

# Combining Mentoring Programs with Cash Transfers for Adolescent Girls in Liberia

## Baseline Report

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## Abstract

This report presents findings from the baseline assessment of International Rescue Committee's (IRC) Girl Empower (GE) program in Nimba County, Liberia. GE seeks to help 13 to 14 year-old girls make healthy life choices and decrease their risk of sexual abuse. The program centers on weekly meetings between girls and trained local mentors, during which the girls learn about life skills and financial literacy. GE also holds monthly discussion groups for participants' caregivers, and trains local health and psychosocial care providers on how to improve and expand services for survivors of gender-based violence. This baseline report is part of a cluster-randomized controlled trial, which aims to assess the program's impact 24 months after baseline.

21 percent of the baseline sample of 13–14 year-old

females reported having previously had sex. Within this group, 29 percent indicated that their first sexual act was non-consensual. Among all GE girls, 37 percent reported having experienced sexual violence of some type, such as being physically forced to have sex, non-physically pressured (coerced/persuaded) to have sex, someone unsuccessfully attempting to have sex with them, and being touched in a sexual way.

The levels of nonconsensual first sex and any experience of nonconsensual sex are at the high end of the range reported by the UNICEF Violence against Children Surveys (VACS) in Swaziland, Tanzania, Kenya and Zimbabwe. As the VACS reporting is for (a variety of) age ranges, each of which is higher than that in this study, the levels of sexual violence reported here are very high in comparison.

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# Combining Mentoring Programs with Cash Transfers for Adolescent Girls in Liberia: Baseline Report

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## Acronym Table

<b>Acronym</b>	<b>Meaning</b>
IRC	International Rescue Committee
GE	Girl Empower
GE+	Girl Empower <i>plus</i> , a study arm offering caregivers cash transfer incentives
IPA	Innovations for Poverty Action
CRIES	Children's Revised Impact of Events Scale
RSES	Rosenberg Self Esteem Scale
SMFQ	Short Moods and Feelings Questionnaire
MCEF	Monitoring, Conflict, Emotional Support and Financial Support Scale

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## Summary

This report presents the results from the baseline assessment of International Rescue Committee's (IRC)<sup>1</sup> "Girl Empower" (GE) program in Nimba County, Liberia. GE is a program in rural communities which seeks to help 13 to 14 year-old girls make healthy life choices and decrease their risk of sexual abuse. The program centers on weekly meetings between girls and trained local mentors, during which the girls learn about life skills and financial literacy. GE also holds monthly discussion groups for participants' caregivers, as well as trains local health and psychosocial care providers on how to improve and expand services for survivors of gender-based violence. Girls are also equipped with savings accounts, and small deposits are made on their behalf.

The GE baseline assessment is part of a randomized evaluation, which will assess the program's impact. Primary investigators from Population Council, the World Bank, and the IRC lead the evaluation's research team, and Innovations for Poverty Action (IPA) is responsible for the survey data collection.

Villages were identified for inclusion in the study based both on research and programmatic considerations. The research team made an initial selection of Nimba County villages based on reported village population, distance from the IRC office and likelihood of accessibility. Staff from IRC Liberia then visited all of the identified villages to verify population and accessibility. If a village was significantly outside the target population range or was inaccessible, the research team replaced it with an alternate.

Between July 12 and September 6, 2015, four teams of IPA enumerators completed data collection in 100 study villages across Nimba County. Among those villages, however, 16 had fewer than five girls who were eligible for the program (girls had to be between the ages of 13 and 14 to qualify). Given that GE mentorship groups require a minimum of five girls, these 16 villages were dropped from the study. Among the final 84 study villages, the enumeration team completed a total of 10,930 household listing surveys, 1,216 girl surveys, and 1,055 caregiver surveys. After data collection was complete, the research team randomly assigned the 84 study villages to the control group (28 villages), the GE treatment group (28 villages) and the GE+ treatment group (28 villages). Both the GE and GE+ treatment groups will receive the standard girl mentorship, savings account and caretaker discussion group components of the program, while the GE+ group will also receive a small cash incentive to caregivers to encourage regular attendance by girls at mentorship meetings. At the beginning of the program implementation 817 girls and 130 mentors were participating in the GE and GE+ arms; girl group size ranged from 6 to 20, with a mean of 14.6.

The GE impact evaluation is designed to assess a variety of outcomes, primarily the program's effectiveness in reducing instances of and vulnerability to sexual abuse and exploitation. Also evaluated is the program's effectiveness when participants' caregivers receive cash transfers based on girls' attendance at the weekly sessions. Further investigated is the program's ability to help reduce teen pregnancies and early marriages, increase social connectedness, school

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<sup>1</sup> See Acronym Table on page 1 for full list of abbreviations.

participation, and self-esteem, and improve girls' life and financial literacy skills. Other relevant outcomes include whether or not the girl has ever had sex, whether the girl's first and subsequent sexual acts were consensual and whether or not the girl has ever been married or pregnant. In order to get pre-randomization measures of these (and all other) outcome indicators, all of the outcome measures were included in the baseline assessment.

Among girls interviewed in the baseline assessment, only 0.74% reported that they were married or were living with a man as if they were married. One-fifth (20.72%) reported having previously had sex. Among girls who had had sex, 7.94% reported having ever been pregnant (n=20; 1.64% of the total sample).

For those who have sexually debuted, 71.43% indicated that their first sexual act was consensual, while 13.89% reported that they were physically forced and 14.68% reported that they were tricked.

Among all GE girls, 37.3% report having ever experienced sexual violence of some type. The nature of these experiences were reported as: 7.8% had been physically forced to have sex, 8.4% had been non-physically pressured (coerced/persuaded) to have sex, 24.7% had had someone unsuccessfully attempt to have sex with them, and 28.9% had been touched in a sexual way.

The percentage of GE girls who had experienced sexual debut as of the baseline survey was not noticeably higher for their age than available comparable sources from the region. The levels of nonconsensual first sex and any experience of nonconsensual sex are within, but at the high end of, the range of those reported by the UNICEF Violence against Children Surveys (VACS) - the program of surveys most comparable to GE with regard to age group and sexual violence survey question style and content - in Swaziland, Tanzania, Kenya and Zimbabwe. In particular, GE respondents reported much higher levels of unsuccessful attempted sex and sexual touching than in the other four countries. It should also be noted that the VACS reporting was for (a variety of) age ranges that were each older than the GE respondents. The levels of all types of sexual violence reported in the GE survey are therefore very high in comparison.

Nearly 98 percent of all survey participants indicated having ever attended school; of those, the largest proportion (nearly 21 percent) indicated second grade as their highest level of schooling reached. Typical for the overall setting, 85.03 percent of GE participants reported having been enrolled during the academic year prior to the survey (in this case, the 2014-2015 school year). The mean and median self-esteem scores reported by GE survey respondents were within the normal range.

## Introduction

The following presents results from the baseline assessment conducted as part of an evaluation of International Rescue Committee's (IRC) Girl Empower (GE) program in Nimba County, Liberia. GE is an innovative program designed by the IRC to equip girls with the skills and experiences necessary to make healthy, strategic life choices and to stay safe from sexual and abuse and exploitation. The program aims to accomplish these goals through a combination of mentorship, asset building, girl and caregiver discussion groups and local capacity-building. As part of the



program, the IRC invites adolescent girls in rural communities throughout Nimba County to join mentorship groups led by trained local mentors. During the weekly mentorship meetings these groups hold, the girls learn about life skills and financial literacy and open savings accounts with seed money from the program. In addition, the program holds monthly discussion groups for caregivers of program participants and trains local health and psychosocial care providers on how to improve services for survivors of gender-based violence.

The baseline assessment described in this report is part of a clustered randomized controlled trial being conducted to evaluate the impact of the GE program. The evaluation has three study arms: comparison, GE and GE+. The GE treatment arm includes the program components described above. The GE+ treatment arm includes the same program components, but also provides a small cash incentive to families of girls in the program to encourage regular attendance at mentorship meetings.

Primary investigators Kelly Hallman (Population Council), Elizabeth Kelvin (City University of New York), Berk Özler (World Bank) and Juliette Seban (IRC) led the research team for the GE baseline assessment and Innovations for Poverty Action (IPA) carried out the data collection with support from the PIs. The survey field team was led by Erica Kuhlik, Joseph Kamara and Cooper Allton. The baseline assessment was originally scheduled to be in July, 2014, but had to be postponed as a result of the Ebola outbreak in Liberia in 2014. Preparations for the assessment resumed in June, 2015. IPA began data collection on July 12<sup>th</sup> and subsequently completed it on September 6<sup>th</sup>.

The ethics procedures used in the research were approved by Internal Review Boards of both the Population Council (protocol number 645) and the University of Liberia – Pacific Institute for Research and Evaluation (UL-PIRE).

## Study Design

The primary research questions to be answered through the evaluation include:

- What impact does the GE program, which includes mentoring, asset building (this includes life skills, financial literacy, and savings) and caregiver discussion groups, have on reducing adolescent girls' experiences of sexual abuse and exploitation?
- Does the effectiveness of the GE program improve when a cash transfer to caregivers component is added?

In addition, the evaluation will specifically seek to answer the following questions: does program participation:

- Decrease experiences of sexual abuse and sexual exploitation in the target population?
- Reduce teen pregnancies and early marriages?
- Decrease their social isolation and deepen their social networks (e.g. number and diversity of friends)?
- Increase their school participation?
- Increase their self-esteem, self-confidence, and self-efficacy?
- Increase girls' capacity for crucial life skills (decision-making, communication, negotiation, self-protection, understanding and awareness of violence, financial literacy)?

- Increase the protective factor of family/home life through increased attention to their wellbeing by their caregivers?

The primary outcome indicators identified in evaluation plan are (1) whether the girl has ever had sex (2) whether she has ever been pregnant (3) whether she has ever been married (4) whether her first sexual act was non-consensual and (5) whether she experienced violence in the past year. In addition, school enrollment is also identified as a primary outcome. Other outcome measures are scale-based, including the Rosenberg Self Esteem Scale (girls) (Rosenberg, 1965), the Short Mood and Feelings Questionnaire (SMFQ) Scale to assess depression (girls) (Angold et al., 1995), the Gender Equitable Attitudes Scale (girls) (Stephenson et al., 2012), the Children's Revised Impact of Event Scale (CRIES-8) (girls) (Perrin, et al, 2005), a Monitoring, Conflict Emotional Support and Physical Support scale (girls) (Bingenheimer, et al., 2014), and the Gender Norms Attitudes Scale (caregivers) (Waszak et al., 2000).

The study frame for the GE baseline assessment consisted of 100 villages in Nimba County, Liberia. The research team selected these potential program villages on the basis both of size and of accessibility. Within each village randomly assigned to program status, all 13-14 year old girls are eligible to participate in the GE program. The IRC planned to have one mentorship group of approximately 20 girls in each program village. To help ensure this, the research team used village population data from the Liberia Institute of Statistics and Geo-Information Services (LISGIS) to develop a list of villages likely to have the appropriate number of eligible girls. All villages in the initial selection had a listed population of between 700 and 1500. The IRC team in Nimba County then checked the list to assess the accessibility and distance of proposed study villages. When villages were found to be inaccessible or too distant, the research team replaced them with villages of similar size.

Once this updated list was complete, the IRC Liberia team traveled to each of the potential study villages to verify population and accessibility. If IRC Liberia found that any of the proposed villages were inaccessible or were too large or small for the program, the research team replaced the village with an alternate. This resulted in a final list of 100 villages that were both accessible and within the targeted population range. After data collection was complete, the research team determined that 16 of the study villages had fewer than 5 five girls eligible for the GE program (i.e. between the ages of 13 and 14 years old). Given that GE mentorship groups had to have a minimum of 5 girls each, these villages were dropped. As a result, 84 communities were included in the final study frame for the GE baseline assessment.

## Survey Procedures

Four IPA teams, each consisting of four enumerators and one team leader, completed all data collection for the baseline assessment. Given the sensitive nature of the subject matter, all enumerators were female. Enumerators were responsible for interviewing respondents, while team leaders were responsible for enumerator supervision and spot-checking interviews. Upon entering a new study village, the team leader informed the Town Chief about the assessment and requested a town meeting to explain it. Once convened, the team leader explained the purpose of the assessment, emphasizing the fact that participation was voluntary and that respondents would not receive any material benefits. Afterwards, the team leader answered questions from

members of the community. Once the community entry process was complete, the team leader assigned enumerators to different zones in the village and they started data collection.

Enumerators began data collection in each home by using chalk to mark a door or window with a unique house code. The enumerators then asked to speak with the head of household. If the head of household was not home, the enumerator asked to speak with any other adult (at least 18 years old). If the head of household or another adult was present, the enumerator introduced herself, read the household consent statement, answered any questions the respondent had and then asked for the respondent's consent to complete the household listing survey. If the respondent consented, the enumerator completed the interview.

The household listing survey asked general questions about the household, including how many families lived there and whether there were any adolescent girls. If the respondent reported that there were adolescent girls in the household, the enumerator asked for further details including their ages. If any of the girls listed were between 13 and 14 years old, the enumerator asked to speak with their caregiver. Once the enumerator located the girl's caregiver, she explained the purpose of the study and read and explained the girl survey's caregiver consent statement. If the caregiver consented for the girl to be interviewed, the enumerator met the girl, explained the purpose of the assessment and read and explained to her the girl survey assent statement. If the girl assented, the enumerator completed the girl survey and tracing survey with her. After completing the interview, the enumerator asked to speak with the person the girl identified as her caregiver in the survey (often the same person who completed the caregiver consent for the girl). Once the enumerator located that person, she introduced herself, explained the purpose of the assessment and read and explained the caregiver survey consent statement to the caregiver. If the caregiver consented, the enumerator completed the caregiver survey with him/her.

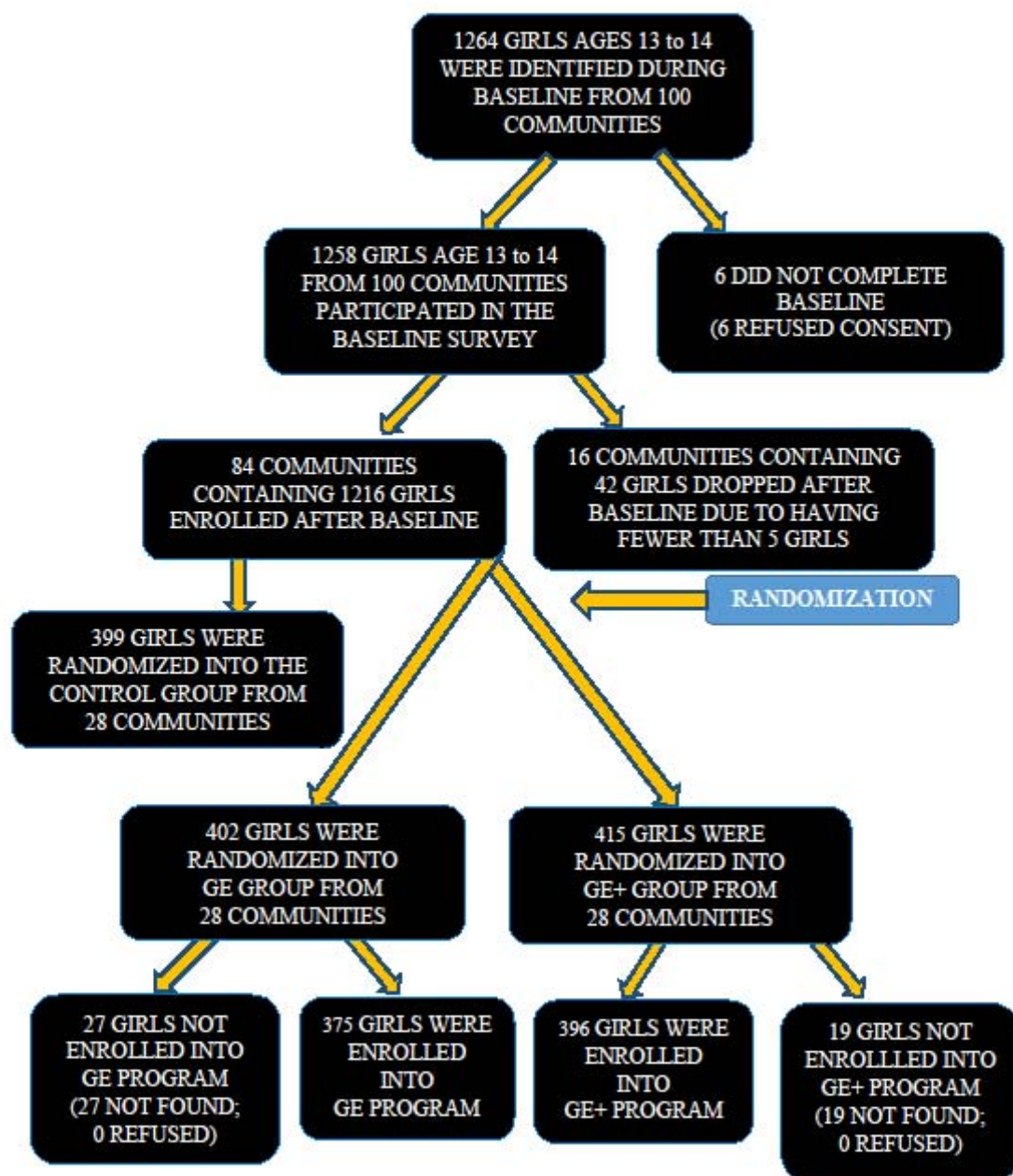
If a respondent could not be located or was not available when the enumerator visited a particular home, she noted the house code in a log sheet and moved on to the next house. She later returned to the home and again attempted to find the respondent. In cases where, after multiple attempts, the enumerator was still unable to locate the respondent, she entered the house code and other pertinent information in a "mop-up" sheet. A separate "mop-up" team then revisited the village after the team left and attempted to find the respondent. In addition to the four enumeration teams, a separate team of two back-checkers provided an additional layer of data quality control. The back-checking team visited each study village after the enumeration team finished data collection and re-interviewed randomly-chosen respondents using a selection of the original survey questions. If back-check survey responses were significantly different from the original survey responses for a particular respondent, the IPA Field Manager followed up to investigate the cause of the discrepancies.

Enumerators completed all data collection with encrypted PDAs (smartphones) running SurveyCTO (a survey application based on Open Data Kit). Each survey an enumerator finished was saved in her PDA for later upload. Team leaders periodically collected enumerator PDAs and uploaded their data to an encrypted cloud server using a 3G data connection and/or a secure mobile Wifi hotspot. Uploaded data was immediately available to the IPA management team, who ran daily high-frequency checks to verify data quality.

## Randomization

After data collection was complete, the research team randomly assigned the 84 remaining study villages to the control group or one of the two treatment groups (GE and GE+). Before carrying out the randomization, the team first blocked (stratified) the villages based on the number of girls surveyed and the average level of school enrollment. The randomization process resulted in 28 of the villages being assigned to the GE treatment arm, 28 to the GE+ treatment arm and 28 to the control arm. During the randomization, two of the principal investigators traveled to Liberia to oversee and explain the randomization process to IRC staff and to ensure that all parties were aware of which villages had been assigned to the control and two treatment groups. The results are shown in the figure below (Figure 1). Once this was complete, the IRC began preparing for the implementation of the GE program in all of the villages that were assigned to one of the two treatment arms.

**Figure 1. Randomization Flow Diagram for Girl Empower Baseline Survey and Program Enrollment**



## Balance Table

The table below shows the level of balance in average values for select variables between individuals assigned to the treatment and control groups. The blocking variables used in randomization and the primary outcome variables of the impact evaluation were included in the table. The first column presents the mean (standard deviation) of each variable in the control group. Columns 2-4 show the difference in the average value of the selected variable between control and treatment groups (both for combined treatment and the individual GE and GE+ treatment arms), as well as the standard error of that difference. Column 5 presents the p-value for the test of equality of means between the two arms of the GE treatment group (GE and GE+). The bottom row presents p-values from a test of joint orthogonality to indicate whether all the indicators included in this table are jointly different in one study arm than another.

Examining the individual differences between randomly assigned treatment arms, we see no statistically significant differences between the control group and any of the treatment groups (or the combined treatment group). This is reflected in the p-values from the joint orthogonality tests reported in the bottom row, the lowest of which is 0.39 (columns 2-4). However, we do detect a slight imbalance between the two treatment arms (p-value=0.094 in the bottom row of column 5). This imbalance seems to be driven by a large difference in the Children's Revised Impact of Event Survey (CRIES) scale scores in the GE and GE+ groups: the GE group is less likely to have a CRIES scale score (meaning that more of them were below the screening cutoff for PTSD) and, among those screened in, the scores are significantly lower in the GE group than in GE+. As this is a cluster-RCT and randomization was not blocked on this particular outcome indicator, chance imbalances such as this one can occur. Overall, the balance in the trial seems acceptable, with no notable differences between the control group and any treatment arm and only a difference that is significant at the 10% level between the two treatment arms, which is primarily due to an imbalance in the CRIES outcome indicator.

