



Enterics for Global Health: *Shigella* surveillance study
(EFGH) statistical analysis plan and case report forms



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Enterics for Global Health (EFGH)
Statistical Analysis Plan
Version 2.0



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SECTION 1. ADMINISTRATIVE INFORMATION

Title: Statistical Analysis Plan (SAP) for the Enterics for Global Health (EFGH) study

SAP Version: 2.0 (17 June 2024)

Protocol Version: 5.0 (09 June 2023)

SAP Revision History:

SAP version (date)	Justification for Revision	Timing of SAP in relation to interim analysis
2.0 (17 June 2024)	Adding complete secondary aim sections and revised SAP per consortium review	N/A

SAP Working Group

Name	EFGH Role
Faisal Ahmmed	Co-Investigator, icddr,b
Hannah Atlas	Co-Investigator, University of Washington (UW)
John Clemens	Co-Principal Investigator-Bangladesh, International Vaccine Institute (IVI)
Erika Feutz	Data Manager & Analyst, UW
Sean Galagan	Senior Data Manager & Analyst, UW
Jahangir Hossain	Co-Principal Investigator-the Gambia, The Medical Research Council Unit - The Gambia (MRCG)
Muhammed Jawwad	Co-Investigator, The Aga Khan University (AKU)
Karen Kotloff	Co-Principal Investigator-Mali, Kenya, the Gambia, The University of Maryland, Baltimore (UMB)
Donnie Mategula	Co-Investigator, Malawi-Liverpool-Wellcome Trust (MLW)
Christine McGrath	Co-Investigator, UW
Billy Ogwel	Co-Investigator, Kenya Medical Research Institute (KEMRI)
Dr. Patricia Pavlinac	Co-Principal Investigator-Coordination, UW
James Platts-Mills	Co-Investigator, The University of Virginia (UVA)
Elizabeth Rogawski-McQuade	Co-Investigator, Emory University
Francesca Schiaffino	Co-Investigator, UVA
Mili Tapia	Co-Investigator, UMB
Tahir Yousufzai	Co-investigator, AKU

Also Contributed to SAP Content

Name	EFGH Role
Chloe Morozoff	Implementation Science Analyst, UW
Arianna Rubin Means	Co-Investigator, University of Washington (UW)
Olivia Schultes	Data Manager & Analyst, UW

Abbreviations

Δ LAZ/HAZ	Linear growth
AIC	Akaike information criterion
AKU	The Aga Khan University
CI	95% confidence interval
CLSI	Clinical and Laboratory Standards Institute
CT	Cycle threshold
DCS	Diarrhea case surveillance
EFGH	Enterics for Global Health
ETEC	Enterotoxigenic <i>E. coli</i>
GEMS	Global Enteric Multicenter Study
GLM	Generalized Linear Models
HAZ	Height for age Z-score
HUS	Healthcare Utilization Survey
ICD-11	International Classification of Diseases 11 th Revision
IMCI	Integrated Management of Childhood Illness
IR	Incidence rate
IRB	Institutional Review Board
IQR	Interquartile range
IVI	International Vaccine Institute
JMP	WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene
KEMRI	Kenya Medical Research Institute
LAZ	Length for age Z-score
LRTI	Lower respiratory tract infection
LSD	Less-severe diarrhea
LTFU	Lost to follow-up
MAD	Medically-attended diarrhea
MAL-ED	Malnutrition and Enteric Disease Study
mBGS	Modified buffered glycerol saline
MDR	Multidrug-resistant
MLW	Malawi-Liverpool-Wellcome Trust
MRCG	The Medical Research Council Unit - The Gambia
MSD	Moderate-to-severe diarrhea
MUAC	Mid-upper arm circumference
MVS	Modified Vesikari score
NPV	Negative predictive value
PPV	Positive predictive value
PR	Prevalence ratio
ROC	Receiver operating characteristics
RR	Relative risk
SAP	Statistical analysis plan
SD	Standard deviation
SES	Socioeconomic status
TAC	TaqMan Array Card
UMB	The University of Maryland, Baltimore
USD	United states dollars
UVA	The University of Virginia
UW	University of Washington
WAZ	Weight for age Z-score
WHO	World Health Organization
WLZ	Weight for length Z-score
XDR	Extensively drug-resistant

SECTION 2. INTRODUCTION

Background and Rationale

In low- and middle-income countries, nearly one third of children experience at least one episode of *Shigella*-attributable diarrhea during their first two years of life.¹ In addition to being a leading cause of diarrhea, this enteric bacterium is also associated with linear growth faltering, a precursor to stunting.^{2,3} Stunting is a marker of vulnerability to childhood infection, decreased vaccine efficacy and lifelong morbidity. Currently, several promising *Shigella* vaccines are in development. Eventual Phase 2b/3 *Shigella* vaccine trials will require a consortium of potential vaccine trial sites in settings with a high incidence of *Shigella*-attributed medically-attended diarrhea (MAD), high participant retention, and the laboratory capacity to confirm *Shigella* infection. The Enterics for Global Health (EFGH) *Shigella* surveillance study will employ cross-sectional and longitudinal study designs to establish updated incidence rates and document consequences of *Shigella* diarrhea within seven country sites in Africa, Asia, and Latin America. Specifically, we aim to:

