



The U.S. Government's Global Hunger & Food Security Initiative

Enhancing children's diets requires more than raising maternal awareness: results from a cluster-randomized controlled trial of a multi-sectoral nutrition-sensitive social behavior change intervention

Griswold, Stacy P¹; Moore, Ian¹; Van Sant, Carolyn¹; Desire Kayo, Gloria²; Mwesigire, Troshbert²; Fitzpatrick, Merry¹; Marshak, Anastasia¹; Hebie, Marlene²; Webb, Patrick¹; Ghosh, Shibani¹

I Friedman School of Nutrition Science and Policy, Tufts University; Boston, MA, USA 2 GOAL Global; Dublin Ireland and GOAL Uganda; Kampala, Uganda

Introduction

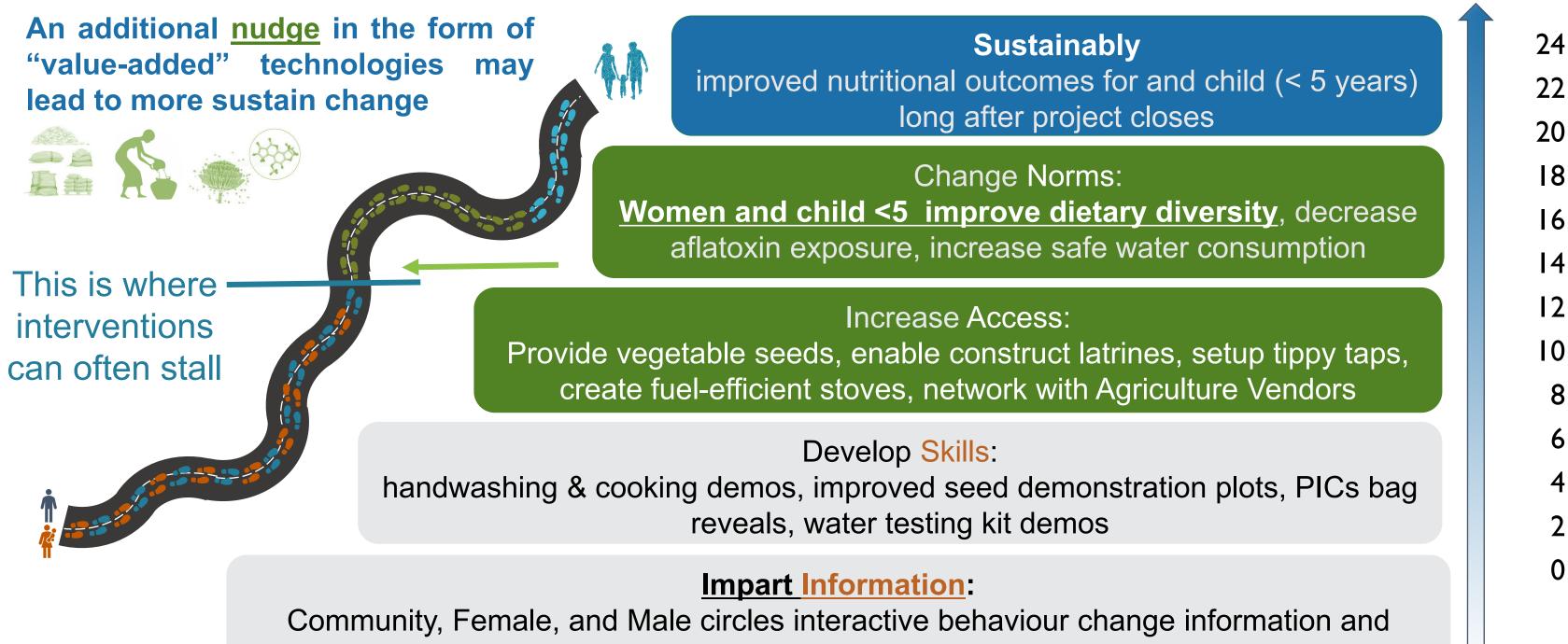
Analytical Methods

- Malnutrition, in all its forms, is a burden that **disproportionately impacts** rural and impoverished communities in complex environments.
- Improving diets to be more diverse and nutrient-rich is one path to improving nutritional well-being and reducing the impact these complex environments have on early life course development.
- **Social behavior change (SBC)** interventions can be low-cost, often sustainable interventions for reducing barriers to consuming a diverse diet.

