Barrier Analysis

Liberia



Concern Enumerator Naomi Moore with a respondent Ella Tokpah in Karkuekpo Community Dugbe River District, Sinoe County. Photo by Joseph Macharia 16th February 2020

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List of Abbreviations

| ANC | Antenatal Cate |
|--------|---|
| BA | Barrier Analysis |
| CLTS | Community Led Total Sanitation |
| CSLA | Community Saving and Loans Association |
| DBC | Design for Behaviour Change |
| EBF | Exclusive Breastfeeding |
| IEC | Information Education and Communication |
| IYCF | Infant and Young Child Feeding Practices |
| LWC | Liberia WaSH consortium |
| NGO | Non-Governmental organisation |
| OD | Open Defecation |
| PNC | Post Natal Care |
| SBCC | Social and Behaviour Change Communication |
| TTMs | Trained Traditional Midwives |
| UNICEF | United Nations Children Education Fund |
| WASH | Water Sanitation and Hygiene |
| WHO | World Health Organisation |

Summary

The Liberia WASH Consortium (LWC) was launched in 2007 and it quickly established itself as one of the two leaders, along with UNICEF, for addressing Liberian WASH challenges. The Consortium effectively engaged donor representatives, government officials and other NGOs in policy discussions, strategic planning, and learning events, apart from delivering improved WASH services in a complex environment. The LWC remains a key actor in the sector, as evidenced by its recent success promoting policy reform (2015 – 2018).

The current project; Strengthening Sustainability in Schools and Communities, involving three (3) other members of LWC (Action Against Hunger, Concern Worldwide and Water Aid), aims at researching the different immediate and underlying causes of the high rates of child stunting in Liberia: 35.5% at national level, with peaks of 41% in Grand Bassa and 38% in River Cess. The results of this Barrier Analysis (BA), along with Nutritional Causal Analysis and Cost of Diet results will inform the development of a Social Behaviour Change Communication (SBCC) framework that will be developed and promoted for adoption across future and current programmes.

The BA study sought to identify the factors preventing the priority groups (people who are supposed to practice the behaviour) from adopting key behaviours, as well as identifying the enablers facilitating the adoption of those behaviours. Discussions with the consortium partners settled on six priority behaviours around water, sanitation and hygiene (WaSH), health and nutrition sectors. These included (1) exclusive breastfeeding, (2) minimum dietary diversity (3) handwashing (4) use of modern family planning (5) use of latrines and (6) safe water storage all relevant to the programmes the partners are currently implementing in their areas of operations.

The exercise included a five (5) day training: three (3) days classroom training, one (1) day field test and one (1) day analysis of data collected during the pilot involving 22 enumerators preparing the team for the 18 days data collection and analysis exercise. Twenty of the 22 enumerators were selected for the actual data collection and were divided in 2 teams one covering Rural Montserrado and Grand Cape Mount counties while the second covered Sinoe, Rivercess and Grand Bassa counties. Aside from Grand Cape Mount, which was assessed for all the six behaviours, in all the other counties, three of the six behaviours were studied.

During the survey, 1,732 interviews were conducted with different groups of doers (those practicing the behaviour) and non-doers (those not practising) who included mothers of children under five years, mothers of children 6-12 months and women of child bearing age (15-49 years) on different behaviours. A summary of interviews in each county is shown in table 1 below.

| | | xclusive stfeeding | | num Dietary versity | 3. Handwashing | | |
|------------------|-----------------|-----------------------|-------|------------------------|----------------|-----------|--|
| | Doers Non-Doers | | Doers | Non-Doers | Doers | Non-Doers | |
| Sinoe | 51 | 47 | | | | | |
| Grand Cape Mount | 49 | 48 | 49 | 49 | 51 | 47 | |
| Grand Bassa | 46 | 48 | | | | | |
| Rivercess | | | 48 | 50 | 51 | 49 | |

Table 1 Number of interviews by behaviour and county

| Montserrado | | | 40 | 44 | 48 | 48 |
|------------------|--------|------------|-------|------------|-----------------------|-----------|
| | | | | | | |
| | 4. Use | of modern | | | | |
| | Famil | y Planning | 5. La | itrine use | 6. Safe water storage | |
| | Doers | Non-Doers | Doers | Non-Doers | Doers | Non-Doers |
| Sinoe | 49 | 51 | 49 | 50 | | |
| Grand Cape Mount | 50 | 42 | 49 | 51 | 43 | 49 |
| Grand Bassa | 47 | 47 | 47 | 47 | | |
| Rivercess | | | | | 49 | 49 |
| Montserrado | | | | | 51 | 49 |

Below is a summary of key findings for each behaviour studied:

1. Exclusive breastfeeding (EBF)

In two of the three counties doers were more likely to say that they felt that they had enough knowledge, resources and skills to enable them practice exclusive breastfeeding, while in one county there was no statistical significance on knowledge with a huge proportion 93% of doer and 89% of non-doers mentioning that they did have enough knowledge. With respect to what made it easy for them to breastfeed their children, the doers and non-doers pointed out varying responses. These included the fact that they had enough knowledge, moral support from spouses, appropriate maternal nutrition and having money to purchase various foods. In two of the three counties, the doers perceived that the encouragement from the health workers made it easy for them to practice exclusive breastfeeding. Lack of time was also mentioned in two of the three counties as a barrier to EBF and more so when the mothers had to go to the farm and leaving the child at home. Both doers and non-doers mentioned several advantages of EBF with the most statistically significant advantages being that the child would become healthy as pointed out by the doers in Grand Cape Mount and that the child was more likely to be clever and perform well in school as pointed out in Grand Bassa by the non-doers. The two significant negative consequences highlighted were the perception that EBF would make the breasts sag and that the child would overgrow. These are perceptions that would need to be addressed during the nutrition education and counselling sessions. In two of the three counties, the doers perceived that other distant relatives including aunties and uncles approved of EBF and thus an important influencer who would need to be targeted in the Infant and Young Child Feeding (IYCF) messaging. Non-doers were more likely to say that finding time to breastfeed exclusively was either very difficult or somewhat difficult in two of the three counties with the doers highlighting that it was not difficult at all. Across the three counties, there was not much significant difference in other determinants around cues for action, divine will, culture and policy.

2. Minimum Dietary Diversity

Both doers and non-doers in two of the three counties perceived that having a farm and practicing some agriculture made it easy for them to feed their children foods from at least four of the seven food groups. Equally, the doers and non-doers also pointed out that the lack of support from the spouses both moral and financial made it difficult for them to practice dietary diversity. Unavailability of foods was found to be a significant determinant in Montserrado where the doers were 4.8 times more likely to mention this than the non-doers. In all the three counties, majority of both doers and non-doers were likely to mention that attaining the minimum dietary diversity ensured that the child

grew healthy. When asked about the negative consequences, some of the significant responses from both the doers and the non-doers included the concern around spending too much money on these foods, that preparing these diverse foods all the time was time consuming and that the child was likely to become upset whenever these foods were unavailable. When asked about people who approve of this practice, the non-doers in two of the three counties were more likely to mention close friends while the doers in one county mentioned the husbands. Interestingly across the three counties there was near consensus that nobody disapproved the practice. In all the three counties, there was no statistical significance on the question about difficulty in getting these foods with a significant proportion of both doers and non-doers indicating either somewhat difficult or not difficult at all. There was no notable significant difference on the determinants around policy, action efficacy, culture and divine will.

3. Handwashing with water and Soap/Ash

In two of the three counties, doers were more likely to indicate that having adequate knowledge around handwashing made it easy for them to practice the behaviour while in one the doers were more likely to indicate that the availability of soap made it easy for them. The cost of soap and the lack of the handwashing facilities was however mentioned as what made it difficult for them to practice this behaviour. In all the three counties, there was no statistical significance on the advantages of handwashing with both doers and non-doers mentioning prevention of diseases and keeping the child healthy as the advantages. There was no statistical significance on the question about the disadvantages of handwashing with near equal proportion of doers and non-doers mentioning the cost of soap and the fact that hand washing was time consuming. In two of the three counties, health workers and community leaders were perceived to approve handwashing at these two critical times (before handling food and after attending to a child who has defecated). Doers in two of the three counties were more likely to say that it was not difficult to remember to wash hands during these two times while the non-doers in two of these counties indicated that it was somewhat difficult to remember. Doers were more likely to say that it was not likely at all for their children to suffer from diarrhoea due to their hygiene practices while the non-doers in these two counties indicated that it was somewhat likely that their children would suffer from diarrhoea. There was no significant difference on divine will, policy and culture across the three counties.

4. Use of modern family planning

The doers and the non-doers cited different factors that made it easy to use a modern method of family planning with the doers more likely to mention availability at the heath facility, contraceptive provided free, their proximity to the clinic, knowledge about the different methods available and the ease to administer. The non-doers were more likely to say that the assurance on the side effects would make it easy for them. When asked about what made it difficult, the doers were more likely to point out stock out and absence of health workers as the most significant barriers. The non-doers on the other hand were more likely to indicate inadequate knowledge and unavailability of the different methods at the heath facility. In all the three counties, the doers were more likely to cite prevention of unwanted pregnancy as the positive consequence of using modern contraceptives. It is only in Grand Cape Mount where a significant negative consequence was found with doers 12 times more likely to indicate that the use of modern contraceptives led to disruption of the menstrual cycle. In the same county, the non-doers were more likely to cite heavy bleeding as the negative consequence. In two of the three counties, the doers were more likely to as found with at all to get the

contraceptives a factor that would need to be reinforced. Doers in two of the counties were more likely to indicate that it was very likely that they would be able to provide adequately for their family. Reinforcing this would most certainly ensure that more non-doers are encouraged to adopt the use of modern contraceptives.

5. Use of Latrine

In two of the three counties the doers were more likely to say that they had enough knowledge, resources and skills to use a latrine every time while there was no significant difference in Sinoe. When asked what made it easy for them to use a latrine every time, doers in two counties mentioned availability of water while in Sinoe the doers were more likely than the non-doers to mention having knowledge. The non-doers in all the counties were more likely to say that the availability of the latrine would make it easier for them. While there was no statistical significant difference between the doers and the non-doers in Sinoe on what made it difficult, in Grand Cape Mount and Grand Bassa, the unavailability of water and unavailability of the latrines were more likely to make it difficult for them. With regards to the advantages, prevention of disease was significant across the three counties with doers more likely to give this feedback in Grand Cape Mount and non-doers in Sinoe and Grand Bassa. Some of the significant disadvantages found included the perception that it required more water, people had to walk long distances to access the latrine and that the latrines were perceived as breeding grounds for insects. When asked how difficult it was to access a latrine the non-doers were more likely to say that it was very difficult while the doers said that it was not difficult at all. This reflects the need to scale up Community-led Total Sanitation (CLTS), which has been seen to be effective in supporting more communities eliminate open defecation. With respect to susceptibility to diarrhoea, the non-doers were more likely to mention very likely or somewhat likely than the doers were.

6. Safe water storage

Across the three counties, there was no significant difference on knowledge, resources and skills with both doers and non-doers indicating that they felt that they had everything they needed to store water. When asked what made it easy for them to store water doers in two of the three counties were more likely to indicate having knowledge and proximity of the water source. The doers were more likely to mention that availability of a gallon would make it easy for them while the non-doers were more likely to say that having money to buy a gallon would make it easy for them. The cost of the gallon was cited as a significant barrier, a factor that would need to be ascertained considering that majority of households among the non-doers were found to have these containers only that they were more likely to use them for other purposes for example storing palm oil. Some of the positive consequences cited by the doers and the non-doers included avoiding water contamination, ensuring good health for children and preventing diarrhoea all significant in at least one of the three counties. The only significant negative consequence highlighted by doers in Rivercess was that storing water in a clean narrow mouth container was time consuming. This is a perception that would need to be reduced through continued sensitisation at the community level. Like other behaviour studied, there was no significant difference around action efficacy, divine will, policy and culture.

Background

Concern and the LWC partners sought to examine the significant determinants across six (6) behaviours in the areas around health, nutrition, water sanitation and hygiene (WaSH) which the partners have been promoting across the different counties, but that have not shown any significant improvement.

The Designing for Behaviour Change (DBC) framework, a key output from the barrier analysis will be useful in the development of Social Behaviour Change Communication (SBCC) strategies for the different behaviours within the LWC partner's operational areas. The interviews with Doers and Nondoers presents new insights on the barriers as well as the enablers for specific behaviours that are essential in aligning the current programming to addressing these particular determinants. This report summarises the methodology used, the significant determinants discovered and the activities suggested overcoming the barriers for each of the six (6) behaviours studied across the five (5) counties the LWC partners are working in. While not all the six barriers were studied in each county, the results indicate significant similarities across different counties, which means that the findings in one county can be used to inform programming in another county.

Methodology

The Barrier Analysis methodology, as specified in "A Practical Guide to Conducting a Barrier Analysis (2013)", was followed right from the training, data collection analysis and interpretation. For each behaviour studied, at least 45 "Doers" and 45 "Non-Doers" were sampled, and one-on-one interviews were conducted with each participant. The BA researched twelve (12) main behavioural determinants and equally incorporated an additional determinant on universal motivators that sought to look into factors that motivated people to practice a behaviour, irrespective of other variables for example desire for education. The 12 determinants studied are as listed below.

- 1. Perceived Self-efficacy / skills
- 2. Perceived positive consequences
- 3. Perceived negative consequences
- 4. Perceived Social Norms
- 5. Access
- 6. Cues for actions/ reminders

- 7. Perceived severity
- 8. Perceived susceptibility
- 9. Action efficacy
- 10. Perceived divine will
- 11. Policy
- 12. Culture

After the data collection the BA team jointly coded the survey responses for open-ended questions and tallied the responses for the closed ended questions. All these responses were then analysed for statistical significant differences between Doers and Non-Doers. Significant determinants, as recommended in the practical guide were those that showed a difference of at least 15% between the responses doers gave compared to the ones non-doers gave. The standard Excel tabulation template was used enabling calculation of more statistical indicators such as the odds-ratio, the p-value and the related risk ratio.

The BA lead conducted initial interpretation of findings, and drafted *"Bridges to Activities"* which were presented in a one-day workshop with consortium partners alongside the study. During the workshop, the participants discussed at length the findings and came up with a set of recommendations that have been incorporated in this report.

Behaviour 1: Mothers of children aged 0-6 months feed them on breastmilk alone for the first 6 months

To assess this behaviour, mothers with children aged 6-12 months were interviewed as they had already passed the recommended 6 months. UNICEF and WHO recommend that children are fed on only breastmilk during the first 6 months of life. Exclusive breastfeeding (EBF) is recommended

because breast milk is uncontaminated, contains all the necessary nutrients for the first few months of life, and provides immunity to disease through maternal antibodies, among other benefits.

Behaviour 2: Mothers of children aged 6 – 23 months feed them meals each day containing foods from at least four (4) of the 7 food groups

To assess this behaviour, mothers with children aged 6-23 months were interviewed. Complementary feeding is the transition from exclusive breastfeeding to solid or semi-solid food covering the period from 6-23 months. To meet evolving nutritional requirements of the developing child during this period, minimum dietary diversity requires children receive foods from four (4) or more of the seven (7) food groups (1. Grains, roots and tubers; 2. Legumes and nuts; 3. Dairy products; 4. Flesh foods; 5. Eggs; 6. Vitamin-A-rich fruits and vegetables; 7. Other fruits and vegetables).

Behaviour 3: Caregivers of children under 5 years wash their hands with soap/ash and water before handling food and after attending to a child who has defecated

The WHO recommends that caregivers wash their hands at the five (5) critical times: 1) after defecation, 2) after cleaning a child's bottom or changing nappies, 3) before feeding a child, 4) before eating and 5) before and after preparing/handling food. Considering the challenges reported around handwashing, the team agreed to focus on two (2) of these critical times before handling food and after attending to a child who had defecated. This study settled on broadening the pool of respondents from just mothers of children by including caregivers of these children as well.

Behaviour 4: Women of child bearing age (15 to 49) who do not want to become pregnant use a modern contraceptive method (implants, hormonal i.e. pills, barrier i.e. condom, emergency contraception)

Modern contraceptive use remains an important public health intervention and a cost-effective strategy to reduce maternal mortality, avert unintended pregnancies, and reduce the need for abortion especially unsafe abortion and ultimately reinforcing people's right to determine the number and spacing of their children. Despite these benefits, contraceptive use in Liberia is still low despite the government efforts to increase uptake. The National Health and Social Welfare Policy and Plan (2011–2021) proposes initiation of counselling on family planning (FP) at Antenatal Care (ANC) and Postnatal Care (PNC) and availing the FP commodities at the community level. The National Plan envisions that within the health system a team of trained traditional midwives (TTMs) would complement the services offered at the health facility level hence achieving better coverage. While quantifying the progress of these initiatives is difficult, the study sought to investigate this behaviour and have a deeper understanding on the barriers that still prevailed at the community level.

Behaviour 5: Caregivers of children under 5 years use latrines every time they need to defecate

To assess this behaviour, the study conducted interviews with caregivers of children under 5 years to ascertain what either motivated or hindered their use of latrines. Concern and the LWC partners have been promoting community led total sanitation (CLTS) an innovative approach for mobilising communities to completely eliminate open defecation (OD) and breaking the cycle of faecal-oral contamination that leads to the spread of diseases for example diarrhoea. Despite the investment in this approach, open defecation is still prevalent in the majority of communities and thus making this behaviour one in need to better understand the most important barriers and enablers.

Behaviour 6: Caregivers of children under 5 years store drinking water in a clean, covered, narrow mouth container

A large proportion of communities in the counties assessed rely on underground water for their drinking and household use. During the dry season, most of the wells are at very low levels if not dried up with the alternative using the creek water that quite often is unsafe. The study sought to investigate the storage aspect where most of the contamination is believed to occur. The consortium has been

promoting the use of narrow mouth containers that have the potential to limit the chances of water contamination during storage and use. Interviews were conducted among caregivers of children under 5 years to determine the enablers and the barriers to use of these recommended containers. The interviews also included a physical assessment of the containers to ascertain the cleanliness as well.

Data collection and analysis took place over a period of 18 working days from 14th February to 5th March using two (2) teams of 10 enumerators each. Each enumerator aimed at conducting five (5) interviews with doers and another five (5) with non-Doers. In the end, the team conducted 1,732 interviews across the five (5) counties for the six (6) behaviours as shown in table 1 above. The working day following the data collection, the questionnaires were analysed by the enumerators under facilitation of the EU Aid Volunteer in one team and the Surge Nutrition Programme Manager leading the exercise with the other team. The Programme Manager-Nutrition then compiled data sets from both teams and analysed the data for presentation to the stakeholders in a workshop held in Monrovia. During the workshop, the participants provided insights to the BA findings and participated in group-work to formulate some recommended activities to be incorporated in the DBC framework to address the proposed bridges to activities.

Training

Concern globally has endorsed a behaviour change approach based on the design for behaviour change (DBC) method. The Nutrition Programme Manager-Surge facilitated a five-day training (7th to 12th March) with a total of 22 (15M 7F) enumerators. The training covered the theoretical aspects of a BA using a variety of participatory learning tools, a practical field-testing of the questionnaires followed by data coding, tabulation and analysis on day 4 and 5. The detailed training agenda and the participant list have been included under Annex 1 and 2 at the end of the report. Prior to the training, all the participants took a pre training test and took a post-test on the last day of the training. The average performance in the pre-test was 4 points while that in the post-test. One participant did not take the pre-test having arrived on the second day of training but ended up scoring seven (7) of the 10 questions correctly. Figure1 below illustrates the capacity enhancement during the training.

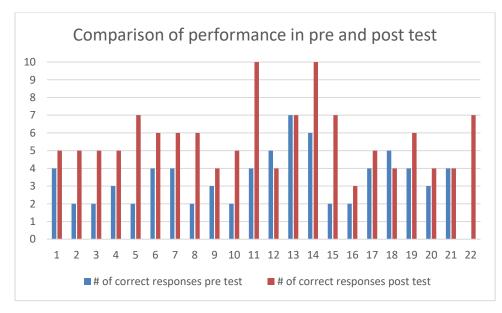


Figure 1 Comparison of pre and post-tests

Data collection

Questionnaires for the different behaviours were developed using the standard BA questionnaire format in consultation with the Country programme team, the Senior Advisor- Food and Nutrition Security and the Senior WaSH Advisor at the headquarter. The final questionnaire used is attached in annex 3.

