

Finding the right dressing for management of wounds in diabetic patients from the pandora box

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Selection of an appropriate dressing is of prime importance in the successful management of diabetic foot ulcers.

Currently, there are >6000 different types of commercially available wound dressings that can be used for DFU treatment which differ on their application modes, materials, shape and on the methods employed for production.

Dressing materials can include natural, modified and synthetic polymers, as well as their mixtures or combinations, processed in the form of films, foams, hydrocolloids and hydrogels. Moreover, wound dressings may be employed as medicated systems, through the delivery of healing enhancers and therapeutic substances (drugs, growth factors, peptides, stem cells and/or other bioactive substances).

Unlike other chronic wounds, the etiology and consequences of a DFU is often complicated by wide-ranging changes starting from blood glucose level, neuropathic changes, vascular compromise to affecting the social and psychological wellbeing of the patient.

However several studies state that wound care practitioners often find confusion in choosing the right dressing among the wide variety of options available in front of them.

The critical aspects of the wound healing mechanism and host physiological status in patients with diabetes necessitate the selection of an appropriate treatment strategy based on the complexity and type of wound. In addition to systemic antibiotics and surgical intervention, wound care is considered to be an important component of diabetic foot ulcer management.

My talk reviews the state of the art and the most recent advances in the development of wound dressings for DFU treatment. Special emphasis is given to the latest and innovative therapeutic strategies and delivery approaches.

Biography

Sangeetha Kalabhairav has done M.B.B.S. BMCH from Chitradurga RGUHS University, Bangalore, Karnataka and M.S. General Surgery, Mysore Medical College, Mysore, RGUHS University, Bangalore, Karnataka and Fellowship in Diabetic Foot Surgery (FDGS), SL Raheja Fortis hospital, Mahim, Mumbai under Dr. Arun Bal sir, Maharashtra University of Health Sciences, Nashik Maharashtra.

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