ABSTRACT

INFLUENCE OF CREAM AND OINTMENT MEDICATION FORM WITH ACTIVE INGREDIENT GENTAMICIN SULFATE ON HOMOGENTITY AND pH EVALUATION

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In this study, the researchers evaluated the physical characteristics of gentamicin preparations, specifically ointment and cream, through homogeneity and pH tests. The results showed that both the ointment and cream had good homogeneity and consistency, indicating stable formulations with no changes in shape or separation of components. The pH values of the preparations remained consistent throughout the testing, indicating no significant changes in acidity. Gentamicin is an antibiotic with several advantages, including good stability, rapid bactericidal effect, synergistic effect with betalactam antibiotics, low resistance incidence, and low cost. While ointment and cream are the most common dosage forms, gentamicin is also available as injections, ear drops, and eye drops. Overall, the study confirmed the stability and physical characteristics of gentamicin ointment and cream preparations, which have potential applications in treating bacterial infections.

Keywords: Gentamicin Sulfate, Cream, Ointment, pH, Homogenitas