

Designing Nutrition Education for Behavior Change:

Experiences from *Quality Diets for Better Health*

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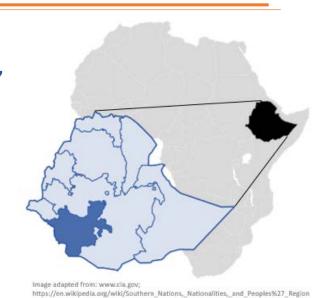






Quality Diets for Better Health

- Location
 - Southern Nations, Nationalities, and Peoples' Region (SNNPR), Ethiopia
- Objective
 - Improve diets of women and young children by introducing a reliable, bioavailable source of vitamin A and energy into the food system



- Target population
 - Households with pregnant women and/or children < 2 years
- Approach
 - Support homestead production of orange-fleshed sweetpotato (OFSP)
 - Health Living Clubs to disseminate nutrition and agriculture education
 - **Healthy Baby Toolkit**





Healthy Living Clubs

- Groups of ~30 households
 - Mothers, fathers, and (sometimes) grandmothers
- Meet approximately monthly, for 8 months, to learn about nutrition and/or OFSP agriculture
- Facilitated by a government-sponsored volunteer from the communities
 - Often older mothers or grandmothers with experience
 - Varying degrees of literacy
- Government-employed health extension workers (HEWs) train volunteers and support their activities





Healthy Baby Toolkit

1. Feeding Bowl



- ✓ Portion Size
- ✓ Meal Frequency

2. Spoon



✓ Nutrient Density (thickness)

3. Counseling Card



- **Dietary Diversity**
- ✓ Hygiene

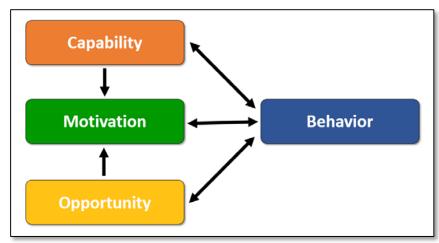
Previous research in Kenya, India and Malawi suggests the toolkit improves portion size, diet diversity, and nutrient density and may reduce growth failure.





Behavior Change Theory

 Behavior change is more than just "telling" – it requires understanding complex factors that influence behavior



Domains for understanding human behavior [Michie et al, 2011, *Implementation Science*]

- Behavioral determinants grouped into three domains: <u>capability</u>, <u>opportunity</u>, and motivation
 - Each have several sub-domains.
- Once sub-domain determinants of a behavior are understood, we identify intervention functions and change techniques – evidence based approaches that address specific behavioral determinants to promote change





Formative Work

- Objectives
 - ✓ Identify barriers, facilitators and motivators of current and recommended practices
 - ✓ Characterize vitamin A knowledge
 - ✓ Assess acceptability of project components (OFSP, Healthy Living Clubs, Healthy Baby Toolkit)
- Methods
 - ✓ Literature review
 - ✓ Focus Groups Discussions (FGDs) with mothers, fathers, and grandmothers
 - ✓ Key Informant Interviews (KIIs) with health workers and community. leaders

Formative Work

Behavior Change Communication Strategy

Healthy Living Club Curriculum

Healthy Living Club Implementation





Feeding Nutrient Dense Foods: an Example

Determinant: Caregivers do not know how to

prepare nutrient dense porridge **Sub-domain:** Physical skill

Intervention: Modeling, Training

Determinant: Caregivers believe infants ≥ 6 months

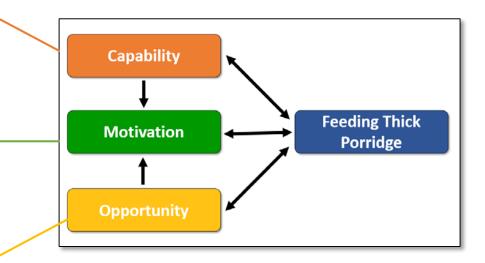
cannot swallow thick porridge

Sub-domain: Beliefs about infant capabilities / Fear

Intervention: Modeling, Training

Determinant: Caregivers do not have utensils to prepare and feed thick porridge (ie. Small spoons)

Sub-domain: Resources Intervention: Enablement



Formative Work

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Behavior Change Communication Strategy

- Audience segmentation
 - Primary audience mothers and fathers of children < 2 years
 - Influencing audience grandmothers, health workers
- Specify desired behavior changes for *each* audience segment
 - Identify behavioral bridges
 - Motivators of a behavior; identified in formative work
 - Key messages





Feeding Nutrient Dense Foods: an Example

Desired Change

Mothers will prepare and feed thicker porridge

Behavior Bridge

Mothers want relief from breastfeeding

Key Message

"Feeding thicker foods will keep a child full longer. They will not need to breastfeed as often and this can provide relief for mothers from breastfeeding."

