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Malaria in pregnancy control and pregnancy outcomes: a decade's overview using Ghana's DHIMS II data

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Abstract

Background: Malaria in pregnancy control interventions have been implemented through antenatal care services for more than 2 decades in Ghana. The uptake of these interventions has seen steady improvement over the years. This has occurred within the context of decreasing global trends of malaria infection confirmed by decreasing malaria in pregnancy prevalence in Ghana. However, not much is known about how these improvements in interventions uptake and reduction in malaria infection prevalence have impacted pregnancy outcomes in the country. This study aimed at describing trends of maternal anaemia and low birth weight prevalence and uptake of malaria in pregnancy control interventions over the last decade using data from Ghana's District Health Information Management System (DHIMS II).

Methods: Data from Ghana's DHIMS II on variables of interest covering the period 2012 to 2021 was analysed descriptively using Microsoft Excel 365. Results were computed as averages and percentages and presented in tables and graphs.

Results: The prevalence of maternal anaemia at booking and at term and low birth weight increased marginally from 31.0%, 25.5% and 8.5% in 2012 to 36.6%, 31.9% and 9.5% in 2021 respectively. Severe anaemia prevalence at booking and at term remained under 2% over the study period. Women making at least 4 ANC visits, receiving at least 3 doses of intermittent preventive treatment of malaria and an insecticide-treated net increased from 77.0%, 41.4% and 4.1% in 2012 to 82%, 55.0% and 93.3% in 2021, respectively. Malaria test positivity rate reduced from 54.0% to 34.3% between 2014 and 2021 while women receiving iron and folate supplementation for 3 and 6 months rose from 43.0% and 25.5% to 89.7% and 61.8%, respectively between 2017 and 2021.

Conclusion: Maternal anaemia and low birth weight prevalence showed marginal upward trends over the last decade despite reduced malaria infection rate and improved uptake of malaria in pregnancy control interventions. There is room for improvement in current intervention implementation levels but the complex and multi-factorial aetiologies of maternal anaemia and low birth weight need urgent investigation and quantification to inform policy and practice.

Keywords: Malaria in pregnancy, Maternal anaemia, Low birth weight, Intermittent preventive treatment of malaria, MIP interventions, Ghana

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