Fieldwork lasted 18 days, with data collection for each behaviour being conducted on one day and coding of the responses during the following day. Data collection was supported by a team of 10 enumerators in each team with the Surge Nutrition Programme Manager leading one team and the EU Aid Monitoring and Evaluation Volunteer leading the second team. Upon arriving at the selected community, the team sought audience with the community chief informing them of the exercise and seeking their consent to enter the community and undertake the exercise. In all the sampled communities, the leadership was very receptive, allowing the enumerators to engage and interview the community members on the different behaviours.

At the household level, the data collectors approached each potential participant, found a semiprivate place to conduct the interview, introduced the study and obtained informed consent. Those who met criteria and consented to be part of the study were then screened to determine whether they were Doers or Non-Doers, before proceeding with the survey interview. The enumerators then administered the questionnaire, which contained a series of close-ended questions that required probing and open-ended (multiple-choice) questions related to the twelve determinants assessed. For the open ending questions, the enumerators probed and all responses were noted until the respondent had nothing else to add. One interview took approximately 20 minutes. The last question in each behaviour assessed, referred to universal motivators the priority group has. For each behaviour, each enumerator was expected to undertake 5 interviews with Doers and another 5 interviews with the non-Doers This allowed the entire team to have adequate questionnaires at the end of the day since if some of the enumerators were unable to get either doers or non-doers another member of the team would have reached that target. To ensure data quality, the two supervisors in each team did regular checks and follow ups with the enumerators supporting them if they struggled with any of the questions.

Prior to the study, the WaSH Coordinator shared a list of communities in each of the districts where the LWC partners had presence. The team sampled a minimum of seven communities in each of the sampled districts. Upon arrival at the district, the data collection team verified the sampled communities with the partner staff and the local administration to ascertain the population size and accessibility. Since the research allowed for purposive sampling, enumerators selected the interviewees as they walked through the community including asking respondents if they know a household that met certain criteria for a given behaviour for example one that had a latrine for latrine use or a child 6-12 months for minimum dietary diversity. This made it easy for the enumerators to save time and head to households that qualified for that particular behaviour. Whenever the team was unable to reach the target in a selected community, the team moved on to the next neighbouring community to finish the survey.

Coding, tabulation and interpretation of results

Data analysis consisted of coding, tabulating and analysing of the responses. The responses of the open ending questions were first coded using as many categories as felt required. In a second step each enumerator counted how many responses they had recorded fitting under the defined codes. The frequencies were filled on flip charts and later entered into the Barrier Analysis Tabulation Excel Sheet for quantitative analysis. This was useful in order to establish which determinants were found to be significantly different (p<0.05) or had a 15 percentage point difference among responses

between Doers and Non-Doers. The Excel tabulation sheet also gave additional information on the odds ratio and the relative risk factor essential in interpreting the results.

Upon completion of the data collection and analysis, the Nutrition Programme Manager-Surge interpreted the results and formulated the bridges to activities for each determinant found to be significant. This then allowed the team during the workshop to develop activities, which were feasible, receptive of the priority group and relevant to the determinant.

The findings were then compiled in a DBC framework that forms the behaviour change strategy. These findings will be used to further fine-tune and contextualize the already ongoing activities to further increase the chances of seeing real change within the programme. The Consortium partners will also use these findings, while designing new programmes addressing the identified barriers and equally reinforce the identified enablers.

Findings

This section describes the findings for each behaviour studied across the different counties. The tables below indicate the determinants that were found to be significant with those highly significant highlighted in red. A brief discussion on the findings has been incorporated for each county.

1. Exclusive Breastfeeding

The below table shows the significant determinants found for the assessed behavior; a complete list of all the findings has been included in annex 4.

| | | | Barr | ier Analysis | Tabulation Sheet | |
|---|------------------------------|--------------------------------|------------------|--------------|---|---|
| | Mothers o | of children age | ed 0-6 mo | nth's feed t | hem on breastmilk alone for the first 6 mont | hs |
| Total Doers | 51 | | | | CINIO) | - |
| Total Doers | 47 | | | | SINO | |
| Determinants | 47 Doers: +Exp. (A) | Non- doers: +Exp. (B) | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non-Doen are |
| 1. Perceived Self- Efficacy 1: D the child is 6 months? | o you think | you have e | nough kn | owledge, | resources, and skills, for you to feed you | r child on only breastmilk until |
| yes | 49 | 31 | 30% | 0.000 | Doers are 11 times more likely to give this response than NonDoers are. | |
| no | 0 | 11 | -23% | 0.000 | | #DIV/0! |
| 2. Perceived Self- Efficacy 1: W | Vhat <i>makes</i> | it easier for | <i>you</i> to of | f feed you | r child on only breastmilk for the first 6 m | nonths of life |
| Having enough food/food being available at the HH at all times/Eating enough food/Eating 3 meals a day | 36 | 41 | -17% | 0.038 | | NonDoers are 2.5 more likely to give this response than Doers |
| Financial support from spouse/Having money to buy foods | 15 | 26 | -26% | 0.008 | | NonDoers are 2.7 more likely to give this response than Doers |
| Having knowledge on breastfeeding | 13 | 5 | 15% | 0.050 | Doers are 2.5 times more likely to give this response than Non Doers | |
| Moral support/encouragement from Husband | 19 | 7 | 22% | 0.011 | Doers are 2.9 times more likely to give this response than Non Doers | |
| Having safe drinking water | 8 | 0 | 16% | 0.004 | Doers are 11.7 times more likely to give this response than Non Doers | |

1.1 Sinoe

| Time consuming/Being away | inat makes | it afficant is | | | child on only breastmilk for the first 6 m | |
|---|----------------|-----------------|--------------|------------|--|---|
| from the child/Distances to the farm | 10 | 3 | 13% | 0.050 | Doers are 2.9 times more likely to give this response than Non Doers | |
| 5. Negative Consequences/ Di | isadvantage | s: What are | the disad | vantages | of feeding your child on only breastmilk | for the first 6 months of life |
| Child stomach get too large/child will be too big/child will be overgrown | 1 | 6 | -11% | 0.044 | | NonDoers are 6.6 more likely to give this response than Doers |
| Child will become sick | 0 | 9 | -19% | 0.001 | | #DIV/0! |
| 7. Perceived Social Norms: WI | ho are the p | eople who c | lisapprov | e of you f | eeding your child on only breastmilk for | the first 6 months of life |
| Brothers/sisters/uncles/aunts | 12 | 3 | 17% | 0.017 | Doers are 3.5 times more likely to give this response than Non Doers | |
| Myself | 3 | 9 | -13% | 0.044 | | NonDoers are 3.5 more likely to give this response than Doers |
| 8. Perceived Access : How diff | icult is it to | for you find | the time | you need | to feed your child on only breastmilk fo | r the first 6 months of life |
| not difficult at all | 39 | 26 | 21% | 0.023 | Doers are 2.4 times more likely to give this response than Non Doers | |
| 9. Perceived Access : How diff | icult is it ge | tting the sup | port you | need to f | eed your child on only breastmilk for the | e first 6 months of life |
| somewhat difficult | 9 | 24 | -33% | 0.000 | | NonDoers are 4.3 more likely to give this response than Doers |
| not difficult at all | 36 | 16 | 37% | 0.000 | Doers are 4 times more likely to give this response than Non Doers | |
| 10. Perceived Cues for Action, | / Reminders | : How diffic | ult is it to | rememb | er to feed your child on only breastmilk | for the first 6 months of life |
| somewhat difficult | 2 | 12 | -22% | 0.002 | | NonDoers are 7.5 more likely to give this response than Doers |
| not difficult at all | 47 | 31 | 26% | 0.001 | Doers are 5.4 times more likely to give this response than Non Doers | |
| 13. Perceived Action Efficacy: illness and malnutrition? | How likely i | is it that feed | ding your | child on c | only breastmilk for the first 6 months pro | otects the child from common |
| very likely | 38 | 23 | 26% | 0.008 | Doers are 2.8 times more likely to give this response than Non Doers | |
| somewhat likely | 7 | 16 | -20% | 0.016 | | NonDoers are 3 more likely to give this response than Doers |

While the research found a number of significant determinants, only the highly significant ones were looked at in the formulation of activities incorporated in the DBC framework. The Doers had the perception that they had enough knowledge that enabled them to feed their infants exclusively on breastmilk while the non-doers felt that they did not have enough knowledge, skills and resources to practice EBF. The non-doers were 2.5 times more likely to say that having adequate food would make it easy for them to practice EBF. The support by the spouse was also found to be a significant determinant with the financial support cited by the non-doers as what would make it easier for them. On the other hand, the doers cited the moral support and encouragement from spouses as critical to making it easy to breastfeed their children exclusively. Other relatives (brothers, sisters, uncles and aunt) were perceived as disapproving EBF. This could be investigated further and if ascertained, measures put in place to either seek buy-in from them for the support of EBF or where they approve already, ensuring they communicate this to the women who are breastfeeding. The relationship between prevention of malnutrition and EBF was found to be unclear among the non-doers who cited that their children were somewhat likely to be malnourished if they were exclusively breastfed.

1.2 Grand Cape Mount

| Barrier Analysis Tabulation Sheet | | | | | | | | |
|-----------------------------------|---|------------------|--|--|--|--|--|--|
| Mothers of | Mothers of children ages 0 – 6 months feed them with only breast milk for the first 6 months of life. | | | | | | | |
| Total Doers | 49 | Grand Cape Mount | | | | | | |

| Total NonDoers | 48 | | | | | |
|---|------------------------|--------------------------------|-----------|------------------|---|---|
| Determinants | Doers: +Exp. (A) | Non- doers: +Exp. (B) | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 1. Do you think you have <i>end</i> months? | ough know | /ledge, res | ources, c | and skills, for | you to feed your child on only brea | stmilk until the child is 6 |
| yes | 49 | 39 | 19% | 0.001 | #VALUE! | |
| possibly | 0 | 5 | -10% | 0.027 | | #DIV/0! |
| 2. What makes it easier for y | ou to of fe | ed your cl | nild on o | nly breastmill | for the first 6 months of life | |
| knowledge/ health worker support | 26 | 13 | 26% | 0.008 | Doers are 2.7 times more likely to give this response than Non Doers | |
| 3. What makes it difficult for | you to fe | ed your ch | ild on on | ly breastmilk | for the first 6 months of life | |
| no time | 2 | 10 | -17% | 0.012 | | NonDoers are 5.6 more likely to give this response than Doers |
| | of you fee | ding your | child on | only breastm | ilk until the child is 6 months? | 1 |
| child will be healthy | 48 | 31 | 33% | 0.000 | Doers are 22.7 times more likely to give this response than Non Doers | |
| 6. Who are the people who a | approve of | f you feedi | ng your | child on only | breastmilk for the first 6 months of | flife |
| myself | 14 | 23 | -19% | 0.040 | | NonDoers are 2.1 more likely to give this response than Doers |
| other relatives (brother, sister, aunt, uncle) | 22 | 12 | 20% | 0.032 | Doers are 2.2 times more likely to give this response than Non Doers | |
| 7. Who are the people who | disapprove | e of you fe | eding yo | ur child on or | ly breastmilk for the first 6 months | s of life |
| husband/boyfriend | 0 | 5 | -10% | 0.027 | | #DIV/0! |
| 8. How difficult is it to for yo | u find the | time you r | need to f | eed your child | d on only breastmilk for the first 6 | months of life |
| very difficult | 4 | 11 | -15% | 0.041 | | NonDoers are 3.1 more likely to give this response than Doers |
| 9. How difficult is it getting t | he suppor | t you need | l to feed | your child on | only breastmilk for the first 6 mon | ths of life |
| very difficult | 5 | 15 | -21% | 0.010 | | NonDoers are 3.6 more likely to give this response than Doers |
| 12: How serious would it be | if your chi | ld became | ill? | 1 | | |
| very serious | 23 | 33 | -22% | 0.024 | | NonDoers are 2.3 more likely to give this response than Doers |
| not serious at all | 14 | 4 | 20% | 0.010 | Doers are 3.5 times more likely to give this response than Non Doers | |
| 13. How likely is it that feedi malnutrition? | ng your cl | hild on only | / breastr | nilk for the fir | st 6 months protects the child from | n common illness and |
| somewhat likely | 3 | 10 | -15% | 0.032 | | NonDoers are 3.7 more likely to give this response than Doers |

Doers were 2.7 times more likely to say that the support from the health workers made it easy for them to practice EBF. This positive element could be utilized to influence the non-doers since the

health workers are seen as an enabler, equipping them with the necessary information around breastfeeding will be an asset in seeing more of the non-doers embrace EBF. The doers also perceived other relatives including brothers, sisters, aunts and uncles as people who approve exclusive breastfeeding. This group should be targeted and equipped with appropriate messages around breastfeeding to ensure that they continue supporting the priority group adopt this behavior. The non-doers perceive that it is very difficult to get the support they need for exclusive breastfeeding. While this may need to be ascertained, seeing that spouses were not cited highly as a barrier, efforts could be made to work with spouses of breastfeeding mothers ensuring that they also understand particular roles they could play to support their spouses to practice exclusive breastfeeding.

1.3 Grand Bassa

| | | Barrie | er Analysi | s Tabulatic | on Sheet | |
|--|------------------------|-------------------------------|------------|--------------|---|---|
| Mothers of ch | ildren ageo | d 0-6 mont | h's feed | them on b | reastmilk alone for the first 6 m | onths |
| Total Doers | 46 | | | | | Crand Desse |
| Total NonDoers | 48 | | | | | Grand Bassa |
| Determinants | Doers: +Exp. (A) | Non- doers +Exp. (B) | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 2. Perceived Self Efficacy:: What ma | ikes it easi | er for you | to of feed | d your child | d on only breastmilk for the firs | t 6 months of life |
| Encouragement from health worker | 7 | 0 | 15% | 0.005 | Doers are 11.6 times more likely to give this response than Non Doers | |
| 3. Perceived Self Efficacy: What ma | kes it diffi | cult for you | u to feed | your child | on only breastmilk for the first | 6 months of life |
| Food is unavailable/Market too far away/No food varieties | 5 | 17 | -25% | 0.005 | | NonDoers are 4 more likely to give this response than Doers |
| 4. Positive consequences (Advantage months? | ges): What | are the <i>ad</i> | lvantages | s of you fee | eding your child on only breastr | nilk until the child is 6 |
| Child will become clever/Smart in school | 17 | 29 | -23% | 0.019 | | NonDoers are 2.4 more likely to give this response than Doers |
| 5. Negative Consequences/ Disadva months of life | intages: W | hat are the | e disadva | ntages of f | eeding your child on only breas | tmilk for the first 6 |
| Breasts will fall | 2 | 10 | -16% | 0.016 | | NonDoers are 5.2 more likely to give this response than Doers |
| 6. Perceived Social Norms:: Who are | e the peop | le who app | prove of | you feedin | g your child on only breastmilk | for the first 6 months of |
| Sisters/Aunts/brother including inlaws | 19 | 10 | 20% | 0.027 | Doers are 2.4 times more likely to give this response than Non Doers | |
| 8. Perceived Access : How difficult i of life | s it to for y | ou find the | e time yo | u need to | feed your child on only breastm | ilk for the first 6 months |
| somewhat difficult | 6 | 16 | -20% | 0.018 | | NonDoers are 3 more likely to give this response than Doers |
| not difficult at all | 40 | 27 | 31% | 0.001 | Doers are 4.6 times more likely to give this response than Non Doers | |
| 9. Perceived Access : How difficult i | s it getting | the suppo | ort you ne | ed to feed | your child on only breastmilk f | or the first 6 months of life |

| not difficult at all | 27 | 17 | 23% | 0.020 | Doers are 2.3 times more likely to give this response than Non Doers | | | | |
|---|----|----|-----|-------|--|--|--|--|--|
| 11. Perceived Susceptibility: How likely is it that your child becomes malnourished/ill if she/he is not fed on only breastmilk for the first 6 months of life? | | | | | | | | | |
| not likely at all | 13 | 3 | 22% | 0.004 | Doers are 4.3 times more likely to give this response than Non Doers | | | | |

Similar to the findings in Grand Cape Mount (GCM), health workers were also perceived as strong enablers to adoption of exclusive breastfeeding where doers were 11.6 times more likely to indicate that their support made it easy for them to practice EBF. The non-doers felt that unavailability of food would make it difficult to breastfeed their children, a barrier that could be addressed through different avenues including home gardening to ensure that households are supported to produce foods for home consumption. The doers also indicated that it was not difficult for them to get the support they need to feed their children on breastmilk alone, considering that they were already practicing this is valid and reflects that they are aware of the support they need. For the non-doers, it would be necessary to have a clear understanding of the support caregivers would need and support them to get this support. The doers felt that their children were less likely to become malnourished if not exclusively breastfed. This reflects a lack of understanding of the link between malnutrition and children who are not exclusively breastfed.

2. Minimum Dietary Diversity

2.1 Rivercess

| Barrier Analysis Tabulation Sheet | | | | | | | | | | |
|---|------------------------|----------------------------|-------------------|--------------|--|---|--|--|--|--|
| Mothers of children ages 6 – 23 months feed them meals each day containing foods from at least 4 of the 7 food groups | | | | | | | | | | |
| Total Doers | 48 | | | | | | | | | |
| Total NonDoers | 50 | | | | | RIVERCESS | | | | |
| Determinants | Doers: +Exp. (A) | Non-doers: +Exp. (B) | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are | | | | |
| 1. Perceived Self-Efficacy: W each day? | /hat makes | it easy for you | to feed y | our baby foo | ods from at least four of these 7 | 7 different food groups | | | | |
| Farming | 37 | 20 | 37% | 0.000 | Doers are 4.3 times more likely to give this response than Non Doers | | | | | |
| Having Money/Being employed | 22 | 34 | -22% | 0.022 | | NonDoers are 2.3 more likely to give this response than Doers | | | | |
| 2. Perceived Self-Efficacy: W | hat makes i | t <i>difficult</i> for yo | ou to feed | d your baby | foods from at least four of thes | e 7 food groups each day? | | | | |
| Lack of financial support from husband | 18 | 9 | 20% | 0.026 | Doers are 2.4 times more likely to give this response than Non Doers | | | | | |
| Child refusal of some foods | 0 | 6 | -12% | 0.015 | | #DIV/0! | | | | |
| 4. Negative Consequences (I different food groups each d | | es): What are t | he <i>disad</i> : | vantages of | feeding your baby foods from a | at least four of these 7 | | | | |
| Spend a lot of money on food | 16 | 8 | 17% | 0.039 | Doers are 2.3 times more likely to give this response than Non Doers | | | | | |

| Time consuming | 11 | 4 | 15% | 0.037 | Doers are 2.8 times more likely to give this response than Non Doers | |
|---|-------------|-----------------------|------------|-------------|--|---|
| 5. Perceived Social Norms: V each day? | Vho are the | people that ap | oprove of | you feeding | g your baby foods from at least | four of these 7 food groups |
| Husband/boyfriend | 44 | 38 | 16% | 0.033 | Doers are 3.2 times more likely to give this response than Non Doers | |
| Close friends/Neighbours | 3 | 11 | -16% | 0.025 | | NonDoers are 3.9 more likely to give this response than Doers |
| 6. Perceived Social Norms: V groups each day? | Vho are the | people <u>that di</u> | sapprove | of you feed | ling your baby foods from at lea | ast four of these 7 food |
| Husband | 1 | 8 | -14% | 0.018 | | NonDoers are 8 more likely to give this response than Doers |
| Nobody | 32 | 19 | 29% | 0.004 | Doers are 2.9 times more likely to give this response than Non Doers | |
| 10. Perceived Susceptibility: | How likely | is it that your o | child will | become ma | Inourished in the coming year? | |
| somewhat likely | 8 | 24 | -31% | 0.001 | | NonDoers are 4.1 more likely to give this response than Doers |
| not likely at all | 35 | 20 | 33% | 0.001 | Doers are 3.5 times more likely to give this response than Non Doers | |
| 11. Perceived Severity: How | serious wo | uld it be if your | child bea | came malno | urished? | |
| not serious at all | 17 | 6 | 23% | 0.006 | Doers are 3.3 times more likely to give this response than Non Doers | |

Doers were 4.3 times more likely to cite farming as what made it easy for them to feed their children on foods from at least four (4) food groups while the non-doers were 2.3 times more likely to say that having money to purchase diverse foods would make it easy. The NonDoers equally cited lack of financial support as what made it difficult for them to feed their children on diverse foods. Considering that these factors were found to be strongly significant, indeed the capacity of households to feed children diverse foods highly depends on the availability of these foods either produced by the household or purchased from the market. This indicates the need look into issues around access to these foods through different avenues including home gardening. With this kind of support, households would have an additional source of diverse foods and where feasible households could sell surplus (to others) to purchase additional types of foods to further diversify. The doers had the perception that feeding children foods from four of the seven food groups made them spend a lot of money on foods. Considering the cost of some of those foods, there is a need to address this perception by messaging around the long-term cost benefits of feeding a diverse diet to children (better health status hence reducing time and expenditure for medical care). Notably the research found out that there was no disapproval for feeding children on foods from at least four (4) of the seven (7) food groups. The Doers felt that it would not be serious if their children suffered from malnutrition; this reflects a limited understanding of the relationship between dietary diversity and malnutrition.

