

EFFECTIVENESS OF OINMENT USE OF EXTRACT GARLIC (*Allium sativum*) ON POTENTIAL GROWTH OF BACTERIA *Staphylococcus aureus*

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ABSTRACT

Crisnati Supitri, 2018. Effectiveness Of Oinment Use Of Extract Garlic (*Allium sativum*) On Potential Growth Of Bacteria *Staphylococcus aureus*. Guided by Dr. Cartono, M.Pd., M.T. end Dr. Hj. Mia Nurkanti, M. Kes.

*This study was conducted to determine the quantitative information on the inhibition of *Staphylococcus aureus* bacteria growth with the use of garlic extract ointment. This research was conducted in June 2018. The method used in this research is the experimental method with the extraction of meseration and the way of bacteria inoculation by the method of pouring plate. The study consisted of 3 treatments and 8 repetitions of negative control (PEG 400 and PEG 4000/base ointment), garlic extract extract of 35% concentration, and positive control with (tetracycline/antibiotics). The parameters measured were the diameter of the *Staphylococcus aureus* bacterial inhibition zone analyzed using SPSS 24 application. Identification of the inhibitory zone diameter of *Staphylococcus aureus* bacteria was performed at the FMIPA Environmental Laboratory of the University of Education of Indonesia. The results showed that garlic extract ointment of 35% optimum concentration can inhibit the growth of *Staphylococcus aureus* bacteria. The average inhibitory zone diameter is 0.769 cm.*

Keywords: *Garlic extract, Oinment Garlic Extract, *Staphylococcus aureus* Bacteria,*