**Table 1. Balancing of Variables across Groups**

Variable	Mean (and standard deviation) for control group	Difference in Means (with respect to control group)			Test for Equality of Parameters (p-values)	Number of Observations
		All treated	GE	GE+	GE = GE+	
Ever had sex	0.209 (0.407)	-0.002 (0.029)	-0.010 (0.030)	0.006 (0.034)	0.596	1,215
Ever pregnant	0.013 (0.112)	0.006 (0.006)	0.005 (0.008)	0.007 (0.007)	0.827	1,215
Married	0.015 (0.212)	0.008 (0.014)	0.015 (0.021)	0.002 (0.014)	0.515	1,215
Firs sex non-consensual	0.063 (0.243)	-0.005 (0.013)	-0.013 (0.014)	0.002 (0.015)	0.320	1,215
Rosenberg scale	30.843 (4.249)	0.235 (0.446)	0.020 (0.492)	0.444 (0.484)	0.300	1,212
SMFQ scale	9.010 (6.739)	-0.753 (0.718)	-0.087 (0.876)	-1.396* (0.713)	0.097*	1,214
Gender Relations Scale	7.633 (3.041)	-0.164 (0.301)	-0.151 (0.371)	-0.176 (0.337)	0.947	1,197
MCEF Composite Scale	24.947 (3.602)	-0.297 (0.247)	-0.306 (0.295)	-0.288 (0.316)	0.959	1,212
CRIES Scale	17.490 (8.157)	1.13 (1.42)	-0.893 (1.42)	2.76* (1.48)	0.001***	465
No CRIES Score	0.617 (0.487)	0.002 (0.035)	0.038 (0.041)	-0.033 (0.040)	0.103	1,216
Enrolled 2014-15	0.844 (0.095)	0.011 (0.024)	0.008 (0.033)	0.014 (0.026)	0.864	1,216
Number girls	19.286 (9.546)	1.930 (3.318)	2.471 (4.450)	1.406 (3.598)	0.819	1,216
Chi-squared test of joint orthogonality (p-value)		0.8432	0.9170	0.3903	0.0938*	1,184

Notes: stars represent statistical significance according to: .01 \*\*\*; .05 \*\*; .1 \*. Cross-section OLS regressions at girl level with SE (between parentheses) clustered at the village level. In the column 'Mean (and standard deviation) for control group', numbers in parentheses are standard deviations, not standard errors.

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## Introduction to Results

The following sections present results from the GE baseline assessment. The first three sections describe the basic characteristics of the households and respondents interviewed. Results from these sections are taken from all three of the baseline survey instruments (household, girl and caregiver surveys). Unless otherwise noted, the tables are for single-response questions. For questions in which the respondent could choose more than one response, the corresponding table has a note at the bottom indicating “*multiple responses allowed*”. Tables with two or more joined sections are for contingent questions (questions for which the preceding question determines whether or not the next question will be asked). For questions with continuous responses (such as number of days missed from school), tables list basic descriptive statistics including the mean, standard deviation, minimum and maximum for the variable.

### Basic Household Characteristics

As part of the caregiver survey, respondents were asked about household water sources and sanitation facilities. The most common water source in caregiver homes was a dug well with a hand pump in the yard/plot (49.05%), followed by a public tube well, borehole, or dug well with a pump (29.46%) (see appendix **Table A1**). Furthermore, a significant percentage (47.57%) reported that people in their homes did not use toilet facilities, and instead practiced open defecation. The next most common practice reported was the use of a pit latrine with slab (cement floor) (22.96%) and pit latrine without slab (open pit) (15.08%) (see appendix **Table A2**).



Caregivers were also asked whether or not anyone living in the home had various items. More than half had a mattress (77.82%), a table (71.49%), a cell phone (59.88%), or a radio (58.84%); 7.63% had a generator, 13.52% had a motorcycle or motorbike and just 3.38% had access to electricity from the grid.

<b>Table 2. Caregiver survey item A17: Does your household or someone living in your household have any of the following?</b>	<b>Yes (%)</b>	<b>Number</b>
A mattress (not made of straw or grass)?	77.82%	898
A table?	71.49%	825
A cell phone?	59.88%	691
A radio?	58.84%	679
Chairs?	48.53%	560
A watch?	15.16%	175
A motorcycle or motor bike?	13.52%	156
A cupboard?	9.27%	107
A generator?*	7.63%	88
A television/DVD player?	4.59%	53
An ice box?	3.55%	41
Electricity (current)?	3.38%	39
A sewing machine?	2.08%	24
A bicycle?	1.91%	22
A car or truck?	1.30%	15
A boat or a canoe?	0.87%	10
A computer?	0.78%	9
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,154</b>

\*\* "Don't know" recorded as a response in one case for "A generator". Responses for all other items were either yes or no.

During the household listing survey, respondents were asked about the families and adolescent girls living in the house. The majority of households (70.47%) had just one family living in the house, whereas 13.16% had two families, 9.32% had three and just 7.05% had more than three (**Table A3** in appendix). A minority (35.92%) of households reported having girls over the age of 12 living in the home. Among the households that had girls in that age range, 70.22% reported having one and 23.34% reported having two.

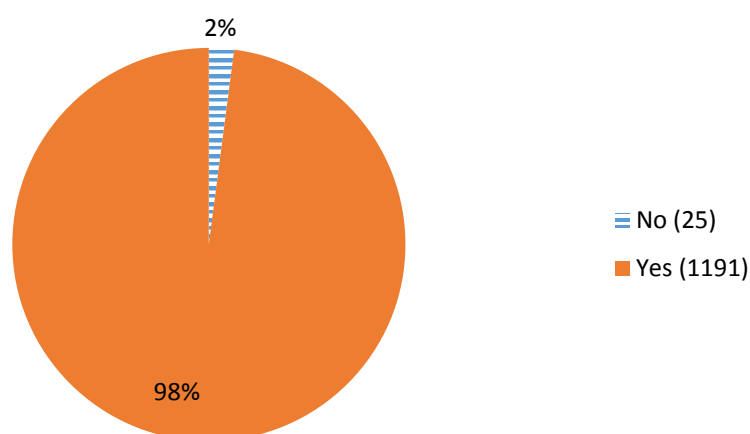
<b>Table 3. Household listing item A11. Are there any adolescent girls, by which I mean girls over 12 years old, living in this household? By this I mean that they sleep here most nights and eat food from here throughout the year.</b>	<b>Percent</b>	<b>Number</b>
No	64.08%	6957
Yes	35.92%	3899
	<b>Total</b>	<b>10856</b>

<b>Table 4. Household listing item A12. If adolescent girls aged 12 or older (A11=yes), how many girls around this age live here?</b>	<b>Percent</b>	<b>Number</b>
1	70.22%	2738
2	23.34%	910
3	5.03%	196
4	1.13%	44
5	0.13%	5
6	0.05%	2
7	0.05%	2
8	0.03%	1
10	0.03%	1
	<b>Total</b>	<b>3899</b>

## Basic Girl Characteristics

Most (88.16%) of the girls interviewed during the GE baseline assessment reported having been born between 2000 and 2002 (the birth-year range that corresponded to the target age range of 13-14 years-olds).<sup>2</sup> Another 10.61% did not know their year of birth. Girls were selected for interview based on the age the caregiver reported. As a result, a small number of girls whose self-reported birth year fell outside the target range were still interviewed (1.22% of cases) (see appendix **Table A4**). Almost all girls (97.94%) had attended school (see appendix **Table A5**).

**Figure 2. Girl survey item B2: Have you ever attended school?**



The most common grade levels reached were grade 2 (20.99%), grade 3 (18.39%), grade 1 (17.13%) and grade 4 (15.20%) (see appendix **Table A6**). The average number of years of school

<sup>2</sup> Depending on the month and day of, girls born in 2000 and 2002, however, could fall outside the target age range. All girls born in 2001 fall within the target age range.

(starting with ABC=1 year, K1=2 years, K2=3 years, and grades 1-9 equally 4-12 years) completed was 5.17, and the median was 5.

<b>Table 5. Girl survey item B3b: How many years of school have you completed?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1168	5.17	5	1.97	0	11

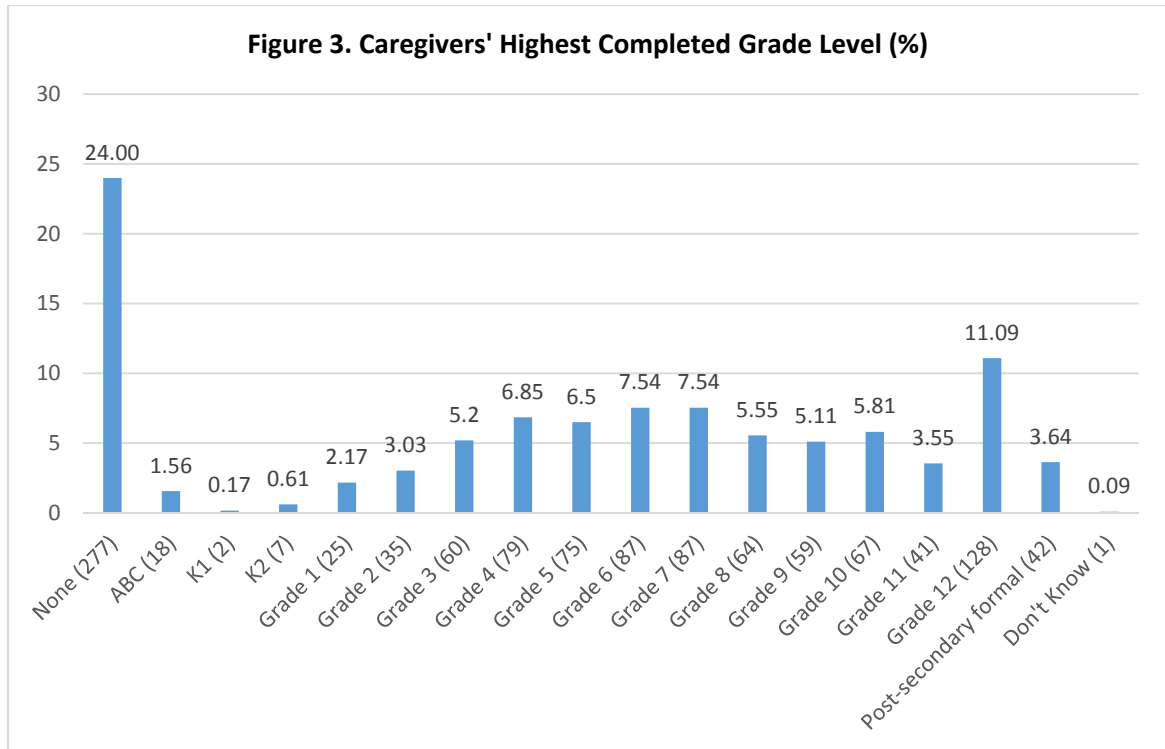
A larger percentage of girls lived with their biological mother than with their biological father (74.59% for mothers vs. 58.63% for fathers). Among girls who did not live with their mothers, the most common reasons reported were that the girl was sent away for school (42.39%), that the mother remarried (17.15%) or that the mother died (12.94%). Among girls who did not live with their fathers, the most common reasons reported were that the father died (26.84%), the father remarried (20.28%) or the girl was sent away to school (19.28%).

<b>Table 6. Girl survey item B12: Is your biological mother living with you?</b>	<b>Percent</b>	<b>Number</b>
No	25.41%	309
Yes	74.59%	907
	<b>Total</b>	<b>1216</b>
<b>Girl survey item B13: If not with mother, what is the main reason you are not living in the same house?</b>	<b>Percent</b>	<b>Number</b>
I left or was sent away for school	42.39%	131
Mother remarried	17.15%	53
Mother died	12.94%	40
Mother got divorced / separated	7.44%	23
Mother left for work	7.12%	22
Other reason(s)	6.80%	21
I left or was sent away for work	4.53%	14
I got married	1.62%	5
	<b>Total</b>	<b>309</b>

<b>Table 7. Girl survey item B14: Is your biological father living with you?</b>	<b>Percent</b>	<b>Number</b>
No	41.37%	503
Yes	58.63%	713
	<b>Total</b>	<b>1216</b>
<b>Girl survey item B15: If not with father, what is the main reason you are not living in the same house?</b>	<b>Percent</b>	<b>Number</b>
Father died	26.84%	135
Father remarried	20.28%	102
I left or was sent away for school	19.28%	97
Father left for work	12.33%	62
Father got divorced / separated	9.15%	46
Other reason(s)	6.36%	32
Don't know	0.20%	1
	<b>Total</b>	<b>503</b>

## Basic Caregiver/Head of Household Characteristics

The majority of caregivers interviewed in the caregiver survey were female (72.27%) (see appendix *Table A7*). When asked about the highest grade level they completed in school, the most common response was none (24.00%). The next most commonly-reported level was grade 12 (11.09%). Most of the rest of the caregivers (58.85%) fell somewhere between grade 1 and grade 11, with a relatively even spread across grades (see appendix *Table A8*).



In the majority of cases (71.92%), the caregiver interviewed was the head of household. In cases where the caregiver was not the head of household, the head of household was most commonly the father of the girl (58.02%) (see **Table A9** in appendix).

<b>Table 8. Caregiver survey Item B5: Are you the head of this household?</b>	<b>Percent</b>	<b>Number</b>
No	28.08%	324
Yes	71.92%	830
	<b>Total</b>	<b>1154</b>

Among household heads who were not the caregiver, the most common highest level of educational attainment was no education (21.30%), followed by grade 12 (25.00%) (see appendix **Table A10**).

Among all household heads (regardless of whether or not they were the caregiver interviewed), the most common type of primary employment was agriculture/fishing (self-employed) (69.84%), followed by business/self-employed (e.g. market vendor) (9.79%).

<b>Table 9. Caregiver survey Item B8: What is the main thing the head of the household is doing for living?</b>	<b>Percent</b>	<b>Number</b>
Unemployed	4.07%	47
Agriculture/fishing (self-employed)	69.84%	806
Agriculture/fishing (i.e. paid by someone else to farm/fish)	5.55%	64

Non agriculture wage labor (i.e. paid by someone else on an hourly/daily basis)	1.65%	19
Business/self-employed (e.g. market vendor)	9.79%	113
Salaried/ professional	7.63%	88
Domestic worker (e.g. housewife)	0.69%	8
Student	0.09%	1
Other	0.69%	8
	<b>Total</b>	<b>1154</b>

## Girl Survey

### Perceived Ebola Impact

The GE baseline assessment took place just as the 2014-2015 Ebola crisis ended in Liberia. As a result, Ebola-specific questions were added to the girl survey to gauge the impact of Ebola on the girls interviewed. Among all of the girls interviewed, 4.19% reported that Ebola had killed one or more of their family members. Within that group, the most commonly reported family member killed was an aunt (38.78%) or an uncle (32.65%) (see appendix *Table A11*).

Most girls (80.59%) reported that the Ebola crisis had no continuing impact on their lives at the time of the interview. Among those who did report a continued impact, the most common was that the girl or her family members who used to go to school were no longer going to school (12.01%) or that the girl was afraid or less confident (7.24%).

<b>Table 10. Girl survey Item C1: What are all of the ways that the Ebola crisis is still affecting your life now and the life of your family in terms of income, schooling, living conditions and loss of family or friends?</b>	<b>Percent</b>	<b>Number</b>
No impact now	80.59%	980
Me or my family members that used to go to school are no longer going to school	12.01%	146
We are afraid, less confident	7.24%	88
It stopped my family from going to work	6.74%	82
Family members are hungry more often	5.43%	66
It killed some of my family members	4.19%	51
Me and my family members cannot afford transportation costs, and we don't travel as much as we used to	3.37%	41
The family had to change houses	0.58%	7
It is difficult for my family to pay for housing	0.33%	4
Family members get more sick	0.33%	4
Other	0.33%	4
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216

## School Participation

The GE baseline assessment spanned two school years and was fielded during a time of irregularity in the academic calendar because of the Ebola crisis. Among all interviewed girls, 60.20% reported that the 2014/2015 school year was still in session at the time they were interviewed, whereas 32.24% reported that school was not currently in session, while 5.26% reported that the next (2015/2016) school year was in session. This outcome is presented because school breaks and holidays may impact upon girls' vulnerability to sexual violence.

<b>Table 11. Girl survey item B4. What school year is currently in session?</b>	<b>Percent</b>	<b>Number</b>
2014/2015 school year	60.20%	732
2015/2016 school year	5.26%	64
School not currently in session	32.24%	392
Don't know	2.22%	27
No response	0.08%	1
	<b>Total</b>	<b>1216</b>

The vast majority of girls (85.03%) had been enrolled during the 2014/2015 school year (the one that began before the Ebola outbreak). The most commonly-cited reason for lack of enrollment that year was that the family could not afford it (48.89%) or the Ebola epidemic (21.11%).

<b>Table 12. Girl survey item B5: Let's talk about the 2014/2015 school year that was shortened due to Ebola. Were you enrolled in that school year, OR if that school year is still in session are you currently enrolled?</b>		
	<b>Percent</b>	<b>Number</b>
Yes, I am/was enrolled	85.03%	1034
No, I am/was not enrolled	14.80%	180
Don't know	0.16%	2
	<b>Total</b>	<b>1216</b>
<b>Girl survey item B5a. if you were not enrolled ("no" to B5), what is the first main reason you are (were) not enrolled in the 2014/2015</b>		
	<b>Percent</b>	<b>Number</b>
Family could not afford	48.89%	88
Result of Ebola epidemic	21.11%	38
Too many domestic responsibilities	5.00%	9
Finished school	4.44%	8
Got pregnant	2.78%	5
No school places available (school full)	1.67%	3
School too far / no school in vicinity	0.56%	1
Family does not approve/see benefit	0.56%	1
Other	15.00%	27
	<b>Total</b>	<b>180</b>

Most girls (83.55%) were not enrolled in the 2015/2016 school year at the time they were interviewed, mainly (95.96% of cases) because registration had not yet opened (see appendix *Table A12*).

Girls reported missing an average of 2.67 days of school in the month before the interview (or the last month school was in session).

<b>Table 13. Girl survey item B5b: How many days did you miss school last month or in the last month that school was in session?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1010	2.67	2	3.41	0	23

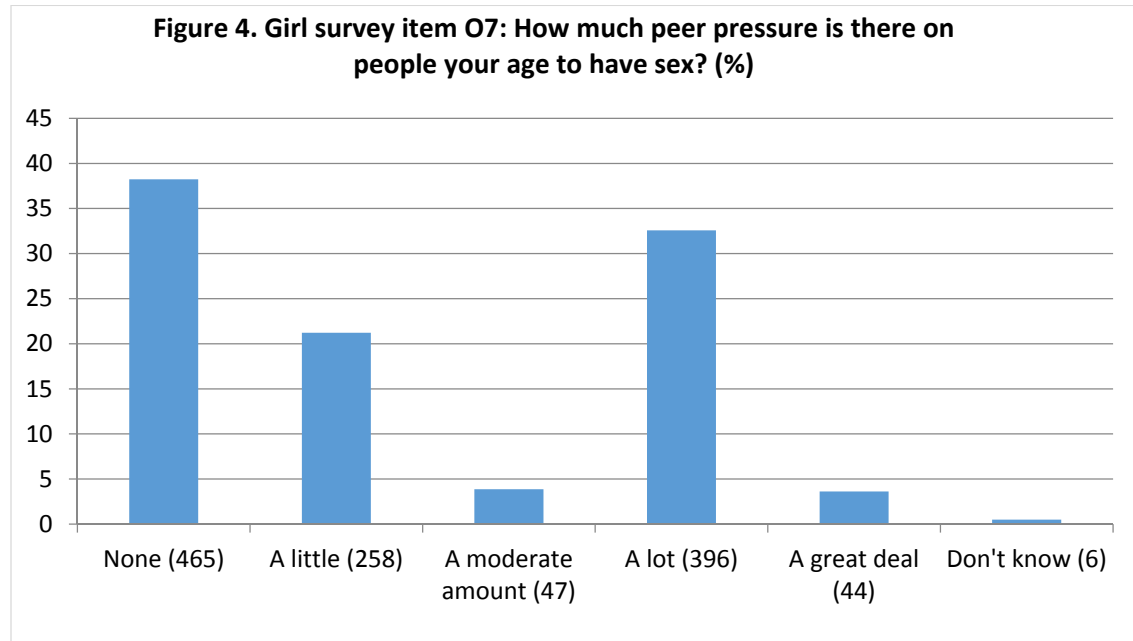


Among girls who had missed school during that period, 54.89% reported that the primary reason was that they were sick. The second most commonly-cited reason for missing school was having housework or farm work to do (15.95%).

