

REPORT ON BARRIER ANALYSIS OF EXCLUSIVE BREASTFEEDING AND COMPLEMENTARY FEEDING FOR CHILDREN FOR 6-23 MONTHS











Sustainable Agriculture and Production Linked to Improved Nutrition Status, Resilience, and Gender Equity (SAPLING)

Report on Barrier Analysis of Exclusive Breastfeeding and Complementary Feeding for Children 6-23 Months

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Acronyms

ASF Animal-Source Foods BA Barrier Analysis

CF Complementary Feeding

CHSW Community Health Service Worker

CHT Chittagong Hill Tracts

DBC Designing for Behavior Change
DFSA Development Food Security Activity

EBF Exclusive Breastfeeding
EHA Essential Hygiene Actions
ENA Essential Nutrition Actions

HH Household

HKI Helen Keller International

IEHFP Integrated Enhanced Homestead Food Production

IGA Income Generating ActivityIRB Institutional Review BoardIYCF Infant and Young Child Feeding

MCHN Maternal and Child Health and Nutrition

NGO Non-Governmental Organization

TOPS Technical and Operational Performance Support

WHO World Health Organization

USAID United States Agency for International Development

SAPLING Sustainable Agriculture and Production Linked to Improved Nutrition Status,

Resilience and Gender Equity

INTRODUCTION

On September 30, 2015, Helen Keller International (HKI) was awarded a five-year cooperative agreement by the United States Agency for International Development (USAID) to lead the Sustainable Agriculture and Production Linked to Improved Nutrition Status, Resilience and Gender Equity (SAPLING) program, a Development Food Security Activity (DFSA). The overall goal of SAPLING is to improve gender equitable food security, nutrition and resilience of vulnerable people in the Chittagong Hill Tracts (CHT) in Bangladesh. SAPLING is being implemented in the sub-districts of Bandarban Sadar, Ruma, Lama, Thanchi and Rowangchari in Bandarban District of the CHT. The estimated total population of 298,868 is comprised of 12 ethnic groups, including Bengali. Each group has its own language, cultural traditions and deeprooted allies and contenders. SAPLING works with approximately 47,000 households (HH).

SAPLING takes an integrated community development and HH approach with interventions designed to increase food availability, utilization and access to nutritious foods and income, enhance maternal and child health and nutrition (MCHN), and improve resilience among families who are under constant threat of natural and human-induced shocks and disasters by increasing individual and institutional adaptive, absorptive and transformative resilience capacities. One of the main foci of this program is to enhance the nutritional status of children under five years of age. Under the supervision of MCHN specialists, the SAPLING Community Health Service Workers (CHSW) promote optimal maternal and child health behaviors among program participants following the Essential Nutrition Actions and Essential Hygiene Actions framework (ENA-EHA).¹²

According to the Bangladesh National Strategy for Infant and Young Child Feeding (IYCF), and in accordance with World Health Organization (WHO) guidance, infants should be exclusively breastfed for the first six months (180 days) of life to achieve optimal growth, development and health.³ During this time, no other liquids or solids are given (not even water) with the exception of oral rehydration solution, or drops/syrups of vitamins, minerals or medicines.⁴ Optimal complementary feeding (CF) begins from six months up to 24 months of age. Proper CF refers to the amount, frequency and variety of complementary foods, including animal-source foods (ASF), fruits and vegetables, legumes, and oils and fats. To ensure and meet nutritional needs, complementary foods should be timely, adequate, safe and responsively fed.⁵

The SAPLING baseline study found that 27.6% of all children under five years of age were underweight and the prevalence of wasting and stunting rates were 10.4 and 31.5 percent, respectively. The rate of exclusive breastfeeding (EBF) at baseline was 43.76 percent, which is

backup/documents/Resources/Tools/ENA EHA/Understanding ENA EHA Framework.pdf

¹ World Health Organization. 2013. "Essential Nutrition Actions: Improving Maternal, Newborn, Infant and Young Child Health and Nutrition."

http://www.who.int/nutrition/publications/infantfeeding/essential nutrition actions/en/.

² https://coregroup.org/wp-content/uploads/media-

³ National Strategy for Infant and Young Child Feeding in Bangladesh, 2007:19-20

⁴ Exclusive breastfeeding for Optimal Growth, Development and Health of Infants (World Health Organization), retrieved February 2017 from e-Library of Evidence for Nutrition Actions (eLENA)

⁵ National Strategy for Infant and Young Child Feeding in Bangladesh, 2007: 21-22

⁶ Final Report: Baseline Study of Food for Peace Development Food Assistance Projects in Bangladesh, 2017

lower than the national rate of 55.3 percent.⁷ Little information exists on the practices of EBF and CF among the multiple ethnic communities of Bandarban District. The practice of providing water to children under six months of age is higher in the SAPLING project area than other DFSA areas, increasing the likelihood that infants will wean earlier or reduce breastmilk consumption, while also increasing the risk of diarrhea and, subsequently, malnutrition through environmental enteric disorder.⁸ Although the rate of EBF is nearly half of the population, this may be overreported.

Both the qualitative data from the baseline and SAPLING's formative qualitative research study show that caregivers are aware of the importance of EBF. Despite low rates of EBF, respondents to the baseline survey were aware of the importance of EBF for the first six months of life and even say they have heard this from other non-governmental organizations (NGO) and health service providers, but also believe the introduction of rice in the diet, beginning as early as one month, is good for the baby. There is also an understanding that honey, water and other liquids are not recommended to give to children during that time, although these are commonly practiced. The baseline also found that only 34.1 percent of children aged six to 23 months have a minimum acceptable diet, with inadequate consumption of ASF. Children's Minimum Acceptable Diet is higher in HHs above the poverty line and HHs where the head of the HH has a primary education or higher. Additionally, 53.8 percent of children in Bandarban start complementary food from four to five months of age. 10 There are diverging views regarding feeding young children protein-rich foods such as fish or other meat¹¹. SAPLING formative research study participants described how most babies are fed rice (in various forms) by the fourth month of age and some believe children under 12 months of age should not be fed vegetables and ASF. Overall, children are not consuming ASF in adequate proportions.

In this context, HKI, with support from partner organizations, conducted a barrier analysis (BA) to explore the multi-dimensional factors and determinants of EBF and CF, paying specific attention to ASF for CF. The BA was conducted using the Designing for Behavior Change (DBC) Framework. This study contributes to understanding the motivators and barriers for encouraging and preventing proper EBF and CF practices among the SAPLING target population. Information obtained through the BA was used to inform social and behavior change communications for child health and nutrition.

STUDY OBJECTIVES

The overall objective of this BA was to explore the potential barriers and key motivators to the adoption of evidence-based, appropriate behaviors related to EBF and CF. The specific objectives are:

> For Exclusive Breast Feeding

⁷ Bangladesh Demographic Health Survey, 2014.

⁸ Final Report: Baseline Study of Food for Peace Development Food Assistance Projects in Bangladesh, 2017 ⁹ ibid

¹⁰ ibid

¹¹ ibid

¹² Food Security and Nutrition Network Social and Behavioral Change Task Force. 2013. Designing for Behavior Change for Agriculture, Natural Resource Management, Health and Nutrition. Washington, D.C.: Technical and Operational Performance Support (TOPS) Program.

- Explore the existing situation of EBF practices.
- Explore the potential influencing persons of the communities regarding EBF.
- Design evidence-based behavior change activities to promote EBF for the SAPLING project.

➤ For Complementary Feeding

- Explore the existing situation of CF practices, in particular, animal-source food.
- Explore the starting time of giving animal source food, amount and frequencies.
- Identify and understand the potential influencing persons of the community regarding CF.

METHODOLOGY

The DBC BA is a rapid assessment tool using doer/non-doer methodology to identify factors preventing a target group from adopting a preferred behavior, as well as identifying the influencing groups or motivators to adopt a behavior. Data collection was done through individual interviews combining both closed-ended and open-ended questions. Interviews were conducted with mothers of children less than two years of age to better understand the existing practices and potential and existing barriers and support. To allow for comparison of differences in practices, the data collection team identified participants first through a screening questionnaire to identify whether they are doers or non-doers. For example, participants who practice child feeding according to the national IYCF standards (e.g., exclusively breastfeed child until six months of age) were considered as "doers" and participants who do not practice or follow those standards (e.g., breastfeed child, but give other foods within six months) were considered as "non-doers".