RQ and Theoretical Framework

- Pre-Post evaluation design
- Outcome variables included
 - a score assessing maternal knowledge across five food-related domains,
 - 24-hour recall minimum dietary diversity score for children (MDDC) and women (MDDW), and
 - if the child consumed animal-sourced food (ASF).
- Ordinal logistic regression estimated differences in the knowledge score across treatment arms and logistic regression for each diet quality indicator, controlling for clustering and maternal knowledge.

Does enabling families (particularly mothers and other caregivers) to 'assess and act' on drivers of malnutrition through a targeted SBC+ (NIPP+) package succeed in a sustained reduction of risk factors thereby improving child health and nutrition?

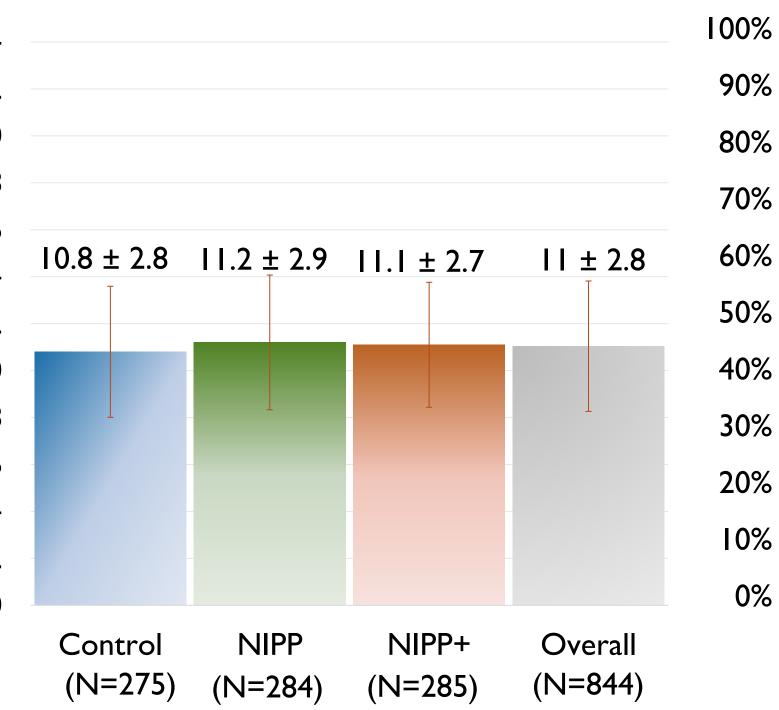


discussion meetings

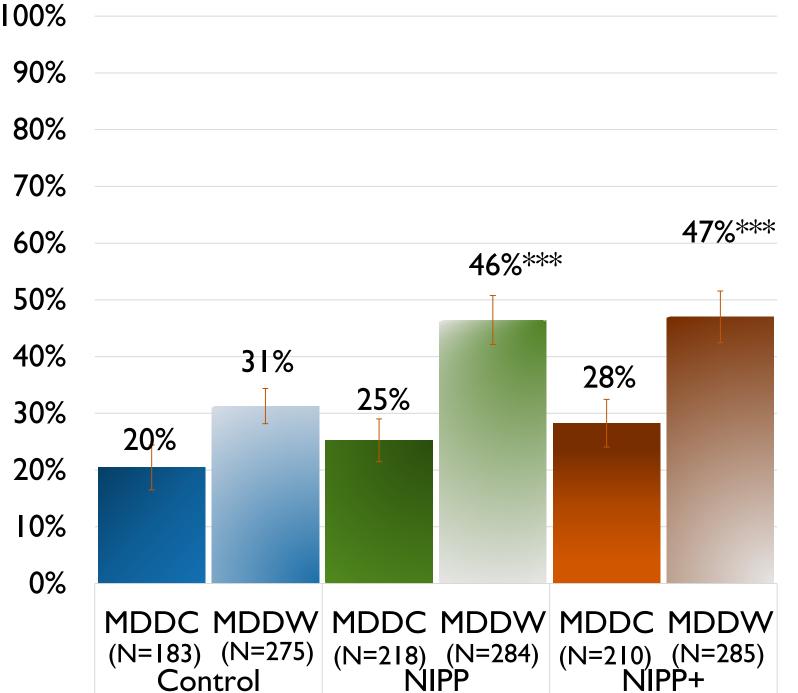
Results

Figure I: Mean ± SD number of questions answered correctly out of 25 about common causes of malnutrition, ways of preventing malnutrition, ways of identifying malnutrition, and ways of preserving food at endline. (Agago, Uganda, 2021)

Figure 2: Percentage of children 6-24 months achieving and percentage of female caregivers achieving minimum dietary diversity at endline. (Agago, Uganda, 2021), adjusted marginal predictions

