Antimicrobial activity of binahong Leaves toward Pseudomonas aeruginosa and Staphylococcus aureus which often becomes a complication of burns wound healing

Abstrak:

Background: Several bacteria such as Pseudomonas aeruginosa, Staphylococcus aureus, Escherichia coli, Klebsiella spp., Enterococcus spp are well known in causing infection in burn wound. A traditional herbal plant called as binahong (Anredera Cordifolia) have been used in society to treat burn wound. It is considered to have antibacterial activity against contaminat germ in burn wound so that it might help the recovery of burn wound. This research tests antibacterial activity of binahong ethanol extract against Pseudomonas aeruginosa dan Staphylococcus aureus.

Objective: To test the effectiveness of antibacterial activity of binahong ethanol extract against Pseudomonas aeruginosa and Staphylococcus aureus.

Design: True experimental

Methods: Dilution methode followed with confirmation test by streaking in Nutrient Agar Plate. Concentrations tested are 10%, 5%, 2.5%, 1.25%, 0.625%, and 0.3125%.

Results: shows that there is no antibacterial activity against Staphylococcus aureus. Meanwhile against Pseudomonas aeruginosa, it is seen that at 10% of concentration binahong extract can kill germ colonies.

Keyword:

binahong, Pseudomonas aeruginosa, Staphylococcus aureus, antibacterial activity, experimental

Daftar Pustaka:

Al-Akayleh Invasive Burn Wound Infection Annals of Burns and Fire Disasters 1999 Inggris
Bowler, P.G, Wound Microbiology and Associated Approaches to Wound Management. Clinical Microbiology Reviews 2001 Inggris