

A Comparison of Disinfecting Effect of Povidone Iodine and Septi Scrub on Normal Flora of Skin in Surgical Scrub

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Abstract

Background and Objective: Septi scrub is a new product based on chlorhexidine 4%, which is produced for surgical scrub in Iran. This study aimed to compare the disinfecting effect of Povidone Iodine and Septiscrub in surgical scrub.

Material and Methods: this crossover experimental study, one-week interval, was conducted to compare Povidone Iodine and Septiscrub. Three samples for microbial cultures were obtained from each participant before, shortly and 40 minutes after scrubbing.

Results: The findings showed that the effect of Povidone iodine and Septiscrub solutions was significant on microbial growth of measure ($P < 0.05$). In both solutions, there was a significant difference in the rate of microbial growth between before and after scrub stages ($P < 0.05$). But between immediately after scrub and 40 minutes after was not significant ($P < 0.05$).

Conclusion: given the equal effect of two solutions and lesser side effect of Septiscrub, it is recommended that Septiscrub be used instead of Povidone iodine 7.5%.

Keywords: Surgical Scrub; Povidone Iodine; Septi Scrub.