Sampling Strategy

A purposive sampling strategy was used for data collection in this study. In line with the DBC methodology and recommended sampling size, and considering that this study is analyzing two specific behaviors (EBF and CF), 90 individuals, including 45 doers and 45 non-doers, were interviewed for each behavior, for a total of 180 interviews (see Table 1 below). The DBC methodology recommends 45 doers and non-doers to achieve statistical significance. ¹³ This sample size was calculated using a sample size calculator for case-control type studies with a p-value of 0.05, a relative risk of 3.0, an alpha error of 5 percent, and a power of 80 percent. ¹⁴

Table 1. Breakdown of Doer and Non-doer Sample Size by Behavior

Behavior		Sample Size	
	Doers	Non-doers	Total
Exclusive Breastfeeding	45	45	90
Complementary Feeding	45	45	90

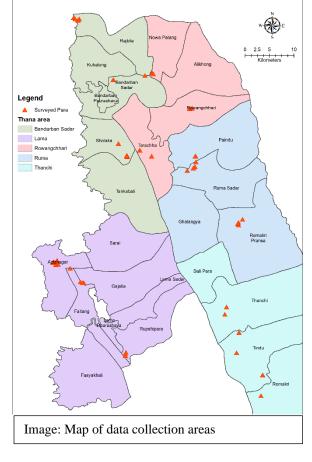
14 Ibid.

¹³ Ibid.

For each behavior, a total 18 individual interviews were conducted in each of the five SAPLING upazilas. Within each upazila, a list of paras (villages) with a minimum population of 60 HHs was constructed from the SAPLING HH census data. The proposed strategy was to select up to three paras in each upazila from the list for inclusion in the BA by using a simple random sampling method and add additional paras if more participants were needed. The list of eligible participants within each para was chosen purposively using existing SAPLING HH census and monitoring data to identify HHs with children ages 5-24 months. If there were more than 90 eligible HHs across the three paras, participants were randomly selected from the list. In all five upazilas, more than three paras had to be selected. In total, 10 paras from Bandarban Sadar, 14 from Lama, eight from Rowangchari, 10 from Ruma, and five from Thanchi were selected to get enough doers and non-doers for EBF and CF.



The DBC framework guided the design of the BA and development of evidence-based behavior change activities. The DBC framework is a comprehensive



tool which helps to achieve better and sustainable behavior change results by guiding program designers through five key DBC decisions (described in Table 2): 1) Behavior, 2) Priority Group or Influencing Group, 3) Determinants, 4) Bridges to Activities and 5) Activities. 15 A BA is one type of research conducted to identify Determinants and Influencing Groups and inform Bridges to Activities and Activities.¹⁶

Table 2. Five Decisions of the DBC Framework

Component	Description ¹⁷
Behavior	A Behavior is a physical action that is specific, measurable and takes place
	at a specific time and place and with duration and frequency. A measurable
	and observable Behavior Statement is developed that mentions who needs
	to do the behavior with specifics, such as quantity, frequency, duration.
	Example: Mothers of children ages 0-6 months feed them only breastmilk.
Priority Group	The Priority Group is the group of people being encouraged to adopt the
and Influencing	behavior. The Influencing Group(s) is the group the Priority Group
Groups	

¹⁵ Food Security and Nutrition Network Social and Behavioral Change Task Force, 2013. Designing for Behavior Change for Agriculture, Natural Resource Management, Health and Nutrition. Washington, D.C.: Technical and Operational Performance Support (TOPS) Program

17 ibid

¹⁶ ibid

	identifies as having the most influence or control over whether the Priority Group practices or does not practice the Behavior.
Determinants	Determinants are categories of elements (e.g., a person's feelings, beliefs, barriers, enablers) within a person's environment (i.e., sociocultural, political, economic context) that can support or prevent him or her to engaged in a Behavior.
Bridges to Activities	Bridges to Activities are specific descriptions of actions needed to address the issues revealed in the research, usually intended to change perceptions of the Priority Group. Example: Increase the perception that ASFs are good for children's physical and cognitive development.
Activities	Activities are tasks that program implementers plan, organize, and/or conduct, usually with the Priority Group or Influencing Groups, to address Bridges to Activities. Example: Provide lactation management training to midwives.

In the DBC approach, a BA can be used to uncover the different factors that are preventing a target group from adopting the appropriate behavior and identify those factors which motivate and facilitate adoption of the behavior. A BA can include open-ended (qualitative) and closed-ended (quantitative) questions to study determinants and data are first coded qualitatively and then quantified. The DBC Framework has a pre-determined list of 12 evidence-based determinants for health and nutrition behaviors. The four most common and powerful influences of behavior change in health and nutrition are: perceived self-efficacy/skill, perceived social norms, perceived positive consequences, and perceived negative consequences. In addition to those four, other important determinants are: access, perceived susceptibility, perceived severity, perceived action efficacy, perceived divine will, cues for action/reminders, policy, and culture. Responses from the data collected via interviews are coded according to these determinants.

Behavior Statement and Behavior Explanation

Mothers of children ages 0-6 months feed only breastmilk.

This behavior was selected because SAPLING uses the WHO-endorsed ENA framework¹⁸ to promote EBF from birth to six months of age, which is also in accordance with the Bangladesh National Strategy for IYCF.²⁰ Mothers of children aged five to 10 months were interviewed for this behavior because they should have current or recent experience with practicing or not practicing EBF.

Mothers of children ages 8–24 (full) months feed their children animal source food every day. This behavior was also selected because of the ENA practices promoted by SAPLING. According to the ENA framework and the Bangladesh National Strategy for IYCF, optimal CF begins at six months through 23 months of age. Appropriate CF refers to the accurate amount,

¹⁸ World Health Organization. 2013. Essential nutrition actions: improving maternal, newborn, infant and young child health and nutrition. http://www.who.int/nutrition/publications/infantfeeding/essential nutrition actions/en/.

¹⁹ CORE Group. 2015. Understanding the Essential Nutrition Actions and Essential Hygiene Actions Framework. https://coregroup.org/wp-content/uploads/media-

backup/documents/Resources/Tools/ENA EHA/Understanding ENA EHA Framework.pdf.

²⁰ National Strategy for Infant and Young Child Feeding in Bangladesh. 2007. Institute of Public Health and Nutrition, Ministry of Health and Family Welfare, Government of the People's Republic of Bangladesh.

frequency and variety of complementary foods, including animal foods, fruits and vegetables, legumes, and oils/fats. To ensure and meet nutritional needs, complementary foods should be timely, adequate, safe and responsively fed. Mothers of children aged eight to 24 months were included in the study of this behavior. The decision to include mothers of children 8-24 months and not 6-24 months was made because mothers will have had at least two months of experience practicing CF (if following guidance to start CF at six months) from which to draw on for responses, whereas mothers of children six months of age would just be introducing foods other than breastmilk to the children's diet.

Barrier Analysis Questionnaire Development

The questionnaire for the BA contained two sections (see Annex C). Section A is a set of behavior screening questions to determine if the eligible participants are doers or non-doers, based on their practices with regards to EBF and CF behaviors. Section B contains the research questions designed to provide information on the pre-selected determinants being studied. Questions were developed by the study team in English following principles of BA norms and the DBC determinants. The questionnaire was reviewed by the study team members and a BA expert and then translated into Bangla and then back-translated into English to ensure accuracy.

In the SAPLING target area, there are 12 different ethnic groups that speak 12 different languages. Most of the languages do not have written alphabets; for those languages that do have written alphabets, most of the participants were non-literate. Therefore, the questionnaire was translated verbally on voice recorders into the four most common languages, identified through the HH Census. These are Bangla, Tripura, Marma and Mro. One version of the voice-translated copy of the questionnaire was given to the data collectors in each language. The data collectors were instructed to keep the voice recorder with them and use it, if needed.

Ethical Consideration

The study protocol was approved by the Center for Institutional Review Board (IRB) Intelligence. Data collectors were informed of the study objectives prior to taking part in the interviews. A written script was read to each participant before starting the interview. Written consent was recorded for each participant which ensured their willingness to participate in the study.

Data Collection Team

The SAPLING CHSWs were recruited to collect the data and a MCHN specialist was assigned to each team as a supervisor. Three CHSWs and one MCHN Specialist were employed in each upazila, with a total of 15 CHSWs and five MCHN specialists from all five upazilas. The CHSWs were recruited from the paras where they work to collect data from those same paras. This strategy was both cost-effective and helped to overcome the language challenges as these CSHWs are usually from the ethnic group living in the para. In addition, the study leads visited the data collection areas during the data collection process to spot-check for quality control and provide feedback.

Training

All data collectors and supervisors received a four-day training, with a one-day field test, on BA implementation methods, conducted by the study leads. The training covered all topics related to

DBC and BA, including the basics of the DBC approach, introduction to BA, selecting participants, informed consent, identifying doers and non-doers, how to ask questions, probing, mock interviewing, interpretation of each question and coding technique.

Pre-test

The questionnaire was pre-tested in different paras of Bandarban Sadar Upazila to ensure the appropriateness of the questions, suitability of the language and to provide data collectors with practical field experience of data collection. Following the pre-test, the study leads and data collectors met to discuss and better understand the questions.

Data Collection

Data collection took place December 8-9, 2017 using paper questionnaires. The supervisors kept a record of daily data collection status which was shared with the study team leads each evening.

