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Submission details

Authors:
Anthony Wemakor, Matilda Kwaako, Adinan Abdul-Rahman

Title:
Nutritional, health-related, and socio-demographic determinants of anaemia in adolescent girls in Kumbungu District, Ghana

Abstract:

Background: Anaemia is a serious health problem among adolescent girls in Ghana. The aim of this study was to measure the prevalence and identify the nutritional, dietary, health-related, and socio-demographic determinants of anaemia in adolescent girls in Kumbungu District, Northern Region, Ghana.

Method: An analytical cross-sectional study involving 370 adolescent girls residing in Kumbungu district who were selected using multi-stage sampling procedure was conducted. A semi-structured questionnaire, 24-hr dietary recall, food frequency questionnaire, Food Insecurity Experience scale, and anthropometry were used to gather information on socio-demographic characteristics, dietary diversity score, food consumption score, food consumption frequency, household food insecurity, waist and hip circumferences, and nutritional knowledge. Haemoglobin was measured using a portable HemoCue hg 301+ Analyzer. Anaemia in the adolescent girls was defined as haemoglobin concentration less than 12g/dl. Chi-square test and binary logistic regression analysis were used to identify the determinants of anaemia.

Results: The mean (±SD) age was 13.95 (±2.94) years, and the majority of the girls were in school (79.5%) and lived in a rural area (81.1%). The mean haemoglobin was 11.27 (±1.19), and 74.6% of the respondents had anaemia, with 1.6% having severe anaemia. The health-related determinant of anaemia was frequency of feeling nervous in the past 6 months (AOR: 2.13; 95% CI: 1.17-3.89; p-value: 0.014), and the socio-demographic determinants were residential community status (AOR: 0.42; 95% CI: 0.24-0.75; p-value: 0.003), and fathers' educational qualification (AOR: 0.44; 95% CI: 0.23-0.84; p-value: 0.013). No

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From: BMC Nutrition (B) kepada saya

Date: Rab, 18 Jan 12,12

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Ref: "Nutritional, health-related, and socio-demographic determinants of anaemia in adolescent girls in Kumbungu District, Ghana"

Dear Dr Tri Siswati,

Thank you for submitting your report to BMC Nutrition. We greatly value the time and effort you put into reviewing the manuscript.

We've attached a copy of the report for your reference. You can also use this email to verify your review activity with third party websites, such as Publons.

Thanks again for your review; we'll email you the decision on the manuscript as soon as it is made. Meanwhile, we hope that we can continue to benefit from your expertise in the future.

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Peer Review Advisors
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