ABSTRACT

Stunting among Under-Five Children in Indonesian Fishing Communities: A Nationwide Cross-Sectional Analysis of SSGI 2024

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Background : Stunting remains a major problem in Indonesia, and children in fishing households face higher risk from low income, limited services, and paternal absence at sea, yet national evidence is scarce.

Objective : To examine factors associated with stunting among children under five in Indonesian fishing households.

This cross-sectional study used 2024 Indonesian Nutritional Status Survey (SSGI) data. Of 11,975 children under five whose fathers were fishers, 9,161 with complete data were analyzed. Stunting was defined as a height-for-age z-score below −2 SD of the WHO 2006 standards. Multivariable logistic regression was used to estimate adjusted odds ratios (aOR) with 95% confidence intervals.

Results : Stunting prevalence was 24.5%. Higher odds of stunting were associated with low birth weight (aOR = 2.27; 95% CI = 1.90-2.71; $p < 0.001$), low maternal education versus higher education (aOR = 1.48; 95% CI = 1.13-1.94; $p = 0.005$), maternal CED risk (aOR = 1.53; 95% CI = 1.26-1.86; $p < 0.001$), and incomplete immunization for age (aOR = 1.12; 95% CI = 1.01-1.24; $p = 0.038$). Compared with Java, the odds of stunting were higher in Sumatra (aOR = 2.17; 95% CI = 1.72-2.73), Bali-Nusa Tenggara (aOR = 2.72; 95% CI = 2.05-3.62), Kalimantan (aOR = 2.26; 95% CI = 1.73-2.95), Sulawesi (aOR = 2.45; 95% CI = 1.95-3.07), and Maluku-Papua (aOR = 2.82; 95% CI = 2.19-3.62), all $p < 0.001$. Child sex, paternal education, and residence were not significantly associated with stunting.

Conclusion/Lesson Learned : Birth weight, maternal education and nutritional status, and region were associated with stunting in fishing households. Interventions should prioritize maternal nutrition and education, low birth weight prevention, and fishing communities outside Java.

Keyword : stunting; children under five; fishing households; SSGI 2024