2.2 Montserrado

| | | В | arrier Ana | alysis Tabulation Sheet | | | | |
|---|------------------------|------------------------|--------------------|---|---|--|--|--|
| Mothers of children age | es 6 – 23 m | onths fee | d their chi | ildren foods from at least four (4 | 4) of the 7 food groups each day? | | | |
| Total Doers | 40 | | Montserrado | | | | | |
| Total NonDoers | 44 | | | | | | | |
| Determinants | Doers: +Exp. (A) | Non Doers: +Exp. | Diff. | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non-Doers are | | | |
| | 'hat makes | it easy fo | r you to f | eed your baby foods from at lea | st four of these 7 different food | | | |
| groups each day? Availability of money | 24 | 37 | -24% | | NonDoers are 3 more likely to give this response than Doers | | | |
| child enjoys it | 8 | 0 | 20% | Doers are 12.3 times more likely to give this response than Non Doers | | | | |
| has farm/ garden | 3 | 16 | -29% | | NonDoers are 6.2 more likely to give this response than Doers | | | |
| | hat makes | it <i>difficul</i> | <i>t</i> for you t | o feed your baby foods from at | least four of these 7 food groups | | | |
| each day? unavailability of foods | 16 | 4 | 31% | Doers are 4.8 times more likely to give this response than Non Doers | | | | |
| lack of familial support | 0 | 10 | -23% | | #DIV/0! | | | |
| | | :What ar | e the adv | antages of feeding your baby fo | ods from at least four of the | | | |
| different food groups each c child gains weight/ gets fat | lay? 0 | 9 | -20% | | #DIV/0! | | | |
| / | | | ages: Wh | hat are the <i>disadvantages</i> of fee | ding your baby foods from at least | | | |
| child upset when new foods aren't available | 12 | 0 | 30% | Doers are 13.9 times more likely to give this response than Non Doers | | | | |
| 10. Perceived Susceptibility: | How likely | y is it that | your chile | d will become malnourished in t | he coming year? | | | |
| not likely at all | 26 | 14 | 33% | Doers are 3.4 times more likely to give this response than Non Doers | | | | |
| 11. Perceived Severity: How | serious wo | ould it be | if your chi | ild became malnourished? | | | | |
| not serious at all | 14 | 6 | 21% | Doers are 2.9 times more likely to give this response than Non Doers | | | | |

The non-doers were 3 times more likely to say that having money would make it easy for them to feed their children a diverse diet. The non-doers were also 6.2 times more likely to say that having a farm and producing foods would make it easier for them to feed their children foods from at least four food groups. The doers also perceived unavailability of foods as a significant barrier to dietary diversity. This points to the potential impact home gardening could have on dietary diversity for non-doers and doers alike. There is also a need to look into the care-takers knowledge on what are the cheapest foods in every food group in any given season. This would increase the understanding that a diverse

diet does not have to be expensive if using indigenous and seasonal foods. One significant negative consequence cited by the doers was that they felt that their children would be upset if certain foods that they had been introduced were no longer available. This indicates the need to promote foods that are available and affordable to majority of the population.

| Barrier Analysis Tabulation Sheet | | | | | | | | | | |
|--|------------------------|------------------------|------------|-------------|--|---|--|--|--|--|
| Mothers of children ages 6 – 23 months feed their children foods from at least four (4) of the 7 food groups each day? | | | | | | | | | | |
| Total Doers | 49 | | | | | Creard Cares Maynet | | | | |
| Total NonDoers | 49 | | | | | Grand Cape Mount | | | | |
| Determinants | Doers: +Exp. (A) | Non Doers: +Exp. | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are | | | | |
| 2. Self-Efficacy: What makes it <i>difficult</i> for you to feed your baby foods from at least four of these 7 food groups each day? | | | | | | | | | | |
| lack of support from father | 11 | 20 | -18% | 0.041 | | NonDoers are 2.2 more likely to give this response than Doers | | | | |
| 5. Social Norms: Who are the each day? | e people t | hat approve | e of you t | feeding y | our baby foods from at least for | ur of these 7 food groups | | | | |
| friends | 4 | 12 | -16% | 0.027 | | NonDoers are 3.3 more likely to give this response than Doers | | | | |
| 10. Perceived Susceptibility: | How likely | is it that y | our child | will becc | me malnourished in the coming | g year? | | | | |
| not likely at all | 34 | 21 | 27% | 0.007 | Doers are 2.7 times more likely to give this response than Non Doers | | | | | |
| 11. Perceived Severity: How | serious wo | ould it be if | your chi | ld becam | e malnourished? | | | | | |
| somewhat serious | 18 | 9 | 18% | 0.035 | Doers are 2.3 times more likely to give this response than Non Doers | | | | | |

2.3 Grand Cape Mount

In Grand Cape Mount, there were fewer significant determinants, which included; the lack of support from the child's father that was perceived more among the non-doers as making it difficult for them to feed their children on diverse diets. Considering the significant role played by spouses in ensuring appropriate IYCF practices, it is thus essential to seek opportunities to engage them to ensure they offer the necessary support to their spouses. The doers perceived that their children were unlikely to become malnourished in the coming year. They also mentioned that if the children were to become malnourished they felt that it would not be serious. While this may be related to the fact that they were already practicing the behaviour thus making them feel not being at risk, the link between inadequate diet diversity and malnutrition will need to be reinforced.

3. Hand washing

3.1 Grand Cape Mount

| Total NonDoers47DeterminantsDoers: +Exp.Non boers: +Exp.Diff. p-valueP-valueRelative Risk Ratio: Doers areRelative R boot are1. With your present knowledge, resources, and skills, do you think that you could wash your hands with water and sc handling food and after attending to a child who has defecated?Doers are 12 times more likely to give this response than Non DoersNonDoers ar to give this response than Non DoersYes503719%0.003Doers are 12 times more likely to give this response than Non DoersNonDoers ar to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after atten who has defecated?04-9%0.010MonDoers ar to give this response than Non Doers10. How difficult1323-23%0.014Doers are 3.5 times more likely to give this response than Non DoersMonDoers ar more likely response10. How likely is it that your child could suffer from diarrhoea in the next few daysNonDoers ar more likely response than Non DoersNonDoers ar more likely response10. How likely at all331337%0.001Doers are 3.5 times more likely to give this response than Non Doers10. How likely at all331337%0.000Doers are 4 tim | | lation Sheet | nalysis Tabu | Barrier A | | | |
|--|---|---|--------------|--------------|--------------|---------------|--------------------------------------|
| Total Doers 51 Total NonDoers 47 Determinants Pexp. (A) Doers: +Exp. (A) Diff. +Exp. (A) p-value Relative Risk Ratio: Doers are Relative R pool 1. With your present knowledge, resources, and skills, do you think that you could wash your hands with water and sc handling food and after attending to a child who has defecated? Doers are 12 times more likely to give this response than Non Doers NonDoers are to give this response than Non Doers Possibly 1 7 -13% 0.022 NonDoers are to give this response than Non Doers 2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated? Doers are 2.6 times more likely to give this response than Non Doers 10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attending has defecated? Doers are 2.6 times more likely to give this response than Non Doers 10. How difficult 13 23 -23% 0.010 Doers are 3.5 times more likely to give this response than Non Doers 10. How likely is it that your child could suffer from diarrhoea in the next few days more likely response th Non Doers NonDoers ar more likely response th Non Doers 11. How serious would it be if your child would suffer from diarrhoea? Doers are 4 times more likely to give this response than Non Doers <td>after attending to a child</td> <td></td> <td></td> <td></td> <td>wash their</td> <td>der 5 years</td> <td>Caregivers of children un</td> | after attending to a child | | | | wash their | der 5 years | Caregivers of children un |
| Total NonDoers 47 Determinants Doers: +Exp. (A) Non +Exp. +Exp. (A) Non +Exp. (A) Diff. +Exp. +Exp. (A) p-value Relative Risk Ratio: Doers are Relative R barling food and after attending to a child who has defecated? Yes 50 37 19% 0.003 Doers are 12 times more likely to give this response than Non Doers Possibly 1 7 -13% 0.022 NonDoers are 10 times more likely to give this response than Non Doers 2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated? Doers are 2.6 times more than Non Doers NonDoers are to give this response than Non Doers 10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attending has defecated? Doers are 2.6 times more than Non Doers MonDoers 10. How difficult 13 23 -23% 0.014 Doers are 3.5 times more than Non Doers MonDoers 10. How likely is it that your child could suffer from diarrhoea in the next few days NonDoers are than Non Doers NonDoers at more likely response th an Non Doers NonDoers at more likely response th an Non Doers NonDoers at more likely response th not likely at all 33 13 37% 0.001 Doers are 4 times more than Non Doers | | | | | | 51 | Total Doers |
| DeterminantsDoers: +Exp. (A)Non Doers: +Exp.Diff. p-valuep-valueRelative Risk Ratio: Doers areRelative R body1. With your present knowledge, resources, and skills, do you think that you could wash your hands with water and so handling food and after attending to a child who has defecated?Doers are 12 times more likely to give this response than Non DoersNonDoers are 12 times more likely to give this response than Non DoersPossibly17-13%0.002Doers are 12 times more likely to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers10. How difficult1323-23%0.010Doers are 3.5 times more likely to give this response than Non Doers10. How difficult1323-23%0.001Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few daysNonDoers are 3.5 times more likely to give this response than Non Doers10. How likely at all331337%0.001Doers are 3.5 times more likely to give this response than Non Doers11. How serious would it be if your child would suffer from diarrhoea?Doers are 4.1 times more likely to give this response than NonDoers are11. How serious at all20920%0.021Doers are 4.1 times more likely to give this response than Non Doers12. | Grand Cape Mount | | | | | 47 | Total NonDoers |
| handling food and after attending to a child who has defecated?Yes503719%0.003Doers are 12 times more likely to give this response than Non DoersPossibly17-13%0.022NonDoers are 12 times more likely to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your bands with soap/ash and water before handling food and after attending has defecated?O.049MonDoers are 3.6 times more likely response than Non Doers30. How difficult of all382032%0.014Doers are 3.5 times more likely response than Non Doers10. How likely is it that your child could suffer from diarrhoearDoers are 3.5 times more likely response than Non DoersNonDoers are 3.5 times more likely response than Non Doers10. How likely at all331337%0.000Doers are 4 times more likely response than Non Doers11. How serious would It be if your child would suffer from diarrhoearDoers are 4 times more likely response than Non Doers12. How serious at all20920%0.014Doers are 2.4 times more likely response than Non Doers | Relative Risk Ratio: Non- Doers are | | p-value | Diff. | Doers: | +Exp. | |
| Yes503719%0.003Doers are 12 times more likely to give this response than Non DoersPossibly17-13%0.022NonDoers are to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and_after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doersknowledge281425%0.010Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attending hos defecated?Doers are 2.6 times more likely to give this response than Non Doers10. How difficult04-9%0.049MonDoers are more likely to give this response than Non Doerssomewhat difficult1323-23%0.014Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few daysDoers are 4 times more likely response than Non DoersNonDoers are more likely response than Non Doers11. How serious would it be if your child would suffer from diarrhoea?Doers are 2.4 times more likely to give this response than Non Doers12. How serious at all26920%0.024Doers are 4.4 times more likely to give this response than Non Doers13. How serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers <td>ter and soap before</td> <td>you could wash your hands with</td> <td></td> <td></td> <td></td> <td></td> <td></td> | ter and soap before | you could wash your hands with | | | | | |
| Yes503719%0.003likely to give this response than Non DoersPossibly17-13%0.022NonDoers to give this response to give this response than Non Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and_after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers2. What makes it is to remember to wash your hands with soap/ash and water before handling food and_after attending has defecated?Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attend who has defecated?04-9%0.010Doers are 2.6 times more likely to give this response than Non Doers10. How difficult04-9%0.049#DIV/01somewhat difficult1323-23%0.011Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea1227-34%0.001Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?26-24%0.014Doers are 2.4 times more likely to give this response than | | Deerre erre 12 timese mene | ted? | has defeca | child who | ending to a | handling food and after att |
| Possibly17-13%0.022to give this report Doers2. What makes it easy for you to wash your hands with soap/ash and water before handling food and after attending has defecated?281425%0.010Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attend who has defecated?04-9%0.049#DIV/0!somewhat difficult04-9%0.010Doers are 3.5 times more likely to give this response than Non DoersNonDoers and more likely response thnot difficult at all382032%0.001Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few daysNonDoers an more likely response th NonDoersNonDoers an more likely response th NonDoers12. How serious would it be if your child would suffer from diarrhoea?Doers are 4 times more likely response than Non DoersNonDoers an more likely response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?Doers are 2.4 times more likely response than Non Doers are 2.4 times more likely response than Non DoersNonDoers an more likely response than Non Doers12. How serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | | likely to give this response | 0.003 | 19% | 37 | 50 | Yes |
| has defecated?281425%0.010Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after atten who has defecated?04-9%0.049#DIV/01somewhat difficult04-9%0.014NonDoers a more likely response thNonDoers a more likely response thnot difficult at all1323-23%0.014Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few daysNonDoers a more likely response thNonDoers a more likely response th10. How likely at all331337%0.001Doers are 4 times more likely response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?Doers are 2.4 times more more likely response than Non DoersNonDoers a more likely response than Non Doers12. How serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | nDoers are 7.9 more likely give this response than ers | 1 | 0.022 | -13% | 7 | 1 | Possibly |
| knowledge281425%0.010Doers are 2.6 times more likely to give this response than Non Doers10. How difficult is it to remember to wash your hands with soap/ash and water before handling food and after attend who has defecated?04-9%0.049#DIV/01very difficult04-9%0.049#DIV/01NonDoers a more likelysomewhat difficult1323-23%0.014Doers are 3.5 times more likely to give this response than Non DoersNonDoers a | attending to a child who | ater before handling food and after | /ash and wa | s with soap | your hand | ou to wash | |
| who has defecated?04-9%0.049#DIV/0!very difficult1323-23%0.014NonDoers a more likely response th likely to give this responseNonDoers a more likely response thnot difficult at all382032%0.001Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea0.001Doers are 4 times more likely response th more likely response thsomewhat likely1227-34%0.001Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?0.004Doers are 4 times more likely to give this response than Non Doers12. How serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | | likely to give this response | 0.010 | 25% | 14 | 28 | |
| somewhat difficult1323-23%0.014NonDoers a more likely response thnot difficult at all382032%0.001Doers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few days1227-34%0.001NonDoers are 4 times more likely response thsomewhat likely1227-34%0.001Doers are 4 times more likely to give this response than Non DoersNonDoers a more likelynot likely at all331337%0.000Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?1626-24%0.014NonDoers a more likely response than Non Doersnot serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | fter attending to a child | nd water before handling food and | soap/ash an | nands with | wash your h | nember to | |
| somewhat difficult1323-23%0.014more likely response thnot difficult at all382032%0.001Doers are 3.5 times more likely to give this response than Non DoersDoers are 3.5 times more likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoea in the next few daysNonDoers are more likely response the more likely response theNonDoers are more likely response the more likely response the more likely to give this response than Non DoersNonDoers are more likely response the more likely response the NonDoers are 4 times more likely to give this response than Non DoersNonDoers are more likely response the NonDoers are to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?Doers are 4 times more likely response than Non DoersNonDoers are more likely response than Non Doers14. How serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | | | 0.049 | -9% | 4 | 0 | very difficult |
| not difficult at all382032%0.001likely to give this response than Non Doers10. How likely is it that your child could suffer from diarrhoeain the next few dayssomewhat likely1227-34%0.001NonDoers are dimensioned to give this response than Non Doersnot likely at all331337%0.000Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?1626-24%0.014NonDoers are 2.4 times more likely to give this response than Non Doersnot serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non DoersNonDoers are more likely response than NonDoers are more likely response than NonDoers | onDoers are 2.5 times ore likely to give this sponse than Doers | | 0.014 | -23% | 23 | 13 | somewhat difficult |
| 10. How likely is it that your child could suffer from diarrhoea in the next few dayssomewhat likely1227-34%0.001NonDoers a more likely response thnot likely at all331337%0.000Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?NonDoersNonDoersvery serious1626-24%0.014Doers are 2.4 times more more likely response thnot serious at all20920%0.025Doers are 2.4 times more | | likely to give this response | 0.001 | 32% | 20 | 38 | not difficult at all |
| somewhat likely1227-34%0.001more likely response the poers are 4 times more likely to give this response than Non Doersnot likely at all331337%0.000Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?Image: serious are | | | a in the nex | m diarrhoe | d suffer fro | r child coul | 10. How <i>likely</i> is it that you |
| not likely at all331337%0.000Doers are 4 times more likely to give this response than Non Doers12. How serious would it be if your child would suffer from diarrhoea?1626-24%0.014NonDoersvery serious1626-24%0.014NonDoers are 2.4 times more likely to give this response th more likely response thnot serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | onDoers are 3.8 times ore likely to give this sponse than Doers | | 0.001 | -34% | 27 | 12 | somewhat likely |
| very serious1626-24%0.014NonDoers a more likely response thnot serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non Doers | <u>.</u> | to give this response than | 0.000 | 37% | 13 | 33 | not likely at all |
| very serious1626-24%0.014more likely response thnot serious at all20920%0.025Doers are 2.4 times more likely to give this response than Non DoersExample of the series of the serie | | · · · · · · | liarrhoea? | iffer from o | ild would su | e if your chi | 12. How serious would it be |
| not serious at all20920%0.025likely to give this response than Non Doers | onDoers are 2.5 times ore likely to give this sponse than Doers | | 0.014 | -24% | 26 | 16 | very serious |
| 13. How likely is it that your child would suffer from diarrhoea if you did not wash your hands with soan/ash and wate | | likely to give this response than Non Doers | | | | | |
| handling food and after attending to a child who has defecated? | and water before | <u>not wash</u> your hands with soap/a | - | | | | |
| not likely at all 5 0 10% 0.035 Doers are 11 times more likely to give this response than Non Doers | | likely to give this response | | | | | |

Doers were 10 times more likely to indicate that they had enough knowledge, skills and resources to practice handwashing while the non-doers felt that they did not have enough confidence in their capacity to wash their hands. The doers were also 2.6 times more likely to indicate that having the knowledge about handwashing made it easier for them to practice. The non-doers should be supported to build their knowledge and capacity around handwashing. While the doers felt that it was not difficult to remember to wash their hands, the non-doers felt that it was somewhat difficult to wash their hands during these two critical times. The non-doers also indicated that it was somewhat likely that their children could suffer from diarrhoea. The relationship between handwashing and diarrhoea prevention would need to be reinforced ensuring that the non-doers clearly understand that their children are susceptible to diarrhoea if they do not adopt appropriate handwashing practices.