Data Analysis

After completing the data collection, the team of data collectors, supervisors and study team leads returned to the training venue to analyze the data. The data analysis was done in the following three steps:

- 1) **Coding:** By design, data were automatically deductively coded according to each determinant because the questions were formulated to gather information under the preselected Determinants. Responses to open-ended questions under each determinant were then inductively coded into themes, or categories, based on what the participants said in their responses. Responses to closed-ended (yes/no) questions were automatically coded yes or no.
- 2) **Tabulation:** Once the coding was completed, the team tabulated the results (number and percentage of doers and non-doers) to each question by recording the category frequencies in a pre-formulated BA Tabulation Sheet (in MS Excel) that uses Estimated Relative Risk, taking into account prevalence of the behavior in the population to formulate statements of association (e.g., "doers are 2.3 times more likely to give this response than non-doers"). The sheet also keeps results and prevalence separate for doers and non-doers for a comparative analysis. The tabulation sheet is pre-formulated to determine statistical significance between doers and non-doer responses. If there is a gap of more than 15 percentage points between non-doers and doers who gave the same response and it is statistically significant at p<0.05, then it is considered a significant finding. Occasionally, there may also be an important finding that approaches statistical significant that can also be considered.
- 3) **Qualitative comparative analysis:** This step involves interpreting the results: for example, looking at the gaps between doers and non-doers, examining whether barriers mentioned by doers may not have kept them from doing the behavior, looking at enablers that were mentioned by non-doers more than doers, and deciding if determinants that did not have a 15-point difference between doers and non-doers might be worth further analysis.

The final steps after calculating and interpreting the results are identifying the bridges to activities and then designing activities to overcome the barriers. The study leads and SAPLING

technical leads developed descriptions of actions (bridges to activities) to address barriers and enablers and support adoption of the behaviors. A workshop was held with the SAPLING technical teams to finalize the bridges to activities and detail activities linked with the bridges to activities.

RESULTS

Significant Findings: Mothers of Children 0-6 Months Feed Them Only Breastmilk

The BA on EBF revealed that eight determinants had responses with significant differences between doers and non-doers, representing potential barriers and enablers. The determinants with significant response differences were self-efficacy, perceived positive consequences, perceived negative consequences, perceived social norms, perceived access, cues for action, perceived action efficacy, and divine will. The findings for each determinant are detailed below.

Table 3: Summary of Barriers and Enablers of Exclusive Breastfeeding

Barriers	Enablers
Self-Efficacy: Lack of family help	Self-Efficacy: Family support
Self-Efficacy: Heavy workload	Self-Efficacy: Lighter workload
Self-Efficacy: Perception of insufficient	Self-Efficacy: Perception of a sufficient
supply of breastmilk	supply of breastmilk
Negative Consequences: Perception that EBF	Positive Consequences: Perception that EBF
can cause children to become sick if the	helps child physical, emotional, and
mother is hot or tired from working	cognitive development and health
Social Norms: Mother-in-law, husband and	Social Norms: Mother-in-law and other
other family members disapprove of EBF	family members approve of EBF
Cues to Action: Remembering to practice	Social Norms: Doctors approve of EBF
EBF	
Perceived Divine Will: Perception that	Susceptibility of Risk and Perceived Severity:
children's health is governed by divine will	Perception that children will not get sick or
	malnourished in the coming year and that, if
	they do, it will not be serious.
	Perceived Divine Will: Perception that
	children's health is not governed by divine
	will

Perceived Self-Efficacy: How easy or difficult it is to exclusively breastfeed for six months.

Perceived self-efficacy is defined as an individual's belief that s/he can perform a specific behavior by her/his own skills, knowledge and abilities.²¹ The participants were asked three self-efficacy questions: 1) if they can practice EBF (closed-ended); 2) what makes it easier (doers) or what would make it easier (non-doers) to practice EBF (open-ended); and 3) what makes it difficult (doers) or what would make it difficult (non-doers) to practice EBF for the first six months of the child's life (open-ended).

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²¹ Food Security and Nutrition Network Social and Behavioral Change Task Force. 2013. Designing for Behavior Change for Agriculture, Natural Resource Management, Health and Nutrition. Washington, D.C.: Technical and Operational Performance Support (TOPS) Program.

All (100%) of doers said they are able to feed only breastmilk to their children ages 0-6 months of age based on their own knowledge, skills and abilities, while 33% of non-doers said they could not perform this behavior and 42% said they could. Although all doers said they are able to breastfeed, approximately half (51%) said it is not difficult at all to do this (they were 10.1 times more likely than non-doers to give this response; diff. 47%, p=0.000). This means half of doers have some difficulty, but they continue to practice EBF.

Doers were five times more likely than non-doers to say that sufficient breastmilk made EBF easier (diff. 24%, p=0.000), although a few (five) non-doers said insufficient supply would make it difficult, indicating the perception that mothers either have sufficient or insufficient milk production may be a hidden barrier that needs further exploration. Non-doers were also six times more likely to say it would be difficult to practice EBF when mothers are sick (diff. -22%, p=0.002). This response may need further exploration and could be related to perceptions of mother's poor health due to nutrition status, which may be perceived to affect the ability to produce milk.

Doers were 5.3 times more likely to say a lighter workload made it easier (diff. 38%, p=0.000) while non-doers were 2.9 times more likely to say a heavier workload would made it difficult (diff. -29%, p=0.006), but both doers and non-doers responded that family support makes it or would make it easy to perform the behavior. These responses highlight family support and lighter workloads as enabling EBF, while not having family support may be a barrier because it may also mean a heavier workload.

Perceived Positive and Negative Consequences: Advantages and Disadvantages of Exclusive Breastfeeding

Participants were asked what are (doers) or would be (non-doers) the advantages and disadvantages of feeding babies only breastmilk for the first six months of life. Just over half of doers (58%) and non-doers (61%) said EBF supports child health, as well as child development (53% of doers and 42% of non-doers), but doers provided additional responses that were significant, demonstrating their knowledge and experience and emphasizing potential enablers for the behavior. Specifically, doers were 3.5 times more likely to say children have fewer illnesses when practicing EBF (diff. 31%, p=0.002) and, although not a significant difference, doers also noted increased savings due to fewer expenditures for formula food and medical costs. The other advantage with statistical significance noted by doers was increased weight gain for children (2.8 times more likely to say this; diff. 27%, p=0.008).

Half (51%) of doers and one-third (33%) of non-doers do not perceive disadvantages to EBF. For the other half of doers, the disadvantages are that mothers can suffer from weakness, frequent hunger, weight loss, breast soreness, and less sleep at night when they practice EBF. Additionally, 33% of doers and 44% of non-doers said that children may have stomachaches, vomiting, cough, diarrhea and fever if the mother feeds them breastmilk after coming back from bathing, work or outside.

Perceived Social Norms: Who approves and disapproves of EBF

Perceived social norms refers to the perception that people may have an important role in influencing an individual to do the behavior.²² This determinant has two parts: who approves or would approve and who disapproves or would disapprove of doing this behavior. Both closedended and open-ended questions were asked of each participant to collect this data. All (100%) doers and 53% of non-doers reported that most people approve of EBF (p=0.000²³). Findings from the open-ended questions show that doers were 2.5 times more likely to say mothers-in-law (diff. 24%, p=0.017) and 4.2 times more likely to say other family members (including sisters-inlaw, brothers-in-law, and siblings) approve of EBF (22%, p=0.006). Non-doers were 9.4 times more likely to say mothers-in-law and husbands would not approve of EBF (-29%, p=0.000) and 3.3 times more likely to say other family members would not approve (-31%, p=0.003). Thus, these family members are influencers and can be enablers or barriers to EBF. Additionally, NGO workers (doers 2.6 times more likely to say; diff. 22%, p=0.022) and professional doctors (doers six times more likely to say; diff. 38%, p=0.000) are influential groups who doers said approve of EBF, which may indicate doers may have more contact with doctors and NGO workers than non-doers. Mothers of participants and local elites are also influential groups, but the results for these groups were statistically insignificant and the number of responses was small.

Access: How easy or difficult it is to get support needed to practice EBF

This determinant refers to an individual's difficulties or ability to perform the behavior. The participants were asked a closed-ended question to collect this data. Non-doers were 20.9 times more likely to say that it would be very difficult to get the support they need to practice EBF (diff. -33%, p=0.000; 84% of non-doers said it was either very difficult or somewhat difficult), whereas doers were 24 times more likely to say it is not difficult at all (diff. 73%, p=0.000).

Cues for Action: How difficult it is to remember to feed the baby breastmilk only

Cues for action refers to the presence of reminders that help a person to perform the behavior. Participants were asked a closed- ended question to collect this data. Non-doers were 12.6 times more likely to say it was somewhat or very difficult to remember to practice EBF (diff. 56%, p=0.000), while Doers were 18.9 times more likely to say it is not difficult at all to remember (diff. 62%, p=0.000).

Perceived Susceptibility of Risk and Perceived Severity: Likelihood the child will become malnourished or have diarrhea

The BA question on perceived susceptibility of risk measures an individual's perception of how vulnerable they feel to a given problem.²⁵ For EBF, participants were asked two different closed-ended questions to explore their perception of the risk of the child becoming malnourished and the child having diarrhea.

