

# RELATIONSHIP BETWEEN HOUSE SANITATION AND THE PRESENCE OF RATS AT MADIUN

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## ABSTRACT

**Background:** Rat breeding at home must be prevented. Poor house sanitation condition, such as the presence of trash, may attract rats to breed in the house. The presence of rats in the house creates stingy smell of feces, footprint, and rat bite marks. This study aimed to determine the relationship between house sanitation and presence of rats.

**Subjects and Method:** This was a cross-sectional study conducted in Dusun Bakem, Madiun, East Java, Indonesia. A random sample of 60 houses were selected for this study. The dependent variable was the presence of rats. The independent variable was house sanitation. The data were collected by observation, questionnaire, and interview. The data were analyzed by chi square test and odds ratio (OR).

**Results:** The presence of rats increased with poor house sanitation, and it was statistically significant (OR= 0.33; CI 95%= 0.18 to 0.62; p <0.001).

**Conclusion:** The presence of rats increases with dirty house.

**Keywords:** rats, sanitation, house.

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