3.2 Montserrado

| | | Barrie | r Analysi | s Tabulat | ion Sheet | |
|--|------------------------|---------------------------|-----------|-------------------------|--|---|
| Caregivers of children un | ider 5 years was | h their hands v | - | p/ash and s defecate | water before handling food and ed. | after attending to a child |
| Total Doers | 48 | | | | | |
| Total NonDoers | 48 | | | | | Montserrado |
| Determinants | Doers: +Exp. (A) | NonDoers: +Exp. (B) | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 2. Perceived Self- Efficacy: attending to a child who h | | easy for you to | wash yo | our hands | with soap/ash and water before | handling food and after |
| water+ soap available | 48 | 38 | 21% | 0.001 | #VALUE! | |
| attending to a child who h | as defecated? | ····· | I | - | nds with water and soap before h | nandling food and after |
| lack of handwashing bucket | 8 | 1 | 15% | 0.015 | Doers are 5.4 times more likely to give this response than Non Doers | |
| cost of soap | 9 | 2 | 15% | 0.025 | Doers are 3.9 times more likely to give this response than Non Doers | |
| 4. Positive consequences (handling food and after at | | | - | s/ benefit: | s of washing your hands with soa | p/ash and water before |
| prevents disease | 21 | 34 | -27% | 0.006 | | NonDoers are 2.7 more likely to give this response than Doers |
| keeps you healthy | 34 | 20 | 29% | 0.004 | Doers are 3 times more likely to give this response than Non Doers | |
| 7. Perceived Social Norms: food and after attending to | | | rove of y | ou washi | ng your hands with soap/ash and | l water before handling |
| health workers | 12 | 4 | 17% | 0.026 | Doers are 3 times more likely to give this response than Non Doers | |
| myself | 10 | 1 | 19% | 0.004 | Doers are 6.4 times more likely to give this response than Non Doers | |

| 13. Perceived Action Efficacy: How <i>likely</i> is it that your child would suffer from diarrhoea if you did not wash your hands with | |
|--|--|
| soap/ash and water before handling food and after attending to a child who has defecated? | |

| not likely at all 0 5 -10% 0.028 #DIV/0! |
|--|
|--|

This group indicated that the availability of soap and water made it easy while the lack of these essential products made it difficult to wash their hands. Additionally the cost of soap was felt as a significant barrier that made handwashing difficult. Support to the households to access these essential items or make them understand that they would benefit (in longer term) from defining their priorities differently is thus essential to support the non- doers to adopt this behaviour. Both the doers and the non-doers had a strong understanding on the advantages of practicing the behaviour citing that handwashing contributed to preventing diseases and keeping children healthy. This could be reinforced during the health education sessions at the community level. With respect to the social norms, health workers were cited as positive influencers the programmes can engage to reinforce that indeed handwashing is critical.

3.3 Rivercess

| | | Ва | arrier An | alysis Tal | oulation Sheet | |
|--|------------------------|-------------------------|-----------|-------------|---|---|
| Caregivers of children under | 5 years wa | sh their ha | | | n and water before handling foo | d and after attending to a child |
| | | | wh | o has def | ecated. | |
| Total Doers | 51 | | | | | Diverses |
| Total NonDoers | 49 | | | | | Riverces |
| Determinants | Doers: +Exp. (A) | Non- doers: +Exp. | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 1. Perceived Self- Efficacy: Wit water and soap before handlin | • • | | | | and skills, do you think that you ho has defecated? | could wash your hands with |
| Yes | 49 | 38 | 19% | 0.006 | Doers are 6.4 times more likely to give this response than Non Doers | |
| Possibly | 2 | 11 | -19% | 0.006 | | NonDoers are 6.4 more likely to give this response than Doers |
| 2. Perceived Self- Efficacy: Wh attending to a child who has d | | t easy for y | ou to w | ash your l | nands with soap/ash and water l | before handling food and_after |
| Having knowledge on benefits of Hand washing | 25 | 4 | 41% | 0.000 | Doers are 6.9 times more likely to give this response than Non Doers | |
| 3. Perceived Self- Efficacy: Wh attending to a child who has d | | t difficult f | or you to | o wash yo | ur hands with water and soap be | efore handling food and_after |
| Lack of money to buy soap/cost of soap is high | 19 | 28 | -20% | 0.036 | | NonDoers are 2.1 more likely to give this response than Doers |
| It's not difficult at all | 8 | 0 | 16% | 0.003 | Doers are 11.7 times more likely to give this response than Non Doers | |
| 10. Perceived Cues for Action/ handling food and after attend | | | | | mber to wash your hands with so | oap/ash and water before |
| somewhat difficult | 11 | 23 | -25% | 0.007 | | NonDoers are 2.9 more likely to give this response than Doers |

| not difficult at all | 40 | 23 | 31% | 0.001 | Doers are 3.6 times more | | | | | |
|--|----|----|------|-------|--|--------------------------------|--|--|--|--|
| | | | | | likely to give this response | | | | | |
| | | | | | than Non Doers | | | | | |
| 11.Perceived Susceptibility: How likely is it that your child could suffer from a diarrhea disease in the next few days? | | | | | | | | | | |
| somewhat likely | 12 | 21 | -19% | 0.032 | | NonDoers are 2.3 more | | | | |
| | | | | | | likely to give this response | | | | |
| | | | | | | than Doers | | | | |
| not likely at all | 36 | 20 | 30% | 0.002 | Doers are 3.1 times more | | | | | |
| | | | | | likely to give this response | | | | | |
| | | | | | than Non Doers | | | | | |
| 13. Perceived Action Efficacy: soap/ash and water before ha | | • | | | Iffer from diarrhoea <u>if you did n</u> ild who has defecated? | <u>ot wash</u> your hands with | | | | |
| • * | - | | | - | I | | | | | |
| somewhat likely | 1 | 6 | -10% | 0.050 | | NonDoers are 6.3 more | | | | |
| | | | | | | likely to give this response | | | | |
| | | | | | | than Doers | | | | |

The study indicated that the non-doers lack the confidence to wash their hands during those two critical times while the doers cite having knowledge is what makes it easy for them to wash their hands. These results show the need for continued health education around handwashing to give the non-doers more confidence that they can practice this. The non-doers perceive lack of money as what makes it difficult for them to practice handwashing but considering that doers have found a way out of this behaviour, they can be used to motivate the non-doers to see that cost need not be a challenge and alternatives for example use of ash are equally acceptable and readily available.. With regards to remembering to wash their hands, the non-doers possibly due to their handwashing practices perceive that they are unlikely susceptible to diarrhoea while the non-doers felt that they are somewhat likely. The relationship between diarrhoea and handwashing needs to be reinforced among both the doers and non-doers to ensure that they have a clear understanding that children under 5 years are at risk of diarrhoea if children and their caretakers do not practice proper handwashing.

4. Use of Modern Family Planning

| Barrier Analysis Tabulation Sheet | | | | | | | | | | |
|--|------------------------|-------------------------|------------------|-------------|--|--|--|--|--|--|
| Women of child bearing age (15 to 49) who do not want to become pregnant | | | | | | | | | | |
| Use a modern contraceptive method | | | | | | | | | | |
| Total Doers | 50 | | | | | | | | | |
| Total NonDoers | 42 | | Grand Cape Mount | | | | | | | |
| Determinants | Doers: +Exp. (A) | Non- doers: +Exp. | Diff. | p- value | Relative Risk Ratio: Non- Doers are | | | | | |
| 1. Perceived Self-Efficacy: | What mak | es it <i>easi</i> | er for yo | u to use a | a modern contraceptive method? | | | | | |
| FP available in the town | 26 | 4 | 42% | 0.000 | Doers are 6.8 times more likely to give this response than Non Doers | | | | | |
| FP is free | 25 | 8 | 31% | 0.002 | Doers are 3.5 times more likely to give this response than Non Doers | | | | | |
| health centre is close | 9 | 2 | 13% | 0.049 | Doers are 3.4 times more likely to give this response than Non Doers | | | | | |

| 2. Perceived Self-Efficacy: | What make | es it <i>diffic</i> | cult for yo | ou to use | a modern contraceptive method? | | | | |
|--|-------------|---------------------|-------------|-----------|---|---|--|--|--|
| lack of knowledge | 3 | 11 | -20% | 0.008 | | NonDoers are 5 more likely to give this response than Doers | | | |
| no difficulty | 18 | 3 | 29% | 0.001 | Doers are 5 times more likely to | | | | |
| stock outs | | 0 | 100/ | 0.043 | give this response than Non Doers | | | | |
| stock outs | 5 | 0 | 10% | 0.043 | Doers are 11 times more likely to give this response than Non Doers | | | | |
| not available in clinic | 5 | 12 | -19% | 0.022 | give this response than Non Doers | NonDoers are 3.3 more | | | |
| | | | | | | likely to give this response | | | |
| | | | | | | than Doers | | | |
| 3. Positive consequences (| Advantage | s): What | are the a | advantag | es of using a modern contraceptive me | ethod? | | | |
| prevent unwanted | 31 | 5 | 50% | 0.000 | Doers are 8 times more likely to | | | | |
| pregnancy | | | | | give this response than Non Doers | | | | |
| provide for family | 0 | 5 | -12% | 0.017 | | #DIV/0! | | | |
| 4. Negative Consequence (Disadvantages): What are the <i>disadvantages</i> of using a modern contraceptive method? | | | | | | | | | |
| no cycle/ disrupted cycle | 9 | 0 | 18% | 0.003 | Doers are 12 times more likely to | | | | |
| | | | | | give this response than Non Doers | | | | |
| heavy bleeding | 8 | 15 | -20% | 0.027 | | NonDoers are 2.7 more | | | |
| | | | | | | likely to give this response | | | |
| | | | | | | than Doers | | | |
| 5. Perceived Social Norms: | | | | 1 | prove of you using a modern contrace | ptive method? | | | |
| yes | 47 | 31 | 20% | 0.008 | Doers are 5 times more likely to | | | | |
| | | | 150(| 0.010 | give this response than Non Doers | | | | |
| по | 1 | 7 | -15% | 0.016 | | NonDoers are 8.8 more | | | |
| | | | | | | likely to give this response than Doers | | | |
| 6 Derseived Secial Norms | Who are t | ha naani | o that ar | nrovo of | you using a modern contraceptive me | | | | |
| | 35 | 19 | 25% | 0.014 | Doers are 2.6 times more likely to | | | | |
| myself | 35 | 19 | 25% | 0.014 | give this response than Non Doers | | | | |
| nobody | 0 | 4 | -10% | 0.040 | Sive this response than non Doels | #DIV/0! | | | |
| | | | | | of you using a modern contraceptive | | | | |
| | | ne peop 6 | -12% | 0.033 | or you using a modern contraceptive | NonDoers are 7.4 more | | | |
| myself | 1 | Ø | -12% | 0.033 | | likely to give this response | | | |
| | | | | | | than Doers | | | |
| community/ enemies | 1 | 6 | -12% | 0.033 | | NonDoers are 7.4 more | | | |
| community/ chemico | ÷ | Ŭ | 12/0 | 0.000 | | likely to give this response | | | |
| | | | | | | than Doers | | | |
| 12. Perceived Action Effica contraceptive method? | cy: How lik | <i>ely</i> is it t | hat you v | would be | able to provide adequately for your cl | nildren if you used a modern | | | |
| very likely | 30 | 16 | 22% | 0.030 | Doers are 2.2 times more likely to | | | | |
| | | | | | give this response than Non Doers | | | | |
| don't know | 0 | 5 | -12% | 0.017 | | #DIV/0! | | | |
| | | | | | | | | | |

The doers felt that availability of the family planning methods and knowing that they are available free of cost made it easy for them to utilise a modern family planning method. Lack of knowledge on family planning and unavailability of these family planning methods made it difficult for the non-doers to embrace family planning methods. The doers cited periodic stock-outs as making it difficult for them to use modern family planning methods. The doers were 8 times more likely to cite that family planning was key in preventing unwanted pregnancies; a positive consequence that would be useful for influencing non-doers to adopt this behaviour. Both doers and non-doers expressed concerns around side effects including disruption of the menstrual cycle and heavy bleeding. Efforts to sensitize

the mothers on any side effects during counselling would be critical in clearing out these concerns and enabling mothers to make informed choices of what methods to adopt. A significant proportion of the doers felt that they themselves approve of family planning, which is reflective that women themselves have the choices to adopt any of the methods without necessarily seeking approval from anyone. The doers felt that they were more likely to provide for their families considering that they were using a modern family planning method. This can be useful to reinforce among the non-Doers

4.2 Sinoe

| | | Barri | er Analys | sis Tabula | ation Sheet | |
|-----------------------------------|-----------------------|---------------------|--|---------------|---|---------------------------|
| Women of child bearing age (15 | | | | - | pregnant use a modern contrac emergency contraception) | eptive method ((Implants, |
| | 52 | le pills, ba | | onuom, e | | |
| Total Doers | 48 | | | | | Sinoe |
| Total NonDoers | | | 1 | 1 | I | |
| Determinants | Doers: | Non- | Diff. | p- | Relative Risk Ratio: Doers | Relative Risk Ratio: Non- |
| | +Exp. (A) | doers: +Exp. | DIIT. | value | are | Doers are |
| 1. Perceived Self-Efficacy: What | | • | l I I I I I I I I I I I I I I I I I I I | l e a mode | rn contracentive method? | |
| | 18 | 7 | | | Doers are 2.7 times more | |
| Access/Living close to the clinic | 18 | / | 20% | 0.018 | likely to give this response | |
| | | | | | than Non Doers | |
| Having knowledge on the | 14 | 3 | 21% | 0.005 | Doers are 4.1 times more | |
| importance of FP | | | 21/0 | 0.000 | likely to give this response | |
| | | | | | than Non Doers | |
| 2. Perceived Self-Efficacy: What | makes it d | <i>ifficult</i> for | you to u | ise a moc | lern contraceptive method? | |
| Absence of HWs to | 6 | 0 | 12% | 0.017 | Doers are 11.2 times more | |
| administer/advice on FP | | | | | likely to give this response | |
| | | | | | than Non Doers | |
| Lack of time to go to the HF | 1 | 7 | -13% | 0.023 | | NonDoers are 7.8 more |
| | | | | | | likely to give this |
| | | | | | | response than Doers |
| 3. Positive consequences (Advan | tages): Wh | hat are the | e advanto | ages of u | sing a modern contraceptive m | ethod? |
| Makes women look good | 9 | 2 | 13% | 0.035 | Doers are 3.6 times more | |
| | | | | | likely to give this response | |
| | | | | | than Non Doers | |
| Stops getting pregnant once | 0 | 6 | -13% | 0.010 | | #DIV/0! |
| finished with child birth | | | | | | |
| 6. Perceived Social Norms: Who | are the pe | ople that | approve | of you us | ing a modern contraceptive me | ethod? |
| Parents/mother-father in-law | 42 | 21 | 37% | 0.000 | Doers are 4.7 times more | |
| | | | | | likely to give this response | |
| | | | | | than Non Doers | |
| 8. Perceived Access : How difficu | <i>It is it</i> to ge | et a mode | rn contra | aceptive I | method? | |
| very difficult | 4 | 14 | -21% | 0.005 | | NonDoers are 4.4 more |
| | | | | | | likely to give this |
| | | | | | | response than Doers |
| not difficult at all | 37 | 25 | 19% | 0.039 | Doers are 2.1 times more | |
| | | | | | likely to give this response | |
| | | | | | than Non Doers | |

In Sinoe, the doers were 4.1 times more likely to indicate that knowledge about family planning made it easy for the doers to use a modern method of family planning. The doers were 11.2 times more

likely to say that absence of health workers made it difficult for them to use a modern method of family planning. With regards to the people who approve, the doers were 4.7 times more likely to indicate that it is the parents in law which is an important aspect that can be utilised when promoting modern family planning methods. The non-doers were 4.4 times more likely to mention that it was very difficult for them to access a modern contraceptive method while the doers were 2.1 times more likely to indicate that it was not difficult at all. This shows that the doers have found a way to access the modern FP methods; they can be used to motivate the non-doers showing them how they managed to access modern contraceptive with ease.

4.3 Grand Bassa

| | | Barr | ier Analy | vsis Tabul | ation Sheet | |
|---|--------------------|-----------------|------------|------------------|---|---|
| | | | | | pregnant use a modern contrace | eptive method ((Implants, |
| Total Doers | 49 | pills, barr | ier le col | ndom, en | nergency contraception) | |
| Total NonDoers | 49 | | | | Grand Bassa | |
| Total NonDoers | Doers: | Non- | | | | |
| Determinants | +Exp. (A) | doers: +Exp. | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 1. Perceived Self-Efficacy: What | | | ou to us | e a mode | n contraceptive method? | |
| | | | 20% | 0.035 | Doers are 2.1 times more | |
| Having knowledge on the importance of FP | 26 | 15 | | | likely to give this response than Non Doers | |
| If easy to take | 9 | 0 | 18% | 0.002 | Doers are 12 times more likely to give this response | |
| administer/take/swallow | 9 | 0 | | | than Non Doers | |
| 2. Perceived Self-Efficacy: What | makes it <i>di</i> | fficult for | you to u | se a mod | ern contraceptive method? | |
| Unavailability of FP at the clinic/in the community | 15 | 24 | -22% | 0.027 | | NonDoers are 2.3 more likely to give this |
| chine, in the community | | | | | | response than Doers |
| Nothing | 11 | 3 | 16% | 0.027 | Doers are 3.3 times more likely to give this response | |
| Nothing | 11 | 5 | | | than Non Doers | |
| 3. Positive Consequences (Advan | tages): Wł | hat are the | e advant | ages of u | sing a modern contraceptive me | thod? |
| Helps avoid (early/unplanned) | | | 20% | 0.041 | Doers are 2.1 times more | |
| unwanted pregnancies | 30 | 19 | | | likely to give this response than Non Doers | |
| II-las familians dass | | | 12% | 0.036 | Doers are 4.8 times more | |
| Helps family reduce expenditure/ make savings | 7 | 1 | | | likely to give this response | |
| experiance in the savings | | | | | than Non Doers | |
| Stops getting pregnant once | 10 | 2 | 16% | 0.018 | Doers are 4.1 times more | |
| finished with child birth | 10 | 2 | | | likely to give this response than Non Doers | |
| 5. Perceived Social Norms: Do m | ost of the p | beople yo | u know a | ipprove c | | tive method? |
| | | - | 25% | 0.005 | Doers are 3.8 times more | |
| Yes | 43 | 29 | | | likely to give this response | |
| | | | | | than Non Doers | |
| No | 0 | 5 | -11% | 0.024 | | #DIV/0! |
| 7. Perceived Social Norms: Who | are the pe | ople that | disappro | <i>ve</i> of you | using a modern contraceptive i | method? |

| Parents (mother, father) | | | -18% | 0.027 | | NonDoers are 2.9 more |
|---|-----------------------|------------------|---------------------|--------------------------------------|---|--|
| /Grandparents | 6 | 14 | | | | likely to give this |
| · · · · | | | | | | response than Doers |
| 8. Perceived Access: How difficu | <i>It is it</i> to ge | t a moder | | ceptive n | | |
| | | | 19% | 0.039 | Doers are 2.2 times more | |
| not difficult at all | 38 | 27 | | | likely to give this response | |
| | | | | | than Non Doers | |
| 9. Perceived Cues for Action/ Re | eminders: H | ow difficu | ılt is it <i>to</i> | rememb | er how to use a modern contra | ceptive method? |
| very difficult | 0 | 5 | -11% | 0.024 | | #DIV/0! |
| | | | -18% | 0.023 | | NonDoers are 3.2 more |
| somewhat difficult | 5 | 13 | | | | likely to give this |
| | | | | | | response than Doers |
| | | | 29% | 0.001 | Doers are 4.5 times more | |
| not difficult at all | 43 | 27 | | | likely to give this response | |
| | | | | | than Non Doers | |
| for your children? | | | -24% | 0.016 | | NonDoers are 2.5 more |
| | | | -24% | 0.016 | | |
| somewhat likely | 14 | 14 24 | | | | likely to give this |
| | | | | | | |
| | | | | | | response than Doers |
| 12. Perceived Action Efficacy: H contraceptive method? | ow likely is i | t that you | u would b | e able to | provide adequately for your ch | response than Doers |
| | ow likely is i | t that you | would b | oe able to 0.008 | provide adequately for your ch Doers are 2.9 times more | response than Doers |
| | ow likely is i | t that you 24 | | 1 | | response than Doers |
| contraceptive method? | | | | 1 | Doers are 2.9 times more | response than Doers |
| contraceptive method? | | | | 1 | Doers are 2.9 times more likely to give this response | response than Doers |
| contraceptive method? | | | 25% | 0.008 | Doers are 2.9 times more likely to give this response | response than Doers hildren if you used a modern |
| contraceptive method? | 38 | 24 | 25% | 0.008 | Doers are 2.9 times more likely to give this response | response than Doers hildren if you used a modern NonDoers are 4.8 more |
| contraceptive method? | 38 | 24 | 25% | 0.008 | Doers are 2.9 times more likely to give this response | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this |
| contraceptive method? | 38 | 24 | 25% | 0.008 | Doers are 2.9 times more likely to give this response than Non Doers | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this |
| contraceptive method? very likely somewhat likely | 38 | 24 | 25% | 0.008 | Doers are 2.9 times more likely to give this response than Non Doers Doers are 11 times more | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this |
| contraceptive method? very likely somewhat likely | 38 6 5 | 24 20 0 | 25% -31% 10% | 0.008 0.001 0.033 | Doers are 2.9 times more likely to give this response than Non Doers Doers are 11 times more likely to give this response than Non Doers | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this |
| contraceptive method? very likely somewhat likely not likely at all | 38 6 5 | 24 20 0 | 25% -31% 10% | 0.008 0.001 0.033 | Doers are 2.9 times more likely to give this response than Non Doers Doers are 11 times more likely to give this response than Non Doers | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this |
| contraceptive method? very likely somewhat likely not likely at all | 38 6 5 | 24 20 0 | 25% -31% 10% | 0.008 0.001 0.033 dern cont | Doers are 2.9 times more likely to give this response than Non Doers Doers are 11 times more likely to give this response than Non Doers | response than Doers hildren if you used a modern NonDoers are 4.8 more likely to give this response than Doers |

The doers were 2.1 times more likely to mention that having appropriate knowledge around use of family planning made it easy for them to adopt a modern method of family planning. They were also more likely to indicate that nothing made it difficult for them to use a modern family planning method unlike the non-Doers. On the other hand, the non-doers indicated that unavailability of the modern methods at the community level made it difficult for them to use them. This illustrates the need to ensure that the non-doers are equipped with the necessary knowledge around family planning and that the different forms are availed to the majority of the community. The non-doers also felt that they were somewhat likely to provide adequately to their families if they used a modern method of family planning. The relationship between family planning, smaller families and the ability of households to provide adequately to all family members will be essential in ensuring that the non-doers see the benefits of modern family planning.