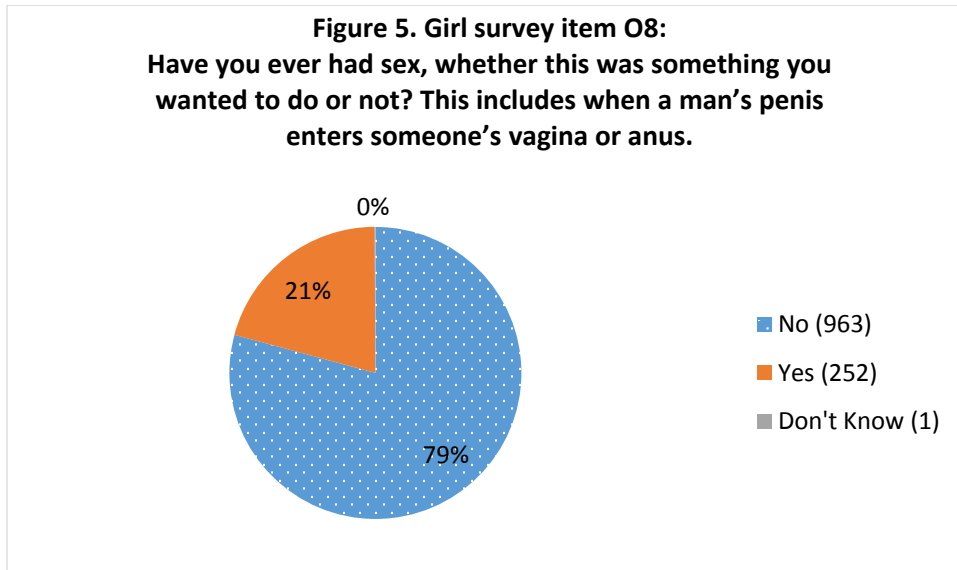
<b>Table 14. Girl survey item B5c: If missed school (item B5b&gt;0), what was the main reason you missed school last month or in the last month school was in session</b>	<b>Percent</b>	<b>Number</b>
Sick	54.89%	382
Had housework/farm work to do	15.95%	111
Tuition outstanding	7.18%	50
Had to take care of a child or sick relative	4.60%	32
Too tired	4.31%	30
Did not want to go to school	3.74%	26
Had to go to work for money	1.15%	8
Other	8.19%	57
<b>Total</b>		<b>696</b>

## Sexual History

The GE baseline assessment asked girls a variety of questions about their sexual history. When asked about how much peer pressure they were under to have sex, 38.24% reported they were under no pressure, 21.22% reported they were under a little pressure and 32.57% reported they were under a lot of pressure (see appendix *Table A13*).



However, the majority (82.07%) reported never having “kissed a boy in a loving or sexy way” (see appendix *Table A14*). When asked whether or not they had ever had sex, 20.72% of girls reported that they had (see appendix *Table A15*).



Among girls who had previously had sex, 97.62% reported having had vaginal sex and 3.97% reported having had anal sex.

<b>Table 15. Girl survey item O9: If have had sex (“yes” to item O8), what kind of sex have you had?</b>		
	<b>Percent</b>	<b>Number</b>
Vaginal	97.62%	246
Anal	3.97%	10
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>		<b>Respondents:</b> 252

Among girls who had ever had sex, the average age at which they first had sex was 12.3 years old and the median age was 13.

<b>Table 16. Girl survey item O10: If have had sex (“yes” to item O8), how old were you when you first did man and woman business, by which I mean vaginal or anal intercourse?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
247	12.3	13	2.62	1	14

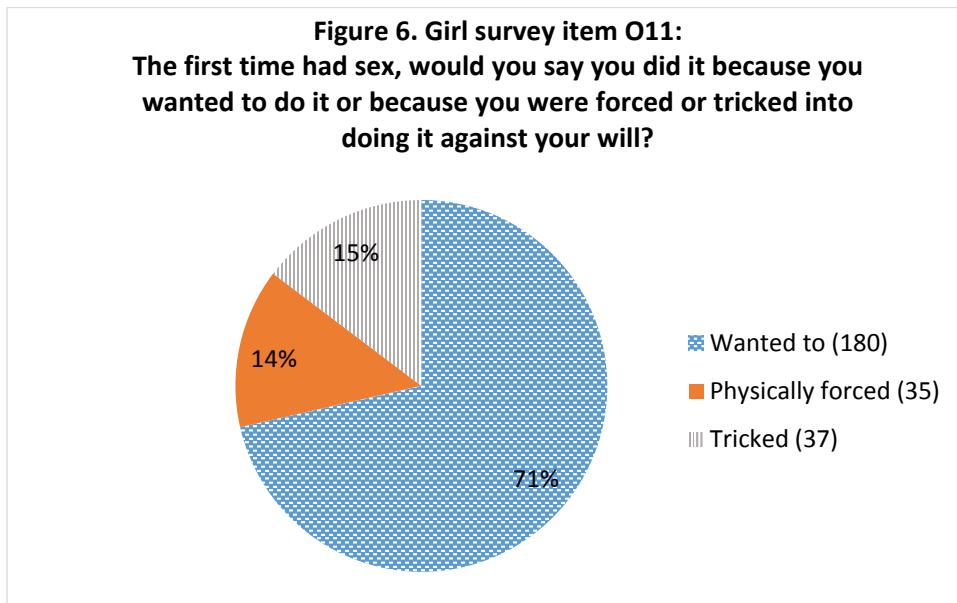
The average number of sexual partners these girls report having had in their lifetime was 1.43 and the median number was 1. During the 12 months before the interview, these girls had an average of 1.24 sexual partners and a median of 1 sexual partner.

<b>Table 17. Girl survey item O12: If have had sex ("yes" to item O8), can you tell me how many sexual partners you have had in your lifetime?</b>					
Observations	Mean	Median	SD	Min	Max
251	1.43	1	0.76	1	5

<b>Table 18. Girl survey item O13. If have had sex ("yes" to item O8), in the past 12 months, how many different sexual partners have you had?</b>					
Observations	Mean	Median	SD	Min	Max
250	1.24	1	0.5	1	3

### Consent for First Sexual Act

As shown in Figure 5 below (and appendix *Table A16*), among girls who had ever had sex, 71.43% reported that they had sex for the first time because they wanted to. In contrast, 13.89% reported that the first time they had sex, they were physically forced, and 14.68% reported that they were tricked.



## Condom use

Girls interviewed as part of the GE baseline assessment reported low rates of condom-usage. Among girls who had ever had sex, the majority (68.65%) reported that they had never used a condom during intercourse in the 12 months before the survey. Just 7.54% reported that they had always used a condom and 23.41% reported they had sometimes used a condom.

<b>Table 19. Girl survey item O14: If have had sex (“yes” to item O8), in the past 12 months, how often did you or your partners use a condom (male or female) during vaginal or anal intercourse?</b>	<b>Percent</b>	<b>Number</b>
Always	7.54%	19
Sometimes	23.41%	59
Never	68.65%	173
No Response	0.40%	1
	<b>Total</b>	<b>252</b>

Asked whether or not they had used a condom the last time they had sex, 87.30% (of girls who had ever had sex) reported that they had not.

<b>Table 20. Girl survey item O15: If have had sex (“yes” to item O8), the last time you had sex, did you use a condom?</b>	<b>Percent</b>	<b>Number</b>
No	87.30%	220
Yes	12.70%	32
	<b>Total</b>	<b>252</b>

## Pregnancy

Among girls who had ever had sex, 7.94% (20 girls) had been pregnant (see appendix *Table A17*). Each of these had been pregnant only once.

<b>Table 21. Girl survey item O17: If ever pregnant (“yes” to O16), how many times have you ever been pregnant? This includes all pregnancies, even if the pregnancy did not end with a live birth.</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
20	1	1	0	1	1

Most of the girls who had been pregnant reported having wanted to wait (until later) to get pregnant (65.00%) or that they had not wanted children at all (25.00%). Only 10.00% of girls who had been pregnant (n=2) reported that they wanted to get pregnant (see appendix *Table A18*). Among the girls who had ever been pregnant, 45% were pregnant at the time of the interview, 30.00% had given live birth to the child, 15% had aborted and 10% had miscarried

(see appendix *Table A19*). Among those who gave live birth to their child, the child was most commonly living with the respondent (66.67%) or with the father (20.00%) (see appendix *Table A20*).

## Marriage and Relationships

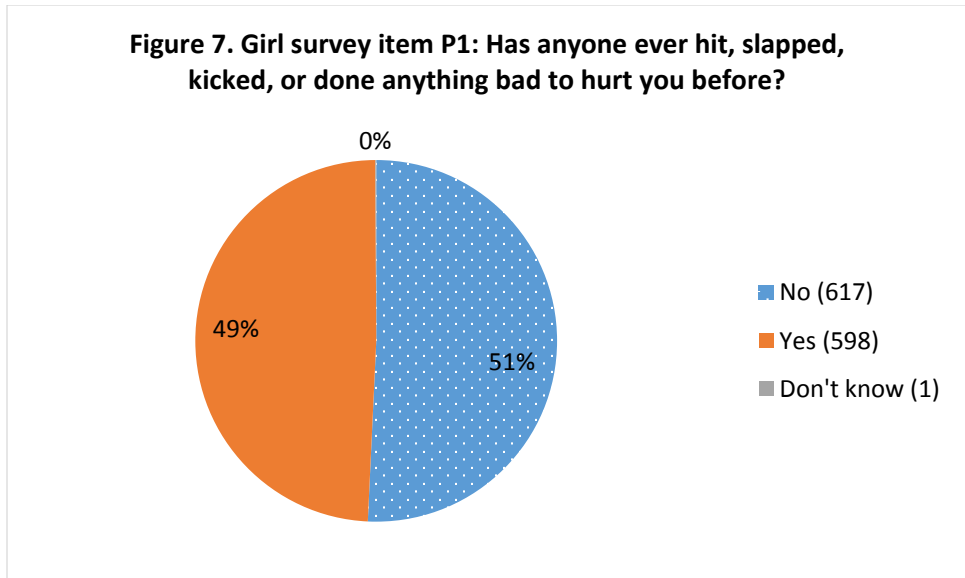
Almost all of the girls interviewed during the GE baseline survey (99.18%) were not married or living with a man/boyfriend as if married.

<b>Table 22. Girl survey item O2. Are you married now or you living with someone just like you are married?</b>	<b>Percent</b>	<b>Number</b>
No	99.18%	1206
Yes married but not living with husband	0.16%	2
Living with a man/boyfriend as if married	0.58%	7
Don't Know	0.08%	1
	<b>Total</b>	<b>1216</b>

Among those who were married or living with a man/boyfriend as if married (9 girls), 88.89% reported that they got married or started living together willingly (see appendix *Table A21*). The average age of these girls' husbands/partners was 18.43 years old and the median age was 18 years old (see appendix *Table A22a*). Among girls who were not married, 20.31% reported that they had a boyfriend (see appendix *Table A22b*). The average age of the girl's boyfriend was 15.83 years old, whereas the median age was 17 years old (see appendix *Table A22c*).

## Physical Violence

A significant proportion of girls interviewed as part of the GE baseline assessment had been victims of physical abuse. Just under half, 49.18%, of girls reported that someone had ever hit, slapped, kicked or done anything bad to hurt them (see appendix *Table A23*).



Among those who reported having ever been physically abused in these ways, 4.85% reported that the abuse had happened often in the 12 months before the interview and 79.93% reported that it had sometimes happened.

**Table 23. Girl survey item P2: If ever abused (“yes” to P1), in the last 12 months, how often have you been hit, slapped, kicked, or physically hurt by this/these person(s)?**

	Percent	Number
Often	4.85%	29
Sometimes	79.93%	478
Never	15.22%	91
<b>Total</b>		<b>598</b>

## Sexual Abuse and Exploitation

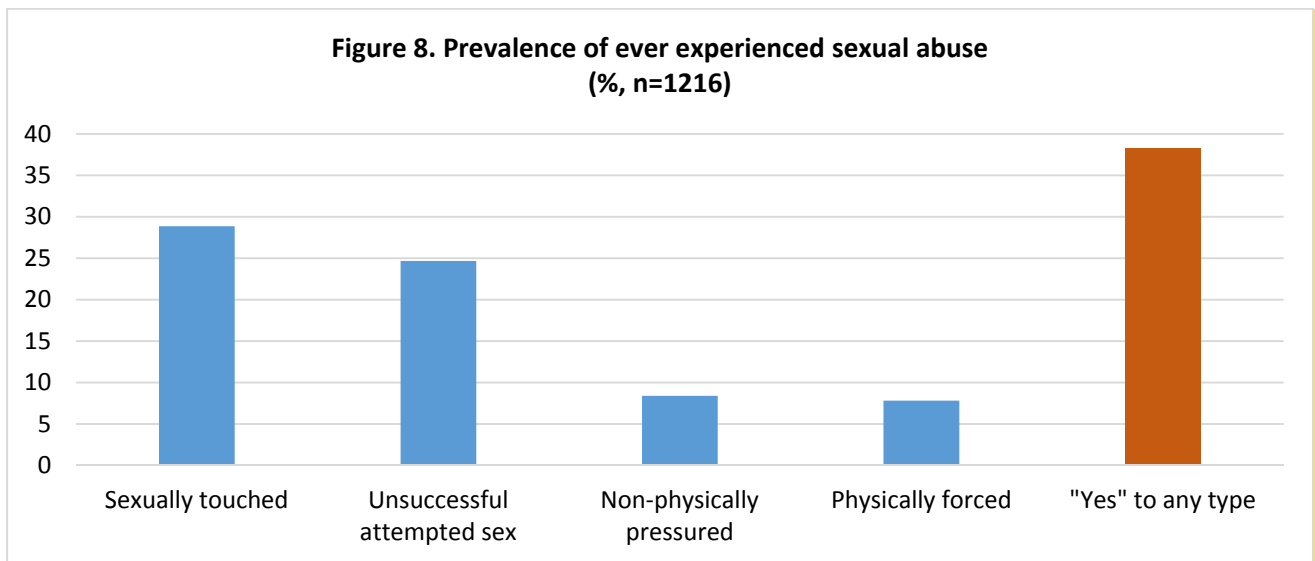
### Ever experienced sexual abuse or exploitation

One of the primary objectives of the GE program is to reduce the incidence of sexual abuse and exploitation. In order to gauge this at baseline, the GE girl survey included a section focused on the topic. Girls were first asked if they had experienced a particular type of sexual abuse or exploitation and then whether or not it had happened in the past 12 months (see appendix **Table A24**).

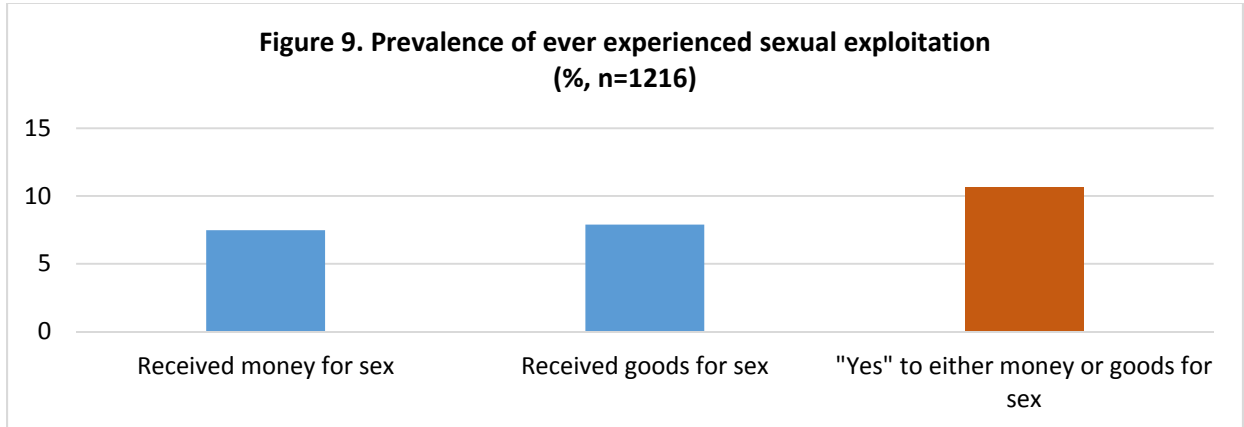
As shown in the Figure 7 below, over one-third (38.32%) of all girls had experienced at least one of the four types of sexual abuse. The most common type of abuse girls reported was sexual touching: 28.87% of girls reported having ever been touched in sexual way without their permission, and among those girls, 86.89% reported that it had happened within the past 12 months.

The second-most common form of abuse girls reported was unsuccessful attempts to force them to have sex: 24.67% of girls reported that someone had tried to have sex with them against their will, but had not succeeded, and 85.33% of those girls reported that this had happened to within the past 12 months.

The third most common type of sexual abuse was being pressured in a non-physical way (coerced or persuaded), which 8.39% of girls reported. The fourth most common experience was being physically forced to have sex, which 7.81% of girls reported. The majority of girls who experienced these two types of abuse said that the abuse happened in the 12 months prior to the interview.

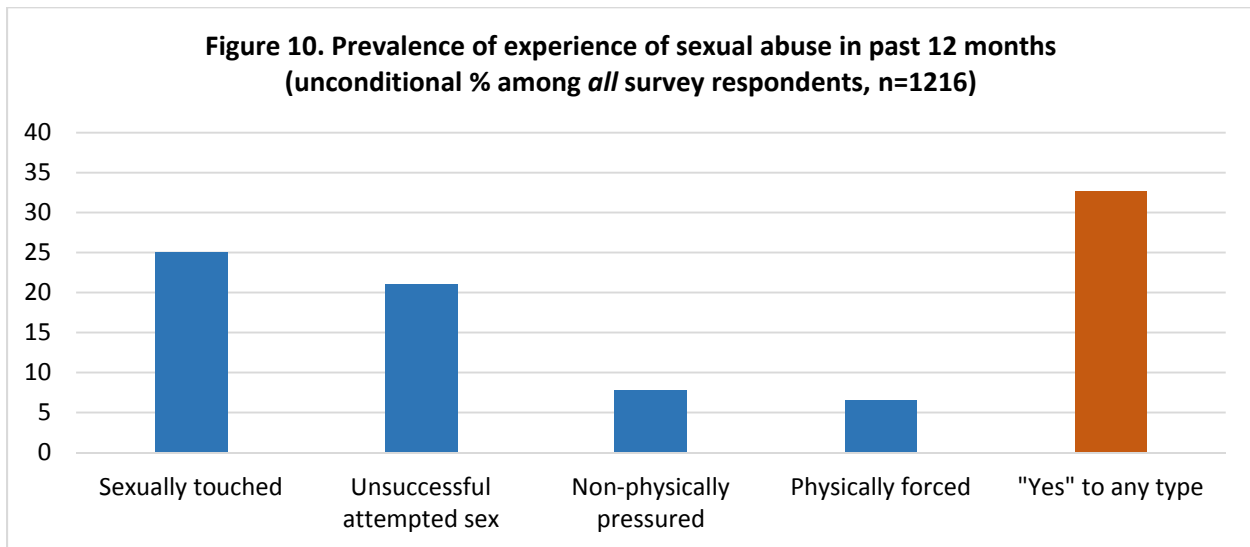


With regard to sexual exploitation, 7.48% of girls reported being given money to have sex; 7.89% reported being given gifts or favors to have sex; and 10.65% had been given either money or gifts or favors to have sex. The majority of girls who experienced sexual exploitation said that it occurred in the 12 months before the survey.



#### Experienced sexual abuse in the past 12 months

The prevalence of sexual abuse in the past 12 months among *all* girls surveyed (not just among those who answered “yes” to ever experienced of each type), closely mirrors the figures for ever-experienced. This implies that much of the sexual abuse experienced by girls has begun rather recently in their lives.