²² Food Security and Nutrition Network Social and Behavioral Change Task Force. 2013. Designing for Behavior Change for Agriculture, Natural Resource Management, Health and Nutrition. Washington, D.C.: Technical and Operational Performance Support (TOPS) Program.

²³ The BA tabulation sheet does not calculate difference in percentage points if none or all of doers or non-doers respond.

²⁴ Food Security and Nutrition Network Social and Behavioral Change Task Force. 2013. Designing for Behavior Change for Agriculture, Natural Resource Management, Health and Nutrition. Washington, D.C.: Technical and Operational Performance Support (TOPS) Program.
²⁵ Ibid.

More than half of doers felt confident that their children would not suffer from malnutrition (64%) and diarrhea (53%) while approximately the same number of non-doers felt their children were somewhat likely to suffer from malnutrition (60%) or diarrhea (64%). Non-doers were 5.8 times more likely to say it was somewhat or very likely their child would become malnourished (diff. -42%, p=0.000) and eight times more likely to say it was somewhat or very likely their child would develop diarrhea in the coming year (-49%, p=0.000). In contrast, doers were more likely to say their children would not become malnourished or have diarrhea (19.7 times more likely, diff. 62%, p=0.000 and 11.1 times more likely, diff. 49%, p=0.000, respectively). Approximately 40% of non-doers said they are not sure about the risk of getting malnutrition and diarrhea (3.6 times more likely to respond, "I don't know"; diff. -24%, p=0.007).

Although doers exhibit more confidence in their children's health, approximately one-third say it is somewhat likely or they do not know if their children will become malnourished and half say it is somewhat likely or they do not know if their children will develop diarrhea. If children do become malnourished or develop diarrhea, doers tend to believe it will not be serious. Non-doers were 2.5 times more likely to say the occurrence of malnourishment would be very serious (diff. -18%, p=0.042) and doers were 5.9 times more likely to say it would not be serious (diff. 27%, p=0.001). Non-doers were 2.1 times more likely to say the diarrhea would be somewhat or very serious (diff. -20%, p=0.043) and doers were 5.9 times more likely to say it would not be serious (diff. 27%, p=0.001). Despite this tendency, roughly half of the doers also believe the occurrence would be somewhat or very serious. Thus, although doers tend to exhibit more confidence in their children's health, a substantial proportion may not believe they have the ability to influence their children's health outcomes.

Perceived Divine Will: If malnutrition and diarrhea are caused by divine will

A question was asked about an individual's belief that it is God's will if a child becomes malnourished or gets diarrhea. In this study, participants were asked two different closed-ended question to explore their beliefs on malnourishment and diarrhea. Non-doers were 5.6 times more likely than doers to say they believe God causes malnutrition (diff. -24%, p=0.003) and doers were 9.6 times more likely than non-doers to say they do not believe God causes malnutrition (diff. 38%, p=0.000). The belief that God causes diarrhea is not as strong and both doers (84%) and non-doers (67%) tended to say that they do not believe God causes diarrhea, although the difference approaches significance and doers were 2.5 times more likely to say this.

<u>Significant Findings: Mothers of Children 8-24 Months Feed Them Animal-Source Foods</u> <u>Each Day During Meals</u>

Doers and non-doers were asked the same questions for each determinant, but, for some questions, doers were asked "what does" and non-doers were asked "what would". Among the women interviewed, nine determinants emerged as statistically significant between doers and non-doers for feeding ASF to children 8-24 months of age: perceived positive consequences, perceived negative consequences, perceived self-efficacy, access, perceived social norms, cues for action, susceptibility of risk, perceived severity and action efficacy.

Table 4: Barriers and Enablers of Complementary Feeding of ASF

Barriers	Enablers
Self-Efficacy: Not having money to purchase	Self-Efficacy: Rearing livestock at home
ASF	
Access: Not having a market or other vendor	Self-Efficacy: ASF available in the market
nearby	
Cues to Action: Remembering to include ASF	Self-Efficacy: Children like eating ASF
in the meal	
Negative Consequences and Action Efficacy:	Positive Consequences: Perception that
Perception that feeding ASF can cause	ASF helps child physical and emotional
children to become sick or malnourished.	development
Self-Efficacy: For women who do feed their	Family Support: Wider family network
child ASF, the child does not want to eat ASF	(beyond immediate family members)
when sick.	supports feeding ASF
	Perceived Risk: Perception that children
	will not get sick or malnourished in the
	coming year and that, if they do, it will not
	be serious.

Positive and Negative Consequences: Advantages and disadvantages of feeding ASF each day

Doers were more likely to say children benefit from ASF, noting both physical and cognitive advantages. Despite the finding that non-doers are less likely to be aware of advantages, at least half of them demonstrated knowledge of the benefits of feeding ASF daily, but they are not practicing this behavior. Specifically, doers were 7.9 times more likely to say children develop well, speaking and walking early (diff. 27%, p=0.000) and were 12.3 times more likely to say children are happier and do not cry as often when they eat ASF daily (diff. 20%, p=0.001). Furthermore, doers were 3.6 times more likely to say there were no disadvantages to feeding ASF to children (diff. 29%, p=0.003) with 82% of doers and 53% of non-doers giving this response. Despite initially saying there were no disadvantages, 38% of doers and 44% of non-doers also believe that EBF could cause illness or other negative physical impacts, including diarrhea, fever, vomiting, coughing, allergies or obesity.

Perceived Self-Efficacy: Easy or difficult to feed ASF each day

Self-efficacy in CF included questions on what makes it easier (doer) or would make it easier (non-doer) and what makes it difficult (doer) or would make it difficult (non-doer) to feed babies ASF each day. Responses to these self-efficacy questions revealed access and availability and family assistance to be barriers and enablers to having the ability to feed ASF to children. Specifically, doers were 2.6 times more likely to say rearing livestock at home makes feeding ASF easy because it provides eggs, meat and milk (diff. 24%, p=0.014) and 11.7 times more likely to say it is easy because ASF is available in the market (diff. 16%, p=0.006). Additionally, the support of HH members is tied to the self-efficacy questions. Doers were 21.3 times more likely to say feeding ASF is made easy because family members purchase or collect these foods to feed to the children (diff. 56%, p=0.000). A third potential enabler uncovered, though not statistically significant, is doers said it is easy because the children like eating ASF. For women who are practicing this behavior, feeding ASF does become difficult when children are sick

(doers 3.9 times more likely to say this; diff. 33%, p=0.001). Non-doers, however, voiced a significant challenge: they were 21.9 times more likely to say that feeding ASF is difficult without money to purchase the ASF (diff. -51%, p=0.000).

Access: How easy it is to get ASF to feed to children daily

Non-doers were 13.5 times more likely to say it is difficult to obtain the ASF to feed their children (62% of non-doers said this; diff. -53%, p=0.000), whereas doers were 7.4 times more likely to say it is not difficult (53% of doers said this; diff. 44%, p=0.000). The responses to the perceived self-efficacy questions provide more insight into these difficulties. Non-doers said it would make it easier to feed ASF if they reared livestock at home and if they had a market or vendor near their home. Likewise, doers said these two things made it easier for them to feed ASF to their children.

Perceived Social Norms: Who approves or disapproves of feeding ASF daily

There were no significant differences in responses, but, overall, both doers and non-doers said no one disapproves of feeding ASF daily to children. Non-doers were 4.1 times more likely to mention their father-in-law as someone who would approve of the behavior (diff. -18%, p=0.019). Doers were 12.6 times more likely to say they have approval from intermediate family members (i.e., extended family network) to practice this behavior (no difference tabulated because all doers said this, p=0.002).

Cues for Action: How difficult it is to remember to feed ASF daily

Non-doers are 3.8 times more likely to say it would be very or somewhat difficult to remember the behavior (diff. -36%, p=0.000), whereas doers are 3.8 times more likely to say it is not difficult to remember (diff. 36%, p=0.000).

Susceptibility of Risk and Perceived Severity: Likelihood that children will become sick or malnourished in the coming year and extent of severity

Non-doers were 2.5 times more likely to believe their children will be malnourished in the coming year (very likely or somewhat likely; 47% of non-doers believed this; diff. -22%, p=0.023). Doers were 4.1 times more likely to say it is not likely at all their children will be malnourished in the coming year (diff. 33%, p=0.001). Furthermore, non-doers were 2.1 times more likely to believe the occurrence of being sick or malnourished in the coming year will be very or somewhat serious (diff. -24%, p=0.007), whereas doers were 5.1 times more likely to say the occurrence would not be serious at all (diff. 22%, p=0.004).

Action Efficacy: Likelihood that feeding ASF daily to children will cause them to become sick or malnourished

Doers were 8.7 times more likely to say feeding ASF daily would not cause children to be sick or malnourished in the coming year (diff. 53%, p=0.000). In contrast, non-doers were 5.1 times more likely to say it was somewhat or very likely that feeding ASF would cause children to become sick or malnourished (diff. -40%, p=0.000).