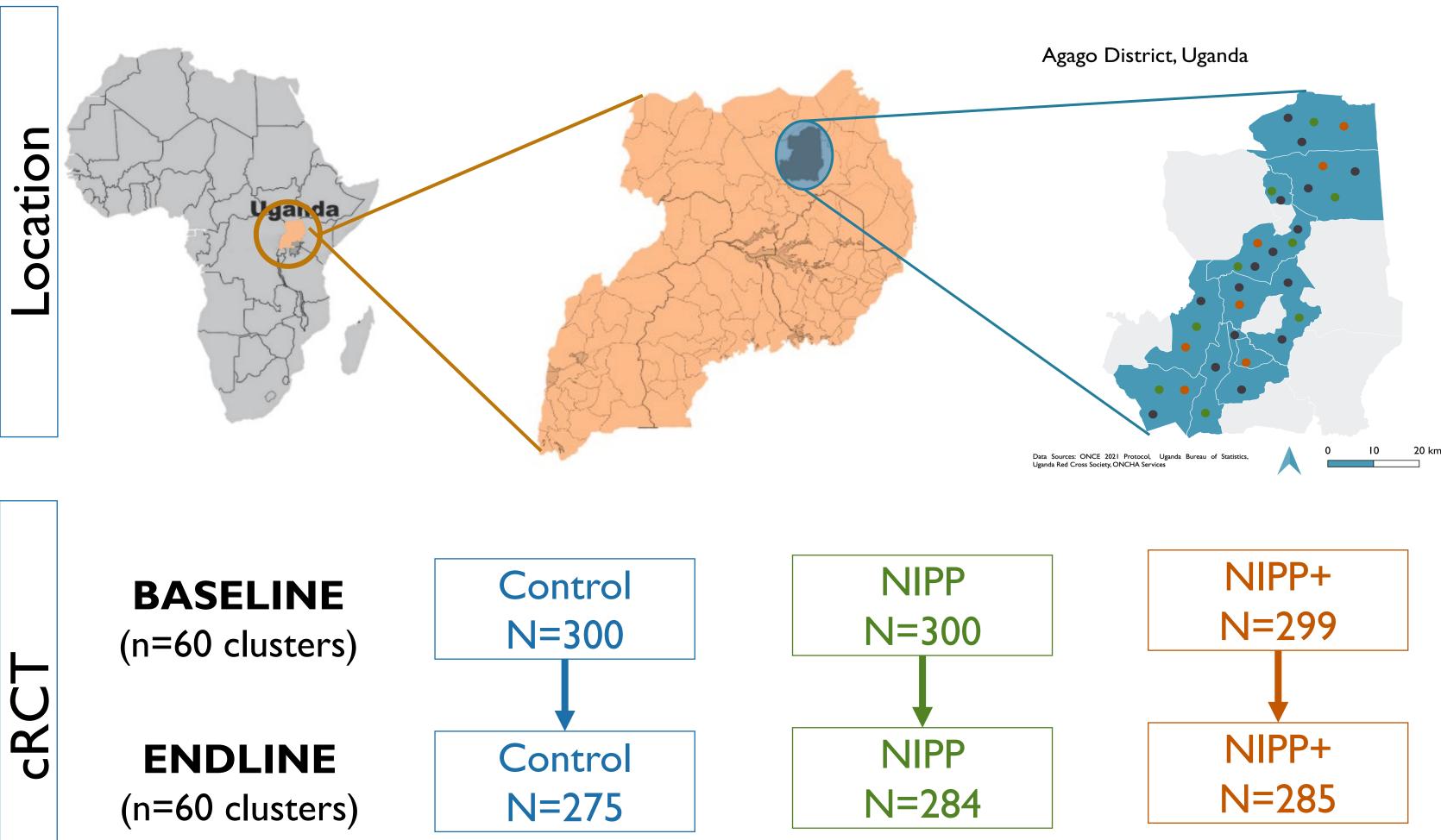


Abbreviations: NIPP, Nutrition Impact and Positive Practice; SD, standard deviation