Formative Work

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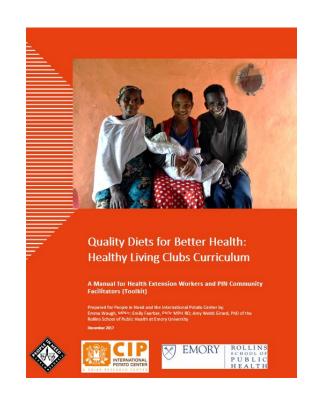
Healthy Living Club Implementation





Healthy Living Club Curriculum

- Each month, community health workers train volunteers to prepare for session
- Each session includes
 - 1. Welcome and review of last session
 - Problem solving of challenges faced in reaching goals set in last session
 - 3. Activity: audio story OR cooking demonstration; gender-specific discussion time
 - 4. Catch phrase (key message for the session)
 - 5. Goal setting
 - 6. Closing







Audio Stories

- Ensure message fidelity across communities
- Relieves community volunteers from having to read long scripts or detailed instructions
- Characters include mother, father, a community health worker, and a trusted community leader
- End by posing discussion questions, prompting mothers, fathers, and grandmothers to break into groups for discussion





Feeding Nutrient Dense Foods: an Example

- Cooking demonstration with three porridges
 - Watery
 - Thin
 - Thick

show caregivers the differences using the toolkit spoon

- Use locally available ingredients
- Give caregivers time to practice feeding their infants *thick* porridge

Behavior Change Communication Strategy





Healthy Living Club Implementation

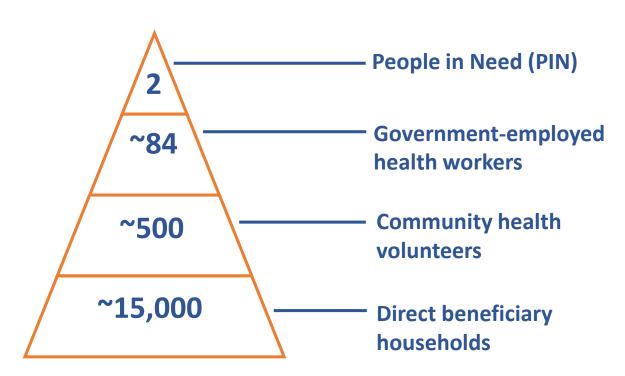




Photo credit: Mihireteab Samuel, PIN





Monitoring and Evaluation

- Monitoring
 - Session-specific checklists
 - Monthly debrief sessions with supervisors
 - Periodic household visits
- Evaluation
 - Longitudinal survey following families in first Healthy Living Clubs (and control households)
 - Process evaluation after first Healthy Living Clubs are complete

Behavior Change Communication Strategy

Healthy Living Club Curriculum

Healthy Living Club Implementation





Challenges

- Cascade training message fidelity and detail are lost at every step down in the training
- Organization
 - Delayed printing of educational materials due to budget concerns
 - The project covers 2 zones with different local languages materials (audio stories) should be in a language that is most comfortable for participants
- Monitoring with many field activities, project staff have competing interests and the result has been less attention to monitoring activities
- Agriculture cycle
 - Healthy Living Clubs may start at different times during the year
 - Ideally, sessions should line up with agricultural cycle for example, OFSP nutrition education during OFSP root harvest
 - Rains have been unpredictable in the past year





Concluding Remarks

- Formative work helps understand where we start and what drives behaviors
- Behavior change requires more than just telling someone to do something
- Must first understand what influences behavior to best know how to promote behavior change
- Adult learning theory should be incorporated into any behavior change intervention; main components of adult learning theory include:
 - **Experiential learning**
 - Adults should know why they're learning
 - Learning should be relevant and useful

Thank you!

HEALTHY MOTHER, HEALTHY CHILD







This card was developed by the Rollins School of Public Health at Emory University; images adapted with permission from UNICEF and Alive & Thrive. Project funding provided by the European Union.