Aims

1. **Primary Aim:** Determine the incidence of *Shigella*-attributed MAD in children 6 to 35 months of age in each of the EFGH country sites.
2. **Secondary Aim 1:** Determine the incidence of *Shigella* MAD by serotype, severity definition, laboratory method (culture vs. qPCR), age, and by season.
3. **Secondary Aim 2:** Describe the prevalence of resistance to commonly used antibiotics in *Shigella* isolates in each EFGH country site.
4. **Secondary Aim 3:** Determine the risk of death, hospitalization, persistent diarrhea, experiencing a subsequent diarrhea episode, and linear growth faltering in the three months following an episode of *Shigella* MAD.
5. **Secondary Aim 4:** Compare various severity definitions in their ability to predict risk of death or hospitalization among cases of MAD and *Shigella*-attributable medically attended diarrhea, respectively.
6. **Secondary Aim 5:** Quantify the cost incurred by families and health care systems due to *Shigella* morbidity and mortality.
7. **Secondary Aim 6:** Identify optimal laboratory methods for *Shigella* culture by:
 - a. Comparing the isolation rate of *Shigella* between two transport media for rectal swabs (Cary-Blair and modified Buffered Glycerol Saline [mBGS]).
 - b. Comparing the isolation rate of *Shigella* between two fecal sample types (rectal swabs and whole stool) among the subset of children who produced whole stool in The Gambia and Bangladesh country sites.

SECTION 3. STUDY METHODS

Study Design

The EFGH study will employ cross-sectional and longitudinal study designs to establish incidence and consequences of *Shigella* diarrhea. Children aged 6-35 months of age presenting with diarrhea at selected study health facilities will be recruited over a 24-month period and followed for three months. Randomly selected households will be visited within each EFGH site catchment area over the 24-month recruitment period to estimate the population of children aged 6-35 months in the catchment area. A healthcare utilization survey (HUS) will be conducted among households in the catchment area with one or more children in the 6-35-month age range to determine the proportion of diarrhea cases that present to EFGH study health facilities. The number of cases divided by the estimated number of children 6-35 months of age residing in the catchment area and time of surveillance will estimate the crude incidence rate of *Shigella* diarrhea in 6-35 months of age. This incidence rate will be adjusted by the proportion of eligible children

enrolled and the proportion of eligible children with diarrhea who sought care at an EFGH recruiting facility.

Sample Size

The minimum number of confirmed *Shigella* cases (numerator) and minimum size of the source population within health facility catchment area (denominator) required to estimate *Shigella* incidences and 95% confidence intervals with specified precision (half-widths of 0.25 cases per 100 child-years) within children aged 6-35 months were estimated. To ensure appropriate precision in estimates of serotype and antibiotic susceptibility of *Shigella* isolates, we aim recruit at least 65 children with culture-confirmed *Shigella* diarrhea at each EFGH site. We assumed that 4.8% of diarrhea cases will be *Shigella* culture-positive in the EFGH study, requiring that we enroll 1400 children presenting to health facilities with diarrhea over the 24-month period (~58 per month). The size of the catchment area population (>97,000) was determined assuming an unadjusted *Shigella* incidence rate of 0.63 per 100 child-years (unadjusted for health care seeking behavior) and 95% confidence interval precision of 0.25 (half-width).

Framework

Not applicable.

Interim Statistical Analysis and Stopping Guidance

Interim “Data Readouts” presenting preliminary study results will be generated on a biannual basis and shared with study investigators and the BMGF. As this study is not a randomized trial and there is no intervention, there is no stopping guidance.

Timing of Final Analysis

The primary study publication will be prepared for the primary aim when every enrolled child has completed their three-month follow-up visit or is deemed lost to follow-up and all data for the primary aim has been cleaned (anticipated publication submission in May of 2025).

Figure A. Timeline of study activities

Key Activity	2022				2023				2024				2025	
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Diarrhea case surveillance (24 months recruitment + 3 months final follow-up)														
Population enumeration activities														
Healthcare utilization survey														
Data cleaning														
Data analysis														
Publication preparations														
Dissemination of results														

Longitudinal follow-up

The schedule of study procedures is outlined in Figure A. Regularly scheduled clinical visits include those at enrollment and at follow-up (week four and month three) and are defined as a 14-day period in which visits are considered completed (24-37 days post-enrollment for the week four visit and 84-97 days post-enrollment for the month three visit). Additionally, visits are allowed for up to 30 days past the visit window (38-67 days post-enrollment for the week 4 visit and 98-127 days post-enrollment for the month 3 visit) though may be excluded from analyses (**Table B**).

Table B. Allowable windows for longitudinal follow-up		
Visit	Visit Window	Allowable visits
Week four follow-up visit	24-37 days post-enrollment.	38-67 days post-enrollment.
Month three follow-up visit	84-97 days post-enrollment.	98-127 days post-enrollment.

SECTION 4. STATISTICAL PRINCIPLES

Confidence Intervals and P-values

Level of Statistical Significance

All statistical tests will be two-sided using a 5% significance level (alpha of 0.05).

Type I Errors

We will not adjust the alpha for multiple testing in the primary or secondary aims. For secondary aims that involve multiple hypothesis tests, we will frame the results as exploratory and acknowledge type-I error in the limitations sections.

Confidence Intervals to be Reported

Two-sided 95% confidence intervals will be used. The specific calculation of confidence intervals is described under each specific aim.

Protocol Deviations

Definition of protocol deviations

The following are pre-defined major protocol deviations with a direct bearing on the primary outcome:

- Errors in applying inclusion/exclusion criteria that are discovered after enrollment, including lack of informed consent.