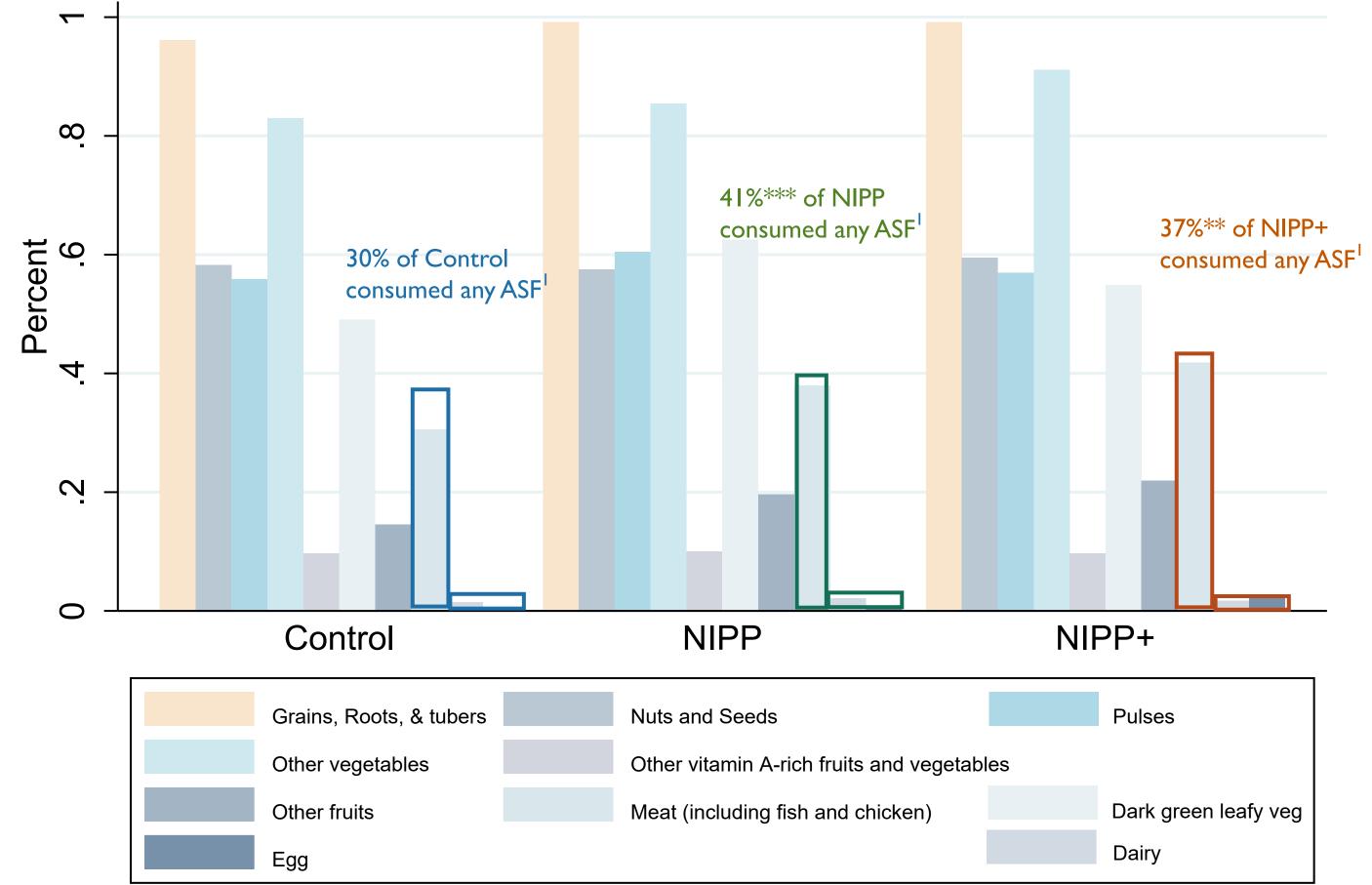
Model adjusted for nutrition knowledge, food preservation knowledge, and clustering. Abbreviations: NIPP, Nutrition Impact and