5. Latrine Use

5.1 Grand Cape Mount

| Barrier Analysis Tabulation Sheet | | | | | | | | | | |
|--|--|--------------------------------|------------|---------------|---|---|--|--|--|--|
| Careg | Caregivers of children under 5 years use latrines every time they need to defecate | | | | | | | | | |
| Total Doers | 49 | | | | | Grand Cape Mount | | | | |
| Total NonDoers | 50 | | | | | Grand cape Mount | | | | |
| Determinants | Doers: +Exp. (A) | Non- doers: +Exp. (B) | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are | | | | |
| 1. Perceived Self-Efficacy: With your <i>present knowledge, resources, and skills</i> , do you think that you could use a latrine every time you need to defecate (<i>toilet</i>)? | | | | | | | | | | |
| Yes | 48 | 37 | 24% | 0.000 | Doers are 14.8 times more likely to give this response than Non Doers | | | | | |
| 2. Perceived Self efficacy: What | at <i>makes it</i> | easy for | you to use | e a latrine e | every time you need to defecate | e (toilet) | | | | |
| water is available | 23 | 10 | 27% | 0.004 | Doers are 3 times more likely to give this response than Non Doers | | | | | |
| latrine is clean | 15 | 7 | 17% | 0.040 | Doers are 2.4 times more likely to give this response than Non Doers | | | | | |
| own their own latrine | 11 | 1 | 20% | 0.002 | Doers are 6.9 times more likely to give this response than Non Doers | | | | | |
| 3. Perceived Self-Efficacy: What | at <i>makes it</i> | <i>difficult</i> f | or you to | use a latrir | ne every time you need to defea | cate (toilet)? | | | | |
| latrine not available | 7 | 15 | -16% | 0.050 | | NonDoers are 2.4 more likely to give this response than Doers | | | | |
| latrine is far | 6 | 14 | -16% | 0.044 | | NonDoers are 2.6 more likely to give this response than Doers | | | | |
| water unavailable | 15 | 5 | 21% | 0.010 | Doers are 3.2 times more likely to give this response than Non Doers | | | | | |
| 4. Perceived positive conseque | ence: Wha | t are the | advantag | es/ benefit | s of using a latrine every time y | ou need to defecate (toilet)? | | | | |
| prevent disease | 27 | 13 | 29% | 0.003 | Doers are 3 times more likely to give this response than Non Doers | | | | | |
| 5. Perceived Negative Conseq | uence: Wh | at are the | disadvan | tages of us | sing a latrine every time you ne | ed to defecate (toilet)? | | | | |
| requires more water | 10 | 3 | 14% | 0.033 | Doers are 3.2 times more likely to give this response than Non Doers | | | | | |
| left dirty | 0 | 5 | -10% | 0.030 | | #DIV/0! | | | | |
| 9. Perceived Access: How diffi | <i>cult is it</i> to | for you to | o access a | latrine eve | ry time you need to defecate (t | coilet)? | | | | |
| very difficult | 3 | 24 | -42% | 0.000 | · · · · · · · · · · · · · · · · · · · | NonDoers are 12 more likely to give this response than Doers | | | | |

| not difficult at all | 31 | 12 | 39% | 0.000 | Doers are 4.4 times more likely to give this response than Non Doers | | | | |
|---|---------------------|--------------|-------------|-------------|--|---|--|--|--|
| 10. Perceived cues for action/reminders: How difficult is it to remember to use a latrine every time you need to defecate (toilet)? | | | | | | | | | |
| very difficult | 1 | 8 | -14% | 0.017 | | NonDoers are 8.2 more likely to give this response than Doers | | | |
| 11. Perceived Susceptibility: H | ow <i>likely</i> is | s it that yo | our child c | ould suffer | from a diarrhoea disease in th | ne next few days? | | | |
| very likely | 3 | 13 | -20% | 0.007 | | NonDoers are 4.8 more likely to give this response than Doers | | | |
| not likely at all | 25 | 10 | 31% | 0.001 | Doers are 3.5 times more likely to give this response than Non Doers | | | | |
| 12. Perceived Severity: How s | erious wou | ıld it be if | your child | l would sut | ffer from a diarrhoea disease? | | | | |
| very serious | 14 | 31 | -33% | 0.001 | | NonDoers are 3.5 more likely to give this response than Doers | | | |
| not serious at all | 16 | 3 | 27% | 0.001 | Doers are 5.1 times more likely to give this response than Non Doers | | | | |

Doers were 14.8 times more likely to indicate that they had enough knowledge, skills and resources to enable them to use a latrine every time they needed. The non-doers on the other hand seemed to lack this confidence to use a latrine. Doers felt that having their own clean latrine and easy access to water made it easy for them to use it every time they needed to defecate. The non-doers perceived that lack of the latrines or distance to the latrine would make it difficult for them. Lack of water necessary for cleaning and flushing cited by the non-doers as what made it difficult for them. The doers were 4.4 times more likely to indicate that it was not difficult at all to access a latrine while the non-doers were 12 times more likely to say that it was very difficult. When asked about the cues for action the non-doers were 8.2 times more likely to indicate that it was very difficult for them to remember to use a latrine every time they needed to defecate. On susceptibility to diarrhoea, the doers were 3.5 times more likely to say that it was not likely at all for their children to suffer from diarrhoea while the non-doers were 4.8 times more likely to say that it was very likely for their children to experience diarrhoea, which could be true for both groups owing to their behaviour. The relationship between diarrhoea and use of latrines is well understood among both groups.

| Barrier Analysis Tabulation Sheet | | | | | | | | |
|--|----------------|-------------------------|------------|-------------|-----------------------------------|--|--|--|
| Caregivers of children under 5 years use latrines every time they need too defecate | | | | | | | | |
| Total Doers | 49 | | | | | Since | | |
| Total NonDoers | 51 | Sinoe | | | | | | |
| Determinants | Doers +Exp. | Non- doers: +Exp. | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are | | |
| 2.Perceived Self-Efficacy What m | akes it e | <i>asy</i> for γοι | ı to use a | latrine ev | very time you need to defecate (| 'toilet) | | |
| Latrine available/ being at home all time/close to my house4050-16%0.007NonDoers are 6 more likely to give this response than Doers | | | | | | | | |

| | | | | | Deere and 11.2 times means | |
|---|---------------------|---------------------------------------|------------|----------------|---|--|
| Having knowledge on the | 6 | 0 | 1.20/ | 0.012 | Doers are 11.3 times more | |
| importance | O | 0 | 12% | 0.012 | likely to give this response than Non Doers | |
| | | | | | Doers are 11.5 times more | |
| Privacy/Feeling of safety | 7 | 0 | 14% | 0.005 | likely to give this response | |
| Filvacy/reening of sajety | , | Ū | 1470 | 0.005 | than Non Doers | |
| 4. Positive consequence (Advanta (toilet)? | ges): Wh | at are the | advanta | ges/bene | | you need to defecate |
| | | | | | | NonDoers are 4.5 more |
| Reduces flies/prevents from | 35 | 48 | -23% | 0.002 | | likely to give this respons |
| sickness ie Diarrhoea | | | | | | than Doers |
| No bad odour in the | _ | | | | | we wanted |
| environment/surrounding | 0 | 12 | -24% | 0.000 | | #DIV/0! |
| 5. Negative consequence (Disadva | I antages): | What are t | he disad | vantaaes | n of using a latrine every time you | need to defecate (toilet)? |
| | | | | . antages | e. asing a latinic_every time you | NonDoers are 3.2 more |
| Need for water for flushing or | 4 | 12 | -15% | 0.033 | | likely to give this response |
| cleaning all the time | - | 12 | 1370 | 0.035 | | than Doers |
| | | | | | Doers are 11.8 times more | |
| Plenty of insects/flies in the | 8 | 0 | 16% | 0.002 | likely to give this response | |
| urroundings | Ŭ | 10/0 | 0.002 | than Non Doers | | |
| | | | | | Doers are 11.5 times more | |
| Need to walk long distance to | 7 | 0 | 14% | 0.005 | likely to give this response | |
| the shared latrines | | , , , , , , , , , , , , , , , , , , , | | | than Non Doers | |
| 7. Perceived Social Norms: Who a | re the pe | ople who | approve | of vou usi | | to defecate <i>(toilet</i>)? |
| | | | | , | | NonDoers are 10.4 more |
| My children | 1 | 10 | -18% | 0.005 | | likely to give this response |
| | | | | | | than Doers |
| 9. Perceived Access: How difficult | t <i>is it</i> to f | or vou to a | ccess a la | atrine eve | ry time you need to defecate <i>(t</i> | |
| very difficult | 0 | 10 | -20% | 0.001 | | #DIV/0! |
| 10. Perceived Cues for Action/ Re | | | | | er to uso a latrino ovory timo vo | |
| 10. Perceived cdes for Action/ Re | linnuers. | | | | | |
| not difficult at all | 42 | 20 | 170/ | 0.020 | Doers are 2.7 times more | |
| | 43 | 36 | 17% | 0.030 | likely to give this response than Non Doers | |
| 11. Perceived Susceptibility: How | likoly is it | t that your | child cou | uld suffer | | Level few days? |
| TT. Terceived Susceptibility. How | | t that your | | | | |
| somewhat likely | 13 | 26 | -24% | 0.010 | | NonDoers are 2.6 more likely to give this respons |
| Somewhat likely | 13 | 20 | -2470 | 0.010 | | than Doers |
| | | | | | Doers are 3.6 times more | |
| not likely at all | 29 | 13 | 34% | 0.001 | likely to give this response | |
| not likely at all | 29 | 12 | 5470 | 0.001 | than Non Doers | |
| | | | | 1 | | <u> </u> |
| 15. Policy: Are there any commun time you need to defecate (toilet) | - | <i>or rules</i> in | place tha | it you kno | w of that make it more likely the | at you will use a latrine ever |
| | | | 1 | | | NonDoers are 4.2 more |
| | | | 1 | 1 | 1 | Nonvoers are 4.2 more |

| | | | | | NonDoers are 4.2 more |
|----|----|----|------|-------|------------------------------|
| No | 36 | 48 | -21% | 0.005 | likely to give this response |
| | | | | | than Doers |

The non-doers were 6 times more likely to say that availability of the latrines would make it easier for them to use. They also mentioned that closeness of the latrine to their house would make it easy for them to use it every time they needed to use it. The doers on the other hand were 11.3 times more likely to indicate that having knowledge on the importance of latrine use and the fact that the latrines offered them a sense of safety made it easy for them to use the latrines. The doers were 4.5 times more likely to mention reduction of flies and diseases as the positive consequence of use of latrines. This perception needs to be increased to ensure that the non-doers see this as something to motivate

them embrace this behaviour. The non-doers were 3.2 times more likely to cite the need for water for flushing and the regular cleaning as the negative consequence of using the latrines, which possibly made them prefer going to the bush. The doers felt that the children were not likely to suffer from diarrhoea possibly due to their hygiene practices while the non-doers were 2.6 times more likely to say that they were somewhat likely. This reflects that there is some understanding on the link between latrine use and the incidence of diarrhoea, which could be reinforced to influence more non-doers to embrace use of latrines.

5.3 Grand Bassa

| | | Barrie | er Analys | sis Tabulati | on Sheet | | | | | |
|---|----------------------|-------------------------|------------|---------------|--|--|--|--|--|--|
| Caregivers | of childre | n under 5 | years u | se latrines | every time they need to defeca | te | | | | |
| Total Doers | 47 | Crand Breeze | | | | | | | | |
| Total NonDoers | 47 | | | | Grand Bassa | | | | | |
| Determinants | Doers: +Exp. | Non- doers: +Exp. | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are | | | | |
| 1. Perceived Self- Efficacy : With your <i>present knowledge, resources, and skills,</i> do you think that you could use a latrine every time you need to defecate (<i>toilet</i>)? | | | | | | | | | | |
| Yes | 46 | 38 | 17% | 0.008 | Doers are 9.7 times more likely to give this response than Non Doers | | | | | |
| 2. Perceived Self- Efficacy : What m | akes it ea | sy for you | to use a | latrine eve | ery time you need to defecate (| toilet) | | | | |
| Availability of water | 22 | 11 | 23% | 0.015 | Doers are 2.5 times more likely to give this response than Non Doers | | | | | |
| If its provided/donated to me | 0 | 7 | -15% | 0.006 | | #DIV/0! | | | | |
| 3. Perceived Self- Efficacy : What m | akes it di <u>f</u> | <i>ficult</i> for y | ou to us | e a latrine | every time you need to defecat | te (toilet)? | | | | |
| Unavailability of water to flush/clean | 16 | 5 | 23% | 0.006 | Doers are 3.5 times more likely to give this response than Non Doers | | | | | |
| Toilet is unavailable | 0 | 15 | -32% | 0.000 | | #DIV/0! | | | | |
| 4. Positive consequences (Advantage (toilet)? | ges): What | are the a | dvantag | ies/ benefit | s of using a latrine every time y | ou need to defecate | | | | |
| No bad odour in the environment/surrounding | 7 | 17 | -21% | 0.016 | | NonDoers are 2.9 more likely to give this response than Doers | | | | |
| 9. Perceived Access: How difficult i | <i>s it</i> to for | you to acc | ess a lat | rine every | time you need to defecate (toil | et)? | | | | |
| very difficult | 0 | 22 | -47% | 0.000 | | #DIV/0! | | | | |
| not difficult at all | 34 | 11 | 49% | 0.000 | Doers are 6.6 times more likely to give this response than Non Doers | | | | | |
| 10. Perceived Cues for Action/ Rem | inders: Ho | w difficul | t is it to | remember | to use a latrine every time you | need to defecate (toilet)? | | | | |
| not difficult at all | 43 | 35 | 17% | 0.026 | Doers are 3.4 times more likely to give this response than Non Doers | | | | | |
| 11. Perceived Susceptibility: How li | <i>ikely</i> is it t | hat your c | hild cou | ld suffer fro | om a diarrhoea disease in the r | next few days? | | | | |
| very likely | 1 | 12 | -23% | 0.001 | | NonDoers are 13.9 more likely to give this response than Doers | | | | |

| not likely at all | 31 | 12 | 40% | 0.000 | Doers are 4.6 times more likely to give this response than Non Doers | | | | | |
|--|---|-----------|------------|-------------|--|---|--|--|--|--|
| 13. Perceived Action Efficacy: How need to defecate (toilet) | 13. Perceived Action Efficacy: How <i>likely</i> is it that your child would suffer from diarrhoea if you did not use a latrine every time you need to defecate <i>(toilet)</i> | | | | | | | | | |
| very likely | 41 | 32 | 19% | 0.023 | Doers are 2.9 times more likely to give this response than Non Doers | | | | | |
| somewhat likely | 4 | 14 | -21% | 0.008 | | NonDoers are 4.1 more likely to give this response than Doers | | | | |
| 14. Divine will: Do you think that Go | od approv | es of you | using a la | atrine ever | y time you need to defecate (to | oilet)? | | | | |
| Yes | 34 | 42 | -17% | 0.032 | | NonDoers are 2.7 more likely to give this response than Doers | | | | |
| No | 11 | 3 | 17% | 0.020 | Doers are 3.5 times more likely to give this response than Non Doers | | | | | |

Doers were 9.7 times more likely to indicate that they had enough knowledge skills and resources to use a latrine while the non-doers had limited knowledge and resources on this. Efforts to equip them with this are thus necessary to support them embrace this behaviour. The doers were also 2.5 times more likely to mention that the availability of water made it easy for them to use a latrine. When asked about what made it difficult, the doers were 3.5 time more likely to point out that unavailability of water, made it difficult for the them to use a latrine every time they needed to. This shows that indeed water is a key factor to the use of latrine that would need to be taken into account in the promotion of CLTS. The non-doers were 2.9 times more likely to say that one of the benefits of using a latrine was that it led to a clean environment unlike the case with open defecation; reinforcing this perception would ensure that more non-doers adopt this behaviour. The doers were 3.4 times more likely to indicate that accessing the latrines was not difficult at all while a significant number of non-doers indicated that it was very difficult.

6. Water Storage

6.1 Rivercess

| Barrier Analysis Tabulation Sheet | | | | | | | | | |
|--|-------------------|--|-----------|------------|---------------------------------|---------------------------|--|--|--|
| Caregivers of children under 5 years store drinking water in a clean, covered narrow mouth container | | | | | | | | | |
| Total Doers | 49 | | Diverses | | | | | | |
| Total NonDoers | 48 | | | | Rivercess | | | | |
| | Doers: | Non- | | | Relative Risk Ratio: Doers | Relative Risk Ratio: Non- | | | |
| Determinants | +Exp. | doers: | Diff. | p-value | | Doers are | | | |
| | (A) | +Exp definition definition are Doers are | | | | | | | |
| 2. Perceived Self- Efficacy : What | t <i>makes it</i> | <i>easy</i> for y | ou to sto | e drinking | water in a clean, covered narro | w mouth container | | | |
| Having knowledge about | | | | | Doers are 5.7 times more | | | | |
| Having knowledge about water safety | 31 | 9 | 45% | 0.000 | likely to give this response | | | | |
| water sajety | | | | | than Non Doers | | | | |
| Availability of soan to clean | | Doers are 3.4 times more | | | | | | | |
| Availability of soap to clean gallon | 8 | 2 | 12% | 0.049 | likely to give this response | | | | |
| gunon | | | | | than Non Doers | | | | |

| Water source being close to home | 20 | 9 | 22% | 0.015 | Doers are 2.6 times more likely to give this response than Non Doers | |
|---|-----------------------|---------------------|-------------------|--------------|--|---|
| 3. Perceived Self- Efficacy: What | makes it a | <i>difficult</i> fo | or you to s | tore drinki | ng water in a clean, covered na | rrow mouth container? |
| lf container is unavailable | 16 | 27 | -24% | 0.016 | | NonDoers are 2.4 more likely to give this response than Doers |
| Its time consuming-queuing at the hand pump for water | 14 | 2 | 24% | 0.001 | Doers are 5.7 times more likely to give this response than Non Doers | |
| Long distance to the water source-prefer large volume buckets | 13 | 5 | 16% | 0.036 | Doers are 2.6 times more likely to give this response than Non Doers | |
| Problems with pump-locked, unavailable, on-functional, dry | 20 | 11 | 18% | 0.047 | Doers are 2.1 times more likely to give this response than Non Doers | |
| 4. Positive consequences (Advar mouth container | ntages): W | hat are th | e advanto | iges/bene | fits of storing drinking water in | a clean, covered narrow |
| Prevents diarrhoea/keeps children healthy | 31 | 40 | -20% | 0.022 | | NonDoers are 2.5 more likely to give this response than Doers |
| Avoids water contamination/ensures safe clean water | 18 | 9 | 18% | 0.040 | Doers are 2.2 times more likely to give this response than Non Doers | |
| Keeps family free from diseases | 8 | 1 | 14% | 0.017 | Doers are 5.4 times more likely to give this response than Non Doers | |
| 5. Negative consequences (Disamouth container? | dvantages) | : What ar | e the disa | dvantages | s of storing drinking water in a c | lean, covered narrow |
| Time consuming | 13 | 5 | 16% | 0.036 | Doers are 2.6 times more likely to give this response than Non Doers | |
| 7. Perceived Social Norms: Who container? | are the pe | ople who | approve | of you stor | ing drinking water in a clean, co | overed narrow mouth |
| Parents/mother-father in-law | 21 | 31 | -22% | 0.026 | | NonDoers are 2.2 more likely to give this response than Doers |
| 9. Perceived Access: How diffice | <i>ult</i> is it to a | iccess or <u>a</u> | <i>get</i> a cove | red narrov | v mouth container to store drin | king water. |
| very difficult | 9 | 24 | -32% | 0.001 | | NonDoers are 3.9 more likely to give this response than Doers |
| not difficult at all | 20 | 8 | 24% | 0.008 | Doers are 2.9 times more likely to give this response than Non Doers | |
| 11. Perceived Susceptibility: How | w likely is i | t that you | r child cou | uld suffer f | rom a diarrhoea disease in the | e next few days |
| very likely | 0 | 11 | -23% | 0.000 | | #DIV/0! |
| not likely at all | 37 | 20 | 34% | 0.001 | Doers are 3.8 times more likely to give this response than Non Doers | |

The doers were 5.7 times more likely to say that having the knowledge about water safety made it easier to practice the behaviour and mentioned that the closeness of the water source made it easier for them to re-fill the gallon as and when needed. The non-doers were 2.4 times more likely to cite the unavailability of the narrow mouth container as the barrier to appropriate water storage with the

doers indicating that for them the effort to store water in such a container was time consuming considering they could only use the hand pump where long queues were a normal occurrence. The non-functionality of the hand-pump and the long distance from home made it equally difficult for the doers to store water in a clean narrow mouth container. Both the doers and non-doers indicated some of the positive consequences including avoiding water contamination, preventing diarrhoea and keeping the family safe. These aspects could be incorporated into the water storage messaging. With respect to people who approve this practice, the doers were 2.2 times more likely to indicate that the parents including the in-laws would approve this practice hence an audience that could also be engaged in the messaging.