## Post-traumatic Stress

If a girl reported having been the victim of physical or sexual abuse or exploitation (“yes” to any of one of girl survey questions Q1-Q6), she was asked a series of questions related to post-traumatic stress. The questions in this section were taken from the Children’s Revised Impact of Event Scale (CRIES-8). The CRIES-8 scale is a tool used by international programs<sup>3</sup> to screen children at risk for post-traumatic stress symptoms. The CRIES-8 questions ask respondents how often they have particular reactions related to their experience of abuse. Respondents are asked to select between: Not at all, Rarely, Sometimes or Often. These responses are scored as 0, 1, 3 and 5 respectively. The scores for each question are then summed to create intrusion and aversion subscales as well as a composite scale. The average CRIES aversion subscale score was 10.67 (of a possible 20), the average CRIES intrusion subscale was 7.59 (of a possible 20) and the average CRIES composite scale (the sum of the two subscales) was 18.25 (of a possible 40) (see appendix *Table A25*).

<b>Table 24. CRIES-8 Composite Scale (range: 0-40)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
465	18.25	18	7.77	0	40

<b>Table 25. CRIES Intrusion Subscale (range: 0-20)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
465	7.59	8	4.75	0	20

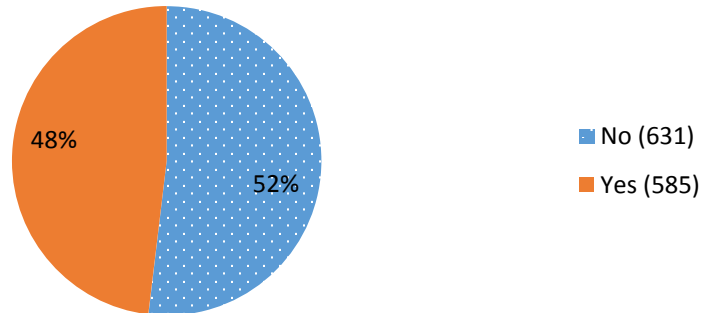
<b>Table 26. CRIES Aversion Subscale (range: 0-20)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
466	10.67	10	5.17	0	20

## Social Networks and Safety

As part of the baseline assessment, girls were asked a series of questions about their social networks and sense of safety. Asked whether or not there was a place they could go to sleep in an emergency situation, most (51.89%) girls reported there was not (graph below and appendix *Table A26*).

<sup>3</sup> <http://www.childrenandwar.org/measures/children%E2%80%99s-revised-impact-of-event-scale-8-%E2%80%93-cries-8/>

**Figure 11. Girl survey item E1:  
Percentage of Girls with a Safe Place Away from Home to  
Sleep during an Emergency**



Among those who reported that there was such a place, 79.66% indicated that place was a relative’s home and 22.74% reported it was a friend’s home.

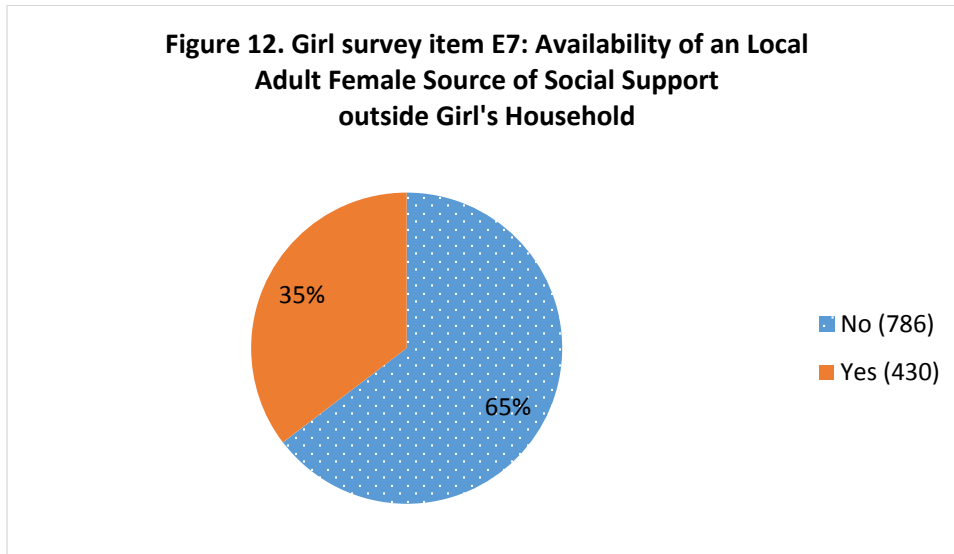
<b>Table 27. Girl survey item E2: If yes to safe place outside of home to sleep (yes to E1), where could go to sleep if there was an emergency or something happened that made you feel unsafe where you usually sleep?</b>	<b>Percent</b>	<b>Number</b>
Relative’s home	79.66%	466
Friend’s home	22.74%	133
Home of boyfriend	2.74%	16
Other	1.54%	9
Shelter	0.34%	2
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	585

With regard to safety around schooling, most girls (93.12%) who attended school indicated that they felt safe there. Most (91.40%) also reported that they felt safe traveling to school (see appendix **Table A27** and **Table A28**).

The majority of girls (80.92%) indicated that there was a safe place in the community outside of school or home where they felt free to meet and talk freely with other girls. Among those who reported that such a place existed, 72.97% said they rarely went to that safe place and 22.15% said that they went there every day (see appendix **Table A29** and **Table A30**).

When asked about their relationships with adults, just 35.36% of girls reported that there was a woman in the community outside of their own household who they could usually go to with problems (see appendix **Table A31**). In terms of friendships with other girls, 95.72% of girls reported that they had girl friends around their age (outside their own household). Among those

who had girl friends around their age, the average number of friends was 3.19 and the median number was 3.



<b>Table 28. Girl survey item E8. Do you have any girl friends around your age group outside of your household?</b>		
	Percent	Number
No	4.28%	52
Yes	95.72%	1164
<b>Total</b>		<b>1216</b>

<b>Table 29. Girl survey item E9. If any friends outside of household ("yes" to E8), how many?</b>					
Observations	Mean	Median	SD	Min	Max
1164	3.19	3	1.93	1	15

## Self-Esteem

The GE baseline assessment included a section aimed at measuring girls' level of self-esteem using the Rosenberg Self Esteem Scale. Girls were asked questions regarding their feelings and attitudes towards themselves, and could respond with either strongly disagree, disagree, agree or strongly agree. Responses were coded on a scale of 1 to 4. For questions where agreement indicates higher self-esteem, disagree strongly was coded as 1, disagree as 2, agree as 3 and strongly agree as 4. For questions where agreement indicates lower self-esteem, the answer choices were reverse-scored. The values for each of the questions included in the scale were then summed to produce a self-esteem scale for each girl. The mean self-esteem score among the girls interviewed in the GE baseline assessment was 31, as was the median (see appendix **Table A32**).

<b>Table 30. Girl survey: Rosenberg Self-Esteem Scale (range: 0-40)</b>					
Observations	Mean	Median	SD	Min	Max
1212	31	31	4.28	15	40

## Aspirational Attitudes

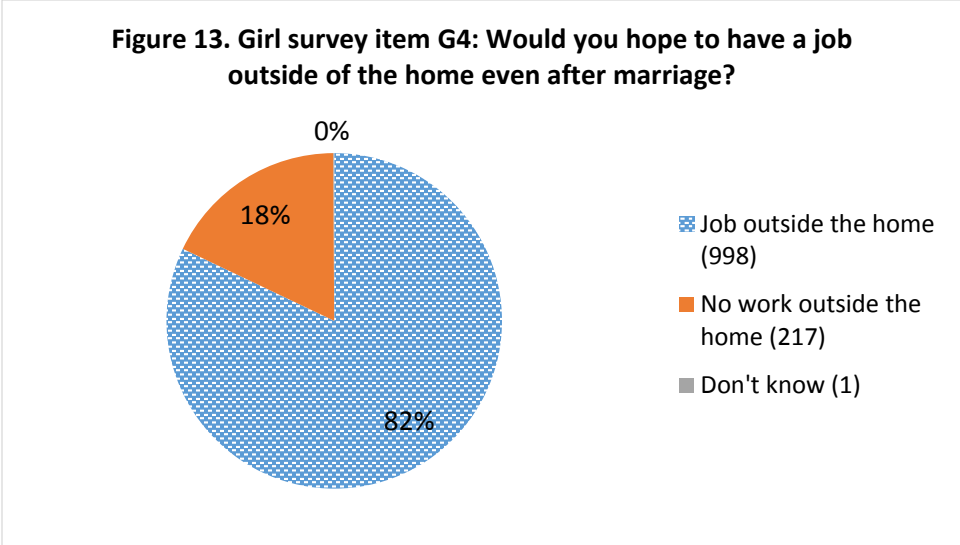
As part of the interview process, girls were asked about their hopes and plans for the future. Most of the girls indicated that they would like to reach a high educational level: 55.92% said they hoped to reach grade 12 (the completion of secondary school) and 28.78% said they hoped to have some level of formal post-secondary education (see appendix *Table A33*).

<b>Table 31. Girl survey item G1: What grade in school would you hope to complete before leaving school?</b>		
	<b>Percent</b>	<b>Number</b>
None	0.58%	7
Grade 9 or lower	5.33%	65
Grade 10-11	8.88	108
Grade 12	55.92%	680
Post-Secondary Formal	28.78%	350
Don't know	0.49%	6
	<b>Total</b>	<b>1216</b>

Girls were also asked to report the age at which they hoped to get married and the age at which they hoped to have their first baby. The average age at which girls hoped to get married was 25.77 years old (the median was 25) and the average age at which girls hoped to have their first baby was slightly lower, at 25.55 years old (the median was 24). In addition to these questions, girls were also asked whether or not they hoped to get a job outside of the home when they grew older. The majority (82.07%) reported that they did hope to get a job outside of the home (see appendix *Table A34*).

<b>Table 32. Girl survey item G2: At what age would you hope to get married?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1158	25.77	25	8.18	3	92

<b>Table 33. Girl survey item G3: At what age would you hope to have your first baby?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1154	25.55	24	7.85	12	84



**Attitudes Regarding Gender Roles and Violence**

The girl survey asked girls a series of questions about their perception of gender roles, gender relations and gender-based violence. One of those questions asked girls to describe what characterizes a good, healthy male-female relationship. Girls could mention as many attributes as they wanted. The most commonly-cited attributes were hardworking (53.13%), financial support (49.26%) and general respect (36.60%).

<b>Table 34. Girl survey item J1. Please tell me some things that describe a good, healthy male-female relationship</b>	<b>Percent</b>	<b>Number</b>
Hardworking	53.13%	646
Financial support	49.26%	599
General respect	36.60%	446
Faithfulness	21.55%	262
Respectful of partner’s feelings	16.20%	197
Emotional Support	15.79%	192
Listens to partner	14.80%	180
Respectful for partner desires	10.69%	130
Don’t know	3.04%	37
Other	1.07%	13
No Response	0.25%	3
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

In addition to being asked to describe the characteristics of a healthy male-female relationship, girls were also asked a series of questions about their beliefs about such relationships and about gender roles in general. These questions consisted of the Gender Equitable Attitudes subscale within the Gender Relations Scale (Stephenson et al., 2012), and in each, girls were asked to agree or disagree with a given statement. Agree responses were coded as 1 and disagree as 0.

The values of each of the questions were then summed to produce a gender relations score for each girl. Two questions, “You don’t talk about sex, you just do it” and “A man should know what his partner likes during sex,” were omitted because of the relative sexual inexperience of girls in the GE survey. The total possible score was therefore 14 (instead of the usual 16). The average score among interviewed girls was 7.52, and the median score was 7. A relatively high percentage of girls gave answers to the gender relations scale questions indicating agreement with unequal roles between men and women: 48.68% of girls, for example, agreed that men need sex more than women, 51.73% agreed that it is a woman’s duty not to get pregnant, 54.69% agreed that women should accept violence to keep the family together and 34.46% agreed that a man can beat his wife if she does not agree to have sex with him. The majority (84.13%) of girls did, however, believe that a husband and wife should agree if they want to have children. The distribution of responses for the remaining questions in the gender relations scale can be found in *Table A35* of the appendix.

<b>Table 35. Girl survey: Gender Equitable Attitudes Scale results (range: 0-14)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1197	7.52	7	3.03	0	14

## Relationship and Communication with Adults

The GE program aims to improve outcomes for girls both through direct interventions with girls and through their caregivers. As a result, it is important to assess baseline indicators of girls’ relationships with adults. To do this, the survey asked girls a series of questions from the Monitoring, Conflict, Emotional Support and Financial Support (MCEF) scales (Bingenheimer et al, 2014). The first two questions asked the girl whether or not there was an adult in her life who knew where she was during the day and at night (response options were yes or no). If the girl answered yes to either of those questions, she was then asked to identify the person. In the remaining scale questions, girls were read a statement about the adults in their lives and were asked to respond with: not true at all, somewhat true or very true. In two of the questions, the girl was also asked to identify who the adult was that fit the description in the statement. For questions with the not true at all/somewhat true/very true response options, not true at all was coded as 1, somewhat true was coded as 2 and very true was coded as 3. For the questions that had yes/no response options, yes was coded as 3 and no as 1.

To construct the final composite scale, the values for all of these variables were summed. Subsets of the questions were also summed to create subscales for the monitoring, conflict, emotional support and financial support components of the composite scale. The average composite MCEF score for girls interviewed was 24.75 with a median score of 25. Average and median values for the subscales are given in *Table A36* in the appendix.

The majority of girls reported that they had an adult in their lives who knew where they were during the night (79.85%) and day (89.47%) (see appendix *Table A37* and *Table A38*). The majority also indicated that it was “very true” that they had an adult in their lives who provided for their daily necessities (87.91%) and gave them money (71.13%). In each case, girls most

commonly reported that their mother served in these roles. In each case, the next most commonly-identified adult in these roles was their father (see appendix *Table A39*).

<b>Table 36. Girl survey item D13: There is a big person in your life who gives you money (MCEF component)</b>	<b>Percent</b>	<b>Number</b>
Very true	71.13%	865
Not true at all	14.47%	176
Somewhat true	14.31%	174
Don't Know	0.08%	1
	<b>Total</b>	<b>1216</b>
<b>D14. If “yes” to D13, who usually gives you money?</b>	<b>Percent</b>	<b>Number</b>
Mother	55.44%	576
Father	51.49%	535
Brother	20.31%	211
Sister	18.09%	188
Uncle	13.86%	144
Aunt	12.90%	134
Boyfriend	3.56%	37
Other adult	2.12%	22
Play mom	0.10%	1
Husband	0.10%	1
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,039

The distribution of responses for the remaining MCEF scale questions are listed in appendix *Table A40*. The proportion of girls who responded “very true” was highest for the questions that reflected positive adult-child relationship qualities: 83.8% of girls, for example, indicated that it was “very true” that they had an adult in their lives who praised them. The percentage of “very true” responses, however, was somewhat lower for questions that reflected a negative adult-child relationship. 40.54% of girls, for example, indicated that it was “very true” that there was an adult in their lives who made them look small (put them down).

In addition to the questions used to construct the MCEF scale, girls were also asked whether or not they had a mentor in their life and whether or not they had an adult they would ask to take them to important events: 95.64% of girls reported that they did have a mentor. Among those girls who had a mentor, the mentor was most commonly their mother (39.86%) or their father (14.93%). The most common topics girls reported discussing with their mentor were plans for the future, school lessons and health problems (see appendix *Table A41*). Almost all of the girls interviewed (99.67%) reported that they had an adult in their life who they would ask to escort them to important events. As with the mentor, the person girls most often identified in this role was their mother (50.00%) or their father (20.21%). As with the mentor question, the most common topics girls reported discussing with this person were plans for the future, health problems and school lessons (see appendix *Table A42*). This question was intended to help

identify the adult the girl would be most likely to ask to attend caregiver meetings if she were part of the GE program. Whenever possible, the person identified in this question was interviewed during the caregiver portion of the GE baseline assessment.

<b>Table 37. Girl survey item D15: Is there a big person in your life who you regard as your mentor? By mentor, I mean a person that respects you, listens to you and advises you to become a good person.</b>	<b>Percent</b>	<b>Number</b>
Yes	95.64%	1163
No	4.36%	53
	<b>Total</b>	<b>1216</b>
<b>D16. If “yes” to D15, who is that person?</b>	<b>Percent</b>	<b>Number</b>
Mother	39.86%	462
Father	14.93%	173
Aunt	10.79%	125
Sister	9.58%	111
Grandmother	8.80%	102
Brother	6.90%	80
Uncle	5.18%	60
Other adult	2.59%	30
Grandfather	1.12%	13
Boyfriend	0.17%	2
Pastor	0.09%	1
	<b>Total</b>	<b>1159</b>



<b>Table 38. Girl survey item D18. Is there a big person in your life who you would ask to escort or carry you to important events, like to go see a doctor, a meeting with a teacher or a meeting about helping girls like you?</b>	<b>Percent</b>	<b>Number</b>
Yes	99.67%	1212
No	0.33%	4
	<b>Total</b>	<b>1216</b>
<b>D19. If “yes” to D18, who is that person?</b>	<b>Percent</b>	<b>Number</b>
Mother	50.00%	606
Father	20.21%	245
Aunt	9.41%	114
Sister	5.78%	70
Brother	2.81%	34
Uncle	2.64%	32
Other adult	1.57%	19
Boyfriend	0.08%	1
	<b>Total</b>	<b>1212</b>

## Mental Health

In order to evaluate girls’ overall psychological wellbeing, the assessment asked a series of questions about girls’ moods and feelings. The questions were taken from the Short Mood and Feelings Questionnaire (SMFQ) scale (Angold et al., 1995). For each of the 13 questions, girls were read a statement and asked to respond with: not true, sometimes, or true. “Not true” responses were coded as 0, “sometimes” responses were coded as 1 and “true” responses were coded as 2. The values for each of the questions were then summed to produce a Short Mood and Feelings Questionnaire score for each girl. The average SMFQ score among girls interviewed was 8.5 and the median was 8.

Among the scale questions, the statement with the highest rate of “true” responses (33.47%) was “In the past two weeks, I was very restless”. This was followed by “In the past two weeks, I felt miserable or unhappy” (29.85%) and “In the past two weeks, I didn’t enjoy anything at all” (29.03%). The distribution of responses to all questions in the scale is listed in *Table A43* in the appendix.

<b>Table 39. Girls’ Mood and Feelings Questionnaire (SMFQ) Scale (range: 0-26)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1214	8.5	8	6.58	0	26

## Financial Literacy

Part of the GE program is aimed at increasing participants' financial literacy so that they can make better long-term choices. In order to gauge girls' level of financial literacy, the assessment asked a series of questions related to financial management knowledge and practices. When asked to identify from a list all the items that could be called something you need, the most common choices were food for your family (88.90%) or an extra pair of shoes (69.33%). Asked to identify from a list all of the items that could be something you need instead of just something you want, the most commonly selected response was food for the family (72.29%). Nearly one third of girls (30.18%), however, also indicated that a soft drink was a need rather than just a want (see appendix *Table A44*).

When asked to select from a list all of the reasons one might save money, the most commonly-cited reason was "To have money to meet an emergency (like an accident or illness)" (71.88%) (see *Table A45* in appendix). Approximately two thirds of girls (67.85%) reported that they had ever saved money for something, however, only about one third (32.97%) of the girls who answered affirmatively indicated that they were currently saving for something special. When asked to report all the things a girl can do to save money, the majority (88.24%) cited doing extra work for pay. The second most common response (37.17%) was to ask someone for money. The most common locations they reported that girls could save money were at home in a cash box (90.38%) or giving it to someone trusted (43.83%); few girls had access to secure methods of saving money.

<b>Table 40. Girls Saving Money</b>			
<b>Girl Survey Questions</b>	<b>Response options</b>		<b>Total</b>
	<b>No</b>	<b>Yes</b>	
14. Have you ever put money aside (saved) money for something before?	391 (32.15%)	825 (67.85%)	1216
15. If "yes" to 14, are you putting money aside (saving) right now for something special?	553 (67.03%)	272 (32.97%)	825

<b>Table 41. Girl survey item 16.</b>		
<b>What things can a girl do to save more money?</b>	<b>Percent</b>	<b>Number</b>
Do extra work for pay	88.24%	1073
Ask someone for money	37.17%	452
Sell sex for money	15.13%	184
Other	11.68%	142
Spend less on needs	7.81%	95
Reduce unnecessary spending	7.73%	94
Don't Know	0.41%	5
No Response	0.16%	2
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

<b>Table 42. Girl survey item 17. What are some different places where girls can put money aside (save)?</b>		
	<b>Percent</b>	<b>Number</b>
At home, cash box	90.38%	1099
Give it to someone you trust	43.83%	533
Bank, credit union, cooperative or microfinance institution	10.94%	133
Savings group	7.40%	90
Through a cell phone account	1.15%	14
Others	0.74%	9
Don't Know	0.08%	1
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

Only a small minority of girls (4.36%) had ever kept a record of the spending they did. Among those who had kept such a record, the majority (81.13%) only kept it some of the time.

