

**THE RELATIONSHIPS OF KNOWLEDGE, PERSONAL  
HYGIENE, DWELLING DENSITY, AND SCABIES SYMPTOMS  
IN STUDENTS OF ISLAMIC BOARDING SCHOOL  
IN IMOIRI, BANTUL, YOGYAKARTA**

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**ABSTRACT**

**Background:** Scabies is a common and disabling dermatological condition caused by infestation with the mite *Sarcoptes scabiei*. Scabies is mainly spread through direct skin to skin contact, and less commonly through fomites. There is some evidence of indirect scabies transmission through fomites (clothing, bedding, furniture, carpet), suggesting environmental may have a role in its transmission. This study aimed to investigate the relationships of knowledge, personal hygiene, dwelling density, and scabies symptoms in students of islamic boarding school.

**Subjects and Method:** A cross sectional study was carried out at Ar-ramly islamic boarding school in Imogiri, Bantul, Yogyakarta, from May to June 2019. A sample of 52 islamic school students was selected for this study. The dependent variable was scabies infection. The independent variables were knowledge, personal hygiene, and dwelling density. The data were collected using questionnaire and analyzed using Chi square.

**Results:** Poor knowledge (OR= 4.80; 95% CI= 1.41 to 16.30; p= 0.009) and poor personal hygiene (OR= 4.77; 95% CI= 1.74 to 13.12; p= 0.008) increased the risk of scabies infection. Low dwelling density reduced the risk of scabies infection (OR= 0.24; 95% CI= 0.08 to 0.68; p= 0.091).

**Conclusion:** Poor knowledge and poor personal hygiene increase the risk of scabies infection. Low dwelling density reduces the risk of scabies infection.

**Keywords:** knowledge, personal hygiene, dwelling density, scabies infection

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