World Academy of Science, Engineering and Technology
International Journal of Mathematical and Computational Sciences
Vol:14, No:12, 2020

Inadequacy of Macronutrient and Micronutrient Intake in Children Aged 12-23 Months Old: An Urban Study in Central Jakarta, Indonesia

Authors : Dewi Fatmaningrum, Ade Wiradnyani

Abstract : Background: Optimal feeding, include optimal micronutrient intake, becomes one of the ways to overcome the long-term consequences of undernutrition. Macronutrient and micronutrient intake were important for rapid growth and development of the children. Objectives: To assess macro and micronutrient intake of children aged 12-23 months old and nutrients inadequacy from intake of children aged 12-23 months old. Methods: This survey was a cross-sectional study, simple random sampling was performed to select respondents. Total sample of this study was 83 children aged 12-23 months old in Paseban Village, Senen Sub-district, Central Jakarta. The data was collected via interview and hemoglobin measurement of children. Results: The highest prevalence of inadequacy was iron intake (52.4%) compared to other micronutrients, 11.98% children had inadequate energy intake. There were 62.6% anemic children in the study area in which divided into anemic (37.3%) and severe anemic (25.3%). Conclusion: Micronutrient inadequacy occurred more frequently than macronutrient inadequacy in the study area. The higher the percentage of iron inadequacy gets, the higher the percentage of anemia among children is observed.

Keywords : micronutrient, macronutrient, children under five, urban setting
Conference Title : ICSRD 2020 : International Conference on Scientific Research and Development
Conference Location : Chicago, United States
Conference Dates : December 12-13, 2020

Open Science Index, Mathematical and Computational Sciences Vol:14, No:12, 2020 publications.waset.org/abstracts/2243/pdf