THE RELATIONSHIP BETWEEN PARENTAL SOCIO-ECONOMIC STATUS, BIRTHWEIGHT, AND DEVELOPMENT IN CHILDREN AGED 1-5 YEARS IN SURAKARTA

Rizka Agnes Kusumasari¹), Didik Gunawan Tamtomo²), Yulia Lanti Retno Dewi²)

¹⁾Masters Program in Public Health, Sebelas Maret University ²⁾Department of Nutrition, Faculty of Medicine, Sebelas Maret University

ABSTRACT

Background: Health report by The Ministry of Health in 2006 revealed that 16% of children under five had mild to severe development problem. About 5-10% of children under five had mental retardation. The current study hypotesized that parental socio-economic status such as family income and maternal education affect child development. The purpose of this study was to analyze the relationshipbetween parental socio-economic status, birthweight, and development in children aged 1-5 years in Surakarta.

Subjects and Method: This was an analytic observational study with case control design. This study was conducted at Ngoresan Health Center, Surakarta, from December, 2016 to January, 2017. The study population was children under five living within the area of Ngoresan Health Center. A total of 100 children under five was selected by fixed disease sampling, consisting of 25 cases and 75 controls. The dependent variable was child development, measured by Ministry of Health's KPSP. The independent variables were family income, maternal education, and birthweight. The data were analyzed by chi-square and multiple logistic regression.

Results: There were positive and statistically signifcant relationships between maternal education \geq high school (OR= 1.61; 95% CI= 1.5 to 15.7; p= 0.046), family income \geq minimum regional wage (OR= 5.1; 95% CI= 1.1 to 22.8; p= 0.032), and normal birthweight (OR= 8.5; 95% CI= 2.4 to 30.1; p= 0.001) and child development.

Conclusion: There are positiverelationships between highfamily income, high maternal education, normal birthweight, and normal development in children aged 1-5 years.

Keywords: parental socio-economic status, birthweight, child development

Correspondence: Rizka Agnes Kusumasari. Masters Program in Public Health, Sebelas Maret University, Jl. Ir. Sutami 36 A, Surakarta 57126, Central Java, Indonesia. Email:rizka.agnes@gmail.com.