The following are pre-defined minor protocol deviations:

- Missed sample collection (stool/rectal swab, blood spot) due to participant refusal or other barrier to sample collection (such as visit occurring over phone).
- Missed anthropometry assessment due to follow-up visit occurring over the phone

Description of which protocol deviations will be summarized

Protocol deviations will be classified as major and minor. The number (and percentage) of participants with major and minor protocol deviations will be summarized by study site in relevant analyses with details of the deviation provided. No statistical tests will be performed.

Analysis Populations

All children with non-missing outcome data (for each relevant aim) will be included in primary and secondary analyses.

Missing data for symptom duration variables will be assumed as absence of a given symptom in primary analyses and in secondary analyses assumed to be presence of the given symptom.

SECTION 5. STUDY POPULATIONS

Diarrhea Case Surveillance Screening

The total number pre-screened, screened, and enrolled in Diarrhea Case Surveillance (DCS) will be reported along with summary of reasons for exclusion into the study.

DCS Eligibility

Children aged 6 to 35 months old presenting at an EFGH facility with diarrhea (three or more abnormally loose or watery stools per 24 hours) (Table C).

Table C. Description of study population and criteria for the inclusion and exclusion of DCS enrollment.

Study Population	Children aged 6 to 35 months old presenting at an EFGH facility with diarrhea (three or more abnormally loose or watery stools in the previous 24 hours).
Inclusion Criteria	<ul style="list-style-type: none"> • Primary caregiver and child plan to remain at their current residence for at least the next four months • Primary caregiver is able to provide informed consent (legal age or emancipated minor) and provides consent within a common language for which translations are available • Child resides within the pre-defined study area • Fewer than four hours have passed since the child presented to a health facility • Diarrhea episode is: <ul style="list-style-type: none"> ○ Acute (onset within seven days of study enrollment) and ○ Represents a new episode (onset after at least two diarrhea-free days) • Caregiver is willing to have child participate in follow-up visits at week four and month three • Willingness to have samples collected from the child (rectal swabs at enrollment) • Site enrollment cap has not been met • Child is not being referred to a non-EFGH facility at the time of screening
Exclusion Criteria	<ul style="list-style-type: none"> • Children younger than six months or 36 months or older • Diarrhea does not meet the study definition (three or more abnormally loose or watery stools in the previous 24 hours) • Primary caregiver unable to provide informed consent or refuses to provide consent • Primary caregiver refuses verbal consent to screening procedures • Child does not reside in the study catchment area • four or more hours have passed since child presented to the study facility • Diarrhea episode is not acute (>7 days) or does not represent a new episode (<2 diarrhea free days) • Caregiver unwilling to have child participate in follow-up at four weeks and three months • Caregiver unwilling to have samples collected at enrolment (rectal swabs) • Site enrolment cap has been met • Child is being referred to a non-study facility

Population Enumeration and HUS Eligibility

All households residing in the study catchment area and where an adult household member provides verbal consent will be eligible to participate in population enumeration activities. Children who are (1) 6-35 months of age, (2) had diarrhea (three or more unusually loose or watery stools during a 24-hour period) in the past 14 days, and (3) whose primary caretakers provides written or verbal informed consent (per site procedures and institutional review board [IRB] requirements) will complete the HUS.

Recruitment

Children will be passively recruited from study outpatient facilities for DCS enrollment. Prior to the screening process, potential participants will be pre-screened for eligibility by the study staff.

Per CONSORT guidelines, we will report the number of individuals who (**Figure 1**):

1. Underwent pre-screening
2. Underwent screening

3. Did not undergo screening (and reasons)
4. Met inclusion criteria
5. Did not meet inclusion criteria (and reasons)
6. Enrolled in the study
7. Not enrolled in study (and reasons)
8. Completed week four and month three follow-up visits

Withdrawal/Follow-Up

Withdrawal

Withdrawal of consent will be tabulated by country site using the following categories: withdrawal but allow prior collected data/ samples to be used and withdrawal and disallow already collected data/samples to be utilize.

Missed Visits/Loss to follow-up

Week four visits (defined as study visits 24 to 67 days after enrollment) and month three visits (defined as study visits 84 to 127 days after enrollment) that were missed will be tabulated in categories of completely missed, visit occurred but outside of window, visit occurred over phone by country site. Lost to follow-up (LTFU) will be defined as missing both the week four and month three visit.

SECTION 6. ANALYSIS

Definitions

1. **Diarrhea** defined as three or more abnormally loose or watery stools in a 24-hour period.
2. **Diarrhea episode** will be defined as the period of days in which the above definition is met followed by two diarrhea-free days.
3. **Culture-confirmed *Shigella* diarrhea case** will be defined as a case of acute diarrhea presenting to an EFGH facility in which *Shigella* was isolated from either of the cultured fecal sample collected by rectal swab and transported in mBGS or Cary-Blair media.
4. **qPCR-confirmed *Shigella* diarrhea case** will be defined as a case of acute diarrhea presenting to an EFGH facility in which *Shigella* DNA was identified in the fecal sample by qPCR (cycle threshold [CT] <31.1 for rectal swab or CT<29.8 for whole stool) by the TaqMan Array Card (TAC) assay.
5. ***Shigella* – attributed diarrhea case** will be defined as a case of acute diarrhea presenting to an EFGH facility in which *Shigella* was confirmed by either culture or qPCR (as outlined in #3 and #4 above).
6. **Dysentery** will be defined for DCS as a caregiver report of blood in the stool during the index diarrhea episode or a clinician diagnosis during the enrollment procedures and for the HUS as caregiver report of blood in the stool.
7. **Watery diarrhea** will be defined for DCS as the lack of caregiver report of blood in the stool during screening, enrollment and during the diarrhea episode, and no dysentery diagnosis by the clinician among enrolled participants in the DCS, and for the HUS as the lack of caregiver report of blood in the stool for children whose caregiver reported diarrhea in the previous 14 days.
8. **Severity of diarrhea** will be defined according to multiple definitions (dysentery/watery diarrhea, hospitalized diarrhea, modified Vesikari score [MVS], moderate or severe diarrhea by MVS or dysentery, the Global Enteric Multicenter Study [GEMS] moderate-to-severe diarrhea [MSD] or less-severe diarrhea [LSD], GEMS-*Shigella*, Clark or the Malnutrition and Enteric Disease Study [MAL-ED] for incidence rate and consequence comparisons.

