

ABSTRACT
THE EFFECTIVENESS OF HAND SANITIZER WHICH CONTAINS
DENATURED ALCOHOL 69.4% AS ANTISEPTIC

Introduction: In this advanced era hand-rub with antiseptic liquid or gel becomes more practical because it can be used anywhere and anytime without having to be rinsed with water. This antiseptic liquid or gel is commonly known as hand sanitizer. Hand sanitizer is an antiseptic substance containing 60% - 95% alcohol. In addition to alcohol, hand sanitizers also contain other antibacterial ingredients such as triclosan, glycerol, denatured alcohol or other antimicrobial materials. The purpose of this study was to determine the effectiveness of denatured alcohol 69.4% contained in the hand sanitizer as an antiseptic.

Methods: This research uses true experimental design. Research was conducted in the laboratory with 10 people as volunteers. The volunteers divided into 2 groups consist of 5 people each. First group or control group using H₂O to clean their hand and second group or treatment group using hand sanitizer to clean their hand. Each group put 3 fingers on agar plate before and after cleaning their hands. Each plate was incubated at 37°C overnight. After overnight incubation, the number of colonies formed were calculated. The result was analyzed using t-test.

Results: There was a significant difference between bacterial colonies before and after hand rub.

Conclusion: Denatured alcohol 69.4% contained in a hand sanitizer effective for use as an antiseptic.

Keywords: Denatured alcohol 69,4% - hand sanitizer – antiseptic – effectiveness