ACCEPTABILITY OF AMARANTH GRAIN-BASED NUTRITIOUS COMPLEMENTARY FOODS WITH DAGAA FISH (Rastrineobola argentea) AND EDIBLE TERMITES (Macrotermes subhylanus) COMPARED TO CORN SOY BLEND PLUS AMONG YOUNG CHILDREN/MOTHERS DYADS IN WESTERN KENYA

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ABSTRACT

We assessed acceptability of two flours and porridges of complementary foods based on germinated grain amaranth and maize with or without edible termites and dagaa small fish named “Winfood Classic” (WFC) and “Winfood Lite” (WFL), respectively, compared to Corn Soy Blend Plus (CSB+) among mothers and young children. A total of 57 children consumed each of the three foods on separate days with one-day washout between foods. Each food was considered acceptable if the child consumed at least 75% of the serving. Most mothers preferred WFL flour and porridge (63.2% and 70.2%, respectively) compared to WFC (24.4% and 10.5%) and CSB+ (12.3% and 19.3%). Children consuming at least 75% of served porridge were 43%, 19.6% and 21% for WFL, WFC and CSB+, respectively. No adverse effects were observed for all the foods throughout the study period and follow up lasting 4 weeks. All foods were acceptable and can further developed and be tested for efficacy.
Keywords: Complementary food; Amaranth grain; Dagaa fish; Termites; Acceptability; CSB+

Key messages:

1. Complementary foods developed from locally available food materials are possible and when well formulated is appropriate for resource poor settings due to low costs and ready acceptability of the ingredient foods
2. Affordable complementary foods formulations are needed, but such new formulations must be acceptable and not associated with any adverse health effects among target children

It is feasible to formulate acceptable complementary foods using animal source foods ingredients as edible termites, but the adoption of such new formulations should be based on proven efficacy among target populations.