Definitions of Bacterial Burden in Chronic Wounds

Term	Clinical Interpretation	Clinical Intervention
Contaminated	 Bacteria are present on the wound surface, but not proliferating Bacteria NOT causing harm to the host 	Monitoring and risk reduction
Colonized	 Bacteria are present on the wound surface, proliferating and starting to form colonies Bacteria are NOT causing harm to the host 	Monitoring and risk reduction
Critical Colonization (a.k.a. Local Infection)	 Bacteria are present on the wound surface and in the wound bed, and are proliferating, resulting in delayed wound healing Subtle signs of infection may be present, including: Friable, bright red granulation tissue Increased or altered exudate Increased or new odor Increased pain Localized edema 	Intervention required, i.e.:
Spreading Infection	 Bacteria are present on the wound surface and in the wound bed AND in the surrounding tissues. Bacteria are proliferating, delaying wound healing In addition to the subtle signs above, the following classic signs and symptoms of infection may be present: Increased periwound temperature Wound breakdown with satellite lesions Induration and redness extending beyond the wound borders Lymphangitis General malaise 	Intervention required, i.e.: Topical antimicrobials Effective debridement Systemic antibiotics
Systemic Infection	 Bacteria are present on the wound surface, in the wound bed, in the surrounding tissues, and have spread systemically. Bacteria are proliferating, delaying wound healing In addition to the subtle and classic signs and symptoms of infection, the person may present with signs of sepsis including: Pyrexia or hypothermia Tachycardia Tachypnea Elevated or depressed white cell counts Multi-organ system failure 	Intervention required, i.e.: Topical antimicrobials Effective debridement Systemic antibiotics Rule out other sources of infection

Reference

Keast D and Lindholm C. Ensuring that the correct antimicrobial dressing is selected. Wounds International. 2012;3(3):22-28. Used with permission from author.