One Nutrition in Complex Environments: Study Design

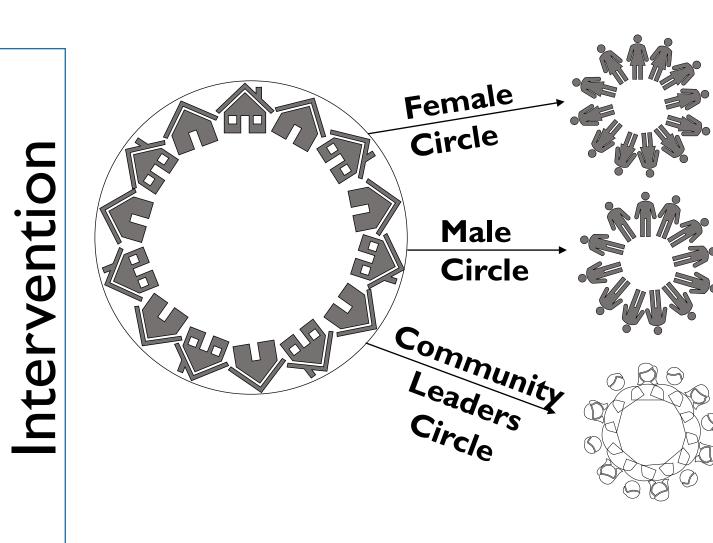


Positive Practice; MDDC, minimum dietary diversity for children; MDDW, minimum dietary diversity for women. *** p<.01 compared to control.

Figure 3: Percentage of children 6-24 months consuming each food group in previous 24 hours as reported by female caregiver at **endline**. (Agago, Uganda, 2021)



¹Marginal probabilities of logistic model, model adjusted for nutrition knowledge, food preservation knowledge, and clustering. Abbreviations: NIPP, Nutrition Impact and Positive Practice; ASF, animal sourced-foods. *** p<.01 ** p<.05 compared to control.



- Nutrition Impact and Positive Practice (NIPP)
- Recruit households not individuals
- Form gender-specific sub-circles (gendered SBCC approach)
- Each circle meets twice a week for 12 weeks
- Facilitated by volunteers in the community (positive deviants)
- Taught about good diet, WASH, food storage, and disease prevention, among others
- NIPP+ includes additional modules on improved technologies for WASH and food storage

Conclusions

- 12-week SBC program with or without new technologies could improve maternal diet and increase children's consumption of ASF.
- Differences in ASF consumption were due to factors other than understanding of key practices.
- Proportions achieving minimum standards remained unacceptably low across arms as were scores demonstrating understanding of the structural causes of malnutrition.
- While an SBC intervention can provide nudges to improve both ulletmaternal and child nutritional well-being, structural barriers to actioning those nudges also need to be addressed.



This presentation was made possible through support provided by the Office of Acquisition and Assistance, Bureau for Management, U.S. Agency for International Development, under the terms of Cooperative Agreement No. 7200AA18CA00044. The opinions expressed herein are those of the author(s) and do not necessarily reflect the views of the U.S. Agency for International Development."

@stacedadane #ANH2023

https://www.anh-academy.org/academy-week/2023

