



Mid-Term Impact Assessment of Food Security Interventions on Child Growth in Rural Ethiopia: A Systematic Literature Review

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Abstract

Food security interventions are critical for child growth in rural areas of Ethiopia, where malnutrition is prevalent. A comprehensive search strategy was employed to identify relevant literature from databases such as PubMed, Web of Science, and Google Scholar. Studies were assessed for methodological rigor using predefined inclusion criteria. The review identified a trend towards improved anthropometric measurements (mean height-for-age z-score increased by approximately 0.2 units) in children exposed to food security interventions compared to controls. Food security interventions appear effective in improving child growth outcomes, though variability exists across different types of interventions and geographical regions. Further longitudinal studies are recommended to assess long-term impacts and to identify optimal intervention strategies tailored to local contexts. Treatment effect was estimated with $\text{text}\{\text{logit}\}(\pi) = \beta_0 + \beta^T p X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Sub-Saharan, rural, intervention studies, child growth, nutrition assessment, prevalence, longitudinal studies*

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