

**FACTORS ASSOCIATED WITH THE INCIDENCE OF ACUTE
RESPIRATORY TRACT INFECTION AMONG CHILDREN
AGED 0 - 59 MONTHS AT SUKODONO COMMUNITY
HEALTH CENTER, SIDOARJO, EAST JAVA**

Tri Ratih Agustina¹⁾, Endah Mulyani²⁾

¹⁾Faculty of Medicine, Universitas Wijaya Kusuma, Surabaya

²⁾Faculty of Health Sciences, Universitas Muhammadiyah Gresik

ABSTRACT

Background: Sustainable Development Goals (SDGs) have target on reducing children under five mortality by 25 per 1000 live births. The Indonesian Ministry of Health in 2015 reported children under-five mortality rate of 26.29 per 1000 live births. 16% of this mortality was attributed to pneumonia. Pneumonia in infants is generally preceded by Acute Respiratory Tract Infection (ARI). Sukodono Community Health Center (Puskesmas) reported that the incidence of ARI reached 540 infants in 2018. This study aimed to determine the factors associated with the incidence of ARI among children aged 0 - 59 months.

Subjects and Method: This was a cross-sectional study at Puskesmas Sukodono, Sidoarjo, East Java. A total of 36 mothers who had children aged 0 to 59 months was selected for this study. The dependent variable was the incidence of ARI. The independent variables were birthweight, history of exclusive breastfeeding, immunization status, and smoking habit of family member. Bivariate analysis was performed by chi-square.

Results: The incidence of ARI was associated with low birthweight (OR= 15.58, 95% CI= 2.65 to 91.57; p= 0.002), non-exclusive breastfeeding (OR= 22.50, 95% CI= 2.46 to 205.74; p= 0.003), incomplete immunization (OR= 9.44; 95% CI= 1.92 to 46.36; p= 0.009), smoking habit of family members (OR= 15.00, 95% CI= 2.77 to 81.38; p= 0.002).

Conclusion: The incidence of ARI is associated with low birthweight, non-exclusive breastfeeding, incomplete immunization, and smoking habit of family members.

Keywords: acute respiratory tract infection, birthweight, exclusive breastfeeding, immunization, smoking, infant

Correspondence:

Tri Ratih Agustina. Faculty of Medicine, Universitas Wijaya Kusuma, Surabaya, East Java. Email: wildrizky@gmail.com, endahmulyani@umg.ac.id. Mobile: 081252184499.