9. **Deaths** occurring within the three-month follow-up period will be assessed by caregiver report at each scheduled visit or during upcoming visit phone reminders. Date and cause of death will be obtained from caregiver history, hospital records or death certificate, when available. The death certificate will be considered the gold standard for date of death. If a child died in the three-month period, but this information was not known until up to five months (two months beyond scheduled three-month visit), this will be included as death. Deaths occurring outside of the three-month window will not be included. Causes of death will be determined by a panel of International Classification of Diseases 11th revision (ICD-11) trained clinicians using information from the child's death certificate (if available), caregiver interview (if available), and case notes from the child's care team.
10. **Hospitalization** will be assessed at the week four and month three visits by caregiver recall and hospital records (gold standard) when available. Date and time of admission, length of hospital stay, presenting signs/symptoms, and treatment received will be obtained. Hospitalizations that are a continuation of management from a previous hospitalization (such as referrals) will be excluded from the analysis. For the purpose of standardization across sites, hospitalization will be defined as an overnight stay (child was on the ward from at least 12am to 6am or self-discharged prior to that timeframe).
11. **Loss to follow-up (LTFU)** will be defined as not having attended both the week four and month three follow-up visits after two months of actively tracing the child.
12. **Linear growth** will be defined as the change in mean length/height-for-age Z-score (Δ LAZ/ Δ HAZ) from enrollment to three months. The 2006 World Health Organization (WHO) reference population will be used to calculate HAZ from the average of two repeated length/height (cm) measures per child per time point.
13. **Duration of diarrhea/dysentery/vomiting/fever** will be determined as the number of days a child has the symptoms within an episode of diarrhea. Because an episode is defined by two diarrhea-free days, the duration of each symptom may differ from the duration of the diarrhea episode (for example if there is one diarrhea free day within an episode). Notably this is distinct from the duration of the episode.
14. **Duration of diarrhea episode** will be defined as the number of days between when the caregiver reported the child's diarrhea starting and the last day of diarrhea prior to the two consecutive diarrhea-free days concluding the episode.
15. **Prolonged diarrhea** will be defined as seven or more days of diarrhea within the index diarrhea episode beginning from diarrhea onset.
16. **Persistent diarrhea** will be defined as 14 or more days of diarrhea within the index diarrhea episode beginning from diarrhea onset.
17. **Chronic diarrhea** will be defined as 30 or more days of diarrhea within the index diarrhea episode beginning from diarrhea onset.
18. **Extended case fatality** will be calculated as the proportion of enrolled participants that experience a mortality event from any cause during the three months of EFGH follow-up.
19. **Stunting** will be defined as a length-for-age Z-score (LAZ, children <24 months of age) or height-for-age Z-score (HAZ, children \geq 24 months of age) <-2.
20. **A subsequent diarrhea/dysentery episode** will be defined as new diarrhea/dysentery episodes (>48 hours after a diarrhea-free period).
21. **Cost per episode treated** will be calculated using the direct and indirect costs of *Shigella*-associated MAD per outpatient and inpatient episode, from the household, health system, and societal perspectives.

22. **Antibiotic resistance** will be based on zone size (from disc diffusion) values for each tested antibiotic and categorized as susceptible, intermediate, or resistant according to the most recent Clinical and Laboratory Standards Institute (CLSI) interpretive standards at the time of data analysis. Resistant and intermediate categories will be collapsed into a non-susceptible category to create a dichotomous variable. Multidrug-resistant (MDR) will be defined as resistance to at least three of the following medications: Ampicillin, Azithromycin, Ceftriaxone, Ciprofloxacin, Nalidixic Acid, Pivemicellinam, and Trimethoprim-Sulfamethoxazole. Extensively drug-resistant (XDR) will be defined as resistance to Ampicillin, Azithromycin, Ciprofloxacin, Ceftriaxone and Trimethoprim-Sulfamethoxazole. Resistance to all WHO recommended treatments will be defined as resistance to Azithromycin, Ciprofloxacin and Ceftriaxone.

