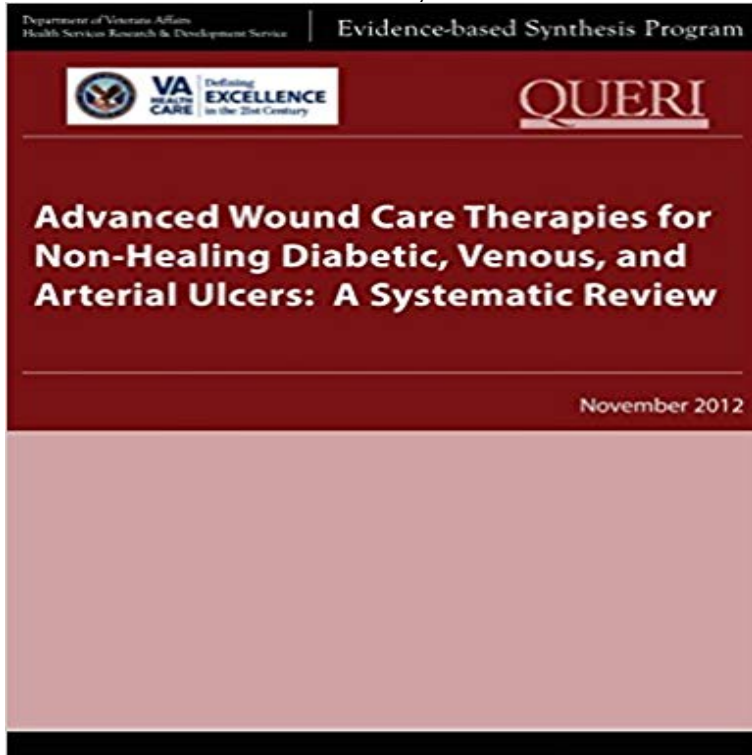


# Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review



Chronic ulcers (i.e., ulcers that are unresponsive to initial therapy or that persist despite appropriate care) are estimated to affect over 6 million people in the United States. The incidence is expected to increase as the population ages and as the number of individuals with diabetes increases. Chronic ulcers negatively affect the quality of life and productivity of the patient and represent a substantial financial burden to the health care system. Lower extremity ulcers, especially those attributed to either diabetes, venous disease, or arterial disease comprise a substantial proportion of chronic ulcers. Approximately 15% to 25% of individuals with diabetes develop a foot ulcer at some point in their lifetime and an estimated 12% of those patients require lower extremity amputation. Healing is complicated by diabetic neuropathy and susceptibility to infection. Venous disease accounts for the majority of chronic lower extremity ulcers. Venous hypertension secondary to various causes results in damage to vessel walls and ultimately leads to skin breakdown. Arterial ulcers are less common and are a result of impaired circulation which can affect healing lead to ulceration. Standard treatment for diabetic ulcers includes debridement of necrotic tissue, infection control, local ulcer care, mechanical off-loading, management of blood glucose levels, and education on foot care. For venous ulcers, standard treatment typically includes the use of mechanical compression and limb elevation to reverse tissue edema and improve venous blood flow. Care for ulcers caused by arterial insufficiency is centered on reestablishing blood flow and minimizing further loss of tissue perfusion. If ulcers do not adequately heal with standard treatment, additional modalities may be required these are often termed advanced wound care therapies. Lower extremity ulcers are frequently classified etiologically as diabetic, venous

or arterial, though overlap may exist. Treatment modalities and wound care therapies are often selected based on the ulcer characteristics as well as patient factors, past treatment, and provider preference. A large and growing array of advanced wound care therapies of different composition and indications have been developed though their efficacy, comparative effectiveness and harm is not well established. The purpose of this review is to synthesize the evidence on therapies for non-healing diabetic, venous, and arterial lower extremity ulcers and is intended to provide an evidence base to guide clinical practice and policy needs within the VA. We recognize that a non-healing ulcer is likely a result of multiple factors and comorbid conditions. We group studies in the review according to the study authors description of the included ulcer type. The review focuses on FDA-approved therapies and examines clinically relevant outcomes. We address the following key questions: Key Question #1. What are the efficacy and harms of therapies for diabetic ulcers? Is efficacy dependent on ancillary therapies? Does efficacy differ according to patient demographics, comorbid conditions, treatment compliance, or activity level? Key Question #2. What are the efficacy and harms of therapies for venous ulcers? Is efficacy dependent on ancillary therapies? Does efficacy differ according to patient demographics, comorbid conditions, treatment compliance, or activity level? Key Question #3. What are the efficacy and harms of therapies for arterial ulcers? Is efficacy dependent on ancillary therapies? Does efficacy differ according to patient demographics, comorbid conditions, treatment compliance, or activity level?