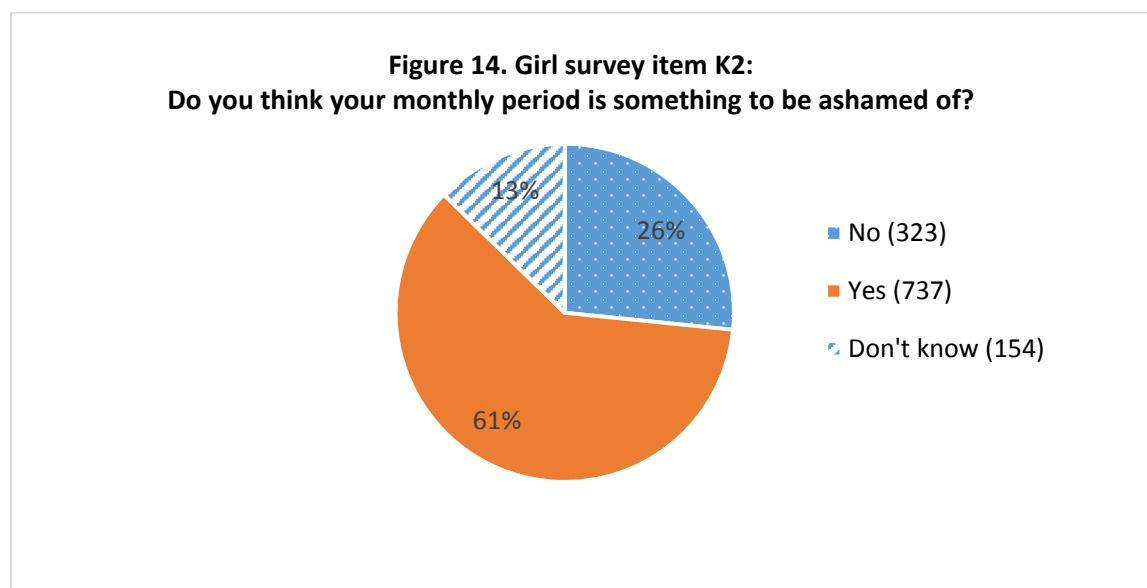
<b>Table 43. Spending Records</b>		
<b>Girl survey item 18.</b>		
<b>Have you ever written down the spending you do?</b>	<b>Percent</b>	<b>Number</b>
No	95.64%	1163
Yes	4.36%	53
	<b>Total</b>	<b>1216</b>
<b>19. How often do you do this?</b>		
	<b>Percent</b>	<b>Number</b>
Rarely	7.55%	4
Some of the time	81.13%	43
Most of the time	3.77%	2
Always	7.55%	4
	<b>Total</b>	<b>53</b>

When asked to list all of the sources of the money they spent over the past year (appendix **Table A46**), the majority of girls obtained money from their mothers and fathers (56.09% and 43.83%, respectively, as multiple responses were permitted). Roughly 12% obtained the money from another guardian with whom they live, and roughly 20% reported obtaining it from another relative. Very few indicated spending money earned from a small job or savings, and roughly 13 percent indicated that they simply do not purchase the item(s) they wish to buy. Nearly 65% indicated that they do not own anything that helps them earn money, while 22.04% indicated owning a basket or bucket and 11.84% indicated owning a garden or farm (see appendix **Table A47**).

## Health Literacy

During the survey, girls were asked several questions about their knowledge of health and physical maturation. When asked to indicate what menstruation is, nearly one-third (29.69%) reported that they did not know. More than half (60.61%), however, reported that menstruation was something to be ashamed of. Asked to list all of the physical changes that happen as a girl grows in to a woman (see appendix **Table A48**), the most commonly cited changes were the development of breasts (92.02%), growing taller (68.75%), growing hair in new areas of the body (47.86%) and menstruation (41.28%). In addition to these questions about physical development, girls were also asked what the side-effects could be of participating in rituals where a girl’s body is cut (female genital mutilation). More than half of girls (60.61%) reported that they did not know. The next most common response was getting an infection from the procedure (24.67%) and trouble in childbirth later (13.24%) (see **Table A49** in appendix). It should be noted, however, that ritual practices in Liberia related to female genital mutilation are often secretive. As a consequence, the high rate of “don’t know” responses to this question may in part be due to girls’ reluctance to discuss the topic.

<b>Table 44. Girl survey item K1:</b>		
<b>Can you tell me what menstruation, or your period is?</b>	<b>Percent</b>	<b>Number</b>
It is when you “receive” (monthly female bleeding)	40.63%	494
It happens once a month	19.33%	235
It is when blood comes out of the vagina	47.04%	572
It usually lasts about 3 to 7 days	21.79%	265
Don't Know	29.69%	361
No Response	0.41%	5
<i>*multiple responses allowed</i>		<b>Respondents: 1,216</b>



<b>Table 45. Girl survey item K4: Do you know of any health problems that can result for a girl after participating in the ritual where a girls' body is cut (Sande society)?</b>	<b>Percent</b>	<b>Number</b>
Don't Know	60.61%	737
Infection from the procedure	24.67%	300
Trouble in childbirth later	13.24%	161
Risk for sexually transmitted infections or HIV	6.09%	74
Other problem	5.92%	72
No Response	4.11%	50
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

## Knowledge about Family Planning Methods

As part of the focus on knowledge about sexual health and pregnancy, the survey asked girls several questions about family planning methods. Girls were first asked to list all of the methods of contraception that they had heard of. Two-thirds (67.02%) had heard of the oral contraceptive pill, more than half (53.45%) had heard of hormonal injection and nearly one-third (32.32%) had heard of the hormonal implant. When girls were then asked which method was best for young people, 41.83% chose the oral contraceptive pill, 29.91% chose the hormonal injection and 14.22% chose the hormonal implant. When girls were subsequently asked to list all of the family planning methods they had used in the past 12 months, 96.06% indicated that they had not used any family planning methods (this included girls who had not had sex in the past 12 months), 1.47% reported using a hormonal injection, 1.01% reported using a male condom, and 0.99% reported using a hormonal implant (see appendix *Table A50* for full list of items, and table below for abridged list).

<b>Table 46. Girl survey item L1: Can you tell me some methods of contraception or preventing pregnancy that have you heard of?</b>	<b>Percent</b>	<b>Number</b>
Oral contraceptive pill	67.02%	815
Hormonal injection (i.e. Depo Provera, Nur Isterate)	53.45%	650
Hormonal Implant (Implanon or Nexplanon)	32.32%	393
Male condom	17.02%	207
Don't Know	9.95%	121
Hormonal implant (Implanon or Nexplanon)	4.85%	59
Female condom	3.21%	39
Diaphragm	1.48%	18
Periodic abstinence / rhythm (a couple can avoid sex on days when pregnancy is most likely to occur)	0.74%	9
No Response	0.74%	9
Other	0.66%	8
Non-vaginal sex (Anal or oral sex, thigh sex)	0.33%	4
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

<b>Table 47. Girl survey item L2: Which one of the ways do you think is best for young people to use?</b>	<b>Percent</b>	<b>Number</b>
Oral contraceptive pill	41.83%	456
Hormonal injection (i.e. Depo Provera, Nur Isterate)	29.91%	326
Hormonal implant (Implanon or Nexplanon)	14.22%	155
Male condom	9.36%	102
Don't Know	1.47%	16
Intra-uterine device (IUD or Loop)	1.10%	12
Other	0.64%	7
Periodic Abstinence/Rhythm (a couple can avoid sex on days when pregnancy is most likely to occur)	0.37%	4
Diaphragm	0.46%	5
Female condom	0.28%	3
No Response	0.28%	3
Non vaginal sex (anal or oral sex, thigh sex)	0.09%	1
	<b>Total</b>	<b>1090</b>

<b>Table 48. Girl survey Item L3: I am now going to read out a list of contraceptive/family planning methods. Which of these have you used in the past 12 months?</b>	<b>Percent</b>	<b>Number</b>
Has not used any	96.06%	1047
Hormonal injection (i.e. Depo Provera, Nur Isterate)	1.47%	16
Male condom	1.01%	11
Oral Contraceptive Pill	0.99%	12
Don't Know	0.92%	10
Other	0.28%	3
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,090</b>

## Knowledge about Condoms

As additional measures of knowledge about sexual health, the assessment presented girls with a series of questions about condoms. Girls were then asked to agree or disagree with each statement: 62.17% of girls agreed that condoms are a good way of preventing pregnancy; 74.34% agreed that condoms are a good way of protecting against HIV/AIDS and 73.68% agreed that condoms are a good way of protecting against sexually transmitted infections. In addition, the majority of girls disagreed with both the statement that condoms can slip off the man and get lost inside the woman's body (60.44% disagreed) and the statement that condoms can be used more than once (63.9% disagreed). For each of these questions, between 6% and 12% of girls responded "don't know", which was a higher rate than in most other sections of the survey (see appendix *Table A51*).

## Knowledge about HIV/AIDS and Sexually Transmitted Infections

During the baseline assessment interview, girls were asked specific questions about their knowledge of HIV/AIDS and other sexually transmitted infections. The majority of girls (82.15%) reported that they had heard of HIV/AIDS. Among girls who had heard of HIV/AIDS, one-third (33.33%) believed it was possible to cure HIV/AIDS. Just under half (49.55%), however, believed that people living with HIV/AIDS can manage and survive.

<b>Table 49. Knowledge of HIV/AIDS</b>				
<b>Question</b>	<b>Response options</b>			<b>Total</b>
	<b>No</b>	<b>Yes</b>	<b>DK</b>	
M1. Have you heard of HIV or AIDS?	192 (15.79%)	999 (82.15%)	25 (2.06%)	1216
M2. Do you think it is possible to cure HIV/AIDS?	664 (66.47%)	333 (33.33%)	2 (0.2%)	999
M3. Do you think it is possible that people with HIV/AIDS can manage and survive?	500 (50.05%)	495 (49.55%)	4 (0.4%)	999

When asked to list all of the signs and symptoms of sexually-transmitted infections in women (see appendix **Table A52**), the most common responses were pain during urination (48.52%) and discharge from the vagina (32.81%). In addition, 30.92% of respondents reported that they did not know what any of the signs and symptoms were.

## Caregiver Survey

### Attitudes about Girls: Gender Role Norms

The GE program aims to assist girls both directly through mentorship meetings and indirectly through their caretakers. In order to gauge caretaker gender norm attitudes at baseline, the assessment asked caretakers a series of questions related to the topic. The questions were adapted from the Gender Norm Attitudes Scale (Waszak et al., 2000). For each question, caretakers were read a statement and asked whether they agreed or disagreed with it. For questions where agree indicated a more egalitarian attitude, agree was scored as 2 and disagree as 1. For questions where agree indicated a less egalitarian attitude, agree was scored as 1 and disagree as 2. The scores for each of the questions were then summed to create a composite Gender Norm Attitude Scale score for each caregiver. The scores for sub-sets of questions were then summed separately to create Rights and Privileges of Men, and Equity of Girls subscales. The average Composite Gender Norm Attitudes Scale score was 18.87 and the median was 19.

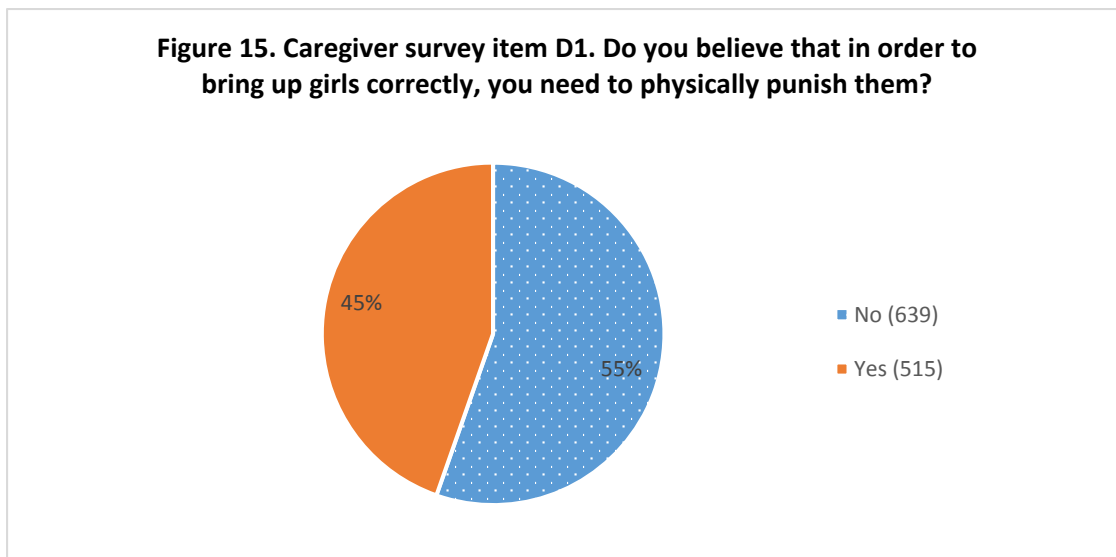
For all questions except one, the majority of caregivers selected the option that was scored as more egalitarian: 89.95% of caregivers, for example, disagreed with the assertion that it is better

boys to go to school than girls, and 72.1% of caregivers agreed with the assertion that daughters should have just the same chance to work outside the home as sons. The majority of caregivers (68.37%) did, however, agree with the statement that every woman needs a man to protect her because she cannot protect herself (see *Table A53* in appendix).

<b>Table 50. Composite Caregiver Gender Norm Attitudes Scale (range: 11-22)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1145	18.87	19	2.2	12.00	22.00
<b>Caregiver Rights and Privileges of Men Sub-Scale (range: 8-16)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1145	13.61	14.00	2.07	8.00	16.00
<b>Caregiver Equality of Girls Sub-Scale (range: 3-6)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1154	5.26	5.00	0.85	3.00	6.00

### Attitudes about Girls: Child Rearing

The monthly caregiver meetings that will take place as part of the GE program will focus on parenting skills. As a result, it was important to gauge caregiver attitudes towards parenting at baseline. To do this, the caregiver portion of the assessment asked caregivers a series of questions about their views on raising their daughters. Nearly half (44.63%) of caregivers believed that to raise girls properly, parents need to physically punish them (graph below and appendix *Table A54*) and 91.59% agreed that it is important to know where their 13-14 year-old is at all times of day and night.





<b><i>Table 51. Caregiver survey item D2: How true is this statement? It is important that you know where a 13-14-year-old girl can be at all times of the day or night?</i></b>	<b>Percent</b>	<b>Number</b>
Agree	91.59%	1057
Disagree	8.41%	97
	<b>Total</b>	<b>1154</b>

In addition, caregivers had relatively high aspirations for the level of education they hoped their daughters would reach before leaving school. The majority of caregivers (59.10%) reported that they hoped their daughters would reach some level of post-secondary education, and 38.21% reported that they hoped their daughters would complete the 12<sup>th</sup> grade. The fact that caregivers wanted their daughters to reach a relatively high level of education is consistent with girls' own aspirations: 97.1% of caregivers hoped their daughters would reach 12<sup>th</sup> grade or post-secondary schooling and 84.7% of girls reported the same. Caretaker preference for their daughters to reach a post-secondary level of education, however, was significantly higher than the girls themselves reported (59.10% of caretakers vs. 28.78% of girls).

<b><i>Table 52. Caregiver survey item D3: What grade do you want the girl(s) to finish before leaving school?</i></b>	<b>Percent</b>	<b>Number</b>
None	0.09%	1
Grade 6	0.09%	1
Grade 9	0.26%	3
Grade 10	1.21%	14
Grade 11	0.78%	9
Grade 12	38.21%	441
Post-Secondary formal	59.10%	682
Don't know	0.26%	3
	<b>Total</b>	<b>1154</b>

Just as with the girls, caretakers were also asked at what age they hoped their girl would get married and have her first baby. The average age caretakers reported hoping their girl would get married at was 26.06 years old (with a median age of 25) and the average age caretaker reported hoping their girl would have her first baby was 25.87 years old (with a median age of 25). These ages were relatively consistent with the average ages the girls themselves reported: 25.77 years old for getting married and 25.55 years old for having a first baby. In addition to the questions about marriage and having babies, caretakers were also asked whether or not they wanted their girls to get a job outside of the home after marriage. Nearly all (92.98%) of the caregivers reported that they would like their daughters to get a job outside of the home after marriage, consistent with girls' reports.

<b><i>Table 53. Caregiver survey item D4. At what age do you want the girl(s) to get married?</i></b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1117	26.06	25	5.46	13	55

<b>Table 54. Caregiver survey item D5: At what age do you want the girl(s) to have her/their first baby?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1118	25.87	25	5.53	14	56

<b>Table 55. Caregiver survey item D6: Do you want the girl(s) to have a job after marriage or to stay at home?</b>	<b>Percent</b>	<b>Number</b>
Job outside the home	92.98%	1073
No work outside the home	7.02%	81
<b>Total</b>		<b>1154</b>

## Discussion

In this section we examine the results from the GE baseline survey and put them into the context of existing literature. Although we used well-known, validated measures and scales, it was difficult across the board to find results to serve as comparators. This was the case for several reasons: first, GE respondents are much younger than most respondents in studies that assess similar outcomes; second, for many of the scales, studies that have employed them seldom report the outcome score for the scale itself - the score is instead often used as a covariate for predicting some other outcome of interest.

A primary finding is that although the percentage of GE girls who had sexually debuted as of the baseline survey was not noticeably higher for their age than available comparable sources for the region indicate, their levels of experiencing sexual abuse appear to in fact be quite high. Details of these key outcomes, and others in the survey, are discussed below.

### SEXUAL DEBUT

The level of sexual initiation among GE respondents was 20.72 percent. Within the UNICEF Violence against Children Surveys (VACS) from Sub-Saharan Africa – the program of surveys most comparable to GE with regard to age group and sexual violence survey question style and content - the percentage of respondents having sexually debuted was usually not reported. In Swaziland, however, 17.1 percent of 13-17-year-olds girls had debuted. In the DHS surveys the closest comparable reported outcome is the percent of 15-19-year-olds who had sex before age 15 years. In Liberia the level was 22 percent in 2013, and in West and Central Africa the regional average was 11.5 percent (McCarthy et al., 2016).

### FIRST SEX UNWILLING

Among GE respondents who have experienced penetrative sex, 29 percent report the first act as having been unwilling (15 percent reported being tricked; 14 percent reported being physically

forced). Analogous data on the unwilling nature of first sex are rare for 13-14-year-olds, but the VACS provide some relevant information. For the VACS undertaken in Sub-Saharan Africa, among all respondents (aged 13-24 years) who had their sexual debut before age 18, the experience was described as unwilling by 53 percent, 29 percent, 25 percent, 41 percent in Swaziland, Tanzania, Kenya and Zimbabwe, respectively. The GE mean is within this range.

Data on the prevalence of first sex acts that were unwilling among 13-17-year-olds who have sexually debuted was reported only for Swaziland and Zimbabwe, where the levels were 63 percent and 43 percent, respectively.<sup>4</sup>

## EVER EXPERIENCED ANY SEXUAL ABUSE

Ever experience of sexual abuse is defined as a “yes” response to any of the four types of experiences: physically forced sex, coerced/persuaded into having sex, attempted unwanted sex, or being sexually touched. Among all GE respondents, 37.3 percent have experienced one or more of these. Available figures to compare this outcome to are difficult to find, even in the VACS surveys from the continent, as reporting varies by country and often focuses on an older age group. The only country for which there is a similar age group reported on is Swaziland, where 28 percent of 13-17-year-old girls had ever experienced sexual abuse. The remaining available estimates from VACS for this outcome are defined as any experience before age 18, among 18-24-year-olds. In Swaziland, Kenya and Zimbabwe, respectively, the levels are 37.8, 31.9, and 32.5 percent. In Tanzania, the level for 13-24-year-olds was 27.9 percent. The level in GE is within the range of these figures but at the high end, particularly given the relatively young age of GE respondents compared with those reported by the VACS.