Analysis Methods

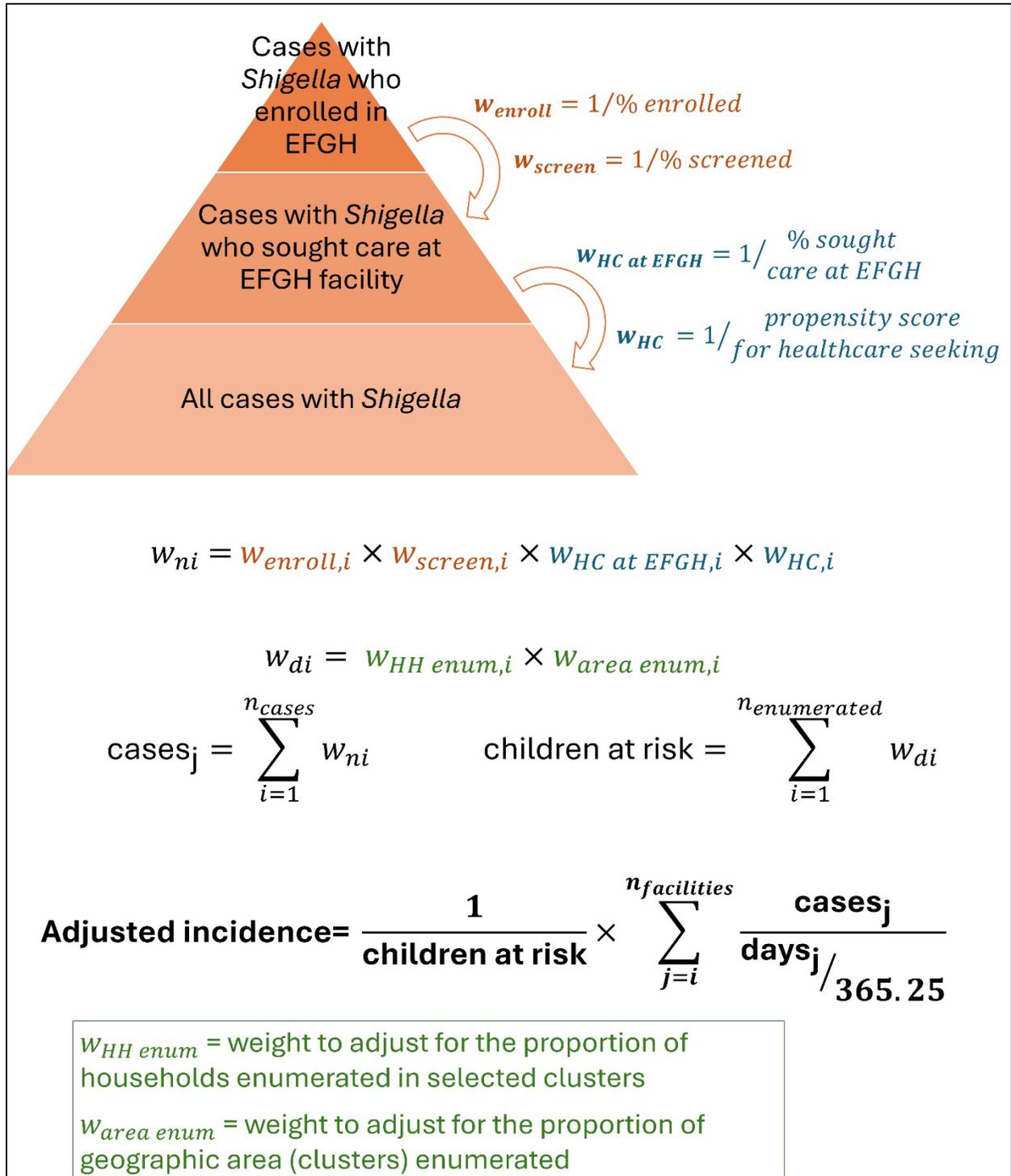
Statistical Analysis

1. **Primary Aim.** *To determine the incidence of Shigella-attributed diarrhea in children 6 to 35 months of age in each of the EFGH country sites.*
 - a. **Statistical Analysis:** The adjusted incidence of *Shigella* will be calculated as the sum of total confirmed *Shigella* diarrhea cases divided by the child-years at risk of children 6-35 months of age in the defined catchment area, adjusting for healthcare-seeking behavior and children who were eligible but not enrolled (w_n). Crude incidence rates as well as incidence rates adjusted for enrollment but not care-seeking will also be presented. Analyses will be conducted separately using both culture-confirmed *Shigella* and attributable *Shigella* by molecular methods (TAC). All incidence rates will first be calculated using the number of *Shigella* cases and defined population size at the facility level, adjusted for the facility-specific enrollment adjustment, summed to determine the total enrollment-adjusted incidence rate, and then adjusted for care-seeking to determine the final adjusted incidence (**Table 3**).

Child-years at risk to *Shigella* is determined by the defined population size and the facility-specific period of follow-up ($\text{days}_f/365.25$; approximately two years). The first is the estimated number of children 6-35 months of age in the catchment area which will be determined by totaling the number of children in this age range enumerated during population enumeration activities and extrapolating this estimate to study clusters not visited and households that were not reached (w_d).

Among children 6-35 months of age who had diarrhea in the past 14 days and whose caregiver consented the HUS, the healthcare seeking adjustment, w_{HC} is defined as the proportion of children with a similar syndrome who sought care for diarrhea at an EFGH-facility. The healthcare seeking adjustment will be estimated for each enrolled case using the estimated coefficients from a 'propensity to seek care' weighting model fit to data from children reporting diarrhea in the previous two weeks in the HUS. At a minimum, w_{HC} will be computed separately for dysentery and watery diarrhea (i.e., the weighting model will include dysentery as a covariate as ascertained by the caregiver answering the HUS). The weighting model may also include other characteristics of diarrhea severity, socioeconomic status (SES), age and other variables of importance depending on the numbers of comparable cases observed in the HUS. The propensity to seek care model in the HUS will use any care-seeking at a primary healthcare facility and will then be adjusted for the site-specific difference in overall care-seeking and care-seeking to EFGH facilities ($w_{HC \text{ at EFGH}}$).