6.2 Montserrado

| | | Bar | rier Anal | ysis Tabula | tion Sheet | |
|--|------------------------|------------------------|------------|--------------|---|---|
| Caregivers of chil | ldren under | r 5 years st | ore drin | king water | in a clean, covered, narrow mo | outh container. |
| Total Doers | 51 | | | | | Montserrado |
| Total NonDoers | 49 | | 1 | 1 | | |
| Determinants | Doers: +Exp. (A) | NonDo ers: +Exp. | Diff. | p-value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 2. What makes it easy for you | to store dr | inking wat | er in a cl | ean, cover | ed narrow mouth container | |
| proximity of pump | 21 | 10 | 21% | 0.021 | Doers are 2.4 times more likely to give this response than Non Doers | |
| knowledge | 19 | 1 | 35% | 0.000 | Doers are 10.1 times more likely to give this response than Non Doers | |
| money to buy container/ soap | 7 | 20 | -27% | 0.002 | | NonDoers are 3.9 more likely to give this response than Doers |
| support from others in the community | 5 | 0 | 10% | 0.031 | Doers are 11 times more likely to give this response than Non Doers | |
| 4. What are the <i>advantages/</i> | benefits of | storing dri | nking wa | ter in a cle | an, covered narrow mouth cor | ntainer |
| healthy children | 3 | 16 | -27% | 0.001 | | NonDoers are 6.8 more likely to give this response than Doers |
| 7. Who are the people who ap | oprove of yo | ou storing | drinking | water in a | clean, covered narrow mouth o | container? |
| other relatives | 26 | 16 | 18% | 0.049 | Doers are 2 times more likely to give this response than Non Doers | |
| 10. How difficult is it to remen | nber to stoi | re drinking | water ir | n a clean, c | overed narrow mouth containe | er |
| very difficult | 1 | 6 | -10% | 0.050 | | NonDoers are 6.3 more likely to give this response than Doers |
| not difficult at all | 36 | 24 | 22% | 0.022 | Doers are 2.3 times more likely to give this response than Non Doers | |
| 11. How <i>likely</i> is it that your cl | hild could s | uffer from | a diarrh | ioea diseas | e in the next few days | Γ |
| somewhat likely | 14 | 25 | -24% | 0.013 | | NonDoers are 2.5 more likely to give this response than Doers |

| not likely at all | 29 | 16 | 24% | 0.013 | Doers are 2.4 times more likely to give this response than Non Doers | |
|--------------------------------|--------------|------------|-----------|-----------|--|---|
| 12. How serious would it be if | your child v | would suff | er from a | diarrhoea | disease? | |
| very serious | 16 | 31 | -32% | 0.001 | | NonDoers are 3.3 more likely to give this response than Doers |
| not serious at all | 19 | 7 | 23% | 0.008 | Doers are 3 times more likely to give this response than Non Doers | |

The doers were 10.1 times more likely to mention that having knowledge around safe water storage made it easier for them to store water safely, the non-doers were 3.9 times more likely to say that for them having money to buy the container is what would make it easier. Equipping the non-doers with the relevant information about water storage as well as seeking ways to increase access to these storage containers would make the adoption of this behaviour easier among the non-doer. The non-doers were 6.3 times more likely to say that it was very difficult to remember to store water in the recommended container while the doers were 2.3 times more likely to indicate that it was not difficult at all. They could be useful in arraying this perception among the non-doers in efforts to motivate them. Doers were 3 times more likely to say that it would not be serious at all if their children suffered from diarrhoea possibly since they felt that they were not at-risk considering they were already practicing the behaviour. The non-doers on the other hand were 3.3 times more likely to indicate that it would be very serious. This shows that there is sound understanding between both groups that diarrhoea is a serious condition.

| | | Ва | arrier Anal | ysis Tabul | ation Sheet | |
|--|------------------------|-----------------------|-------------|-------------|--|---|
| Caregivers of chil | dren unde | r 5 years s | store drin | king wate | r in a clean, covered, narrow mo | outh container. |
| Total Doers | 43 | | | | | Grand Cape Mount |
| Total NonDoers | 51 | | | | | Grand Cape Mount |
| Determinants | Doers: +Exp. (A) | Non Doers: +Exp | Diff. | p- value | Relative Risk Ratio: Doers are | Relative Risk Ratio: Non- Doers are |
| 2. Self-Efficacy: What makes it | easy for y | ou to stor | re drinking | g water in | a clean, covered narrow mouth | container |
| money for container | 0 | 12 | -24% | 0.000 | | #DIV/0! |
| 3. Self-Efficacy: What makes it | difficult f | or you to s | store drink | king wate | r in a clean, covered narrow mo | uth container? |
| sick/tired | 14 | 5 | 23% | 0.006 | Doers are 3.5 times more likely to give this response than Non Doers | |
| pump is dry/ broken | 9 | 2 | 17% | 0.012 | Doers are 4.4 times more likely to give this response than Non Doers | |
| gallon is not available | 7 | 19 | -21% | 0.020 | | NonDoers are 2.8 more likely to give this response than Doers |
| 4.Perceived Positive Conseque mouth container | ences: Wh | at are the | advantag | ges/benej | fits of storing drinking water in a | clean, covered narrow |
| healthy family | 16 | 9 | 20% | 0.028 | Doers are 2.4 times more likely to give this response than Non Doers | |

6.3 Grand Cape Mount

| narrow mouth container? | | | | | | |
|--|--------------------|--------------|----------------------------|----------------------------|----------------------------------|---|
| possible | 0 | 5 | -10% | 0.043 | | #DIV/0! |
| 7. Perceived Social Norms container? | : Who are the | people wł | no approve | e of you s | toring drinking water in a clean | , covered narrow mouth |
| | | | 9% | 0.040 | Doers are 10.9 times more | |
| local leader | 4 | 0 | | | likely to give this response | |
| | | | | | than Non Doers | |
| 9. Perceived Access: How | difficult is it to | access or | get a cov | ered narr | ow mouth container to store dr | inking water. |
| | | | 19% | 0.044 | Doers are 2.1 times more | |
| not difficult at all | 20 | 14 | | | likely to give this response | |
| | | | | | than Non Doers | |
| 10. Perceived Cues for Act | tion/Reminder | s: How dif | ficult is it | to remem | her to store drinking water in a | alaan anyarad narrayy |
| mouth container | | | , | to remem | | clean, covered harrow |
| mouth container | | | -20% | 0.040 | | NonDoers are 2.2 more |
| | 11 | 23 | 1 | I | | NonDoers are 2.2 more |
| | 11 | 23 | 1 | I | | |
| somewhat difficult | | | -20% | 0.040 | ffer from a diarrhoea disease? | NonDoers are 2.2 more likely to give this |
| somewhat difficult | | | -20% | 0.040 | | NonDoers are 2.2 more likely to give this |
| somewhat difficult 12. Perceived Severity: Ho | | | -20% your child | 0.040 would su | | NonDoers are 2.2 more likely to give this response than Doers NonDoers are 2.6 more |
| somewhat difficult 12. Perceived Severity: Ho | ow serious wou | ild it be if | -20% your child | 0.040 would su | | NonDoers are 2.2 more likely to give this response than Doers |
| somewhat difficult 12. Perceived Severity: Ho | ow serious wou | ild it be if | -20% your child | 0.040 would su | | NonDoers are 2.2 more likely to give this response than Doers NonDoers are 2.6 more likely to give this |
| somewhat difficult | ow serious wou | ild it be if | -20% your child -26% | 0.040 would su 0.012 | ffer from a diarrhoea disease? | NonDoers are 2.2 more likely to give this response than Doers NonDoers are 2.6 more likely to give this |

The non-doers were 2.8 times more likely to say that limited access to the gallon, the recommended storage container, made it difficult for them to store water safely. On the other hand, the doers were 2.1 times more likely to say that it was not difficult for them to access these containers. Comparing the perception between the two groups, it would be paramount to investigate indeed the ease of accessing these containers to support them embrace this behaviour. The doers were 10.9 times more likely to indicate that the local leaders approved the use of the narrow mouth container. This powerful resource can be used to motivate the non-doers to store their drinking water in a safe container. The doers were 2.1 times more likely to indicate that it would be somewhat serious if their children suffered from diarrhoea while non-doers were 2.6 times more likely to say that it would be very serious. This perception among the non-doers would need to be reinforced to ensure that this supports them to embrace this practice.

7. Conclusions and Recommendations

In Barrier analysis, the differences in responses between doers and non-doers are of interest when developing activities. The question is what barriers the non-doers face that doers were able to overcome. If both doers and non-doers experience the same barrier, then lowering this barrier is unlikely to turn a non-doer into a doer. Across the five (5) counties, there were few unique differences and as such the summary below cuts across the different areas that were found to be statistically significant for each behaviour.

7.1 Exclusive Breastfeeding

Conclusion

The main barriers non-doers experience when exclusively breastfeeding their children below six months included;

• Inadequate knowledge on EBF

- Difficulty in finding time for EBF
- Perceived poor maternal nutrition
- Perceived inadequate support available for the mothers to practice EBF.

The main enablers were that heath workers play an important role in encouraging mothers to practice EBF, other close relatives including aunties, uncles, brothers and sisters were perceived to be supportive.

Bridges to activities

- 1. Increase the knowledge that exclusive breastfeeding protects the child from common illness.
- 2. Increase the perception that mothers can still produce milk and practice EBF if they are hungry or do not eat enough food as their bodies will prioritise breastmilk production.
- 3. Increase the support that is available for mother to feed their children on breastmilk only for the first 6 months of life.
- 4. Increase the perception that spouses are supportive of mothers feeding their children on only breastmilk for the first 6 months of life.
- 5. Decrease the perception that it is difficult to find time to breastfeed exclusively and reinforce the fact that the time spent on EBF is worthwhile.

- Scale up of IYCF programming through proven approaches for example the mother-to-mother support groups, already in place in some of the communities, and utilising them for behaviour change and avenues for continued messaging around topics for example the importance of breastfeeding and arraying some of the perceptions around maternal nutrition. These groups should follow a specific model so that they can equitably reach as many beneficiary household as possible, provide a structure for a community health information system, and provide improved monitoring of Mothers and households
- 2. Explore <u>engaging health workers</u> to provide messaging around exclusive breastfeeding both at the health facility during one on one counselling sessions or at the community level with mixed groups during routine household visits. The interaction of the health workers with the caregivers more so during ANC is a suitable avenue to ensure that majority of them take advantage of this opportunity to reinforce messages around exclusive breastfeeding.
- 3. Develop educational material and mass messaging for behaviour change highlighting specific messages around the key barriers for example quality of diets, quality of breastmilk, benefits of breastfeeding, and how to manage time for EBF among others.
- 4. Explore a stronger involvement of men in child feeding with a focus on what men can do to support their wives when exclusive breastfeeding possibly through the "We Are One" sessions or establishment of father support groups. Consider developing specific messages targeting spouses who are evidently an important influencer.
- 5. Explore targeting of distant relatives and grandparents perceived as potential influencers. Develop specific messages for these groups that can be disseminated at different forums.
- 6. Provide talking points for service providers e.g. health workers and mother group facilitators to deliver accurate information during counselling or educational sessions.
- 7. Around the universal motivators, majority of both doers and non-doers when asked what they wanted most in life indicated providing education for the children, having money for other household needs and being able to build a house for their families. These could be used in the EBF messaging where the programs could promote EBF as the most cost-effective way to feed infants hence allowing the household to making savings that could otherwise be used in buying foods that are unsuitable for the infants and high medical bills as non-exclusively

breastfeeds infants are more likely to fall ill. The savings on household income could be used to meet these goals and desires. The desire for education can be linked around messaging that shows that EBF children are smarter, perform well in schools and are better placed to achieve their educational goals and leading a bright future after school. Some of the campaigns can reach out to successful people within the community who used to motivate the community around this behaviour.

7.2 Dietary Diversity

Conclusion

The significant determinants across the 3 counties are lack of money making it hard for households to provide diversified diets for the children, lack of support from spouses, the feeling that the households spent too much money in purchasing different food varieties and the fear of children being upset when certain foods are unavailable. Doers believe that their children are less susceptible to malnutrition.

Bridges to activities

- 1. Increase the ability of households to produce diverse foods for home consumption.
- 2. Increase the perception that spouses are supportive of mothers feeding their children foods from at least 4 of the 7 food groups.
- 3. Increase the perception that malnutrition is a serious condition that can be prevented through feeding children a diverse diet.
- 4. Decrease the perception that feeding children foods from at-least 4 of the 7 food groups is expensive.
- 5. Increase awareness that investing in diverse diets is saving costs in other areas for example health care/ medication.

- 1. Promote home gardening for home consumption and sale of surplus to enable families purchase other foods.
- 2. Increase the participation of men in childcare so that women have enough time to prepare and feed diverse meals to their children: organise group discussions with husbands to discuss the importance of feeding children foods from different food groups. Explore incorporating this in the gender transformation fora.
- 3. Communicate to members of Community Savings and Loans Association (CSLA) the importance to invest in dietary diversity especially for children and women.
- 4. Identify locally available nutritious foods that are in season and support the development of recipes to be promoted during participatory cooking sessions to the wider community.
- 5. Build the capacity of health workers including the community health assistants on child feeding including provision of accurate information on dietary diversity.
- 6. Develop Information, Education, Communication (IEC) materials on the messages mentioned above (recommendation 1 to 4).
- 7. Starting a business, providing education for children and having money to meet household needs were cited as what most doers and non-doers desired most in life. These desires could be tied to the messaging around dietary diversity linking diversity to better health and wellbeing for children and households at large with reduced expenditure on medication and health. The savings on medication would be used to meet these desires to send children to school, setting up a business that would increase household income among other desires.

7.3 Handwashing

Conclusion

Key determinants across the counties are knowledge around handwashing, the influence of health workers, doers' and non-doers' perception around susceptibility to diarrhoea, the cost of soap and the handwashing infrastructure and the ease in remembering to wash hands.

Bridges to activities

- 1. Increase the perception of non-doers that they have the knowledge, skills and materials to practice handwashing at the two critical times assessed.
- 2. Increase the ability of the health workers to reinforce the messages that handwashing with soap/ash at these critical times is important in preventing a myriad of diseases.
- 3. Increase the perception of non-doers that they can remember washing their hands with soap. Assist them with remembering through placing posters and other reminders at strategic points.
- 4. Increase awareness of non-doers that children are highly susceptible to diarrhoea and that diarrhoea is a very serious disease for children.
- 5. Increase the perception that ash is a suitable alternative to soap when the latter is unavailable.

- 1. Contextualize the hygiene education sessions to address the particular barrier identified for specific groups. Provide talking point to staff engaged in health education sessions.
- 2. Scale up the bamboo handwashing station across the different counties as an in-expensive alternative to the handwashing stations.
- 3. Develop messages for posters and stickers to remind people of washing hands with soap after latrine use and cleaning a baby's bottom. These could be placed on strategic locations for example on handwashing stations, kettles, toilet doors etc.
- 4. Review existing IEC materials and contextualize them to address the particular determinants identified.
- 5. Put emphasis on the faecal-oral transmission of germs during the hygiene education and counselling sessions so that non-doers understand which behaviours increase the risk of diarrhoea and the danger of diarrhoea for children.
- 6. Explore running of campaigns to promote the use of ash as an acceptable alternative to soap among the non-doers who were more likely to wash with water only in absence of soap.
- 7. Support the establishment of school health clubs where children can be used as an avenue to influence caregivers to adopt appropriate handwashing practices.
- 8. When asked of what things they wanted most in life, a significant proportion of both doers and non-doers cites desire to educate their children, stating a small business and having a long life. Considering the risk of diarrhoea among households that do not practice handwashing, this can be used in the messaging depicting that with handwashing, the children are less likely to contract diarrhoea hence being able to attend schools without interruption. With children less likely to fall ill, there is no expenditure on healthcare with the savings being available for the households to meet other desires for example starting a business. Equally, with good health, children and by extension the entire household are bound to enjoy a longer life free from such common diseases.

7.4 Use of Modern Family Planning

Conclusion

A key enabler for the use of modern contraceptive methods identified during this study is the proximity to the clinic. Barriers are the unavailability of health workers to administer, concerns on possible side effects and stock outs.

Bridges to activities

- 1. Increase (the perception that there is) access to contraceptives at the health facilities and ensure adequate stock of the different options at all times.
- 2. Increase the perception that it is not difficult to access contraceptives at the community level
- 3. Increase the proportion of health workers with adequate knowledge on family planning who can provide essential counselling to women seeking to take contraceptives.
- 4. Increase the perception that modern family planning is key to preventing unwanted pregnancies.
- 5. Increase the perception that women are able to provide adequate clothing and housing for their family if using a modern method of family planning.
- 6. Increase the perception that nobody disapproves the use of modern family planning methods.

Recommendations

- 1. Train health practitioners including the community health assistants on counselling mothers on the use of the various modern contraceptives.
- 2. Engage with the ministry of health to ensure enough human resource and adequate free of charge supply of the various contraceptives across all the health facilities.
- 3. Review existing SBCC materials on family planning; include messages on the benefit of having a small family. Explore linking the messaging to the universal motivators where majority of the respondents indicated education, having money and enjoying a long life to the fact that family planning allows for well-planned smaller families allowing the households to plan their resources to achieve their short and long-term goals. The messaging should emphasize that it is easier for household to meet all their basis and additional needs when they have smaller families. Explore engaging positive deviant (PD) women who can give practical experiences to motivate their peers.
- 4. Empower women for them to decide whether they use modern family planning methods or not.

7.5 Latrine Use

Conclusion

The main barriers identified are unavailability of water and latrines, distance to the shared latrines and lack of knowledge and skills. Privacy of latrines as opposed to the bush and sense of safety was perceived by the doers as a key positive enabler.