<b>Table 56. GE and VACS prevalence of ever experienced sexual abuse</b>	
<b>AMONG ALL SURVEY RESPONDENTS</b>	<b>Percentage</b>
<i>Ever experienced</i>	
GE Liberia (13-14-year-olds)	37
Swaziland VACS (13-17-year-olds)	28
Tanzania VACS (13-24-year-olds)	28
<i>Ever experienced before age 18 years</i>	
Swaziland VACS (18-24-year-olds)	38
Kenya VACS (18-24-year-olds)	32
Zimbabwe VACS (18-24-year-olds)	33

Retrospective questions are available in the DHS for 12 Sub-Saharan African countries on the percentage of adolescent girls (aged 15–19) who were ever subjected to sexual abuse (UNICEF 2014). Among the countries with these data, ever experience of sexual abuse among this age group ranges between 8 percent (Mozambique) to 22 percent (Cameroon). In the Liberia 2007

<sup>4</sup> Sexual abuse questions in DHS data differ greatly from those in the GE survey and the VACS. In the Liberia 2007 DHS, 9.9 percent of respondents age 15-49 who had had sex reported “physically forced” to the following question: “The first time you did men business, would you say you did it because you wanted to or because you were physically forced to do it against your will?” The DHS report did not provide figures for 15-19-year-olds. This outcome was not included in the 2013 Liberia DHS survey report.

DHS, 13.1 percent of 15-19-year-olds report having ever experienced sexual abuse. This outcome was not described in the 2013 Liberia DHS report. It should also be noted that the DHS question is more limited in scope compared to those included in the GE survey and focuses mainly on physical forced sex. (DHS for Liberia: “At any time in your life, as a child or as an adult, has anyone physically forced you in any way to do men business or perform any other sexual acts?”)

## NATURE OF SEXUAL ABUSE EVER EXPERIENCED

Among those who have ever experienced any type of sexual abuse, GE respondents reported the following four possible types: physically forced, non-physically pressured (coerced/persuaded), someone unsuccessfully attempting to have sex with them, or being touched in a sexual way. The prevalence of each component of sexual abuse among the GE respondents appears to be quite high for this age group compared with the levels reported in the VACS from Sub-Saharan Africa.

<b>Table 57. GE and VACS prevalence of types of sexual abuse ever experienced (%)</b>				
<i>AMONG ALL SURVEY RESPONDENTS</i>	Forced	Coerced or persuaded	Attempted unwanted	Sexual touched
<i>Ever experienced</i>				
GE Liberia (13-14-year-olds)	7.8	8.4	24.7	28.9
Swaziland VACS (13-17-year-olds)	2.3	5.7	16.8	nr
<i>Ever experienced before age 18 years</i>				
Swaziland VACS (13-24-year-olds)	7.2	12.1	20.5	14.1
Tanzania VACS (13-24-year-olds)	5.5	3.1	14.6	16.0
Kenya VACS (18-24-year-olds)	7.1	8.3	15.3	20.7
Zimbabwe VACS (18-24-year-olds)	9.0	7.4	15.0	20.2

## EXPERIENCE OF ANY SEXUAL ABUSE IN PAST 12 MONTHS

Given the young age and recent sexual debut of the GE respondents, the level of sexual abuse in the past 12 months, 32.7 percent, is nearly equal to the ever experienced sexual abuse outcome. Contrasting the GE results with those from the VACS provides further perspective on girls’ recent sexual abuse experiences. Among 13-17-year-old girls in Swaziland, Tanzania, Kenya and Zimbabwe, respectively, 28, 14, 11 and 9 percent, respectively, had experienced any unwanted sexual experience in the past 12 months. The GE prevalence is very high in comparison, particularly given that GE girls are younger than the age group reported on in the VACS surveys.

<b>Table 58. GE and VACS prevalence of any sexual abuse sex in past 12 months</b>	
<i>AMONG ALL SURVEY RESPONDENTS</i>	Percentage
GE Liberia (13-14-year-olds)	33
Swaziland VACS (13-17-year-olds)	28
Tanzania VACS (13-17-year-olds)	14
Kenya VACS (13-17-year-olds)	11
Zimbabwe VACS (13-17-year-olds)	9

In the DHS (UNICEF, 2014), prevalence of “forced sex” among 15-19-year-olds in the past 12 months ranges from 3 percent (Gabon) to 10 percent (DRC). In the Liberia 2007 DHS, 5 percent of 15-19-year-olds report it happening in the past 12 months. This outcome was not described in the 2013 Liberia DHS report. These levels are much lower than that found in GE, but it should be noted that the DHS question was much more narrowly focused on physical force. (“In the last 12 months has anyone forced you to do men business against your will?”)

### NATURE OF SEXUAL ABUSE EXPERIENCED IN PAST 12 MONTHS

As many of the sexual experiences reported by the 13-14-year-old GE respondents in the 12 months before the survey are likely to be among their earlier ones, the 12 month recall and “ever” prevalence rates for sexual abuse are similar. Among all girls, in the past 12 months, 7 percent had been physically forced to have sex, 8 percent had been non-physically pressured, 21 percent had sex someone unsuccessfully attempt to have sex with them, and 25 percent had been touched in a sexual way.

The closest analogous outcomes to compare with are the VACS reports for 13-17-year-old girls in Kenya and Zimbabwe, where the levels are much lower than those reported in GE.

<b>Table 59. GE and VACS prevalence of types of sexual abuse experienced in past 12 months (%)</b>				
<i>AMONG ALL RESPONDENTS</i>	Forced	Coerced or persuaded	Attempted unwanted	Sexual touched
GE Liberia (13-14-year-olds)	6.6	7.8	21.1	25.1
Kenya VACS (13-17-year-olds)	0.0	1.1	3.3	8.5
Zimbabwe VACS (13-17-year-olds)	0.9	1.9	3.3	5.4

### PERSPECTIVES ON OTHER KEY OUTCOMES

#### School enrollment

Most GE girls (85.03 percent) report having been enrolled during the 2014/2015 school year (the academic year before the survey). This level is not atypical for the setting. DHS data indicate that

school attendance for females aged 10-14 years was 87 percent for Liberia (2013), and 71 percent regionally for West and Central Africa (McCarthy et al., 2016).

### Parental co-residence and survival

Among GE respondents, 74.59 percent reside with mothers and 58.63 percent reside with fathers. The intersection of these outcomes indicates that approximately half reside with both parents, one-fifth with mother only, 5 percent with father only, and one-fifth with neither. A Population Council (2009) special report on adolescent outcomes in the Liberia 2007 DHS, shows a higher percentage of girls aged 10-14 residing with father only or neither parent relative to GE girls. Parental survival in the GE survey does not appear to be significantly different from that reported for 10-14-year-old girls in the Liberia 2007 DHS (Population Council, 2009).

<b>Table 60. Parental co-residence and survival in Liberia</b>				
	Parental co-residence with girl		Parental survival	
	GE baseline survey	NorthCentral Region (DHS 2007, 10-14-year-olds)	GE baseline survey	NorthCentral Region (DHS 2007, 10-14-year-olds)
Mother and father	53	44	86	89
Mother only	21	16	10	5
Father only	5	15	3	4
Neither	20	25	1	2

### Not enrolled in school and not living with either parent

Population Council cross-country analysis of DHS data (McCarthy et al., 2016) examines a category of potential vulnerability among 10-14-year-olds: girls not enrolled in school and not residing with either parent. In the GE survey this was the case for 4 percent of girls. In the Liberia 2013 DHS the rate nationally was also 4 percent. In the West and Africa Central region the rate was 7 percent.

### Pregnancy

Pregnancy is another outcome on which precisely comparable data are not readily available for 13-14-year-olds. DHS results are available, however, for the percentage of women aged 15-19 who gave birth before age 15 years. The figure is 3.0 percent in Liberia nationally and 3.3 percent for the region of West and Central Africa (McCarthy et al., 2016). In the GE survey, 6 of 1,216 girls (0.5 percent) report having had a live birth, 20 of 1,216 (1.7 percent) report having ever been pregnant – percentages that are lower than the regional and national averages for 15-19-year-olds in the DHS.

### Marriage

Less than 1.0 percent of GE girls reported they were married or living with a man as if married. The DHS figures for females age 15-19 years show that 9.1 percent in West and Central Africa,

and 4.0 percent in Liberia (2013), were married before age 15 (McCarthy et al., 2016). Twenty percent of GE respondents reported having a non-co-resident boyfriend.

### Age-disparate relationships

Of the 21% of GE girls who report having a husband or boyfriend, only 141 of 258 reported valid information to calculate partner age difference (most did not know their partner's age). Among those who reported this information, the median husband age was 18 years; the median boyfriend age was 17 years. Sixteen girls reported a partner 5 or more years older; two reported a partner 10 or more years older.

By contrast, Population Council analysis of the Liberia 2007 DHS (Population Council, 2009) indicates that among 15-24-year-old females residing with a sexual partner, 30 percent were living with a man who was 10 or more years their senior. Clearly GE girls will be at risk for such inter-generational partnerships in the two years between baseline and endline. Although the GE baseline survey did not ask the age of girls' first or most recent sexual partner, this should be included in the GE endline survey.

In the Liberia 2007 DHS, 38.4 percent of sexually debuted 15-24-year-old females report their first sex was with a partner 10 or more years older than themselves. In the Liberia 2013 DHS, the only partner age differences that were assessed were for 15-19-year-olds who had "higher risk" sex in the 12 months before the survey (defined as sex with someone they were not residing with as a partner). This is not a good comparator to the GE statistics; nonetheless, 10.7 percent of these females reported having a partner 10 or more years older; in the Liberia 2007 DHS the percentage was 13.7.

### HIV knowledge

HIV knowledge among girls in the GE survey is very low; only 82 percent had ever heard of HIV or AIDS. Of these, one-third believed that it was possible to cure AIDS – a shockingly high percentage for the region. While the GE baseline survey did not include each element of the comprehensive HIV knowledge question set (the endline survey should include these and be compared with levels in UNICEF's State of the World's Children most recent annual report), only 74 percent of GE girls believed that condoms were an effective way of protecting against HIV. (A similar percentage believed that condoms could protect against STIs.) Only half believed a person with HIV/AIDS can manage and survive. HIV knowledge, attitude and behavior data are not readily available for very young adolescents (defined as 10-14-year-olds) in Sub-Saharan African. In the 2013 Liberia DHS, however, 72 percent of females aged 15-24 years believed a healthy looking person can have HIV.

### Condom use

Condom use is extraordinarily low among girls in the GE survey who reported having sex in the past 12 months: only 31 percent say they used a condom at any time in the past year and only 8 percent said they always did. Condom use at last sex was lower still, at only 13 percent of respondents. Sexual behavior self-reports are almost non-existent among 10-14-year-olds in LMICs so putting these results in context is difficult. The DHS, however, collects data starting at



age 15 years. In the Liberia 2013 DHS, among never married women aged 15-19 years who had had sex in the past 12 months, 24 percent report having used a condom at last sex. Among 15-24-year-old females nationally, rural residents have condom use rates half those of urban residents (12 versus 26 percent). Across Sub-Saharan Africa, the rate of condom use at last sex among 15-19-year-old females is 35 percent (Santhya and Jejeebhoy, 2015). Low condom utilization rates among sexually experienced respondents is a particular concern, especially in light of the potential long-term health questions surrounding the Ebola epidemic.

### Gender norms

The Gender Equitable Attitudes Subscale (derived from Pulerwitz and Barker, 2008) of the Gender Relations Scale (Nanda, 2011; Stephenson et al., 2012) was included to assess girls' gender equitable norms. Two questions, "You don't talk about sex, you just do it" and "A man should know what his partner likes during sex" were omitted because of the relative sexual inexperience of girls in the GE baseline survey. The total possible score was therefore 14 (instead of the usual 16). GE girls' gender equity attitudes were relatively progressive, with a mean of 7.5. This scale is fairly new and has not been applied extensively with adolescents. The original application of the scale by Stephenson and colleagues (2012) among adults in Ethiopia and Kenya revealed that out of a possible 16, women's scores were 6.0 and 10.1, respectively; men's scores were 9.0 and 13.0, respectively.

### Rosenberg Self-Esteem Scale (RSES)

In the GE sample, the mean and median score on the Rosenberg Self-Esteem Scale RSES was 32 (SD=4.28), which is considered within the normal range (<https://www.wwnorton.com/college/psych/psychsci/media/rosenberg.htm>) and somewhat higher than found in primarily college student samples in 5 African countries (Schmidt and Allick, 2005): Botswana, DRC, Ethiopia, Tanzania, Zimbabwe, and the United States (for comparison) (see appendix **Table A55**). The higher mean score in our sample of Liberian adolescent girls age 13-14 than in the other African samples could be age related, however, as self-esteem scores among girls tend to decrease as age increases during adolescence. A study among Irish girls found a drop in mean scores between the ages 10-12 (mean=28, SD=4.3) and 13-17 (Age=13-14: mean=27.1, SD=3.5; age=15-17: mean=27.1, SD=3.3) (Nic Gabhainn and Mullan, 2003). In a study looking at the RSES in 53 different countries, the factor analysis found that question #8 ("I wish I could have more respect for myself.") had unexpected negative loadings for the DRC and Tanzania. Thus, looking at the Cronbach's alpha, if items were to be deleted it might be worth exploring before the endline survey to see if this (or any other) items should be excluded in the Liberian sample (Schmidt and Allick, 2005).

### Short Mood and Feelings Questionnaire (SMFQ): Assessment for Depression

The average SMFQ score among the GE survey girls was 8.5 and the median was 8.0 (SD=6.58). There is no consensus about the cut-off for classifying individuals as depressed and there is little information about the use of this measure among adolescent girls in Africa. A study among a racially diverse group of 6th graders (boys and girls, mean age of 11.5 years) in the USA found that the mean score on the SMFQ was 3.8 among non-depressed children and 8.2 among children



diagnosed with depression. A cut off of 4 was assessed for diagnosis of depression and found to have fairly low sensitivity and specificity of 66% and 61% respectively (Rhew et al., 2010). However, another study among male and female youth in the juvenile justice system in the USA used the SMFQ and found it to be reliable ( $\alpha=0.87$ ) and that a cut off of  $\geq 10$  for depression maximized sensitivity and specificity at 100% and 72% respectively (Kuo et al., 2005). When assessed in a sample of male and female 8th graders in South Africa, the SMFQ was found to be reliable ( $\alpha=0.853$  overall), with little variation in reliability across major racial groups (black, white, colored). The test-retest reliability was assessed with a kappa of agreement and scores were mostly in the fair range (25%-49%) (Rothon et al., 2011). A study among adolescents (mean age 17 years) in Norway found that girls scored significantly higher than boys (mean for girls=7.4, SD=6.1; mean for boys=4.1, SD=4.9,  $p<0.001$ ) (Lundervold et al., 2013). Thus while the girls in our sample exhibited a higher mean score on the SMFQ than that in other western populations, the gender make-up may partially explain this higher score and warrant using the higher cut-off (e.g.  $\geq 10$ ) for a depression classification.

<b><i>Table 61. SMFQ comparison scores</i></b>	Mean	Depression cutoff score
GE Liberian females (13-14 years)	8.5	
US 6 <sup>th</sup> graders (depressed)	8.2	
US 6 <sup>th</sup> graders (non-depressed)	3.8	
US juvenile justice youths		$\geq 10$
Norwegian girls (mean age 17 years)	7.4	
Norwegian boys (mean age 17 years)	4.1	

### Children’s Revised Impact of Event Scale (CRIES-8): Assessment for PTSD

Overall 475 girls reported experiences of physical abuse or sexual abuse or exploitation and were administered the CRIES-8. The mean combined score on the CRIES-8 was 18.25 (median=18.0, SD=7.77), and 7.59 (median=8.0, SD=4.75) and 10.67 (median=10.0, SD=5.17) on the intrusion and aversion subscales respectively. A combined score of 17 is considered fairly accurate for identifying PTSD in children (<http://www.childrenandwar.org/measures/children%E2%80%99s-revised-impact-of-event-scale-8-%E2%80%93-cries-8/>). A study in the USA among 63 children age 10-16 seen in the emergency department (ED) and 52 children age 7-18 seen in a specialized PTSD clinic found a mean CRIES-8 score of 12.9 and 23.9 respectively. A cut-off score of 17 was found to maximize sensitivity and specificity at 100% and 71% in the ED sample and at 94% and 59% respectively in the clinic sample (Perrin et al., 2005). Thus using a cut-off of 17, over half of the girls in our sample who reported physical abuse or sexual abuse or exploitation may be suffering from PTSD from this experience. This appears very high and is cause for concern; culturally-specific trauma-informed care may be appropriate for these girls. Access to such care as well as broader sexual violence prevention and treatment services should be investigated during the endline survey.

## CAREGIVER SURVEY

### Gender Norm Attitudes

Most caregivers in the survey displayed gender egalitarian attitudes; for only one outcome did caregivers show a more male-favored attitude – that every women needs a man to protect her because she cannot protect herself. Nearly half (47 percent) also agreed that a good woman never refuses anything her husband says. Both of these questions were among the eight that comprised the “Rights and Privileges of Men Sub-scale”. For the three questions in the “Equality of Girls Sub-scale,” 69 percent or more of caregivers showed attitudes indicating gender equality.

The only direct comparison in the literature were questions was Waszak et al. (2000) who used these (and several other) questions with adult Egyptian women. In the vast majority of cases, GE caregivers showed much more equitable attitudes, with the exception of the two “Rights and Privileges of Men Sub-scale” questions mentioned above (women needing men for protection, and not refusing what husband says). For the “Equality of Girls Sub-scale” questions, GE caregivers were similar to Egyptian women, with the exception of being more equitable about girls being able to work outside the home even after having children.

<b>Table 62. Gender Norm Attitudes</b>	<b>Percent who agree</b>	
	<b>GE caregivers (2015)</b>	<b>Egypt women (2001)</b>
<b>Rights and Privileges of Men Sub-scale</b>		
It is better for boys to go to school than girls.	10	30
Girls should be sent to school only if they are not needed to help at home.	9	20
The main reason why boys/sons should be more educated than girls is for them to take care of their parents when they are older.	34	50
If there is a very small amount of money to pay for school fees it is better to send the boys to school first.	15	30
Women should leave politics or government business to the men.	23	80
Every woman needs a man to protect her because she cannot protect herself.	68	82
The only thing a woman can depend on in her old age is her sons.	32	59
A good woman never refuses anything her husband says.	47	56
<b>Equality of Girls Sub-scale</b>		
Daughters should have just the same chance to work outside the homes as sons.	72	67
Girls should be told that if they have plenty of children they will not be able work outside the home and make money.	69	44
I would like my girl child to work outside the home so she can support herself and her family	85	75

### Attitudes about Child Rearing

Despite caregivers’ high aspirations for their girls to gain a high level of education (post-secondary) and then marry and begin child-bearing in their mid-twenties, almost half also agreed

that girls need to be physically punished in order to raise them correctly. Such a high prevalence of this attitude is of great concern. While this practice may be viewed as an appropriate child disciplinary method, it condones acceptance of violence and girls may therefore view violence as an expected norm in their relationships with adults and sexual partners. Such acceptance may reduce both their inclination to reject violence in sexual partnerships, as well as to seek help/treatment if/when it does occur. Girls' attitudes and behaviors around recognizing, reporting and seeking help for violence should be investigated during the endline survey.