In sensitivity analyses, we will restrict the weighting model to cases of diarrhea from the HUS within the past seven days instead of 14 days as seven-day recall is likely less biased than 14-day recall (although will inevitably be less precise because of fewer episodes included). Because children who have more severe diarrhea are more likely to seek care, we expect to upweight diarrhea cases enrolled with less severe diarrhea more heavily than diarrhea cases enrolled with more severe diarrhea.



The enrollment adjustment will be episode and facility-specific based on DCS enrollment procedures. Specifically, it will be computed separately for dysentery and watery diarrhea and for each facility. The enrollment adjustment is defined as the percentage of children who were enrolled among the estimated number of children six to 35 months of age living in the catchment area who met the study definition of diarrhea and therefore would have been eligible for study participation but screened out due to lack of consent, no longer being at the facility, or other administrative reasons (i.e. presented overnight or during a weekend when EFGH screening did not occur). This adjustment is split into two parts: *prescreening* (w_{screen}) and *screening* (w_{enroll}). The *screening* adjustment determines the percentage enrolled of those who were theoretically eligible (6-35 months, living in catchment area, and met diarrhea definition) to account for children who were not enrolled due to caregiver refusal or withdrawal of consent, limited staff or clinic capacity, the respondent not planning to remain in the study area four months, the child being enrolled in another interventional study, more than four hours having passed since the child began screening procedures, the child being referred to a non-EFGH facility or the child not being enrolled due to the enrollment cap. The *prescreening* adjustment determines the percentage of children 6-35 months of age whose caregiver or clinical records indicated they presented with diarrhea, dysentery or gastroenteritis and who were not already enrolled in EFGH who were screened to account for children who did not get screened due to verbal refusal by the caregiver or the child not being present in the facility. Because it is unknowable whether or not these children would have been eligible had they undergone full screening, we will apply the observed eligibility proportion from screening to those pre-screened. The final enrollment adjustment is taken by multiplying the screening and prescreening adjustments. Summaries of the calculation of denominators and adjustments will be presented in supplementary tables.

Confidence intervals around the primary aim of adjusted incidence of *Shigella* (as well as secondary aims presenting stratified *Shigella* incidence by age, serogroup, serotype, disease severity and seasonality) will be generated using M-estimation. Specifically, estimating equations will be constructed for each component of the incidence estimate (the number of confirmed *Shigella* cases, screening adjustment [w_{screen} and w_{enroll}], healthcare seeking adjustment [w_{HC} and $w_{\text{HC at EFGH}}$], defined population size [w_d], and incidence [w_n]) and solved in a single step using the *geex* package in R. The sandwich variance estimator will be used to calculate standard error and generate Wald-based confidence intervals (estimate +/- 1.96*standard error).

b. Sensitivity analyses:

- i. We will restrict the care seeking adjustment to cases of diarrhea within the past seven days instead of 14 days as seven-day recall is likely less biased than 14-day recall (although will inevitably be less precise because of fewer episodes included).
- ii. As the enrollment adjustment does not consider, as potentially eligible, children who are currently enrolled in EFGH and in the three-month follow-up period, we will estimate the potential impact of this exclusion on the diarrhea incidence by estimating, through follow-up visit and unscheduled visit questionnaires, the proportion of enrolled cases who presented to EFGH facilities with diarrhea who would otherwise meet the EFGH eligibility criteria. We will estimate incidence rates that include these subsequent diarrhea episodes to estimate the upper bound of incidence rates (such as might be observed in a prospective cohort study).

- iii. Attributable *Shigella* by TAC will be defined as a rectal swab ipaH CT<31.1, however a sensitivity analysis using a cutoff of CT<30.0 will be conducted.

Statistical Analysis of Secondary Aims

1. **Secondary Aim #1:** Determine the incidence of *Shigella* by serotype, severity definition, laboratory method (culture vs. qPCR), age, and by season.
 - a. **Statistical Analysis:** Enrollment- and healthcare seeking-adjusted *Shigella* incidence following the protocol incidence calculation as measured by culture and qPCR will be stratified by the following factors:
 - i. **Serogroup and Serotype (Table 1.1, Figure 1.1):**
 1. *Shigella* species (*S. boydii*, *S. dysenteriae*, *S. flexneri*, *S. sonnei* or undetermined), *S. flexneri* serotype (1a, 1b, 1d, 2a, 2b, 3a, 3b, 4a, 4b, 5a, 5b, 6, 7a, X, Y, non-typable and other) and combined bivalent and quadrivalent vaccine target indicators (defined as *Shigella* positive for *S. flexneri* 2a or *S. sonnei*, and *S. flexneri* 2a, 3a or 6 or *S. sonnei*, respectively).
 2. The denominator for this sub-analysis will be the overall denominator for the primary endpoint.
 3. Serotype distribution will be visualized graphically either as pie charts or as a map with country-level pie-charts (**Figure 1**, not shown).
 - ii. **Age (Table 1.2):**
 1. Stratified by age at enrollment visit (6-8 months, 9-11 months, 12-17 months, 18-23 months or 24-35 months).
 2. The denominator for this sub-analysis will be the estimated child-years at risk in the catchment area for each age stratification.
 - iii. **Diarrhea severity definition:** *Shigella* incidence will be stratified by the following diarrhea severity definitions (**Table 1.2**):
 1. **Dysentery vs. watery diarrhea** will be defined according to whether or not dysentery was present during the diarrheal episode.
 2. **Hospitalized diarrhea** defined as the child being admitted to hospital (overnight stay) during the diarrheal episode.
 3. **Modified Vesikari Score (MVS)** defined as in PATH Vesikari Clinical Severity Scoring System Manual⁸: Duration of diarrhea: 1-4 days (1 point), 5 days (2 points) ≥6 days (3 points); Max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), ≥6 (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), ≥5 (3 points); Axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), ≥38.5°C (3 points); dehydration defined using WHO dehydration categories of some and severe as per Integrated Management of Childhood Illness (IMCI) guidelines, some dehydration (2 points), severe dehydration (3 points); treatment: rehydration (1 point), hospitalization (2 points). The scores will be summed and categorized as severe illness (11+ points), moderate illness (7-10 points), mild illness (0-6 points). If pre- or post-rehydration weights are not known to calculate % dehydration, WHO dehydration categories of some and severe as per IMCI guidelines will be used.
 4. **Moderate or severe diarrhea by MVS or dysentery** will be defined as a MVS of 9+ points or presence of visible blood in stool (Pavlinac,

