectively. Dr Bain remains active in clinical practice, participates in peer review, and performs research in clinical wound care.



5th International Conference on Wound Care, Nursing and Tissue Science, April 16-17, 2021

Citation: Michael A. Bain: *The Pathophysiology of Skin Failure vs. Pressure Injury: Conditions That Cause Integument Destruction and Their Associated Implications ~ Is It Pressure?*. Wound Care Congress 2021: 5th International Conference on Wound Care, Nursing and Tissue Science, April 16-17, 2021