

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

**Koochaki, Gh M. (MSc)**

MSc of Nursing Education,  
Department of Operating Room,  
Golestan University of Medical  
Sciences, Gorgan, Iran

**Talebi, R.(MSc)**

MSc of Nursing Education,  
Department of Operating Room,  
Golestan University of Medical  
Sciences, Gorgan, Iran

**Bazouri, M.(BSc)**

BSc of Microbiology, Department of  
Microbiology, Golestan University  
of Medical Sciences, Gorgan, Iran

**Javid, N.(MSc)**

MSc of Microbiology, Department  
of Microbiology, Golestan  
University of Medical Sciences,  
Gorgan, Iran

**Corresponding Author:** Talebi, R

**Email:** Nazi.talebi@yahoo.com

**Received:** 24 Jan 2015

**Revised:** 20 Aug 2015

**Accepted:** 25 Aug 2015

### 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.