Vaccines, 2022)⁹. Secondary analyses will use a more stringent cut-off of 11 points and a less stringent cut-off of 7 points.

5. **GEMS MSD and LSD** will be defined as in Kotloff, Lancet GH, 2019.⁶ Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.
 6. **GEMS-Shigella** will be defined as in Pavlinac, CID, 2021.⁷ Duration of diarrhea 1-3 days (0 points), 4-5 days (2 points), ≥ 6 days (3 points); WHO-defined dehydration categories: severe (8 points), some (4 points), none (0 points); inpatient admission (5 points). The scores will be summed and categorized as mild (< 6 points), moderate (6-8 points), and severe (9+ points).
 7. **Clark score** will be defined as in Clark, JID, 1988¹⁰. Duration of diarrhea: 1-4 days (1 point), 5-7 days (2 points), > 7 days (3 points); Max # of stool in 24 hour period: 2-4 (1 point), 5-7 (2 points), > 7 (3 points); Duration of vomiting: 2 days (1 point), 3-5 days (2 points), > 5 days (3 points); max # of vomiting episodes in 24 hour period: 1-3 (1 point), 4-6 (2 points), > 6 (3 points); Duration of reported fever: 1-2 days (1 point), 3-4 days (2 points), ≥ 5 days (3 points); Rectal temperature 38-38.2°C (1 point), 38.3-38.7°C (2 points), ≥ 38.8 °C (3 points); behavioral signs: Irritable/less playful (1 point), Lethargic/listless (2 points), Seizures (3 points). The scores will be summed and categorized as mild (2-8 points), moderate to severe (9+ points).
 8. **MAL-ED score** will be defined as in Lee, J Pediatr Gastroenterol Nutr., 2016¹¹: Duration of diarrhea: 2-4 days (1 point), 5-7 days (2 points), ≥ 8 days (3 points); Max # of stool in 24 hour period: < 5 loose stools/24 hours (1 point), 5-7 loose stools/24 hours (2 points), ≥ 8 stools/24 hours (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥ 3 days (3 points); duration of reported fever: 1+ days (1 point); Confirmed temperature: ≥ 37.5 °C (confirmed by field worker) (2 points); Dehydration: Some (2 points), severe (3 points). The scores will be summed and categorized as non-severe (< 6 points) or severe (6+ points)
 9. The denominator for each subgroup of this sub-analysis will be the overall child-years at risk of *Shigella* in the catchment area (same as the primary analysis). Participants who are missing one or more component of scores will be presented as “Unknown”.
- iv. **Diarrhea season:**
1. Seasonality will be presented graphically (**Figure 1.2** [not shown]) as monthly or quarterly incidence.
 2. The denominator for this sub-analysis will be the estimated child-years at risk in the catchment area for each study month or quarter.
- b. The adjusted incidence rate and 95% confidence interval will be reported for each stratification both overall and by country.
- c. To describe the prevalence *Shigella* and other important enteric pathogens (see below) among participants enrolled in EFGH, the proportion of participant samples testing positive for each pathogen will be calculated among participants who had a stool sample tested by TAC:
- i. Pathogens tested and attributable CT thresholds:
 1. *Shigella* (CT $<$ 31.1)
 2. Adenovirus 40/41 (CT $<$ 25.5)

3. *Cryptosporidium* (CT<27.1)
 4. Norovirus GII (CT<26.6)
 5. Rotavirus (CT<34.2)
 6. Heat stable toxin-producing *E. coli* (ST-EPEC, CT<27.9)
 7. Typical enteropathogenic *E. coli* (tEPEC, CT<20.7)
 8. *Campylobacter jejuni* (CT<20.7)
 9. Astrovirus (CT<26.7)
 10. Sapovirus (CT<24.4)
 11. *Vibrio cholerae* (CT<33.9)
 12. *Salmonella* (CT<33.3)
 13. *Aeromonas* (CT<23.6)
 14. *Cyclospora cayetanensis* (CT<33.9)
 15. *Entamoeba histolytica* (CT<32.6)
 16. *Cystoisospora belli* (CT<34.4)
- ii. Prevalences will be calculated for all participants with MAD and among the following subsets:
1. Among participants presenting with moderate or severe diarrhea (by the Modified Vesikari Score 9+) and/or dysentery.
 2. Among participants who tested positive for *Shigella*-attributable MAD (among non-*Shigella* pathogens).
 3. Among participants who did not test positive for *Shigella*-attributable MAD (among non-*Shigella* pathogens).