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## Appendix

### Supplementary Survey Tables

<b>Table A1</b> <b>Household listing item A15: Where do the people living in this house get their drinking water from?</b>	<b>Percent</b>	<b>Number</b>
Water is piped into the yard/plot	0.43%	5
Water is from a Tube well of borehole in the yard/plot	2.43%	28
Water is from a dug well with a hand pump in the yard/plot	49.05%	566
Water is from an unprotected (no pump covering opening) well in the yard/plot	4.59%	53
Water is from public tap or standpipe	4.51%	52
Water is from a public tube well, borehole, or dug well with a pump	29.46%	340
Water is from a public unprotected well (no pump)	5.98%	69
Water is surface water from spring, lake or river	3.03%	35
bottled water is used	0.09%	1
Other water source	0.43%	5
<b>Total</b>		<b>1154</b>

<b>Table A2</b> <b>Household listing item A16: What type of toilet do people in your house use?</b>	<b>Percent</b>	<b>Number</b>
Flush or pour toilet in house	5.46%	63
Ventilated improved pit latrine	2.60%	30
Pit latrine with slab (cement floor)	22.96%	265
Pit latrine without slab (open pit)	15.08%	174
Composting toilet	0.26%	3
Hanging toilet/hanging latrine (i.e. built hanging over a body of water)	5.89%	68
No facility/bush/open field	47.57%	549
Other	0.17%	2
<b>Total</b>		<b>1154</b>

<b>Table A3</b> Household listing item A8b: How many families live in this house?		
	<b>Percent</b>	<b>Number</b>
1	70.47%	7701
2	13.16%	1438
3	9.32%	1019
4	4.49%	491
5	1.65%	180
6	0.69%	75
7	0.13%	14
8	0.09%	10
	<b>Total</b>	<b>10928</b>

<b>Table A4</b> Girl survey item B1a: What is your year of birth?		
	<b>Percent</b>	<b>Number</b>
Don't know	10.61%	129
No response	0.16%	2
1984	0.08%	1
1995	0.08%	1
1997	0.08%	1
1998	0.25%	3
1999	0.08%	1
2000	13.82%	168
2001	38.65%	470
2002	35.69%	434
2003	0.49%	6
	<b>Total</b>	<b>1216</b>

<b>Table A5</b> Girl survey item B2: Have you ever attended school?		
	<b>Percent</b>	<b>Number</b>
No	2.06%	25
Yes	97.94%	1191
	<b>Total</b>	<b>1216</b>



<b>Table A6</b> <b>Girl survey item B3a: What is the highest grade that you have completed in school?</b>	<b>Percent</b>	<b>Number</b>
None	0.25%	3
ABC	0.84%	10
K1	4.03%	48
K2	9.57%	114
Grade 1	17.13%	204
Grade 2	20.99%	250
Grade 3	18.39%	219
Grade 4	15.20%	181
Grade 5	7.98%	95
Grade 6	3.78%	45
Grade 7	1.26%	15
Grade 8	0.50%	6
Grade 9	0.08%	1
	<b>Total</b>	<b>1191</b>

<b>Table A7</b> <b>Caregiver survey item B3: Caregiver's gender</b>	<b>Percent</b>	<b>Number</b>
Female	72.27%	834
Male	27.73%	320
	<b>Total</b>	<b>1154</b>

<b>Table A8</b> <b>Caregiver survey item B4: Highest grade caregiver has completed (passed) in school?</b>	<b>Percent</b>	<b>Number</b>
None	24.00%	277
ABC	1.56%	18
K1	0.17%	2
K2	0.61%	7
Grade 1	2.17%	25
Grade 2	3.03%	35
Grade 3	5.20%	60
Grade 4	6.85%	79
Grade 5	6.50%	75
Grade 6	7.54%	87
Grade 7	7.54%	87
Grade 8	5.55%	64
Grade 9	5.11%	59
Grade 10	5.81%	67
Grade 11	3.55%	41
Grade 12	11.09%	128
Post-secondary formal	3.64%	42
Don't know	0.09%	1
	<b>Total</b>	<b>1154</b>

<b>Table A9</b> <b>Caregiver survey item B6: Who is the head of the household in relationship to the girl(s)?</b>	<b>Percent</b>	<b>Number</b>
Mother	8.95%	29
Father	58.02%	188
Grandmother	6.17%	20
Grandfather	5.25%	17
Stepmother	0.31%	1
Stepfather	4.01%	13
Sister	1.23%	4
Brother	2.78%	9
Aunt	1.54%	5
Uncle	7.72%	25
Other	4.01%	13
	<b>Total</b>	<b>324</b>
<b>Caregiver survey item B6b: Specify gender of "other" person</b>	<b>Percent</b>	<b>Number</b>
Female	23.08%	3
Male	76.92%	10
	<b>Total</b>	<b>13</b>

<b>Table A10</b> <b>Caregiver survey item B7: What is the highest grade that the head of household has completed (passed) ?</b>	<b>Percent</b>	<b>Number</b>
None	21.30%	69
Grade 1	0.62%	2
Grade 2	1.23%	4
Grade 3	2.16%	7
Grade 4	1.54%	5
Grade 5	2.47%	8
Grade 6	6.17%	20
Grade 7	4.32%	14
Grade 8	5.25%	17
Grade 9	6.17%	20
Grade 10	5.56%	18
Grade 11	5.56%	18
Grade 12	25.00%	81
Post-secondary formal	6.17%	20
Don't know	6.48%	21
	<b>Total</b>	<b>324</b>

<b>Table A11</b> <b>Girl survey item C2: What family members died from Ebola?</b>	<b>Percent</b>	<b>Number</b>
Mother	2.04%	1
Father	2.04%	1
Grandmother	2.04%	1
Grandfather	4.08%	2
Sister	18.37%	9
Brother	16.33%	8
Aunt	38.78%	19
Uncle	32.65%	16
Husband	0.00%	0
Boyfriend	0.00%	0
Play mum	0.00%	0
Other family member	14.29%	7
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	49

<b>Table A12</b> <b>Girl survey item B6: Are you enrolled in the 2015/2016 school year? I am referring to the 2015/2016 school year that begins in September 2015.</b>	<b>Percent</b>	<b>Number</b>
No, I am not enrolled	83.55%	1016
Yes, I am enrolled	16.37%	199
Don't know	0.08%	1
	<b>Total</b>	<b>1216</b>
<b>Girl survey item B6a: What is the primary reason you are not enrolled in the 2015/2016 school year?</b>	<b>Percent</b>	<b>Number</b>
Registration is not yet opened	95.96%	975
Family could not afford	2.17%	22
Family does not approve/see benefit	0.10%	1
Got pregnant	0.20%	2
Result of Ebola epidemic	0.49%	5
Other	0.79%	8
Don't Know	0.20%	2
No Response	0.10%	1
	<b>Total</b>	<b>1016</b>

<b>Table A13</b> <b>Girl survey item O7: How much peer pressure is there on people your age to have sex?</b>	<b>Percent</b>	<b>Number</b>
None	38.24%	465
A little	21.22%	258
A moderate amount	3.87%	47
A lot	32.57%	396
A great deal	3.62%	44
Don't Know	0.49%	6
	<b>Total</b>	<b>1216</b>

<b>Table A14</b> <b>Girl survey item O1: Have you ever kissed a boy in a loving or sexy way?</b>	<b>Percent</b>	<b>Number</b>
No	82.07%	998
Yes	17.85%	217
Don't Know	0.08%	1
	<b>Total</b>	<b>1216</b>

<b>Table A15</b> Girl survey item O8: Have you ever had sex, whether this was something you wanted to do or not? This includes when a man's penis enters someone's vagina or anus.	<b>Percent</b>	<b>Number</b>
No	79.19%	963
Yes	20.72%	252
Don't Know	0.08%	1
	<b>Total</b>	<b>1216</b>

<b>Table A16</b> Girl survey item O11: If have had sex ("yes" to item O8), the first time had sex, would you say you did it because you wanted to do it or because you were forced or tricked into doing it against your will?	<b>Percent</b>	<b>Number</b>
Wanted to	71.43%	180
Tricked	14.68%	37
Physically forced	13.89%	35
	<b>Total</b>	<b>252</b>

<b>Table A17</b> Girl survey item O16: Have you ever been pregnant? This includes if you are currently pregnant.	<b>Percent</b>	<b>Number</b>
No	92.06%	232
Yes	7.94%	20
	<b>Total</b>	<b>252</b>

<b>Table A18</b> Girl survey item O18: Think back to your first pregnancy. At the time you first became pregnant, did you want to become pregnant then, did you want to wait until later, or did you not want children at all?	<b>Percent</b>	<b>Number</b>
Wanted the pregnancy	10.00%	2
Wanted to wait until later to become pregnant	65.00%	13
Did not want children at all	25.00%	5
	<b>Total</b>	<b>20</b>

<b>Table A19</b> <b>Girl survey item O19: What happened with your last or most recent pregnancy?</b>	<b>Percent</b>	<b>Number</b>
Aborted the pregnancy	15.00%	3
Miscarried	10.00%	2
Live birth	30.00%	6
Currently pregnant AND this is my first pregnancy	45.00%	9
	<b>Total</b>	<b>20</b>

<b>Table A20</b> <b>Girl survey item O20: If the pregnancy resulted in a live birth, who is raising the child?</b>	<b>Percent</b>	<b>Number</b>
Respondent (child's mother)	66.67%	10
Father of the baby	20.00%	3
Other family member	6.67%	1
Other	6.67%	1
	<b>Total</b>	<b>15</b>

<b>Table A21</b> <b>Girl survey item O3: At the time you got married/started living together, did you agree willingly?</b>	<b>Percent</b>	<b>Number</b>
No	11.11%	1
Yes	88.89%	8
	<b>Total</b>	<b>9</b>

<b>Table A22a</b>					
<b>Girl survey item O4: If living with husband/partner, how old is your husband/partner?</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
7	18.43	18	1.62	17	21
<b>Table A22b</b>					
<b>Girl survey item O5. If not married, do you have a boyfriend at this time?*</b>			<b>Percent</b>	<b>Number</b>	
No			79.69%	969	
Yes			20.31%	247	
			<b>Total</b>	<b>1216</b>	
* Data for this variable contained 8 cases where boyfriend age was listed as 1 and 2 cases where boyfriend age was listed as 2. This summary table excludes those cases.					
<b>Table A22c</b>					
<b>Girl survey item O6: If have boyfriend (yes to O5), how old is your boyfriend?*</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
134	16.93	17	4.56	10	26
* Data for this variable excludes girls who reported "don't know" for the age of their boyfriend.					

<b>Table A23</b>					
<b>Girl survey item P1: Has anyone ever hit, slapped, kicked, or done anything bad to hurt you before?</b>			<b>Percent</b>	<b>Number</b>	
No			50.74%	617	
Yes			49.18%	598	
Don't Know			0.08%	1	
			<b>Total</b>	<b>1216</b>	

<b>Table A24</b>				
<b>Girl survey items Q1-Q6: Sexual Abuse or Exploitation</b>				
<b>(Ever; and Conditional Upon Ever, Happened in Past 12 Months)</b>				
<b>Question</b>	<b>Response options</b>			<b>Total</b>
	<b>No</b>	<b>Yes</b>	<b>DK</b>	
Q1. Has anyone, male or female, ever touched you in a sexual way without your permission, but did not try and force you to have sex?	863 (70.97%)	351 (28.87%)	2 (0.16%)	1216
<i>Q1a. Has this happened in the past 12 months?</i>	46 (13.11%)	305 (86.89%)	0 (0.00%)	351
Q2. Has anyone, male or female, ever tried to do man and woman business against your will, but did not succeed?	916 (75.33%)	300 (24.67%)	0 (0.00%)	1216
<i>Q2a. Has this happened in the past 12 months?</i>	44 (14.67%)	256 (85.33%)	0 (0.00%)	300
Q3. Have you ever had sex with anyone, male or female, after they pressured you in a non-physical way?	1112 (91.45%)	102 (8.39%)	2 (0.16%)	1216
<i>Q3a. Has this happened in the past 12 months?</i>	7 (6.86%)	95 (93.14%)	0 (0.00%)	102
Q4. Has anyone, male or female, ever physically forced you to have sex with them without your permission?	1120 (92.11%)	95 (7.81%)	1 (0.08%)	1216
<i>Q4a. Has this happened in the past 12 months?</i>	15 (15.79%)	80 (84.21%)	0 (0.00%)	95
Q5. Has anyone ever given you money to do man and woman business with them?	1123 (92.35%)	91 (7.48%)	2 (0.16%)	1216
<i>Q5a. Has this happened in the past 12 months?</i>	7 (7.69%)	84 (92.31%)	0 (0.00%)	91
Q6. Has anybody ever given you food, gifts, or any favors so that you have sex with them?	1119 (92.02%)	96 (7.89%)	1 (0.08%)	1216
<i>Q6a. Has this happened in the past 12 months?</i>	6 (6.25%)	90 (93.75%)	0 (0.00%)	96



<b>Table A25</b>						
<b>CRIES questions (girl survey)</b>						
<b>Question</b>	<b>Response options</b>					<b>Total</b>
	<b>Not at all</b>	<b>Rarely</b>	<b>Sometimes</b>	<b>Often</b>	<b>NR</b>	
R1. Do you think about it even when you don't mean to think about it?	153 (32.83%)	133 (28.54%)	111 (23.82%)	68 (14.59%)	1 (0.21%)	466
R2. Do you try to remove it from your mind?	68 (14.59%)	96 (20.6%)	171 (36.7%)	131 (28.11%)	0 (0.00%)	466
R3. Do you have waves of strong feelings about it?	129 (27.68%)	111 (23.82%)	159 (34.12%)	67 (14.38%)	0 (0.00%)	466
R4. Do you stay away from reminders of it (e.g. places or situations)?	77 (16.52%)	111 (23.82%)	126 (27.04%)	152 (32.62%)	0 (0.00%)	466
R5. Do you try not to talk about it?	91 (19.53%)	82 (17.6%)	145 (31.12%)	148 (31.76%)	0 (0.00%)	466
R6. Do pictures about it appear in your mind?	126 (27.04%)	124 (26.61%)	142 (30.47%)	74 (15.88%)	0 (0.00%)	466
R7. Do other things keep making you think about it?	139 (29.83%)	102 (21.89%)	169 (36.27%)	56 (12.02%)	0 (0.00%)	466
R8. Do you try not to think about it?	67 (14.38%)	121 (25.97%)	154 (33.05%)	124 (26.61%)	0 (0.00%)	466

<b>Table A26</b>		
<b>Girl survey item E1: Is there a place that you could go to sleep if there was an emergency situation or something happened that made you feel you are not safe where you usually sleep?</b>	<b>Percent</b>	<b>Number</b>
No	51.89%	631
Yes	48.11%	585
	<b>Total</b>	<b>1216</b>

<b>Table A27</b> Girl survey item E3: If you attend school, do you feel safe when you are at school?	<b>Percent</b>	<b>Number</b>
No	6.88%	80
Yes	93.12%	1083
	<b>Total</b>	<b>1163</b>

<b>Table A28</b> Girl survey item E4: When you travel to school, do you feel safe?	<b>Percent</b>	<b>Number</b>
No	8.60%	100
Yes	91.40%	1063
	<b>Total</b>	<b>1163</b>

<b>Table A29</b> Girl survey item E5: Is there a safe place in the community outside of school and home where you feel free to meet and talk freely with other girls?	<b>Percent</b>	<b>Number</b>
No	19.08%	232
Yes	80.92%	984
	<b>Total</b>	<b>1216</b>

<b>Table A30</b> Girl survey item E6: How often do you go to this safe place?	<b>Percent</b>	<b>Number</b>
Every day	22.15%	218
Once a week	3.86%	38
Once a month	0.20%	2
Rarely	72.97%	718
Never	0.81%	8
	<b>Total</b>	<b>984</b>

<b>Table A31</b> <b>Girl survey item E7: Apart from someone in your household, is there a big woman in the community you can usually go to with problems?</b>		<b>Percent</b>	<b>Number</b>
No		64.64%	786
Yes		35.36%	430
<b>Total</b>			<b>1216</b>

<b>Table A32</b> <b>Girl survey: Self Esteem Scale Components</b>							
<b>Question</b>	<b>Response options</b>						<b>Total</b>
	<b>Strongly disagree</b>	<b>Disagree</b>	<b>Agree</b>	<b>Strongly agree</b>	<b>DK</b>	<b>NR</b>	
F1. I feel that I am at least as important as others	125 (10.28%)	48 (3.95%)	189 (15.54%)	853 (70.15%)	1 (0.08%)	0 (0.00%)	1216
F2. I feel that I have plenty good things in me.	61 (5.02%)	46 (3.78%)	192 (15.79%)	917 (75.41%)	0 (0.00%)	0 (0.00%)	1216
F3. All in all, I feel that I will not make it in life.	664 (54.61%)	245 (20.15%)	128 (10.53%)	179 (14.72%)	0 (0.00%)	0 (0.00%)	1216
F4. I am able to do things as well as most other people.	101 (8.31%)	66 (5.43%)	197 (16.2%)	852 (70.07%)	0 (0.00%)	0 (0.00%)	1216
F5. I feel I do not have much to make me proud.	325 (26.73%)	160 (13.16%)	303 (24.92%)	425 (34.95%)	2 (0.16%)	1 (0.08%)	1216
F6. I take a good attitude toward myself	28 (2.3%)	25 (2.06%)	170 (13.98%)	993 (81.66%)	0 (0.00%)	0 (0.00%)	1216
F7. All in all, I am satisfied with myself.	61 (5.02%)	45 (3.7%)	148 (12.17%)	962 (79.11%)	0 (0.00%)	0 (0.00%)	1216
F8. I wish I could have more respect for myself.	93 (7.65%)	76 (6.25%)	248 (20.39%)	799 (65.71%)	0 (0.00%)	0 (0.00%)	1216
F9. I feel useless sometimes.	616 (50.66%)	233 (19.16%)	200 (16.45%)	166 (13.65%)	1 (0.08%)	0 (0.00%)	1216
F10. At times I think I am no good at all.	549 (45.15%)	249 (20.48%)	223 (18.34%)	195 (16.04%)	0 (0.00%)	0 (0.00%)	1216

<b>Table A33</b> <b>Girl survey item G1: What grade in school would you hope to complete before leaving school?</b>	<b>Percent</b>	<b>Number</b>
None	0.58%	7
K1	0.08%	1
K2	0.08%	1
Grade 1	0.08%	1
Grade 2	0.16%	2
Grade 3	0.33%	4
Grade 4	0.33%	4
Grade 5	0.33%	4
Grade 6	0.74%	9
Grade 7	0.49%	6
Grade 8	0.49%	6
Grade 9	2.22%	27
Grade 10	5.10%	62
Grade 11	3.78%	46
Grade 12	55.92%	680
Post-Secondary Formal	28.78%	350
Don't know	0.49%	6
	<b>Total</b>	<b>1216</b>

<b>Table A34</b> <b>Girl survey item G4: Would you hope to have a job outside of the home even after marriage or would you prefer to no work outside the home?</b>	<b>Percent</b>	<b>Number</b>
Job Outside the home	82.07%	998
No Work outside the home	17.85%	217
Don't Know	0.08%	1
	<b>Total</b>	<b>1216</b>

<b>Table A35</b>					
<b>Girl Survey: Gender Relations Scale components</b>					
<b>Question</b>	<b>Response options</b>				<b>Total</b>
	<b>Disagree</b>	<b>Agree</b>	<b>DK</b>	<b>NR</b>	
J2. Men need to have sex more than women.	587 (48.27%)	592 (48.68%)	35 (2.88%)	2 (0.16%)	1216
J3. It is a woman's duty to not get pregnant.	573 (47.12%)	629 (51.73%)	14 (1.15%)	0 (0.00%)	1216
J4. A man should have the final word about decisions in his household.	462 (37.99%)	754 (62.01%)	0 (0.00%)	0 (0.00%)	1216
J5. Men are always ready to have sex.	600 (49.34%)	578 (47.53%)	34 (2.8%)	4 (0.33%)	1216
J6. A woman should accept violence to keep the family together.	550 (45.23%)	665 (54.69%)	1 (0.08%)	0 (0.00%)	1216
J7. A man needs other women even if things with his wife are fine.	713 (58.63%)	499 (41.04%)	4 (0.33%)	0 (0.00%)	1216
J8. A man can beat his wife if she does not agree to have sex with him.	783 (64.39%)	419 (34.46%)	13 (1.07%)	1 (0.08%)	1216
J9. Husband and wife should agree if they want to have children.	192 (15.79%)	1023 (84.13%)	1 (0.08%)	0 (0.00%)	1216
J10. Taking care of children is the mother's duty.	297 (24.42%)	919 (75.58%)	0 (0.00%)	0 (0.00%)	1216
J11. A woman can suggest using condoms just like a man can.	589 (48.44%)	538 (44.24%)	80 (6.58%)	9 (0.74%)	1216
J12. A man and a woman should decide together what type of contraceptive to use.	345 (28.37%)	834 (68.59%)	29 (2.38%)	8 (0.66%)	1216
J13. A real man produces a male child.	591 (48.6%)	622 (51.15%)	3 (0.25%)	0 (0.00%)	1216
J14. Men and women should share household chores.	677 (55.67%)	539 (44.33%)	0 (0.00%)	0 (0.00%)	1216
J15. A woman should not initiate sex.	673 (55.35%)	504 (41.45%)	30 (2.47%)	9 (0.74%)	1216

<b>Table A36</b>					
<b>Girl survey: Monitoring, Conflict, Emotional Support and Financial Support Scale (MCEF)</b>					
<b>(range: 0-30)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1212	24.75	25	3.64	11	30
<b>Monitoring Subscale (MCEF) (range: 0-6)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1216	5.39	6	1.26	2	6
<b>Conflict Subscale (MCEF) (range: 0-9)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1214	5.99	6	2.14	3	9
<b>Emotional Support Subscale (MCEF) (range: 0-9)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1215	7.97	9	1.45	3	9
<b>Financial Support Subscale (MCEF) (range: 0-6)</b>					
<b>Observations</b>	<b>Mean</b>	<b>Median</b>	<b>SD</b>	<b>Min</b>	<b>Max</b>
1215	5.4	6	1	2	6