DISCUSSION

Mothers of Children 0-6 Months Feed Them Only Breastmilk

Non-doers are less likely than doers to perceive benefits from EBF, less likely to say they would have family approval if they practiced EBF, more likely to say a heavy workload would make EBF difficult, more likely to think their children will become malnourished or have diarrhea in the coming year, and more likely to think children's health is a result of divine will. Family support and approval, light workloads, perception that it is possible to influence children's health, and perception of benefits from EBF enable mothers to practice EBF until their children are six months of age. The reverse of these enablers become barriers for mothers who do not practice EBF.

Mothers-in-law and other family members emerged as important influencers in adoption of EBF. While these family members can influence EBF by approval or disapproval of the behavior, they can also play a critical role in helping to reduce the workload of the mother to allow more time for EBF and also via the knowledge they pass on to the young mothers. Given the findings in the formative research study that elders, including mothers-in-law, are sources of information on feeding practices, it is likely that family members of non-doers share their lack of awareness of the benefits of breastfeeding and the belief that being overheated can cause the breastmilk to be bad. SAPLING should target these family members with messages and materials and also include them as facilitators for the behavior.

Some participants believe that the mother's elevated body temperature from work or exposure to heat causes the breastmilk to be bad for the baby, making it sick. Although not statistically significant, these perceptions and experiences are important to consider when designing messaging. This belief also emerged from the formative research study results and has been found in other parts of Bangladesh and may be related to the humoral theory of disease etiology. The formative research study results found that participants ascribe hot and cold properties to foods and bodily states and this can explain physical reactions in the form of illness. Reverse messaging could say that it is okay to feed the baby after being hot or after working hard. Additionally, although not significant, doers noted cost savings from EBF via the reduction in healthcare-related expenditures for children. Financial gains emerged as a meaningful benefit and potential motivator for adoption of improved practices in the SAPLING qualitative research study. Therefore, cost savings via reduced healthcare expenses and loss of work days could be a benefit to promote through SBCC messaging to increase the practice of EBF and CF.

The research found that doers were more likely to list doctors and NGO workers as groups that approve EBF. This could be a result of more access to health services or more wealth to pay for services, but could also denote geographic access to health services and NGO workers. Therefore, creating access and linkages between mothers and health service providers and NGO programs may influence EBF behavior, especially in more remote areas.

The belief that their children will become sick or malnourished and the unknown response among the non-doers both demonstrate a perception that they are not able to control their children's health. The findings that non-doers have significantly lower self-efficacy (as demonstrated by less belief in their own abilities to breastfeed and produce enough milk) and an external locus of control vs. internal locus of control (they are more likely to see a risk for their kids getting severely malnourished and have diarrhea and more likely to see these as divine will, or out of their control) indicate it is possible that non-doers are less likely to adopt new practices (i.e., engage in future-oriented behavior) unless they are empowered to believe they can make a change within the context of poverty.

Bridges to Activities

To support adoption of EBF by mothers of children 0-6 months, SAPLING will implement key activities to address the barriers, work with influencers, and strengthen the enablers of the behavior. The bridges to activities listed below are the link between the determinant and the key activity and describe the planned change in behavior.

- Increase perception that all mothers can provide enough breastmilk for their babies, even if they do not think they are well-nourished.
- Increase perception that mothers can breastfeed babies even when they are hot and have been working.
- Increase perception that EBF babies are healthier and are not likely to become malnourished or develop diarrhea.
- Create linkages between health service providers and mothers and build capacity for lactation management.
- Increase ability to practice EBF.
- Educate and recruit mothers-in-law as promoters of EBF.
- Empower HHs to engage in future-oriented behavior.

Key Activities

The key activities were developed in a workshop based on the findings and the bridges to activities that were identified from the analysis (see Annex A). SAPLING is providing training to pregnant and lactating women and women from all poor and extreme poor HHs on Integrated Enhanced Homestead Food Production (IEHFP) and pregnant and lactating women are also members of MCHN groups. In both IEHFP and MCHN groups, participants learn about ENA, including the benefits of EBF, as well as techniques for troubleshooting common problems with breastfeeding, such as expressing milk to feed while the mother is away, proper position and attachment, and what to do for sore nipples and blocked milk ducts. In separate senior women and men's groups, mothers-in-law and husbands learn about EBF and messages are reinforced on providing support to the mother so she can have time to breastfeed. Also in the IEHFP groups, other members of families participate in gender transformative sessions during which they become more aware of the benefits of supporting each other in daily tasks and engaging in better intra-HH communications.

During the MCHN groups, mothers are introduced to health care providers and are made aware of the services provided, often with the CHSW helping mothers reach clinics and talk to providers. Additionally, SAPLING provides lactation management training to health service providers. Senior women are being recruited through the senior women's groups to be promoters of optimal nutrition, which includes EBF, with the goal of transforming their influence into a

supportive role for EBF and other nutrition behaviors. A wider communication strategy could include activities to support the adoption of EBF, such as billboards, community theater, and videos. HH empowerment sessions will be designed to help HHs set goals and monitor those goals, thereby engaging in future-oriented behavior via planning.

Mothers of Children 8-24 Months Feed Them Animal-Source Foods Each Day During Meals

Having access to ASF via a nearby market, shop, or neighbors who sell ASF, rearing ASF at home, and having the support of the husband and other family members who purchase it, encouraging and reminding them, and helping set aside food for the children are all enablers to engaging in consumption of ASF. In contrast, these same factors are barriers for the non-doers because they do not have these things, but say they would help. Additionally, not having available money to spend on ASF is a barrier that prevents access to ASF. This is could be a key finding as it is possible doers have more access to income: they are more likely to raise their own livestock, have access to the market and make purchases at the market, indicating they have money for these practices. The IEHFP promoted by SAPLING should increase the practice of feeding ASF to children 8-24 months, as should the sales of surplus produce from HHs practicing IEHFP in the village.

Although both doers and non-doers said no one disapproves of feeding ASF daily to children eight-24 months, the formative research study findings show that elders may advise against feeding ASF to children, which may be due to beliefs about negative consequences. When asked directly whether feeding ASF can cause the child to become sick or malnourished (action efficacy), non-doers were significantly more likely to say yes than doers or also say they did not know. Non-doers may perceive advantages, but they are still not practicing the behavior. Although most doers and non-doers perceive advantages to feeding ASF (fewer illnesses, better immunity and better nutrition), approximately one-third of doers and non-doers believe if a child becomes sick, it is divine will and out of their hands and non-doers are more likely to believe their child will become sick in the coming year.

As with EBF, the finding that doers have more access to ASF (possibly more access to income) and are less likely to predict their children will be sick or malnourished in the coming year may indicate that non-doers are less likely to adopt new practices (i.e., engage in future-oriented behavior) unless they are empowered to believe they can make a change within the context of poverty.

Key messages should also focus on increasing perceptions among families, including senior women and men, that ASF improves children's physical and cognitive development, provides children with essential nutrition, and helps build immunity to disease, resulting in fewer illnesses and expenses and costs related to children's illness.

Bridges to Activities

To support adoption of feeding ASF by mothers of children 8-24 months, SAPLING will implement key activities to address the barriers, work with influencers, and strengthen the

enablers of the behavior. The bridges to activities listed below are the link between the determinant and the key activity and describe the planned change in behavior.

- Increase access to ASF.
- Increase perception of physical and cognitive benefits of ASF among mothers and fathers
- Increase perception of physical and cognitive benefits of ASF among extended family members.
- Increase ability to remember to feed ASF daily.
- Empower HHs to engage in future-oriented behavior.

Key Activities

The key activities were developed in a workshop based on the findings and the bridges to activities that were identified from the analysis (see Annex B). SAPLING is providing training to pregnant and lactating women and women from all poor and extreme poor HHs on IEHFP, which includes poultry rearing. This activity will provide access to eggs and meat at the HH level, while also increasing access to income through sale of surplus yield. Additionally, poultry rearing is an Income Generating Activity (IGA) supported by SAPLING that will also provide access to eggs and meat in the local markets and, for those who are engaging in this IGA, it will provide access to income. HH production of vegetables and fruits and other IGAs will also provide access to income. SAPLING is also forming Savings and Internal Lending Communities (SILC) groups to help HHs have access to income and working with local governments to link social safety net providers with eligible participants.

During the MCHN and IEHFP meetings, the participants learn about ENA, including the importance and benefits of ASF. Separate sessions for senior women and men are designed to increase knowledge and awareness of child nutrition and also include messages on ASF. A wider communication strategy includes activities to support the adoption of these promoted practices, including billboards, community theater, and videos. Cooking demonstrations are held with participants to show them recipes to improve dietary diversity for children, including ASF in the diet. The HH empowerment sessions to help HHs set goals and monitor those goals, will also support adoption of feeding ASF to children daily.

