

STUDIES ON DIFFERENT TYPE OF SUTURES USING ALOE VERA GEL COATING

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ABSTRACT

Natural finishes like Alo vera, Neem, Turmeric etc have unique biomedical applications. The objective of this study is to give Aloe vera gel coating to textile yarns for suture application. Sutures are the most commonly used means of wound closure since ancient times. The textile yarns of all types like monofilament, multifilament, braided or staple yarns are used as non-absorbent suture based on type of wound closure required. Generally such sutures are coated with different type of antimicrobial finishes or sterilized. The Aloe vera coating on suture material would expedite the healing; hence tissue reaction can be controlled by standardizing such process. In this paper the Braided Polyester Suture is taken to standardize the process. At a later stage the work will be done to compare coating efficiency and performance offered by different samples of PP, PET, Nylon, Viscose and Bamboo Yarns and cost comparison with different suture yarns available in market.

KEYWORDS: Sutures, Non-Absorbable Microbiological, Braided, Bactericidal, Antimicrobial