<b>Table A37</b>		
<b>Girl survey item D1: Is there a big person in your life who knows where you are at night? (MCEF component)</b>		
	<b>Percent</b>	<b>Number</b>
No	20.15%	245
Yes	79.85%	971
	<b>Total</b>	<b>1216</b>
<b>Girl survey item D2: If “yes” to D1, who usually knows where you are at night?*</b>		
	<b>Percent</b>	<b>Number</b>
Mother	64.68%	628
Father	34.29%	333
Grandmother	12.77%	124
Grandfather	2.47%	24
Sister	28.22%	274
Brother	14.21%	138
Aunt	15.86%	154
Uncle	7.52%	73
Husband	0.00%	0
Boyfriend	0.62%	6
Play mom	0.10%	1
Other adult	2.16%	21
Don't Know	0.10%	1
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	971

<b>Table A38</b>		
<b>Girl survey Item D3: Is there any big person who usually knows where you are during the day? (MCEF component)</b>	<b>Percent</b>	<b>Number</b>
No	10.53%	128
Yes	89.47%	1088
	<b>Total</b>	<b>1216</b>
<b>Girl survey item D2: If “yes” to D3, who usually knows where you are during the day?</b>	<b>Percent</b>	<b>Number</b>
Mother	65.26%	710
Father	33.64%	366
Grandmother	13.88%	151
Grandfather	3.13%	34
Sister	29.41%	320
Brother	15.99%	174
Aunt	17.56%	191
Uncle	7.35%	80
Husband	0.00%	0
Boyfriend	0.46%	5
Play mom	0.18%	2
Other adult	2.57%	28
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,088

<b>Table A39</b>		
<b>Girl survey item D11: There is a big person in your life who provides you with “small, small” things (MCEF component)</b>	<b>Percent</b>	<b>Number</b>
Not true at all	4.11%	50
Somewhat true	7.98%	97
Very true	87.91%	1069
	<b>Total</b>	<b>1216</b>
<b>D12. If “yes” to D11, who usually provides for your “small, small” things?</b>	<b>Percent</b>	<b>Number</b>
Mother	71.61%	835
Father	42.54%	496
Grandmother	8.92%	104
Grandfather	1.37%	16
Sister	19.81%	231
Brother	11.23%	131
Aunt	14.58%	170
Uncle	6.09%	71
Husband	0.17%	2
Boyfriend	1.63%	19
Play mom	0.17%	2
Other adult	1.46%	17
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,166</b>



<b>Table A40</b>					
<b>Girl survey: Relationship and Communication with Adults Indicators (MCEF components)</b>					
<b>Question</b>	<b>Response options</b>				<b>Total</b>
	<b>Not true at all</b>	<b>Somewhat true</b>	<b>Very true</b>	<b>DK</b>	
D5. There is a big person in your life who makes you to look small	570 (46.88%)	152 (12.5%)	493 (40.54%)	1 (0.08%)	1216
D6. There is a big person in your life who talks to you roughly or harshly	419 (34.46%)	200 (16.45%)	597 (49.1%)	0 (0.00%)	1216
D7. There is a big person in your life who condemns you a lot	577 (47.45%)	176 (14.47%)	462 (37.99%)	1 (0.08%)	1216
D8. There is a big person in your life who listens to you	135 (11.1%)	168 (13.82%)	913 (75.08%)	0 (0.00%)	1216
D9. There is a big person in your life who praises you	66 (5.43%)	131 (10.77%)	1019 (83.8%)	0 (0.00%)	1216
D10. There is a big person in your life who comforts you	179 (14.72%)	197 (16.2%)	839 (69%)	1 (0.08%)	1216

<b>Table A41</b>		
<b>Girl survey item D17. If there is a big person in your life who you regard as your mentor ("yes" to D15), what do you talk to this person about?</b>	<b>Percent</b>	<b>Number</b>
Plans for future	60.96%	709
Health problems	38.18%	444
School lessons	44.11%	513
Peers at school or in the community	12.04%	140
Family problems	16.68%	194
Conflict with your parents or guardians	7.31%	85
Conflicts with husband or boyfriends	0.95%	11
Conflicts with friends and neighbors	30.95%	360
Conflicts with siblings	17.71%	206
Conflicts at work	0.86%	10
Financial plans/saving money	2.32%	27
Work or career plans	1.89%	22
Plans you have with your boyfriend or husband	0.52%	6
Sex or sexual health	0.52%	6
Don't Know	0.17%	2
No Response	0.17%	2
<i>*multiple responses allowed</i>	<b>Respondents</b>	<b>1,163</b>

<b>Table A42</b> <b>Girl survey item D20. If there a big person living in this house hold who you would ask to accompany you to important events ("yes" to D18), what do you talk to this person about?</b>	<b>Percent</b>	<b>Number</b>
Plans for the future	55.28%	670
Health problems	68.40%	829
School lessons	51.98%	630
Peers at school or in the community	11.14%	135
Family problems	12.95%	157
Conflict with your parents or guardians	4.04%	49
Conflicts with husband or boyfriends	1.07%	13
Conflicts with friends and neighbors	20.54%	249
Conflicts with siblings	14.11%	171
Conflicts at work	0.17%	2
Financial plans/saving money	2.31%	28
Work or career plans	1.40%	17
Plans you have with your boyfriend or husband	0.41%	5
Sex or sexual health	0.74%	9
Don't know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,212

<b>Table A43</b>						
<b>Girl survey: Mental Health/Depression (SMFQ) Scale Components</b>						
<b>Question</b>	<b>Response options</b>					<b>Total</b>
	<b>Not true</b>	<b>Sometimes</b>	<b>True</b>	<b>DK</b>	<b>NR</b>	
H1. In the past two weeks, I felt miserable or unhappy	621 (51.07%)	232 (19.08%)	363 (29.85%)	0 (0.00%)	0 (0.00%)	1216
H2. In the past two weeks, I didn't enjoy anything at all	658 (54.11%)	204 (16.78%)	353 (29.03%)	0 (0.00%)	1 (0.08%)	1216
H3. In the past two weeks, I felt so tired I just sat around and did nothing	649 (53.37%)	226 (18.59%)	341 (28.04%)	0 (0.00%)	0 (0.00%)	1216
H4. In the past two weeks, I was very restless	529 (43.5%)	279 (22.94%)	407 (33.47%)	1 (0.08%)	0 (0.00%)	1216
H5. In the past two weeks, I felt I was no good anymore	782 (64.31%)	169 (13.9%)	265 (21.79%)	0 (0.00%)	0 (0.00%)	1216
H6. In the past two weeks, I cried a lot	713 (58.63%)	188 (15.46%)	315 (25.9%)	0 (0.00%)	0 (0.00%)	1216
H7. In the past two weeks, I found it hard to think properly or concentrate	646 (53.13%)	235 (19.33%)	335 (27.55%)	0 (0.00%)	0 (0.00%)	1216
H8. In the past two weeks, I hated myself	829 (68.17%)	158 (12.99%)	229 (18.83%)	0 (0.00%)	0 (0.00%)	1216
H9. In the past two weeks, I was a bad person	903 (74.26%)	121 (9.95%)	192 (15.79%)	0 (0.00%)	0 (0.00%)	1216
H10. In the past two weeks, I felt lonely	731 (60.12%)	216 (17.76%)	269 (22.12%)	0 (0.00%)	0 (0.00%)	1216
H11. In the past two weeks, I thought nobody really loved me	755 (62.09%)	163 (13.4%)	298 (24.51%)	0 (0.00%)	0 (0.00%)	1216
H12. In the past two weeks, I thought I could never be as good as other kids	703 (57.81%)	175 (14.39%)	338 (27.8%)	0 (0.00%)	0 (0.00%)	1216
H13. In the past two weeks, I did everything wrong	831 (68.34%)	189 (15.54%)	196 (16.12%)	0 (%)	0 (%)	1216

<b>Table A44</b>		
<b>Girl survey item I1:</b>		
<b>Which of the choices could be called something you need?</b>	<b>Percent</b>	<b>Number</b>
Food for your family	88.90%	1081
An extra pair of shoes	69.33%	843
Alcohol	6.66%	81
Don't Know	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216
<b>Girl survey item I2:</b>		
<b>Which of the choices could be called something you need instead of just something you want?</b>		
	<b>Percent</b>	<b>Number</b>
Food for your family	72.29%	879
Money for a place to live	66.94%	814
Soft Drink	30.18%	367
Don't Know	0.41%	5
No Response	0.16%	2
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216

<b>Table A45</b>		
<b>Girl survey item I3: Which of the choices is a reason to put money aside (save money)?</b>		
	<b>Percent</b>	<b>Number</b>
To have money to meet an emergency (like an accident or illness).	71.88%	874
For personal or family goals, like braiding your hair	51.56%	627
For future plans, like going on vacation	48.36%	588
Don't Know	0.16%	2
No Response	0.08%	1
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216

<b>Table A46</b> <b>Girl survey item I10: In the past year, when you spent money to buy things you need where did you get that money from?</b>	<b>Percent</b>	<b>Number</b>
Mother	56.09%	682
Father	43.83%	533
Other family member	19.57%	238
Cannot buy thing	12.66%	154
Guardian you live with	11.92%	145
Casual job	6.91%	84
Own savings	5.26%	64
Boyfriend or husband	4.36%	53
Other	2.06%	25
Savings group	1.81%	22
Friend	1.56%	19
Spend less on needs	1.32%	16
Don't Know	0.16%	2
Play Mom	0.33%	4
Steady job	0.08%	1
Cash transfer/remittances	0.08%	1
Sugar daddy	0.08%	1
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216

<b>Table A47</b> <b>Girl survey item I11: Do you own anything that helps you make money?</b>	<b>Percent</b>	<b>Number</b>
No	64.72%	787
Basket/bucket	22.04%	268
Garden/farm	11.84%	144
Other	3.87%	47
Wheelbarrow/cart	0.74%	9
Booth/stall	0.99%	12
Don't Know	0.08%	1
Cell Phone	0.00%	0
Phone charger	0.00%	0
No Response	0.00%	0
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216

<b>Table A48</b> <b>Girl survey item K3: As girls grow into women, what changes happen in their bodies?</b>	<b>Percent</b>	<b>Number</b>
Develop breasts	92.02%	1119
Grow taller	68.75%	836
Grow hair in new areas of body	47.86%	582
Menstruation	41.28%	502
Gain weight	30.59%	372
Hormonal changes	1.32%	16
Other	0.49%	6
Don't Know	0.33%	4
No Response	0.08%	1
<i>*multiple responses allowed</i>	<b>Respondents:</b>	<b>1,216</b>

<b>Table A49</b> <b>Girl survey item K2: Do you think your monthly period is something to be ashamed of?</b>	<b>Percent</b>	<b>Number</b>
Yes	60.61%	737
No	26.56%	323
Don't Know	12.66%	154
No Response	0.16%	2
	<b>Total</b>	<b>1216</b>

<b>Table A50</b>		
<b>Girl survey item L3: I am now going to read out a list of contraceptive/family planning methods. Which of these have you used in the past 12 months?</b>	<b>Percent</b>	<b>Number</b>
Has not used any	96.06%	1047
Oral contraceptive pill	0.99%	12
Hormonal injection (i.e. Depo Provera, Nur Isterate)	1.47%	16
Intra-uterine device (IUD or Loop)	0.00%	0
Hormonal implant (Implanon or Nexplanon)	0.00%	0
Jelly/foam	0.00%	0
Male condom	1.01%	11
Female condom	0.00%	0
Diaphragm	0.00%	0
Emergency Contraceptive Pills (morning after pill)	0.00%	0
Withdrawal (a man can pull out of a woman before climax to avoid pregnancy)	0.00%	0
Periodic Abstinence/Rhythm (a couple can avoid sex on days when pregnancy is most likely to occur)	0.00%	0
Non vaginal sex(Anal or oral sex, thigh sex)	0.00%	0
Other	0.28%	3
Don't Know	0.92%	10
No Response	0.00%	0
<i>*multiple responses allowed</i>		<b>Respondents:</b> 1,090

<b>Table A51</b>					
<b>Girls' Knowledge of Condoms</b>					
<b>Question</b>	<b>Response options</b>				<b>Total</b>
	<b>Agree</b>	<b>Disagree</b>	<b>DK</b>	<b>NR</b>	
N1. Condoms are a good way of preventing pregnancy	756 (62.17%)	369 (30.35%)	80 (6.58%)	11 (0.9%)	1216
N2. Condoms are a good way of protecting against HIV/AIDS	904 (74.34%)	226 (18.59%)	80 (6.58%)	6 (0.49%)	1216
N3. Condoms are an effective way of protecting against sexually transmitted diseases	896 (73.68%)	224 (18.42%)	83 (6.83%)	13 (1.07%)	1216
N4. Condoms can slip from on the man and get lost inside the woman's body	325 (26.73%)	735 (60.44%)	139 (11.43%)	17 (1.4%)	1216
N5. Condoms can be used more than one time	310 (25.49%)	777 (63.9%)	114 (9.38%)	15 (1.23%)	1216

<b>Table A52</b>		
<b>Girl survey item M4: What are the signs or symptoms of other (than HIV) sexually transmitted infections when in a woman?</b>	<b>Percent</b>	<b>Number</b>
Pain during urination	48.52%	590
Discharge from vagina	32.81%	399
Don't Know	30.92%	376
Ulcers/sores in genital area	12.91%	157
Other	5.76%	70
No Response	1.64%	20
<i>*multiple responses allowed</i>	<b>Respondents:</b>	1,216



<b>Table A53</b>					
<b>Caretaker Gender Role Norm Attitudes</b>					
<b>Question</b>	<b>Response options</b>				<b>Total</b>
	<b>Agree</b>	<b>Disagree</b>	<b>DK</b>	<b>NR</b>	
C1. It is better for boys to go to school than girls	114 (9.88%)	1038 (89.95%)	1 (0.09%)	1 (0.09%)	1154
C2. Girls should be sent to school only if they are not needed to help at home.	102 (8.84%)	1050 (90.99%)	1 (0.09%)	1 (0.09%)	1154
C3. The main reason why boys/sons should be more educated than girls is for them to take care of their parents when they are older.	398 (34.49%)	756 (65.51%)	0 (0.00%)	0 (0.00%)	1154
C4. If there is a very small amount of money to pay for school fees it is better to send the boys to school first.	177 (15.34%)	977 (84.66%)	0 (0.00%)	0 (0.00%)	1154
C5. Women should leave politics or government business to the men.	274 (23.74%)	879 (76.17%)	1 (0.09%)	0 (0.00%)	1154
C6. Every woman needs a man to protect her because she cannot protect herself	789 (68.37%)	364 (31.54%)	1 (0.09%)	0 (0.00%)	1154
C7. The only thing a woman can depend on in her old age is her sons.	367 (31.8%)	786 (68.11%)	1 (0.09%)	0 (0.00%)	1154
C8. A good woman never refuses anything her husband says.	537 (46.53%)	615 (53.29%)	2 (0.17%)	0 (0.00%)	1154
C9. Daughters should have just the same chance to work outside the homes as sons	832 (72.1%)	322 (27.9%)	0 (0.00%)	0 (0.00%)	1154
C10. Girls should be told that if they have plenty children they will not be able work outside the home and make money.	801 (69.41%)	353 (30.59%)	0 (0.00%)	0 (0.00%)	1154
C11. I would like my girl child to work outside the home so she can support herself and her family	980 (84.92%)	174 (15.08%)	0 (0.00%)	0 (0.00%)	1154

<b>Table A54</b>		
<b>D1. Do you believe that in order to bring up girls correctly, you need to physically punish them?</b>	<b>Percent</b>	<b>Number</b>
No	55.37%	639
Yes	44.63%	515
<b>Total</b>		<b>1154</b>

<b>Table A55</b>			
<b>Comparison Rosenberg Self-Esteem Scores</b>			
<b>Nation</b>	<b>Alpha</b>	<b>Mean</b>	<b>SD</b>
Botswana	.72	30.85	4.11
Dem. Rep. of the Congo	.45	31.28	2.93
Ethiopia	.64	29.24	3.69
Tanzania	.61	29.52	3.95
Zimbabwe	.75	30.77	4.07
United States (reference)	.75	30.77	4.07

## Respondent Comprehension and Survey Environment

### Caregiver Survey

Questions in the following tables were asked to caregivers during the caregiver survey to assess the respondent's level of comprehension and the main language used during the interview. For the question about whether or not the respondent appeared to understand the questions, enumerators judged respondent understanding on a scale of 1-5, with 1 indicating the respondent never understood and 5 indicating the respondent always understood.

<b>Table A56</b>		
<b>Z1. Were the questions you answered:</b>	<b>Percent</b>	<b>Number</b>
Very easy to understand	29.29%	338
Easy to understand	69.15%	798
Difficult to understand	1.47%	17
Very difficult to understand	0.09%	1
	<b>Total</b>	<b>1154</b>

<b>Table A57</b>		
<b>END1. DID THE RESPONDENT APPEAR TO UNDERSTAND THE QUESTIONS?</b>	<b>Percent</b>	<b>Number</b>
1 Never understood	18.20%	210
2	25.04%	289
3	5.81%	67
4	17.07%	197
5 Always understood	33.88%	391
	<b>Total</b>	<b>1154</b>

<b>Table A58</b>		
<b>END2. ENUMERATOR: WHAT WAS THE MAIN LANGUAGE USED DURING THIS INTERVIEW?</b>	<b>Percent</b>	<b>Number</b>
Liberian English	79.90%	922
Gio	4.07%	47
Mano	15.86%	183
Other	0.17%	2
	<b>Total</b>	<b>1154</b>

## Girl Survey

Questions in the following tables were asked to girls during the girl survey to assess the respondent's level of comprehension, the enumerator's perception of the girl's age and the main language used during the interview. For the question about whether or not the respondent appeared to understand the questions, enumerators judged respondent understanding on a scale of 1-5, with 1 indicating the respondent never understood and 5 indicating the respondent always understood.

<b>Table A59</b> <b>Z1. Were the questions you answered:</b>	<b>Percent</b>	<b>Number</b>
Very easy to understand	14.39%	175
Easy to understand	80.76%	982
Difficult to understand	4.28%	52
Very difficult to understand	0.58%	7
<b>Total</b>		<b>1216</b>

<b>Table A60</b> <b>END1. DID THE RESPONDENT APPEAR TO UNDERSTAND THE QUESTIONS?</b>	<b>Percent</b>	<b>Number</b>
1 Never understood	28.37%	345
2	49.26%	599
3	15.46%	188
4	4.44%	54
5 Always understood	2.47%	30
<b>Total</b>		<b>1216</b>

<b>Table A61</b> <b>END2. WAS ANYONE ELSE PRESENT DURING ANY PART OF THE INTERVIEW?</b>	<b>Percent</b>	<b>Number</b>
No	97.62%	1187
Yes	2.38%	29
<b>Total</b>		<b>1216</b>

<b>Table A62</b> <b>END 2C. DID THIS PERSON INTERFERE WITH THE INTERVIEW?*</b>	<b>Percent</b>	<b>Number</b>
No	75.86%	22
Yes	24.14%	7
<b>Total</b>		<b>29</b>

\* The person identified as being present during the interview in the previous question.

<b>Table A63</b> <b>END3. WHAT WAS THE SETTING IN WHICH THE INTERVIEW TOOK PLACE?</b>	<b>Percent</b>	<b>Number</b>
Quiet, private	94.08%	1144
Some noise, semi-private	5.59%	68
Noisy, people around	0.33%	4
	<b>Total</b>	<b>1216</b>

<b>Table A64</b> <b>END4. OVERALL, HOW WAS THE RESPONDENT'S INTEREST IN THE INTERVIEW?</b>	<b>Percent</b>	<b>Number</b>
Very high	23.85%	290
Above average	36.02%	438
Average	36.27%	441
Below average	2.14%	26
Very low	1.73%	21
	<b>Total</b>	<b>1216</b>

<b>Table A65</b> <b>END6. DID THE RESPONDENT APPEAR TO BE WITHIN THE 13-14 YEAR OLD AGE RANGE?</b>	<b>Percent</b>	<b>Number</b>
No	1.48%	18
Yes	98.52%	1198
	<b>Total</b>	<b>1216</b>

<b>Table A66</b> <b>END7. ENUMERATOR: WHAT WAS THE MAIN LANGUAGE USED DURING THIS INTERVIEW?</b>	<b>Percent</b>	<b>Number</b>
Liberian English	78.13%	950
Gio	5.67%	69
Mano	16.04%	195
Other	0.16%	2
	<b>Total</b>	<b>1216</b>