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Inflammatory processes involved in cell signaling in trauma

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Trauma in all forms whether blunt, penetrating or fall related all result in injury and to some extent of an inflammatory response. Here a review of cell signaling mechanisms is presented as well as delineation between “osis” and “isis” discussed as it pertains to both diagnosis and treatment. Herein three case studies will be presented which demonstrate these principles in the trauma and orthopedic patient. The cases are inclusive of open abdomen, tendonitis, tendinosis and necrotizing fasciitis. In the trauma injuries that include open wounds, the discussion will include the use of silver- chitosan and hyaluronic acid, 3D-biopolymer scaffolds. The silver laden chitosan dressing has antimicrobial properties, facilitates hemostasis, and wicks vertically and this help substitute as a thriving extracellular matrix to promote antimicrobial activity, cellular proliferation with neovascularization and to promote

re-epithelization to overcome infections in complex wounds. Histology and pathology will be discussed as pertinent.

Speaker Biography

Tammy Luttrell thrives on challenges, especially those involving wound healing, where she has more than 20 years’ experience treating patients with burns and chronic wounds. After graduating from Rolla Institute of Science, she pursued a Master’s degree in physical therapy from Texas Woman’s University. Her formal education culminated in May of 2012 with the completion of her PhD in Immunology Translational Science focusing on wound healing from the University of Colorado, Anschutz Medical Campus. Currently, clinically, she enjoys traveling and practicing in level I/II trauma centers/ critical access hospitals and burn/wound centers across the nation. She is a Fellow of the American College of Certified Wound Specialist and is an active member of the ACCWS since 2006. She enjoys lecturing internationally and is the author of several publications and 2 book chapters on wound healing. She continues a lifelong pursuit of excellence in patient care, sharing and learning from patients and colleagues alike.

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