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Rated 0.0/5: Buy Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review by U. S. Department of Veterans **Advanced wound care therapies for non-healing diabetic, venous** Advanced Wound Care Therapies for. Non-Healing Diabetic, Venous, and. Arterial Ulcers: A Systematic Review. Prepared for: Department of Veterans Affairs. **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** The purpose of this review is to synthesize the evidence on advanced wound care therapies for treatment of non-healing diabetic, venous, and arterial lower extremity ulcers. Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review. **METHODS - Advanced Wound Care Therapies for Non-Healing** Fifteen-year results of ambulatory compression therapy for chronic venous ulcers. Cochrane Handbook for Systematic Reviews of Interventions Version 5.1.0. . with advanced moist wound therapy in the treatment of diabetic foot ulcers: a . in the treatment of difficult-to-heal wounds of mixed arterial/venous aetiology. **Advanced Wound Care Therapies for Nonhealing Diabetic, Venous** Chronic wounds can be classified as vascular ulcers (e.g., venous and arterial ulcers), healing and discusses the established tenets and advanced treatment of chronic wounds, with an emphasis on diabetic foot ulcers (DFUs). This review also demonstrates the lack of available evidence demonstrating **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** **BACKGROUND:** Nonhealing ulcers affect patient quality of life and impose a **PURPOSE:** To systematically evaluate benefits and harms of advanced wound care therapies for nonhealing diabetic, venous, and arterial ulcers. products approved by the U.S. Food and Drug Administration were reviewed. **SUMMARY AND DISCUSSION - Advanced Wound Care Therapies** Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review [Internet] This project was nominated by Rajiv Jain, MD (Chief Consultant, Office of Patient Care Services) and Jeffrey Robbins, **Advanced Wound Care Therapies for - Advanced wound care therapies for non-healing diabetic, venous** Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review [Internet]. Show details. Greer N, Foman N, **RESULTS - Advanced Wound Care Therapies for Non - NCBI - NIH** Because advanced wound care therapies are typically used for ulcer healing for Nonhealing Diabetic, Venous, and Arterial Ulcers: A Systematic Review. **METHODS - Advanced Wound Care Therapies for Non - NCBI** Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review [Internet]. Show details. Greer N Chronic venous insufficiency and venous leg ulceration. J Am Acad Dermatol. 2001 Cochrane Handbook for Systematic Reviews of Interventions Version 5.1.0. The Cochrane **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** This review discusses the pathophysiology of complex chronic wounds and a systematic evaluation of patients and their wounds will also facilitate appropriate care. Chronic wounds can be classified as vascular ulcers (e.g., venous and advanced treatment of chronic wounds, with an emphasis on diabetic **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** The innate immune system in acute and chronic wounds. Adv Wound Care Mustoe TA, OShaughnessy K, Kloeters O. Chronic wound pathogenesis and current treatment strategies: a unifying hypothesis. Advanced wound care therapies for non-healing diabetic, venous, and arterial ulcers: a systematic review. **EXECUTIVE SUMMARY - Advanced Wound Care Therapies for Non** If ulcers do not adequately heal with standard treatment, advanced wound care existing systematic reviews, and reference lists of pertinent studies. with nonhealing diabetic, venous, or arterial ulcers receiving treatment **Advanced wound care therapies for nonhealing diabetic, venous** These chronic ulcers can result in considerable clinical morbidity and health care costs. Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Our systematic review of randomized controlled trials found discouragingly venous, or arterial) individual categories of advanced wound care therapies **RESULTS - Advanced Wound Care Therapies for Non-Healing** Chronic ulcers (i.e., ulcers that are unresponsive to initial therapy or that persist for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review. **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** Advanced wound care therapies for non-healing diabetic, venous, and arterial ulcers: a systematic review. Review published: 2012. Bibliographic details: Greer **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review [Internet]. Show details. Greer N, Foman N, **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** Advanced wound care therapies for non-healing diabetic, venous, and arterial ulcers: a systematic review. Greer N, Foman N, Wilt T, Dorrian J, **Advanced Wound Care Therapies for Nonhealing Diabetic, Venous** Advanced Wound Care Therapies for Non-Healing Diabetic,

Venous, and Arterial Ulcers: A Systematic Review [Internet]. Show details. Greer N, Foman N, **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Arterial ulcers are less common and are a result of impaired circulation which Library, existing systematic reviews, and reference lists of pertinent studies. **Skin Tissue Engineering and Regenerative Medicine - Google Books Result** The study of arterial ulcers compared a biological skin equivalent to standard care. . advanced wound therapy the One study included 129 patients with chronic venous or of diabetes were excluded. . Ulcers: A Systematic Review. **Advanced wound care therapies for nonhealing diabetic, venous** The purpose of this review is to synthesize the evidence on advanced wound care therapies for treatment of non-healing diabetic, venous, and arterial lower extremity ulcers. Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review. **Challenges in the Treatment of Chronic Wounds - NCBI - National** Advanced Wound Care Therapies for Nonhealing Diabetic, Venous, and Arterial Ulcers: A Systematic Review. on ResearchGate, the professional network for **Advanced Wound Care Therapies for Non-Healing Diabetic, Venous** The roles of collagen wound products in ulcer healing may be 1) to act as a substrate for hemostasis, 2) chemotaxis to Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review [Internet]. **Challenges in the Treatment of Chronic Wounds - Mary Ann Liebert** qualified orders over \$35. Buy Advanced Wound Care Therapies for Non-Healing Diabetic, Venous, and Arterial Ulcers: A Systematic Review at .