Annex A: Significant Determinants/Responses to Exclusive Breastfeeding

Significant Determinants/Responses	# Doers	# Non- doers	% Doers	% Non- doers	Percent age Pt. Diff.	Estim. Relative Risk	P-value
Salt Efficacy . Con you food broad milk only?							
Self-Efficacy: Can you feed breastmilk only?	44	10	98%	42%	56%	48.09	0.000
Maybe	1	19 8	2%	18%	-16%	0.12	0.000
waybe Self - Efficacy:What makes it easy/would make it ea							
nonths?	asy ioi you	to give t	nily bleas	ot illik to	your baby	ioi tile ii	1310
Sufficient supply of breastmilk	30	11	67%	24%	42%	4.98	0.000
ighter workload of mother	38	21	84%	47%	38%	5.33	0.000
Self - Efficacy: What makes it difficult/would make it 6 months?	_						
Not difficult at all	23	2	51%	4%	47%	10.43	0.000
Heavy workload of mother	16	29	36%	64%	-29%	0.34	0.006
f mother is sick	1	11	2%	24%	-22%	0.08	0.002
Positive Consequences: What are/would be the adv							
nonths?	untagoo oi	omy givii	ig broudt		our buby		J. J
Children aren't sick/are healthy	23	9	51%	20%	31%	3.48	0.002
·	23	11	51%	24%	27%	2.81	0.002
Child is gaining weight Fewer expenses due to better health of children	12	5	27%	11%	16%	2.51	0.052
-ewer expenses due to better nealth of children Negative Conseguences: What are/would be the dis							
negative Consequences: what are/would be the dis nonths?							rirSt 6
No negative consequences	23	15	51%	33%	18%	1.93	0.067
Mothers are weak, frequently hungry, lose weight, get sore breasts and less sleep at night	9	1	20%	2%	18%	6.00	0.008
Social Norms: Do most people approve of feeding b	reastmilk	only?					
es	45	24	100%	53%	47%	-	0.000
Maybe	1	8	2%	18%	-16%	0.12	0.015
Social Norms: Who are/would be the people that app							
nonths?					,	,	
Nother-in-law	26	15	58%	33%	24%	2.46	0.017
Other immediate family members	13	3	29%	7%	22%	4.16	0.006
NGO workers		25	78%	56%	77%		כלוו וו
NGO workers Professional doctors	35 21	25 4	78% 47%	56% 9%	22% 38%	2.56 6.03	
	21	4	47%	9%	38%	6.03	0.022 0.000 ne first (
Professional doctors Social Norms: Who are/would be the people that dis	21	4	47%	9%	38%	6.03	0.000 ne first
Professional doctors Social Norms: Who are/would be the people that dis- nonths?	21 approve of	4 you only	47% giving bi	9% reast milk	38% to your b	6.03 eaby for th	0.000 ne first
Professional doctors Social Norms: Who are/would be the people that dis- nonths? Mother-in-law and husband	21 approve of 2 12	4 you only 15 26	47% giving bi 4% 27%	9% reast milk 33% 58%	38% to your b -29% -31%	6.03 eaby for th 0.11 0.30	0.000 ne first 0.000 0.003
Professional doctors Social Norms: Who are/would be the people that dis- nonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you nee	21 approve of 2 12 ed to give of	4 you only 15 26 only brea	47% giving be 4% 27% st milk to	9% reast milk 33% 58% your bab	38% to your b -29% -31% y for the f	6.03 eaby for th 0.11 0.30 first 6 mod	0.000 ne first 0.000 0.003 nths?
Professional doctors Social Norms: Who are/would be the people that dis- nonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you ned /ery difficult	21 approve of 2 12 ed to give of	4 you only 15 26 only breas	47% giving be 4% 27% st milk to 2%	9% reast milk 33% 58% your bab 36%	38% to your b -29% -31% y for the f	6.03 paby for th 0.11 0.30 first 6 mod	0.000 ne first 0.000 0.003 nths?
Professional doctors Social Norms: Who are/would be the people that dis- nonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you nee /ery difficult Not difficult at all	21 approve of 2 12 ed to give of 1 38	4 you only 15 26 only breas 16 5	47% giving bi 4% 27% st milk to 2% 84%	9% reast milk 33% 58% your bab 36% 11%	38% to your b -29% -31% y for the f -33% 73%	6.03 paby for th 0.11 0.30 first 6 mor 0.05 24.00	0.000 ne first 0.000 0.003 nths?
Professional doctors Social Norms: Who are/would be the people that dis- months? Mother-in-law and husband Other family members Access - How difficult is it to get the support you nee /ery difficult Not difficult at all Reminders - How difficult is it to remember to give or	21 approve of 2 12 ed to give of 1 38 only breast	4 you only 15 26 only breas 16 5 milk to y	47% giving bi 4% 27% st milk to 2% 84% our baby	9% reast milk 33% 58% your bab 36% 11% for the fir	38% to your b -29% -31% y for the f -33% 73% st 6 mont	6.03 haby for the 0.11 0.30 first 6 more 0.05 24.00 hs?	0.000 0.000 0.003 nths? 0.000
Professional doctors Social Norms: Who are/would be the people that dismonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you need /ery difficult Not difficult at all Reminders - How difficult is it to remember to give of Somewhat difficult or very difficult	21 approve of 2 12 ed to give of 1 38 only breast 5	4 you only 15 26 only breas 16 5 milk to you	47% giving bi 4% 27% st milk to 2% 84% our baby 11%	9% reast milk 33% 58% your bab 36% 11% for the fir 67%	38% to your b -29% -31% y for the f -33% 73% st 6 mont -56%	6.03 aby for the control of the cont	0.000 ne first 0.000 0.003 nths? 0.000
Professional doctors Social Norms: Who are/would be the people that dismonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you need /ery difficult Not difficult at all Reminders - How difficult is it to remember to give of the support of the support you need Somewhat difficult or very difficult to remember to give of the support you need to difficult at all	21 approve of 2 12 ed to give of 38 only breast 5 41	4 you only 15 26 only breas 16 5 milk to you 30	47% giving bi 4% 27% st milk to 2% 84% our baby	9% reast milk 33% 58% your bab 36% 11% for the fir	38% to your b -29% -31% y for the f -33% 73% st 6 mont	6.03 haby for the 0.11 0.30 first 6 more 0.05 24.00 hs?	0.000 ne first 0.000 0.003 nths? 0.000
Professional doctors Social Norms: Who are/would be the people that dismonths? Mother-in-law and husband Other family members Access - How difficult is it to get the support you need /ery difficult Not difficult at all Reminders - How difficult is it to remember to give of Somewhat difficult or very difficult Not difficult at all Risk- How likely is it that your baby will become male	21 approve of 2 12 ed to give of 38 only breast 5 41 nourished	4 you only 15 26 only breas 16 5 milk to y 30 13	47% giving bi 4% 27% st milk to 2% 84% our baby 11% 91%	9% east milk 33% 58% your bab 36% 11% for the fir 67% 29%	38% to your b -29% -31% y for the f -33% 73% st 6 mont -56% 62%	6.03 aby for th 0.11 0.30 first 6 mol 0.05 24.00 hs? 0.08 18.94	0.000 0.000 0.003 nths? 0.000 0.000
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Annex B: Significant Determinants/Responses for Feeding ASF

Significant Determinants/Responses	# Doers	doers	% Doers	% Non- doers	Percent age Pt. Diff.	Relative Risk	P-value
Self-Efficacy: What makes it easy/would make it easy	for you t	o feed yo	our baby f	rom these	e (animal	source) fo	ood
items each day?	1		1	1	1		
Rearing livestock at home	22	11	49%	24%	24%	2.60	0.014
Having a market or other vendor near the home easy	17	16	38%	36%	2%	1.09	0.500
Foods are available in the market	7	0	16%	0%	16%	11.66	0.006
Family members purchase and collect animal source food	25	0	56%	0%	56%	21.25	0.000
Having available cash	9	16	20%	36%	-16%	0.49	0.079
Children like eating animal source food	6	0	13%	0%	13%	11.38	0.013
Self-Efficacy - What makes it difficult/would make it di	ifficult for	you to fe	ed your l	oaby from	these fo	od items ((animal
source) each day?							
When child is sick	23	8	51%	18%	33%	3.91	0.001
When do not have available cash	2	25	4%	56%	-51%	0.05	0.000
Positive Consequences: What are/would be the advan	ntages of	feeding	our baby	from the	se (anima	l source)	food
items each day?	-	J.			•	•	
Child develops well; walks, speaks early	13	1	29%	2%	27%	7.90	0.000
Child is happy and rarely cries	9	0	20%	0%	20%	12.25	0.001
Negative Consequences: What are/would be the disa	dvantage	s of feed	na vour b	aby from	these (ar	nimal sou	rce) food
items each day?	.			,			,
No disadvantages	37	24	82%	53%	29%	3.60	0.003
Social Norms: Who are the people that approve/would							
(animal source) each day?		,	,				
Father-in-law	3	11	7%	24%	-18%	0.24	0.019
Other family members	45	25	100%	56%	44%	-	0.000
Access - How difficult is it/would it be to get all of the			,	00,0		1	0.000
Very difficult	4	28	9%	62%	-53%	0.07	0.000
Not difficult at all	24	4	53%	9%	44%	7.43	0.000
Reminders - When you prepare meals for your baby,							
these food items?		, and 10 10 10 11	ould it bo			101440 100	uoo
Very difficult	0	7	0%	16%	-16%	0.00	0.006
Somewhat difficult and very difficult	13	29	29%	64%	-36%	0.00	0.001
Not difficult at all	31	15	69%	33%	36%	3.79	0.001
Perceived Risk - How likely is it that your child will be							0.001
	0	9	0%	20%	-20%	0.00	0.001
Very likely Somewhat likely and very likely	11	21	24%	47%	-20%	0.00	0.001
	22						
Not likely at all		7	49%	16%	33%	4.11	0.001
Perceived Severity - How serious would it be if your I					0.40/	0.00	0.007
Very serious	6	17	13%	38%	-24%	0.28	0.007
Not serious at all	12	2	27%	4%	22%	5.09	0.004
Perceived Action Efficacy - How likely is it that your l	baby wou	ia becom	ie sick/ m	ainourish	ed if you	teed him/	ner ASF
each day?			00/	400/	400/		0.046
Very likely	0	6	0%	13%	-13%	0.00	0.013
Somewhat likely and very likely	9	27	20%	60%	-40%	0.20	0.000
Not likely at all	30	6	67%	13%	53%	8.71	0.000
Universal Motivators - What do you desire most in life							
Want a happy life	9	16	20%	36%	-16%	0.49	0.079

