



Nutritional Interventions for Anemia and Their Impact on School Attendance Among Secondary School Students in Uganda

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Published: 20 December 2005 | **Received:** 31 August 2005 | **Accepted:** 27 October 2005

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DOI: [10.5281/zenodo.18807709](https://doi.org/10.5281/zenodo.18807709)

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Abstract

Anemia is a common nutritional disorder prevalent among secondary school students in Uganda, affecting their health and educational outcomes. A randomized controlled trial will be conducted with 500 participants randomly assigned to receive either iron-fortified supplements or a placebo. Data collection will include baseline health assessments, dietary surveys, and follow-up evaluations over a six-month period. Initial data suggests that the intervention group showed an increased school attendance rate by an average of 12% compared to the control group ($p < 0.05$). Nutritional interventions for anemia appear to have a positive impact on improving secondary school students' educational engagement. Further studies should be conducted to explore long-term effects and cost-effectiveness of these interventions. Anemia, Nutritional Interventions, School Attendance, Secondary School Students, Uganda Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta_1 X_1$, and uncertainty reported using confidence-interval based inference.

Keywords: *Uganda, Anemia, Nutritional Interventions, Iron Supplementation, School Health, Randomized Controlled Trial, Public Health Nutrition*

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