

Efficacy of biodegradable sustained release dermal patch using ayurvedic drugs in the management of infected wound



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Biography

Manoranjan Sahu, established National Facility for Treatment of Fistula in Ano and other Ano Rectal Diseases at S S Hospital, B H U, Varanasi. Biodegradable wound healing patch using Ayurvedic drugs for Diabetic Ulcer. Life Time Award by Govt of India, Ministry of Health, Department of AYUSH for promoting Ayurveda. Book-Manual on Fistula in Ano and Ksharsutra Therapy. Publication National – 26, International – 6.

Abstract

Wound and its management has been a prime concern in Indian Traditional Medicine i.e. Ayurveda. Sushruta the father of Indian surgery has described more than 100 medicinal plants for their beneficial effect in wound healing. Panchvalkal, a compound drug obtained from barks of five plants (Ficus benghalensis L., Ficus racemosa L., Ficus religiosa L., Ficus lacor Buch. Ham., Thespesia populnea.) has been accredited to be useful in wound management at various stages in ancient texts.

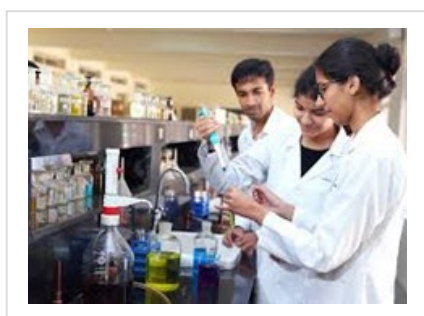
Dermal patch technology has greater advantage over other wound healing preparations for its minimum side effects, controlled and fast drug release. Amongst the dermal patches, scaffold has greater advantages over films, cream, gel and dry powder of (drug) because of its porous structure which helps in greater aeration and exchange of metabolic waste of the wound. To ensure a better drug delivery at the local site, the plant extract (Panchavalkala) has been used to prepare electro spun hybrid scaffolds using biodegradable polymer matrix. The drug loaded dermal patches were evaluated experimentally as well as clinically and found effective in moderately infected as well as diabetic wounds. This presentation will deal with the drug delivery and efficacy of this novel device (scaffold) in the management of moderately infected wound.

Publications

Sustained release of herbal drugs using biodegradable scaffold for faster wound healing and better patient compliance

Efficacy of Kshar Sutra (medicated seton) therapy in the management of Fistula-in-Ano

A prospective study on tubercular fistula in ano and its management



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