Annex C: Barrier Analysis Questionnaire for EBF and Feeding ASF

Barrier Analysis Q	Group: \square Doer \square Non-Doer
Exclusive Breastfeeding for	
3 – 10 mor	nths
Behavior Star	
Mothers of children ages 0 – 6 month	is feed them only breast milk.
Demographic Data	
	onnaire No.:
Interviewer's Name:Questic Date:/Para:Union:	:Ethnicity:
Scripted Introduction:	
Hi, my name is; and I am part of a study	
study includes a discussion of this issue and will tak	•
views on this topic. You are not obliged to participat	
you decide not to. Likewise, if you choose to be inte	
services or remuneration. Everything we discuss wi shared with anyone else.	if be field in strict confidence and will not be
Would you like to participate in the study? [If yes, p	lease sign below. If not thank them for their
time.]	lease sign below. If not, thank them for then
Interviewer's Name:	Interviewee or Witness Name:
Signature and date:	Signature and date:
Section A - Doer/Non-doer Screening Questions	
Section A - Doer/Non-doer Screening Questions	
5	in months)
1. How old is your youngest child? (write the age in A. 3-10 months)	
1. How old is your youngest child? (write the age	
1. How old is your youngest child? (write the age in A. 3-10 months)	r another respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for the interview and look for the interview.) 	r another respondent d look for another respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for □ C. 11 months or older → end the interview and □ D. Don't Know / won't say → End interview 	r another respondent d look for another respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for □ C. 11 months or older → end the interview and □ D. Don't Know / won't say → End interview 2. Have you ever breastfed this child? 	r another respondent d look for another respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for □ C. 11 months or older → end the interview and □ D. Don't Know / won't say → End interview 2. Have you ever breastfed this child? □ A. yes 	r another respondent d look for another respondent and look for another respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for □ C. 11 months or older → end the interview and □ D. Don't Know / won't say → End interview 2. Have you ever breastfed this child? □ A. yes □ B. No → End the interview and look for another. 	r another respondent d look for another respondent and look for another respondent ner respondent
 1. How old is your youngest child? (write the age in A. 3-10 months □ B. 0-3 month → end the interview and look for □ C. 11 months or older → end the interview and □ D. Don't Know / won't say → End interview 2. Have you ever breastfed this child? □ A. yes 	r another respondent d look for another respondent and look for another respondent ner respondent
 How old is your youngest child? (write the age in A. 3-10 months B. 0-3 month → end the interview and look for C. 11 months or older → end the interview and D. Don't Know / won't say → End interview Have you ever breastfed this child? A. yes B. No → End the interview and look for another. 	r another respondent d look for another respondent and look for another respondent her respondent rview and look for another respondent
 How old is your youngest child? (write the age in A. 3-10 months B. 0-3 month → end the interview and look for C. 11 months or older → end the interview and D. Don't Know / won't say → End interview Have you ever breastfed this child? A. yes B. No → End the interview and look for anoth C. Do not remember / no response → End interview Now I would like you to remember back when yow was a newborn. Please tell me how old the baby 	r another respondent d look for another respondent and look for another respondent ner respondent rview and look for another respondent our baby was very young – even when s/he was when you first gave him/her any liquids
 How old is your youngest child? (write the age in A. 3-10 months B. 0-3 month → end the interview and look for the interview. Have you ever breastfed this child? A. yes B. No → End the interview and look for anothele. C. Do not remember / no response → End interview. Now I would like you to remember back when yow was a newborn. Please tell me how old the baby other than breast milk – like water, juice, cow's interview. 	r another respondent d look for another respondent and look for another respondent ner respondent rview and look for another respondent our baby was very young – even when s/he was when you first gave him/her any liquids
 How old is your youngest child? (write the age in A. 3-10 months B. 0-3 month → end the interview and look for C. 11 months or older → end the interview and D. Don't Know / won't say → End interview Have you ever breastfed this child? A. yes B. No → End the interview and look for anoth C. Do not remember / no response → End interview Now I would like you to remember back when yow was a newborn. Please tell me how old the baby 	r another respondent d look for another respondent and look for another respondent ner respondent rview and look for another respondent our baby was very young – even when s/he was when you first gave him/her any liquids

4. Please tell me how old the baby was when you first gave him/her semi solid foods – like soup, porridge
□ A. 6 months or older
□ B. 0-6 months → Mark as Non-doer
□ C. Do not remember / no response → End interview and look for another respondent

 \square C. Do not remember / no response \rightarrow End interview and look for another respondent

DOER /NON-DOER CLASSIFICATION TABLE

DOER	Non-Doer	Do Not Interview
(all of the following)	(any of the following)	(any of the following)
Question $1 = A$		Question $1 = B$ or C or D
Question $2 = A$		Question $2 = B$ or C
Question $3 = A$	Question $3 = B$	Question $3 = C$
Question $4 = A$	Question 4 =B	Question = C

Group: Doer Non-doer

Section B – Research Questions

- **1a.** *Doers*: What makes it *easy* for you to give only breast milk to your baby for the first 6 months? Why?
- **1b.** *Non-doers*: What would make it *easier* for you to give only breast milk to your baby for the first 6 months? Why?

(Write all responses below. Probe with "What else?")

- **2a.** *Doers*: What makes it *difficult* for you to give only breast milk to your baby for the first 6 months? Why?
- **2b.** *Non-doers*: What would make it *difficult* for you to give only breast milk to your baby for the first 6 months? Why?

(Write all responses below. Probe with, "What else?")

- **3a.** *Doers:* What are the *advantages* of only giving breast milk to your baby for the first 6 months? Why?
- **3b.** *Non-doers:* What would be the *advantages* of only giving breast milk to your baby for the first 6 months? Why?

(Write all responses below. Probe with, "What else?")

- **4a.** *Doers:* What are the *disadvantages* of only giving breast milk to your baby for the first 6 months? Why?
- **4b.** *Non-doers:* What would be the *disadvantages* of only giving breast milk to your baby for the first 6 months? Why?

(Write all responses below. Probe with "What else?")

5a. *Doers:* Who are all the people that *approve* of you only giving breast milk to your baby for the first 6 months? Why do they approve?

5b. Non-doers: Who are all the people that would approve of you only giving breast milk to your baby for the first 6 months? Why would they approve? (Write all responses below. Probe with "Who else?" Try to get specific types of people) **6a.** *Doers:* Who are all the people that *disapprove* of you only giving breast milk to your baby for the first 6 months? Why do they disapprove? **6b.** Non-doers: Who are all the people that would disapprove of you only giving breast milk to your baby for the first 6 months? Why would they disapprove? (Write all responses below. Probe with "Who else?" Try to get specific types of people) **Doers:** How difficult is it to get the support you need to give only breast milk to your 7a. baby for the first 6 months? *Non-doers:* How difficult would it be to get the support you need to give only breast milk 7b. to your baby for the first 6 months? ☐ a. Very difficult ☐ b. Somewhat difficult ☐ c. Not difficult at all **Doers:** How difficult is it to remember to give only breast milk to your baby for the first 6 months? 8b. **Non-doers:** How difficult would it be to give only breast milk to your baby for the first 6 months? Very difficult, somewhat difficult, or not difficult at all? ☐ a. Very difficult ☐ b. Somewhat difficult ☐ c. Not difficult at all. 9. **Doers and Non-doers:** How likely is it that your baby will become malnourished? Very likely, somewhat likely, or not likely at all ☐ a. Very likely ☐ b. Somewhat likely □ c. Not likely at all.