Bridges to activities

- 1. Increase the knowledge, skills and resources among the non-doers to enable them to use a latrine every time they need to defecate.
- 2. Increase the ability of both doers and non-doers to access water required to flush and clean the toilets by taking into account water availability during CLTS triggering.
- 3. Reinforce the fact that use of latrines does not necessary have to use a lot of water e.g. promote a design of latrines that use as little water as possible.
- 4. Decrease the perception that latrines are a breeding ground for insects by including messaging on cleanliness during the CLTS process.

5. Increase the proportion of community members who are aware of existing community and or public health laws around reduction of open defecation.

Recommendations

- 1. Continue community level awareness. Include not just the health benefits but also the social benefits of using latrines such as community respect, self-esteem, privacy and dignity.
- 2. Develop IEC materials for example posters that provide information around the barriers for examples that latrines do not necessarily use a lot of water, shared latrines are not more than five minute walk, prevention of insect infestation by placing lids of the toilet hole etc. These same issues can be discussed in formal group discussions.
- 3. Explore the feasibility of using the CSLA materials for construction of latrines.
- 4. Re-examine the issue of sustainability of CLTS in communities that have relapsed to open defecation. Regular monitoring and documentation in the ODF communities is essential.
- 5. Revise the messaging used in CLTS stressing on identified enablers including the fact that use of latrines provides a sense of comfort, safety and does not necessarily require a lot of water.
- 6. In community selection for CLTS, consider prioritising communities with adequate water supply.
- 7. Where they exist, explore using available community level legal structures to enforce existing community and or public health laws that encourage and support people to construct and use latrines. Where these laws are non-existent influence communities using the lessons learnt from communities where they exist.
- 8. Consider using local resources to build demonstration latrines in central locations and use them to reduce some of the perceptions for example that latrines use a lot of water, latrines being breeding ground for insect infestations etc. Use them as well to educate the population on how to keep them clean with minimal resources

7.6 Water Storage

Conclusion

The main barriers identified hindering the use of the narrow mouth container (gallon) for safe water storage include:

- The lack of knowledge around water safety
- Unavailability of the gallons and/ or the money to buy them though there is need to investigate this further considering that there was evidence of similar gallons used for other purposes for example storage of palm-wine, palm oil and gas
- Unavailability of soap to clean the containers
 Limited access to water with households indicating that they could only use water from the hand-pump for drinking. The pumps were said to be far away at times with long queues at the pump are long.

Bridges to activities

- 1. Increase the knowledge among non-doers on water storage emphasising on the advantages and the relationship with reduced incidence of water borne diseases.
- 2. Increase the perception that local leaders approve of storing water in a clean narrow mouth container.
- 3. Increase the ability of caregivers to remember to store water in a clean narrow mouth container by placing stickers at strategic location at the house.
- 4. Reinforce the perception that drinking water from gallons contributes to ensuring the health of the families.

- 1. Investigate further through focus group discussions with non-doers whether the cost of a gallon is really the main barrier as there was evidence of use of gallons for different products for example palm oil, palm wine. If ascertained consider a social marketing project that provides more access to these gallons to majority of households.
- 2. Through campaigns raise awareness on the importance of water safety. Develop IEC materials on some of the barriers and enablers for example the advantages of save water storage, investing in safe water storage saves on costs for medical treatment linking this to diarrhoea prevention. For posters, consider targeting strategic points for example at the hand pumps.
- 3. Involve local leaders and water management committees when sensitising community members on the importance of safe water storage. Discourage storing other products in the gallons.

A comprehensive list of more detailed suggestions for activities is included in the DBC framework in Annex 5.

Annex

Annex 1: Training Agenda

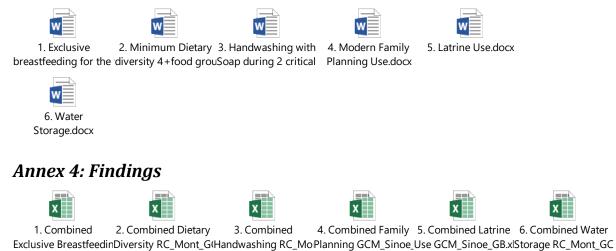


Annex 2: Training participant list



Enumerator List.xlsx

Annex 3: BA questionnaire



Annex 5: Design for Behaviour Change Framework

1. Exclusive Breastfeeding: Mothers of children aged 0-6 month's feed them on breastmilk alone for the first 6 months

| | Significant determinants/ % difference between doers and non- | | |
|------------------------------------|---|--|--|
| Priority Group | | Bridges to activities | Activities |
| | Self-Efficacy: | | |
| Mothers of children 6-12 months | 1) Doers feel they have the knowledge, skills and resources to practice the behaviour (30% in Sinoe and 19% diff in GCM); non-doers feel they don't have the knowledge (23%) Sinoe | Increase the knowledge, skills and resources of non- doers to feed their children on breastmilk alone for the first 6 months | Continue supporting nutrition education and counselling through the various forms including the mother-to- mother support groups. |
| | 2) Doers are 2.6 (26% diff) times more likely to say support or encouragement by the health worker in GCM and 2.9times (22% difference) in Sinoe | Increase the perception that health workers encouragement makes it easy for mothers to practice EBF | Engage with health workers who are seen as supportive to EBF, support adequate training for the heatlhworkers or IYCF to enable them offer quality counselling and messaging around breastfeeding |
| | 3)Doers are 2.9 times more likely to say that being away from home make it difficult (Sinoe) | Increase the perception that mothers can successfully breastfeed even when away from home | Develop talking points for use by health workers and community health assistants for use during nutrition |
| | Non doers are 5.6 times more likely to say lack of time makes it more difficult in GCM | Increase the perception that EBF is not time consuming and that time spent on EBF is | messaging. Messages to stress on some of the barriers for example maternal nutrition and the fact that even working mothers are able to breastfeed exclusively. |
| | 5) Non-doers are 5.6 times more likely (17%) to say lack of time in GCM | worthwhile and saves time that could otherwise be spent on other areas for example seeking medical care | Promote home gardening for the production of a variety of foods at the household level to support dietary diversity |
| | 6) Non-doers in GB are 4 times more likely to indicate that unavailability of diverse diets makes it more difficult | Increase the ability of households to obtain diverse diets | for lactating mothers Explore including a session on EBF in the "we are one sessions |
| | Positive Consequence | | |
| | 1)Doers are more likely (22.7 times)to cite that the child will be healthy (33% diff) in GCM 2) Non-doers are 2.4 times more likely to say that the child will become clever/smart (23% diff) in Sinoe | Increase the perception that children who are exclusively breastfed are less likely to fall ill. Increase the perception that exclusive breastfeeding supports in brain development and making the children clever and performing well at school | Engage health workers, community health assistants and lead mothers of mother-to-mother support groups to support nutrition education and counselling sessions stressing on the advantages of EBF. |
| | Perceived social norms-Who approves | | |
| | 1) Doers are more likely to say that other relatives (Uncles, Aunties, Brothers, sister) approve of EBF 2.2 times in GCM and 2.2 times in Sinoe | Increase the perception that other relatives including aunties, uncles, brother and sisters are supportive of EBF | Develop specific messages for other influencing groups including the uncles, aunts, sisters and brothers. Use forum for example the <i>"we are one"</i> session which targets some of these influencers and sensitize them around infant and young child feeding particularly the importance of exclusive breastfeeding |
| | | Priority Group doers Mothers of children 6-12 months 1) Doers feel they have the knowledge, skills and resources to practice the behaviour (30% in Since and 19% diff in GCM); non-doers feel they don't have the knowledge (23%) Since 2) Doers are 2.6 (26% diff) times more likely to say support or encouragement by the health worker in GCM and 2.9times (22% difference) in Since 3)Doers are 2.9 times more likely to say that being away from home make it difficult (Since) 4) Non doers are 5.6 times more likely to say lack of time makes it more difficult in GCM 5) Non-doers are 5.6 times more likely to say lack of time in GCM 6) Non-doers in GB are 4 times more likely to indicate that unavailability of diverse diets makes it more difficult Positive Consequence 1)Doers are 2.4 times more likely to say that the child will be healthy (33% diff) in GCM 2) Non-doers are 2.4 times more likely to say that the child will become clever/smart (23% diff) in Since Perceived social norms-Who approves 1) Doers are more likely to say that other relatives (Uncles, Aunties, Brothers, sister) approve of EBF 2.2 times in GCM and 2.2 times in | Priority Group does Bridges to activities Mothers of children 6-12 1) Doers feel they have the knowledge, skills and resources to practice the behaviour (30% in Sinoe and 19% diff in GCM); non-doers feel they don't have the knowledge (23%) Sinoe Increase the knowledge, skills and resources of odders to feed their children on breastmilk alone for the first 6 months 2) Doers are 2.6 (26% diff) times more likely to say support or (22% difference) in Sinoe Increase the perception that health workers encouragement by the health worker in GCM and 2.9times (22% difference) in Sinoe Increase the perception that mothers can successfully breastfeed even when away from home 3)Doers are 2.9 times more likely to say that being away from home Increase the perception that EBF is not time consuming and that time spent on EBF is \$) Non-doers are 5.6 times more likely to say lack of time in GCM Increase the perception that EBF is not time consuming and that time spent on EBF is \$) Non-doers are 5.6 times more likely to indicate that unavailability of diverse diets makes it more difficult Increase the ability of households to obtain diverse diets 4) Non doers are 2.4 times more likely to say that the child will be heatthy (33% diff) in GCM Increase the perception that children who are exclusive breastfed are less likely to fall iii. 2) Non-doers are 2.4 times more likely to say that the child will be become clever/smart (23% diff) in Sinoe Increase the perception that children who are exclusive breastfed are less likely to fall iii. 2) Non-doers are 2.4 times more likely to say that the child will become clever/ |

| In Sinoe 21%, GB 31% Doers are more likely to say that finding time | Decrease the perception among the non-doers | Invest in one on one counselling for mothers who have |
|--|--|---|
| to practice is not difficult while in GCM Non-doers are more likely to | that it's very difficult to find time for EBF | difficulties in breastfeeding addressing concerns such as |
| say that it's very difficult (15%) | reinforcing the perception with the doers that it is | time ensuring that mothers see the importance of EBF |
| | not difficult at all | and create the time for it. |
| Perceived Access (Support) | | |
| In Sinoe, doers perceive that it is not difficult at all (37% diff) to get | Decrease the perception that its difficult for | Increase the ability of souses to support their wives |
| the support their need while the non-doers cite that it is somewhat | mothers to get the support they need to practice | practice EBF. Explore use of father to father support |
| difficult (33%). In GCM, non-doers are 3.1 times more likely to say | EBF. | groups where men can have a clear understanding on the |
| that it is very difficult. In GB doers are 2.3 times more likely to say | | role they can play to support EBF |
| that it's not difficult at all (23% diff) | | See under norms on other relatives who can influence EBF |
| Perceived Action Efficacy (How likely) | | |
| In Sinoe doers are 2.8 times more likely to say that EBF protects the | Reinforce on the perception that children are less | Use the different fora; mother to mother support groups, |
| child from malnutrition ND more likely to say somewhat (20% diff) | likely to become malnourished if exclusively | father to father support groups, we are one sessions to |
| while in GCM, non-doers are 3.7 times more likely to say somewhat | breastfed. | sensitize community members on the contribution of EBF |
| likely. | | in reducing mortality and morbidity associated with malnutrition. |
| | | Explore including topics on EBF on the we are one modules |
| Universal Motivator | | Explore including topics on EDF on the we are one modules |
| 1. Childs education | 1 Reinforce across all the different fora tha | t EBF is the most cost-effective way to feed an infant |
| 2. Money | | vailable. This enables families to make savings on food or |
| 3. Starting a business | 5 | be used to meet other household needs for example send |
| 4. Building a house | - | small business that can complement household income. |
| | | een EBF and saving money on other expenses and the result |
| | being more income at the household for | |
| | 5 | g, focus on the advantages of EBF as offering an infant a |
| | | |
| | neau start in life, better performance at s | schools considering EBF makes the child smart. |

1. Minimum Dietary Diversity: Mothers of children ages 6 – 23 months feed their children foods from at least four (4) of the 7 food groups each day?

| | | Significant determinants/ % difference between doers and non- | | |
|------------------------|------------------------|--|--|--|
| Behaviour | Priority Group | doers | Bridges to activities | Activities |
| 2. Mothers of children | Mothers of children 6- | Perceived Self Efficacy: What makes it easy | | |
| ages 6 – 23 months | 23 months | | | Continue supporting households produce a variety of |
| feed their children | | In RC, doers were 4.3 times more likely, than the non-doers, to say | Increase the ability of non-doers to produce foods | foods through home gardening where is already on course |
| foods from at least | | farming made it easy to feed their children on foods from at least 4 | at home through home gardening | and invest in the same in areas that have not yet started. |
| four (4) of the 7 food | | food groups. The non-doers were 2.3 times more likely to say having | | This will reduce the cost for households having to buy |
| groups each day? | | money | | often expensive foods from the market that they can |
| | | | | produce at home |
| | | In Montserrado, the non-doers were 6.2 times more likely to say | | |
| | | farming would make it easy while and 3 times more likely to say | | |
| | | having money | | |

| Deveniued Calf Efficacy What makes it difficult | | |
|--|--|---|
| Perceived Self Efficacy: What makes it difficult | terrere the shifts of terretected to the | |
| In RC, doers were 2. Times more likely to say lack of financial support from spouses makes it difficult similar to the non-doers in GCM (18% diff) | Increase the ability of households to produce diverse foods through home gardening | Home gardening: See under what makes it easy above |
| In Montserrado, doers were 4.8 times more likely to say unavailability of foods made it difficult. The non-doers were more likely to state that lack of family support (23% diff) made it difficult. | Increase the ability of spouses to support their partners in feeding their children on foods from at least 4 food groups either through production or purchase | Explore male engagement avenues to promote their role around child feeding including either through production(farming) or offering financial support to their spouses to purchase foods unavailable form the farms. |
| Perceived Negative Consequences/ Disadvantages | | |
| In RC the doers perceive that (17% diff2.3 times more likely) feeding children foods from at-least 4 of the 7 food groups leads to spending too much money on these foods. There were also 2.8 times more likely to say that this is time consuming | Decrease the perception that feeding children on a variety of foods is time consuming and leads to high expenditure on foods. | Support participatory cooking sessions with the mother- to-mother support groups using locally available foods eliminating the need for purchasing expensive foods mothers would find difficult buying |
| In Montserrado, doers were 13.9 times more likely to say that they feared child would be upset if these foods once introduced were unavailable | Decrease the perception that children would be upset at times when these foods were unavailable | Prioritise messaging on the benefits of dietary diversity on the health and well-being of the child that make them healthy and hence less time spent in hospitals for medication, as they are less likely to fall ill. Explore campaigns that strive to portray that time spent and investment in feeing children on a diverse diet is worthwhile |
| Perceived Social Norms : Who are the people that approve | | |
| In RC, the doers were 3.2 times more likely to say that husband/boyfriend approve of dietary diversity. The non-doers in RC (3.2%) and GB (3.3 times) were more likely to mention close friends would approve feeding children on a diverse diet containing foods from at least 4 of the 7 food groups | Increase the perception that husbands/boyfriends approve feeding children on diverse diets from at least 4 of the 7 food groups | Consider establishment of father to father support groups and identify supportive men from the groups to be the leaders and use them to motivate fellow men within the community to support their spouses. |
| Perceived Severity: How serious | | |
| In Montserrado, doers were more likely to say that malnutrition is not serious at all (21% diff) while in GCM doers were more likely to | | Continue nutrition education and sensitisation sessions across different fora with sessions on causes of malnutrition emphasising how dietary diversity can avert |
| sat that it was somewhat serious (18%) while in RC, the doers were more likely to say that it is not serious at-all (23% diff) | Increase the perception that malnutrition is a serious condition | malnutrition. Stress on the increased nutrition needs once complementary feeding has been started. |
| Universal Motivator | | complementally recuiling has been started. |
| 1. Education 2. Money 3. Business 4. Long life | discussing nutrition issues, stress the fact that child fall sick. There are hence minimal expenditure of me other family need like child education, starting up a b | er support groups, we are one sessions and any other fora ren who are fed on diverse diets are healthier, less likely to edications with the huge savings potentially used in meeting susiness and having surplus money for other needs. Consider stimony to better health for children who are fed on diverse |

3. Handwashing: Caregivers of children under 5 years wash their hands with Soap/ash and water before handling food and after attending to a child who has defecated.

| Behaviour | Priority Group | Significant determinants/ % difference between doers and non-doers | Bridges to Activities | Activities |
|--------------------------|------------------------|---|--|--|
| Caregivers of children | Caregivers of children | Perceived Self- Efficacy : With your present knowledge, resources, and sl | kills | |
| under 5 years wash their | under 5 years | In GCM, doers were 12 times more likely to say that they have enough | Increase the knowledge, skills and resources of | Continue doing health education in the various forms |
| hands with Soap/ash | | knowledge, skills and resources (19% diff) while the non-doers were | non-doers to practice handwashing with | targeting parents of children under five years and other |
| and water before | | 7.9 times more likely to say possibly (13% diff) | soap/ash after attending to a child who has | adult family members |
| handling food and after | | | defecated and before handling food. | Develop promotional materials (messages, drama, |
| attending to a child who | | In RC, doers were 6.4 times more likely to say Yes (19%) while the non- | | posters, songs, flyers etc.) explaining/ showing how to |
| has defecated. | | doers were 6.4 times more likely to say possibly (19%) | Increase the perception among the non-doers | wash hands with soap, at what critical times and why. |
| | | | that they have adequate knowledge skills and | |
| | | Derecived Colf. Efficiency (What makes it easy | resources to practice handwashing | |
| | | Perceived Self- Efficacy : What makes it easy In GCM doers are 2.6 times more likely to say that having knowledge | Increase the knowledge chills and recourses of | See above (celf officers) on booth education |
| | | (26% diff) make it easy. In RC, doers are similar more likely to say that | Increase the knowledge, skills and resources of non-doers to practice handwashing with | See above (self-efficacy) on health education |
| | | having knowledge makes it easy | soap/ash after attending to a child who has | Consider a campaign to promote the use of soap as a |
| | | having knowledge makes it easy | defecated and before handling food. | suitable alternative considering that this was found to be |
| | | | | least used |
| | | In Montserrado, doers are more likely to point out availability of water | Increase the ability of non-doers to access soap | |
| | | and soap (21% diff) | and water to enable them wash their hands with | Explore support to scale up production of local soap to |
| | | | soap/ash at these 2 critical times. | ensure that this is affordable to majority of households. |
| | | | | Explore how this can be linked to on-going livelihood |
| | | | | interventions. |
| | - | Perceived Self- Efficacy : What makes it difficult | | |
| | | In Montserrado, doers were 5.4 times more likely to cite the lack of | Increase the ability of non-doers to access | Continue promotion of the bamboo handwashing station |
| | | handwashing facilities making it difficult to practice this behaviour | handwashing facilities | that is easy to set up and uses locally available materials. |
| | | (15% diff) as well as the cost of soap (15% diff) | | Support training on proper handwashing during the setup |
| | | | Increase the perception that washing hands with | of these stations. |
| | | In RC the doers were more likely to say that they experienced no | soap/ash and water is not difficult at all | For barrier on cost of soap see above under self: efficacy |
| | | difficulty (16% diff) while the non-doers were 2.1 times more likely to sat the cost of soap made it difficult (20% diff) | | what makes it easy |
| | | Perceived Social Norms: Who are the people who approve | | |
| | | In Montserrado doers were 3 times more likely to indicate that health | Increase the perception that health workers | Engage with the health workers to play a role in the health |
| | | workers approved of handwashing at these 2 critical times (17% diff) | approve handwashing with ash/soap at these 2 | education sessions as they are seen as a powerful enabler |
| | | workers approved of handwashing at these 2 childar times (1770 tim) | critical times | to influence change and adoption of this behaviour. |
| | | | | Health workers could be a useful tool to reinforce the |
| | | | | severity of diarrhoea during the sessions. |
| | | | | , |
| | | | | Structuring particular training for health workers and |
| | | | | utilise them for health education and messaging activities. |
| | | | | Consider equally engaging the community health |
| | | | | assistants in areas that are not served by health facilities |
| | | | | and thus lacking health workers. |

| F | | | |
|---|--|--|--|
| | Perceived Susceptibility: How likely is it that your child could suffer from | a diarrhoea | |
| | In GCM, doers were 4 times more likely to say not likely at all (37% diff) | Reinforce the perception that it is unlikely for | Support routine health education campaigns at both |
| | while the non-doers were 3.8 times more likely to say somewhat likely | children to contract diarrhoea when their | health facility and community level emphasizing on the |
| | (34%diff). The same was found in RC where doers were 3.1 times more | caregiver practicing handwashing at the critical | relationship between handwashing and prevention of |
| | likely to say not likely at all (30% diff) and the non-doers somewhat | times. | diarrhoea. |
| | likely 12.3 times (19% diff | | |
| | | Increase the perception that inadequate | Develop suitable IEC materials that show the relationship |
| | | handwashing by the caregivers increases the risk | between handwashing and prevention of diarrhoea |
| | | of diarrhoea among children under 5 years. | between handwashing and prevention of diarribea |
| | | of diarribea anong children under 5 years. | |
| | Perceived Cues for Action/ Reminders: How difficult is it to remember | | |
| | In GCM doers were 3.5 times more likely to say that it was not difficult | Increase the perception among the non-doers | Develop posters and position them at strategic points |
| | at all to remember (23% diff) while the non-doers were 3.5 times more | that it is easy to remember to wash hands with | where caregivers will get a constant reminder. These |
| | likely to say that it was somewhat difficult (32% diff) | soap/ash and water at these 2 critical times. | could be outside the latrines, on the handwashing stations |
| | | | and any other relevant locations. |
| | In RC the doers were 3.6 times more likely to say that it was not difficult | | |
| | at all while the non-doers were 2.9 times more like to say that it was | | |
| | somewhat difficult (25% diff) | | |
| | Universal Motivator | | |
| | 1. Childs education | Run campaigns that strongly portray children who | have great health as a result of their caregivers washing their |
| | 2. Starting a business | | less frequent incidences of diseases and caregivers hardly |
| | 3. Good Health | | this are then important in supporting the households reach |
| | 4. Money | | children to school guaranteeing them a brighter future and |
| | 1 | | ike starting a small business that brings extra income to the |
| | 5. Long Life | | ike starting a sinali pusiliess tildt brings extra income to the |
| | | household. | |

