ABSTRACT BOOK ABSTRACTS



WOUND HEALING

## CLINICAL EFFICACY OF DIALKYLCARBAMOYLCHLORIDE-COATED COTTON ACETATE DRESSING VERSUS COMBINATION OF NORMAL SALINE DRESSING AND 2% MUPIROCIN OINTMENT IN INFECTED WOUNDS OF EPIDERMOLYSIS BULLOSA

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Introduction: Combination of normal saline dressing and topical antibiotics has been widely used as a treatment and has been proven to eliminate infection. However, it presents risk of antibiotic resistance and requires patient's compliance. Dialkylcarbamoylchloride (DACC)-coated cotton acetate dressing works directly through hydrophobic interaction to reduce the number of bacteria without the risk of resistance. It is easy to use and therefore expected to improve patient's compliance. However, its effectiveness in treating infected epidermolysis bullosa (EB) wounds has never been studied.

Objective: To assess the clinical efficacy of DACC-coated cotton acetate dressing compared to combination of normal saline dressing and 2% of mupirocin ointment based on the duration of wound closure and elimination of bacterial infection as assessed through clinical manifestations and Gram stain results from the infected EB wounds.

Materials and methods: A single-blind controlled trial was conducted from April to May 2018 in Dermatology and Venereology Outpatient Department of Dr. Hasan Sadikin General Hospital, Bandung, Indonesia. The study included 14 infected EB wounds which were divided into two groups. Group I received DACC-coated cotton acetate dressing and group II received combination therapy of normal saline dressing and 2% of mupirocin ointment. Evaluation was conducted once every three days until complete wound closure.

Results: The average time required for complete wound closure was 8.6 days and 11.4 days in group I and II, respectively (p=0.014). Both groups showed complete bacterial elimination by day-6 based on clinical manifestation and Gram stain results (p = 1,000).

Conclusions: This is a novel study in EB infected wounds which shows that DACC-coated











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cotton acetate dressing promotes a faster wound closure and is as effective as combination of normal saline dressing and 2% mupirocin ointment in eliminating bacterial infection.



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