

# FACTORS RELATED WITH OPEN DEFECATION BEHAVIOR AT KOTO ARO VILLAGE, JAMBI, INDONESIA

Anse Putra<sup>1,2)</sup>, Muhammad Ridwan<sup>1)</sup>, Usi Lanita<sup>1)</sup>

<sup>1)</sup>Faculty of Public Health, Universitas Jambi, Indonesia

<sup>2)</sup>Faculty of Medicine, Universitas Sebelas Maret

## ABSTRACT

**Background:** Open defecation remains a critical global health challenge, affecting almost 1 billion people around the world and contributing significantly to the estimated 842,000 people who die each year because of poor sanitation, hygiene practices, and unsafe water supplies. There are several contextual and behavioral factors that influence open defecation free status components with in different communities. The purpose of this study was to identify factors related with open defecation behavior in Indonesia.

**Subjects and Method:** This was a cross sectional study conducted at Koto Aro village, Siulak, Kerinci, Jambi, Sumatera, Indonesia, in 2020. A sample of 56 households was selected by proporsionate stratified random sampling. The dependent variable was stop open defecation behavior. The independent variables were knowledge, attitude, and health workers role. The data were collected by questionnaire and analyzed by Chi square.

**Results:** Good knowledge (OR= 4.92; 95% CI= 1.46 to 16.64; p= 0.008) and positive attitude (OR= 5.85; 95% CI= 0.96 to 35.74; p= 0.037) significantly increased stop open defecation behavior. Strong role health workers role increased stop open defecation behavior, but it was statistically non-significant (OR=1.59; 95% CI= 0.30 to 8.59; p= 0.587).

**Conclusion:** Good knowledge and positive attitude significantly increase stop open defecation behavior. Strong role health workers role increases stop open defecation behavior, but it is statistically non-significant.

**Keywords:** open defecation behavior, knowledge, attitude, health workers

### Correspondence:

Anse Putra. Masters Program in Public Health, Universitas Sebelas Maret. Jl. Ir. Sutami 36A, Surakarta, Central Java 57126. Email: anseputra9@gmail.com. Mobile: 08212-02982.