

# BIOPSYCHOSOCIAL AND ECONOMIC FACTORS AFFECTING COMPLETE USE OF BASIC IMMUNIZATION SERVICE IN CHILDREN AGED 12-23 MONTHS IN JEMBER, EAST JAVA

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## ABSTRACT

**Background:** Immunization is an cost-effective preventive way to protect children from serious vaccine-preventable diseases. This study aimed to examine biopsychosocial and economic factors affecting complete use of basic immunization service in children aged 12-23 months in Jember, East Java.

**Subjects and Method:** A cross sectional study was conducted at 25 integrated health posts (posyandu) in Jember, East Java, from September to October 2019. A sample of 200 mothers who had children aged 12-23 months was selected by simple random sampling. The dependent variable was complete basic immunization. The independent variables were maternal education, maternal knowledge, parity, maternal employment, family income, attitude, and family support. The data were collected by questionnaire and analyzed by a multiple logistic regression.

**Results:** Complete basic immunization increased with maternal education  $\geq$ Senior high school (OR= 11.83; 95% CI= 3.55 to 39.47;  $p < 0.001$ ), good maternal knowledge (OR= 5.99; 95% CI= 1.42 to 25.28;  $p = 0.015$ ), family income  $\geq$ Rp 2,170,000 (OR= 3.40; 95% CI= 1.07 to 10.86;  $p = 0.038$ ), positive maternal attitude (OR= 5.12; 95% CI= 1.48 to 17.71;  $p = 0.010$ ), and strong family support (OR= 5.93; 95% CI= 1.81 to 19.49;  $p = 0.003$ ). Complete basic immunization decreased with parity  $\geq 3$  (OR= 0.23; 95% CI= 0.71 to 0.74;  $p = 0.013$ ) and mother working outside the house (OR= 0.10; 95% CI= 0.02 to 0.45;  $p = 0.003$ ).

**Conclusion:** Complete basic immunization increases with high maternal education, good maternal knowledge, high family income, positive maternal attitude, and strong family support. Complete basic immunization decreases with parity  $\geq 3$  and mother working outside the house.

**Keywords:** basic immunization, biopsychosocial, economic factor

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