



INFECTIOUS DISEASES (BACTERIAL, FUNGAL, VIRAL, PARASITIC, INFESTATIONS)

EFFECT OF ANNONA SQUAMOSA EXTRACT COMBINED WITH PERMETRIN 5% ON SCABIES LESION

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Introduction: Scabies is one of the top six of dermatology disease in the world as stated by World Health Organization and one of the top three dermatology disease in Indonesia. Its treatment comprises many agents. Nowadays, back-to-nature concept using traditional medicine is preferable.

Objective: This study aimed to investigate effect of Annona squamosal leaf extract in combination with permethrin 5% ointment on scabies lesion.

Materials and Methods: It was a quasi experimental study with pre-test and post-test design conducted in one of Islamic Boarding School in Pati regency, Central Java Province, Indonesia. This study was performed on 24 eligible subjects divided into six groups: control group who received permethrin 5% only, five treatment groups who received permethrin 5% and Annona squamosal leaf extract ointment in five different concentrations. The preparations were applied once a week for three weeks. This study was approved by Research Ethics Committee of Faculty Medicine, Diponegoro University/ dr. Kariadi Central Hospital, Semarang, Indonesia

Result: There were significant delta scabies lesions difference between control and all treatment groups ($p < 0.05$).

Conclusion: Annona squamosa leaf essential oil based ointment which used in combination with permethrin 5% could increase scabies treatment effectiveness.