Doers and Non-doers: How likely is it that your baby will get diarrhea? Very likely, somewhat likely, or not likely at all ☐ a. Very likely

☐ b. Somewhat likely

□ c. Not likely at all.

11. **Doers and Non-doers:** How serious would it be if your baby becomes malnourished? very serious, somewhat serious, or not serious at all?

☐ a. Very serious

☐ b. Somewhat serious

☐ c. Not serious at all

Doers and Non-doers: How serious would it be if your baby gets <u>diarrhea</u>? very serious, somewhat serious, or not serious at all?

	 □ a. Very serious □ b. Somewhat serious □ c. Not serious at all
	toers and Non-doers: How likely is it that your baby will become malnourished if you only breast feed for the first 6 months? Very likely, somewhat likely, or not likely at all □ a. Very likely □ b. Somewhat likely □ c. Not likely at all.
14. <i>D</i>	toers and Non-doers: How likely is it that your baby will get diarrhea if you only breast feed for the first 6 months? Very likely, somewhat likely, or not likely at all □ a. Very likely □ b. Somewhat likely □ c. Not likely at all. □ d. Don't Know / Won't say **Doers and Non-doers:* Do you think that God causes malnutrition?
13.	□ a. Yes □ b. Maybe □ c. No
16.	 Doers and Non-doers: Do you think that God causes diarrhea? □ a. Yes □ b. Maybe □ c. No
17.	 Doers and Non-doers: Are there any cultural rules or taboos against only breastfeeding your baby for 6 months? □ a. Yes □ b. Maybe □ c. No

THANK THE RESPONDENT FOR HER TIME!

	Group:	■ Doer	☐ Non-doer	
Barrier Analysis Questionna	ire:			
Complementary Feeding	<u>;</u>			
For Mothers of Children 6 – 24	months			
				_

Behavior Statement Mothers of children ages 6 – 24 (full) months feed their children animal source food each day during meals.		
Demographic Data Interviewer's Name: Questionnaire No.: Date: //Para: Union: Ethnicity:		
Scripted Introduction: Hi, my name is; and I am part of a study team looking into child feeding practices. Before I continue I would like to know the age of your youngest child. (If the child is not in the desired age range (see question 1), thank the mother and look for another respondent.) The study includes a discussion of feeding practices and will take about 15 - 20 minutes. I would like to hear your views on this topic. You are not obliged to participate in the study and no services will be withheld if you decide not to. Also, if you decide to participate you won't receive any compensation, gifts or services. Everything we discuss will be held in strict confidence and will not be shared with anyone else. Would you like to participate in the study? [If yes, please sign below. If not, thank them for their time.] Interviewer Name: Signature and date: Signature and date:		
Section A - Doer/Non-doer Screening Questions 1. How old is your youngest child?(← write the age in months here) □ a. 6 months - 24 months □ b. 5 months or younger→End interview and look for another mother □ c. Older than 24 months → End interview and look for another mother □ d. Don't Know / Won't say → End interview and look for another mother		
2. I would like to you think about all the food items you fed your baby in the last 2 days. What type of foods did you feed your baby something other than breast milk? (<i>This question is just to help the mother to remember what the baby ate.</i>) □a (foods name) □b. Do not know / no response → End interview and look for another respondent		
3. Please tell me all the different foods you remember feeding to your baby in the last two days. (If the mother mentions a dish that has several ingredients, ask her to list them all. Check all the boxes of foods the mother mentions.) □ a. Do not know / no response → End interview and look for another respondent □ b. Dairy products: [milk, yogurt or milk made any product]		

□c. Flesh foods: [frog, small fish, large fish, crab, dry fish, Nappi, chicken, liver, pork, be	ef
snail, squirrel] [list would vary according to the community]	
□d. Eggs	
□e. others [anything related to animal source, according to the community]	

DOER /NON-DOER CLASSIFICATION TABLE

DOER	Non-Doer	Do Not Interview
(all of the following)	(any ONE of the following)	(any ONE of the following)
Question $1 = A$		Question $1 = B$ or C or D
Question $3 = two$ or more	Question $3 = \text{one or none}$	Question $3 = A$
boxes checked from C through	boxes checked from C through	
d	Е	

Group: Doer Non-doer

Behavior Explanation

(Show the mother the photo/picture of the different food items of animal source foods and place it where she can see it during the entire interview. Briefly explain the picture and make sure she understands the idea of animal source foods. She doesn't need to know the names of the groups or their nutritional value, but she does need to recognize the foods in the picture.)

In the following questions I am going to be talking about different food items. When I mention the "animal source foods", I am talking about foods in these items [Point to the picture of the different food items and keep the picture in view throughout the interview.]

Section B – Research Questions

(Perceived Positive Consequences)

- **1a.** *Doers:* What are the **advantages** of feeding your baby from these (animal source) food items each day? Why?
- **1b.** *Non-doers:* What would be the **advantages** of feeding your baby from these (animal source) food items each day? Why?

(Write all responses below. Probe with "What else?")

(Perceived Negative Consequences)

- **2a.** *Doers:* What are the **disadvantages** of feeding your baby from these (animal source) food items each day? Why?
- **2b.** *Non-doers:* What would be the **disadvantages** of feeding your baby from these (animal source) food items each day? Why?

(Write all responses below. Probe with "What else?")

(Perceived Self-efficacy)

- **3a. Doers:** What makes it **easy** for you to feed your baby from these (animal source) food items each day? Why?
- **3b.** *Non-doers:* What would make it *easy* for you to feed your baby from these (animal source) each day? Why?

(Write all responses below. Probe with "What else?")

(Perceived Self-efficacy)

- 4a. Doers: What makes it difficult for you to feed your baby from these food items (animal source) each day? Why?
- **4b.** Non-doers: What would make it difficult for you to feed your baby from these food items (animal source) each day? Why?

(Write all responses below. Probe with "What else?")

(Perceived Social Norms)

- 5a. Doers: Who are the people that approve of you feeding your baby from these food items (animal source) each day? Why do they approve?
- **5b.** *Non-doers:* Who are the people that *would approve* of you feeding your baby from these food items (animal source) each day? Why would they approve?

(Write all responses below. Probe with "Who else?")

(Perceived Social Norms)

- **Doers:** Who are the people that **disapprove** of you feeding your baby from these food items (animal source) each day? Why do they disapprove?
- *Non-doers:* Who are the people that **would disapprove** of you feeding your baby from these food items (animal source) each day? Why would they disapprove?

(Write all responses below. Probe with "Who else?")

☐ a. Very difficult ☐ b. *Somewhat difficult*

(, , ,	we are responses seron. Trove min more esset.
(Per	rceived Access)
7a.	 Doers: How difficult is it to get all of these items? Would you say it is Very difficult, somewhat difficult or not difficult at all? □ a. Very difficult □ b. Somewhat difficult □ c. Not difficult at all
7b.	Non-doers: How difficult would it be to get all of these items? Would you say it is Very difficult, somewhat difficult or not difficult at all? □ a. Very difficult □ b. Somewhat difficult □ c. Not difficult at all
(Per	rceived Cues for Action / Reminders)
8a.	 Doers: When you prepare meals for your baby, how difficult is it to remember to include foods from these food items? □ a. Very difficult □ b. Somewhat difficult □ c. Not difficult at all
8b.	Non-doers: When you prepare meals for your baby, how difficult do you think it would be to remember to include foods from these food items? <i>Very difficult, somewhat difficult, or not difficult at all?</i>

	□ c. Not difficult at all □ d. Don't Know / Won't say
(Perc 9.	weived Susceptibility / Perceived Risk) Doers and Non-doers: How likely is it that your child will become sick/ malnourished in the coming year? Very likely, somewhat likely, or not likely at all? □ a. Very likely □ b. Somewhat likely □ c. Not likely at all
(Perc	reived Severity)
10.	 Doers and Non-doers: How serious would it be if your baby became sick/ malnourished? A very serious problem, somewhat serious problem, or not serious at all? □ a. Very serious problem □ b. Somewhat serious problem □ c. Not serious at all
11. D	on Efficacy) Noers and Non-doers: How likely is it that your baby would become sick/ malnourished if you feed him/her foods from these food items (animal source) each day? Very likely, somewhat likely, not very likely? a. Very likely b. Somewhat likely c. Not likely at all
	peption of Divine Will) Doers and Non-doers: Do you think that God causes children to become malnourished? □ a. Yes □ b. Maybe □ c. No
	ure) Doers and Non-doers: Are there any cultural rules or taboos that you know of against feeding your baby from these food items each day? □ a. Yes □ b. Maybe □ c. No
Now .	I'm going to ask you a question unrelated to nutrition
/T.T. •	
	versal Motivator) Doers and Non-doers:
	is the one thing that you desire most in life?

THANK THE RESPONDENT FOR HIS OR HER TIME!