

WOUND HEALING AND CRITICAL CARE

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Wound debridement: A critical step in wound management

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Chronic wounds are wounds that have failed to successfully proceed along the normal wound healing trajectory of hemostasis, inflammation, proliferation, and remodeling. Chronic wounds are often a manifestation of an underlying health issue in the host. Wound hygiene is a stage strategy for managing these chronic, hard to heal wounds. It consists of several key steps including cleansing, debridement, refashioning the edges and dressing the wound. Of these, debridement plays a critical role and is designed to remove biofilm as well as any non-viable tissue in the wound that can potentially delay the wound healing trajectory and increase the risk for wound infections. There are several categories of Debridement which include Autolytic, Chemical/Enzymatic, Mechanical, Surgical and Biological. The purpose of this presentation is to review the rationale for debridement and to discuss these various modes of debridement in each category. Strategies for each modality as well as pain management are discussed. By participating in this presentation, the learner will gain a better insight into debridement as well as strategies for wound healing success.

Objectives:

1. Identify the concept of wound hygiene
2. Discuss the impact of biofilm and necrotic tissue on the wound healing trajectory
3. Explore the different types of debridement and indications for each
4. Review pain management strategies with debridement

Recent Publications

1. Diana Rudolph, and Christiane Beck et al - Real fasting times and incidence of pulmonary aspiration in children: Results of a German prospective multicenter observational study August 2019 *Pediatric Anesthesia* 29(10) DOI:10.1111/pan.13725
2. Diana Rudolph, Christoph Mahn, Alexander Etspüler et al -Impact of clear fluid fasting on pulmonary aspiration in children undergoing general anesthesia: Results of the German prospective multicenter observational (NIKS) study June 2020 *Pediatric Anesthesia* 30(8)DOI:10.1111/pan.13948

Biography

Dianne Rudolph is a nurse practitioner with more than 25 years of experience in treating wound care patients. She is board certified in wound care and as a gerontological nurse practitioner. She has practiced in acute care, long term/extended care, home health care and clinic settings. She has published and presented on numerous wound care topics and serves as a consultant on medicolegal issues. She has served as adjunct faculty/faculty for the University of Texas Health Science Center School of Nursing in San Antonio Texas and Houston Texas. She recently opened her own wound management practice providing care in home and post-acute care settings.

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