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Sub-national mapping of any Anemia and Severe Anemia among children less than five years of age in Sub-Saharan Africa

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Anemia in children is a public health concern in Sub-Saharan African (SSA). Identifying anemia hotspots and the associated factors is critical to monitor and prioritize successful interventions, but also to target interventions to those with the greatest need. Analyzed data from nationally representative Demographic and Health Surveys (DHS) administered in 30 SSA countries, which comprised a total of 127,608 children. Spatial heterogeneity analysis was conducted and multilevel logistic regression analyzed, and adjusted odds ratios (AORs) were estimated. The prevalence of any anemia (64%) was very high. The prevalence of anemia increased in 10 countries during the period of 2010-2020. Anemia was a severe public health concern (>40%). Being male, younger, stunted, and wasted significantly increased the odds of anemia ($P<0.05$). Multisectoral interventions that improve maternal and child nutrition and health are urgently needed. The spatial analyses presented in this study can support the design and prioritization of interventions.

Biography

Bayuh Asemamaw Hailu is an Epidemiologist and Biostatistician at Wollo University. Bayuh Asemamaw has his expertise in evaluation and passion in improving the health and wellbeing. His open and contextual evaluation of geographic and non-geographic models based on responsive constructivists creates new pathways for improving health care. He has been modeled in research after years of experience in evaluation, and administration in health, agriculture, and education sectors. He has ample knowledge of different open source GIS and other statistical software.

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