4. Use of modern family planning: Women of child bearing age (15 to 49) who do not want to become pregnant use a modern contraceptive method

((Implants, hormonal ie pills, barrier ie condom, emergency contraception)

| Behaviour | Priority Group | Significant determinants/ % difference between doers and non-doers | Bridges to activities | Activities |
|---------------------------|------------------------|--|--|---|
| Women of child bearing | Women of Child Bearing | Perceived Self Efficacy: What makes it easier | | |
| age (15 to 49) who do | Age | In GCM doers were 6.8 times more likely to indicate that the availability | Increase the ability of women of child bearing age | Advocacy with the Ministry of Health (MOH) to ensure |
| not want to become | | of the commodities made it easy for them to use the modern FP | to access FP commodities at the community level | adequate stocking of a variety f FP commodities. |
| pregnant use a modern | | methods (42% diff). There were also 3.5 times more likely to say that if | | |
| contraceptive method | | the FP was provided free (31% diff) it would be easier for them. | Increase knowledge around FP among the non- | Advocacy with the MOH to explore feasibility o the FP |
| ((Implants, hormonal ie | | | doers to enable them make an informed choice on | commodities provided free of charge to ensure ease of |
| pills, barrier ie condom, | | Doers in Sinoe and GB mentioned that the knowledge around FP (21 ST | what FP methods to adopt. | access to majority of women |
| emergency | | diff and 20% diff) respectively made it easy for them. | | |
| contraception) | | | Increase the knowledge and capacity of health | Advocacy with the MOH to staff health facilities with |
| | | In GB the doers were also 12 times more likely to indicate that the ease | workers to counsel women on different FP methods | heath workers to support counselling and |
| | | to administer/take the commodities made it easy for them (17% diff) | as well as administering the FP commodities | administration of the FP commodities. |
| | | Perceived Self Efficacy: What makes it difficult | available. | |

| | | 1 | | |
|---|---|---|--|--|
| In Sinoe, doers were 11.2 times more likely to cite the absence of health workers as what made it difficult for them t access the F commodities. In GCM, doers were 5 times more likely to say that they did not face any difficulty at all but were equally 5 times more likely to indicate concerns around stock outs as a significant barrier to the use of modern Fps | Reinforce the perception that its not difficult to access FP commodities. | | | |
| The non-doers in GCM were 3.3 times more likely to cite unavailability of the FP (19%) and inadequate knowledge (20%) as what made it difficult. In GB, the non-doers were more likely to cite unavailability of the FP commodities as what made it difficult for them (22%) | | | | |
| Positive Consequences (Advantages) | | • | | |
| In GCM, doers were 8 times more likely to mention prevention of unwanted pregnancies (50% diff) as the advantages of modern FP. Similarly in Sinoe the doers were 8 times more likely to mention this 18% diff) In GB the doers were 2.1 times more likely to cite that modern FPs | Reinforce the advantages of modern FP among the non-doers including preventing unwanted pregnancies Increase the perception that modern FP helps to reduce on family expenditure | Include topics on family planning and more so around the benefits in the health education sessions. Consider having these talks during the ANC and PNC where women of childbearing age attend. Support capacity strengthening of health workers | | |
| avoids unwanted pregnancies (20% diff) and 4.8 times more likely to cite that modern FP helps reduce family expenditure Perceived Social Norms: Who are the people that approve | | including the community health assistant and the trained traditional midwives. Include a module on family planning in the mother-to- mother support group-training curriculum. | | |
| In GCM doers were 2.6 times more likely to say that they themselves approved use of modern FP (25% diff) while in Sinoe the doers were 4.7 times more likely to say that mothers-in-law approved the use of modern FP (37% diff | Reinforce the perception that mothers-in-law approve the use of modern FP Increase the perception among the non-doers that they need not seek approval from anyone as a significant number of women approve it for themselves. | Identify WCBA who have embraced use of Modern FP and use them to motivate their peers. Link them to the health facilities where they can be trained to strengthen their capacity to offer support and counselling to their peers. | | |
| Perceived Access : How difficult is it to get a modern contraceptive method | | | | |
| In Sinoe, the doers were 4.4 times likely to say that it is not difficult at all while the non-doers were 2.1 times more likely to say it is very difficult. In GB, doers were 2.2 times more likely to say that it is not difficult at all (19%) | Decrease the perception that getting modern FP is difficult | See activities under self-efficacy above | | |
| Perceived Action Efficacy: How likely is it that you would be able to prov | ide | | | |
| In GCM doers were 2.2 times more likely to say that it was very likely (22% diff) similar to GB where the doers were 2.9 times more likely (25%). In GB the non-doers indicated that it was somewhat likely (31% diff) | Reinforce the perception that it is very likely to provide to household needs with modern family planning that allows for smaller families | Develop IEC materials that shows that households re better laced to provide for their small families. Link this with the universal motivators where majority of families desired to take their children to school, build a house, enjoy good health and have money to meet other needs. Use these materials to show WCBA that this can | | |

| | | be achieved with smaller families where expenses are greatly reduced. |
|---------------------|---|---|
| Universal Motivator | | |
| 1. Childs education | See above under perceived action efficacy | |
| 2. Money | | |
| 3. House | | |
| 4. Good Health | | |

5. Latrine Use: Caregivers of children under 5 years use latrines every time they need to defecate

| Behaviour | Priority Group | Significant determinants/ % difference between doers and non-doers | Bridges to activities | Activities |
|---|---|--|--|---|
| | | Perceived Self- Efficacy : With your present knowledge, resources, and | skills | |
| Caregivers of children under 5 years use latrines every time they need to defecate | Caregivers of children under 5 years | In GCM doers were 14.8 times more likely to say that they had enough skills, knowledge and resources to enable them use a latrine every time (24% diff) in Grand Bassa the doers were 9.7 times more likely to give this response as well (17% diff) | Increase the perception among the non-doers that they have enough skills, resources and knowledge to use a latrine evrytime they need to defecate. | Continue health education messaging around use of latrines at all available for a. |
| | | | Increase the knowledge about use of latrines among the non-doers | |
| | | Perceived Self- Efficacy : What makes it easy | | |
| | | In Sinoe doers were 11.3 times more likely to cite having knowledge as what made it easy for them to use latrine. | Increase the knowledge level among the non-doers on latrine use | On knowledge see above on self-efficacy |
| | | Doers were 11.5 times more likely to say that use of latrines offers a sense of privacy and sense of security. Non-doers were 6 times more likely to say that availability of latrine | Reinforce the perception that latrines offers privacy and a sense of security. | Scale up CLTS to trigger more community members to set up their own latrines. Prioritise CLTS in communities that do not have challenges with water access |
| | | would make it easy for them to use it every time they needed to defecate.In GB, doers were 2.5 times more likely to cite availability of water as what made it easy for them to use a latrine (23% diff) similar to GCM (27% diff) | Increase the ability of non-doers to access a latrine through the CLTS approach | Undertake regular monitoring of CLTS after commissioning a community as ODF to ensure that there is continuity and the community do not relapse. Document lessons for any community that relapses and use them to inform the approach in subsequent triggering. |
| | | In GCM doers were 6.9 times more likely to cite having own latrine Perceived Self- Efficacy : What makes it difficult | | In the CLTS triggering reinforce the perception that having own latrine gives a sense of security and privacy. |
| | | In GCM doers were 3.2 times more likely to cite unavailability of water as what makes it difficult (21% diff). Non-doers on the other hand were 2.4 times more likely to say unavailability of water (16%) and latrine being far (16%) as what would make it difficult for them to use a latrine. In GB doers were 3.5 times more likely to cite unavailability of water | Decrease the perception that use of latrines uses a lot of water | Messaging during the CLTS process to not only focus on the health benefits of use of latrines but also the social benefits of using latrines for examples building one's self esteem, gaining respect from the community and being a source of pride at the community level |
| | | (23%) and unavailability of latrines (32% diff) as factors that would make it difficult. Negative Consequences/ Disadvantages | | |

| In GCM, the doers were 3.2 times likely to say that the negative consequence is that the latrines use a lot of water to clean and flush, water that is often unavailable. Non doers in Sinoe were 3.2 times more likely to say this as well (15% diff) In Sinoe, doers were 11.8 times more likely to say that latrines were a breeding ground for insects. The doers were also 11.5 times more likely to say that the negative consequence was having to walk long distance ND: Need for water to flush 15% 3.2 times more likely | Decrease the perception that use of latrines requires excessive use of water. Decrease the perception that latrines are a breeding ground for insects | Messaging around use of latrine to put emphasize that they need not use a lot of water. IEC messages to address both the health benefits and the social benefits that are equally more likely to motivate people to make efforts to build their own latrines. |
|---|---|--|
| | | |
| Perceived Access : How difficult is it to for you to access a latrine In GCM, doers were 4.4 times more likely to say that it's not difficult at all to access a latrine while the non-doers were 12 times more likely to | Decrease the perception of the non-doers that it is very difficult to access a latrine | See above on the recommendations for CLTS under self- efficacy |
| sat that it was very difficult. | | |
| In Sinoe non-doers were more likely to say that it was very difficult | | |
| In GB, the doers were 6.6 times more likely to say that it was not difficult at all to access a latrine while the non-doers were more likely to say that it was very difficult (47% diff) | | |
| Perceived Susceptibility: How likely is it that your child could suffer | | |
| In GCM doers were 3.1 times more likely to say that it is not likely that the child could suffer from diarrhoea (31% diff) while the non-doers were 4.8 times more likely to say very likely (33% diff) | Increase the perception that it is very unlikely for the child to suffer from diarrhoea when the caregivers use latrines every time they needed to defecate. | During heath education sessions as well as opportunities during triggering put efforts to sensitize the communities on the link between prevalence of diseases and use of latrines. Consider developing IEC |
| In Sinoe doers were 3.6 times more likely to say not likely (34% diff) while the non-doers were 2.6 times more likely to say that it was somewhat likely (24%) for the child to get diarrhoea | | materials that pass these messages in simple language easy to understand for majority of the community for example use of pictorials. |
| In Grand Bassa, doers were 4.6 times more likely to say that it was not likely that the child will get diarrhoea (40%). The non-doers, were 13.5 times more likely to say that it was very likely for the child to have diarrhoea (23%) | | |
| Perceived Severity: How serious would it be if | | |
| In GCM, doers perceive that it would not be serious if their children suffered from diarrhoea (27% diff) while the non-doers were 3.5 times more likely to say that it would be very serious if their children suffered from diarrhoea | Reinforce the perception among the non-doers that diarrhoea is a serious condition. | Develop IEC materials that shows the relationship between latrine use, diarrhoea prevalence and mortality. |
| | | Use health workers to reinforce the perception that diarrhoea is a serious disease. |
| Universal Motivator | | |
| Money Education Business | link between use of latrines and prevalence of diarrhometication that leads to families utilising money th | s during CLTS triggering, emphasis could be placed on the bea and similar diseases. Relate this to the need for regular ey could otherwise spend on other necessities on health |
| 4. Long-life | care. Illustrate how savings on health needs as a res | ult can be put to better use and helping households meet |

| 5. House | other household necessitates such as education for their children and starting up a small business among other |
|----------|--|
| | desires highlighted by majority of the community. |

6. Water Storage: Caregivers of children under 5 years store drinking water in a clean, covered, narrow mouth container.

| Behaviour | Priority Group | Significant determinants/ % difference between doers and non-doers | Bridges to activities | Activities | | |
|------------------------|------------------------|---|---|--|--|--|
| Caregivers of children | Caregivers of children | Perceived Self- Efficacy : What makes it easy for you to store drinking water | | | | |
| under 5 years store | under 5 years | In RC doers were 5.7 times more likely to say that having knowledge | Increase the perception that adequate knowledge | Continue community sensitisation around water safety. | | |
| drinking water in a | | around safe water storage makes it easy for them to store water | on water storage makes it easy to store water | Consider having poster and any other visual materials at | | |
| clean, covered, narrow | | safely (45%). Doers were also more likely to say that availability of | safely | the source of water and at home. | | |
| mouth container. | | water to clean the containers made it easy for them to store water | | | | |
| | | safely | Increase the ability of non-doers to have access to | Ascertain that unavailability of gallons wing to the costs | | |
| | | | water source, gallon to allow them store water | limits households from using it to store water more so | | |
| | | In Mont, doers were 10.1 times more likely to state that having the | safely | considering that these same containers are heavily used | | |
| | | knowledge around water safety made it easy for them to store water | | for storage of other items for example palm oil and gas. | | |
| | | in a clean narrow mouth container (35%). The non-doer were 3.9 | | Consider ways of making the containers easily | | |
| | | times more likely to say that availability of money to buy gallon would | | accessible either through commercially or though | | |
| | | make it easy for them to store water in a clean narrow mouth | | linking them to on-going interventions as NFIs. | | |
| | | container (27%). | | | | |
| | | | | | | |
| | | In GCM, doers were more likely to say that the availability of the | | Consider influencing that returns from the VSLA where | | |
| | | gallon made it easy for them to store water in a safe container (24%) | | they exist can be prioritised in the purchase of the narrow mouth containers | | |
| | | Perceived Self- Efficacy : What makes it difficult for you to store | | narrow mouth containers | | |
| | | In RC doers were more likely to say the following as making it difficult | Decrease the perception that water storage in a | | | |
| | | for them to store water in a gallon: | narrow mouth container is time consuming | | | |
| | | Time spent on the queue at the hand pump 24% 5.7 times more than | Increase the ability of non-doers to have access to | | | |
| | | | a narrow mouth container to support them store | | | |
| | | • Long distance to the pump 16% 2.6 times more | water safely. | | | |
| | | • Functionality of the pump 18% 2.1 times more | water safety. | | | |
| | | The non-doers were 2.4 times more likely to say that unavailability of the container made it difficult (24% diff) | | | | |
| | | | | | | |
| | | In GCM, doers were 4.4 times more likely to cite functionality of the | | | | |
| | | pump (17%) while the non-doers were 2.8 times more likely to | | | | |
| | | mention unavailability of the container | | | | |
| | | Perceived Social Norms: Who are the people who approve | | | | |
| | | In Montserrado, the doers were 2 times more likely to say that other | Increase the perception that other relatives | Include other groups in messaging around water safety | | |
| | | relatives (sister, brothers, aunt, uncles) approved the use of narrow | including sisters, brothers, uncles and aunts | for example the distance relatives. | | |
| | | mouth containers (18%) | approve the use of narrow mouth containers for | | | |
| | | | water storage. | Engage the local leaders to motivate the wider | | |
| | | In GCM, doers were 10.9 times more likely to say that local leaders | _ | community on the use of the narrow mouth containers. | | |
| | | approved the use of narrow mouth containers. | Reinforce the perception that local leaders approve | Explore how they can be utilised in disseminating these | | |
| | | | the use of narrow mouth containers for water | messages during community gathering. Also, consider | | |
| | | | storage. | | | |

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|---|--|---|--|--|--|
| | | | how the water management committees can be used to | | |
| | | | scale up the messaging to the wider community. | | |
| | Perceived Access : How difficult is it to access or get a covered narrow mouth container | | | | |
| | In RC, doers were 2.9 times more likely to say that it was not difficult | Increase the perception that it is not difficult to | See above under self-efficacy | | |
| | at all to access the narrow mouth container (24% diff) while the non- | obtain a narrow mouth container that enables safe | | | |
| | doers were 3.9 times more likely to say that it was very difficult (32% | water storage. | | | |
| | diff) | | | | |
| | | | | | |
| | In GCM, the non-doers were 2.1 times more likely to say that it was | | | | |
| | not difficult at all (19% diff) | | | | |
| | Perceived Cues for Action/ Reminders | | 1 | | |
| | In Mont, doers were 6.3 times more likely to say that it was not difficult | Decrease the perception that it is difficult to | Develop poster that illustrate safe water storage and | | |
| | to remember to store water in a narrow mouth container (22% diff). | remember to store water in a clean narrow mouth | give information n round the advantages and have them | | |
| | The non-doers were 2.3 times more likely to say that it was very difficult | container. | displayed in strategic location both at the community | | |
| | (22% diff) | | level for example at the water source (hand pump) and | | |
| | | | at home. | | |
| | In GCM, non-doers were more likely to say that it was somewhat | | | | |
| | difficult (20% diff) | | | | |
| | Perceived Susceptibility: How likely is it that your child could suffer | | | | |
| | In RC, the doers were 3.8 times more likely to say that it was unlikely | Increase the perception that it is unlikely that | Develop IEC messages that stress the advantages of safe | | |
| | that their children could suffer from diarrhoea (34%). | children could suffer from diarrhoea if they drank | water storage linking this to prevention of incidence of | | |
| | | water from a clean narrow mouth container. | diarrhoea. | | |
| | In Montserrado, the doers were 2.4 times more likely to say that it was | | | | |
| | not likely that their children could suffer from diarrhoea (24% diff). The | | | | |
| | non-doers were 2.5 times more likely to say that it was somewhat likely | | | | |
| | that their children will suffer from diarrhoea (24%) | | | | |
| | Perceived Severity: How serious would it be if your child would suffer | | | | |
| | In Montserrado, non-doers were 3 times more likely to say that it | Increase the perception that diarrhoea is a serious | Reinforce the relationship between water safety, | | |
| | would be very serious f their children suffered from diarrhoea (32% diff) | condition | diarrhoea and morbidity. The heath workers can be a | | |
| | | | useful asset to reinforce and stress the fact that | | |
| | In GCM, doers were more likely to say that it would not be very serious | | diarrhoea is indeed a serious condition that is associated | | |
| | if their children suffered from diarrhoea (18% diff). The non-doers on | | to high morbidity among children under 5 years | | |
| | the other hand were more likely to say that it would be very serious | | | | |
| | (26% diff) diarrhoea | | | | |
| | Universal Motivators | | | | |
| | 1. Long Life | During the health messaging at the health facility, water points or any other fora illustrate the relationship between water safety and diarrhoea portraying that households that drinking safe water are less likely to suffer from diarrhoea hence spending less time and money on medication. The time and money saved can be used in other engagement that support the family to attain their other desire for example sending children to | | | |
| | 2. Education | | | | |
| | 3. Business | | | | |
| | 4. House | | | | |
| | | school, starting a business among others. Reinforce the fact that savings on health care can be useful in making it easier for the family to attain its other needs. With diseases eradicated, children are less likely to | | | |
| | | | | | |
| | | die at a young age and hence a long life for everyone | e in the community. | | |