2. **Secondary Aim #2:** Describe the prevalence of resistance to commonly used antibiotics in *Shigella* isolates in each EFGH country site.

a. Statistical Analysis: The proportion of *Shigella* culture positive stool samples that are resistant to the medications listed below will be calculated by EFGH region and EFGH study site (**Table 2.1, Figure 2.1** [not shown]):

- Ampicillin
- Azithromycin
- Ceftriaxone
- Ciprofloxacin
- Nalidixic acid
- Pivemicellinam
- Trimethoprim-sulfamethoxazole

Resistance will be defined as “non-susceptibility”, or resistant or intermediate zone size classifications according to the most recent CLSI guidelines at the time of analysis. Resistance will be computed for all of the above antibiotics for all sites, by region (South America [Peru], West Africa [The Gambia and Mali], East Africa [Kenya and Malawi], and Asia [Pakistan and Bangladesh]), and among *S. sonnei* positive samples and *S. flexneri* positive samples. Additionally, we will present the percentage of multi-drug resistant *Shigella* (MDR, resistant to three or more antibiotics), extensively drug resistant *Shigella* (XDR, resistant to all of the following: Azithromycin, Ciprofloxacin, Ceftriaxone, Trimethoprim-sulfamethoxazole, and Ampicillin), and resistance to all WHO recommended treatments (resistant to all of the following: Azithromycin, Ciprofloxacin, and Ceftriaxone).

b. Confidence intervals around non-susceptibility proportions will be determined assuming a binomial distribution.

3. **Secondary Aim #3:** Determine the risk of all-cause mortality, hospitalization, persistent diarrhea, experiencing a subsequent diarrhea episode, and change in linear growth in the three months following an episode of MAD.

- a. Statistical Analysis:

Deaths will be described individually in terms of *Shigella* attribution and overall (**Table 3.1**). Extended all-cause case fatality including ICD-11 cause, age, enrollment site, time from enrollment to death, and *Shigella* attribution will be described (**Table 3.2**). A Fisher's exact test will be used to test whether the proportion of children who died differed between those with and without *Shigella* at enrollment. The cumulative incidence of all-cause mortality will be plotted using the Kaplan-Meier survival function, both overall and stratified by *Shigella*-attribution (**Figure 3.1** [not shown]). Participants will be censored at date of death, last known alive date, or latest follow-up date. Models will not be adjusted because of the anticipated small number of outcomes.

The risk of hospitalization, risk of experiencing subsequent diarrhea episodes, and prevalence of persistent diarrhea will be described by leading attributable cause of the index MAD episode. *Shigella* will either be split into *Shigella* with appropriate antibiotic treatment and *Shigella* without appropriate antibiotic treatment or treated as a mediator and addressed using a formal mediation analysis (**Table 3.3**). The relative risks comparing subsequent diarrhea episodes and hospitalizations among children stratified by the likely etiology of diarrhea at enrollment will be determined using a modified-Poisson model with robust standard errors using a dichotomized outcome (did the outcome occur during follow-up or not) and Wald chi-square tests of the two-way comparison. The proportion of children with persistent diarrhea will be compared overall and by the likely etiology of diarrhea at enrollment, using log-binomial regression (or modified-Poisson regression with robust standard errors if any model does not converge). All multivariate models will adjust for site, age, maternal education, wealth quintile, and breastfeeding. For all outcomes of interest, we will test for effect modification between attribution of any bacterial targets and appropriate antibiotic use, and if no evidence is observed ($p \geq 0.05$) that target will be combined into a single category regardless of antibiotic treatment. In this primary analysis, hospitalizations occurring at any point between enrollment and follow-up will be included.

Hospitalizations that occur during the index diarrhea episode will be disaggregated from those occurring after the index diarrhea episode has resolved to separately estimate enteric pathogen associations with short- and longer-term severe illnesses (**Table 3.4**). A supplementary analysis will additionally include stratification of risk of subsequent diarrhea by whether or not the subsequent diarrhea episodes were medically-attended. Finally, a supplementary analysis will compare the risk of hospitalization, risk of subsequent diarrhea, and prevalence of persistent diarrhea among children with *Shigella*, by culture-positive *Shigella* vs. culture-negative/TAC-attributable *Shigella*. Multivariate supplementary tables described here will be adjusted for site, age, maternal education, wealth quintile, and breastfeeding.

The distribution of LAZ/HAZ at enrollment, week four, and month three will be presented as boxplots stratified by likely etiology at enrollment of the top five most prevalent attributable enteric pathogens by qPCR (**Figure 3.2** [not shown]). Supplemental tables will display these values stratified by site.

The mean and standard deviation of LAZ/HAZ from enrollment to week four follow-up and enrollment to month three follow-up will be presented among surviving children by likely etiology at enrollment of the top five most prevalent attributable enteric pathogens by qPCR, including *Shigella* stratified by receiving appropriate antibiotics and untreated. Other bacterial pathogens will be similarly stratified by antibiotic use if there is evidence of effect modification ($p < 0.05$) (**Table 3.5**). Two sets of linear regression models, one modelling enrollment to week four and another from enrollment to month three, will be used to model the association between likely MAD etiology and linear growth (Δ LAZ/HAZ) in the months following the diarrhea episode among surviving children. Models will include adjustment for site, age, sex, maternal education, wealth quintile, breastfeeding, days from enrollment to relevant follow-up visit and baseline LAZ/HAZ. Lowess curves will be generated to show mean Δ LAZ/HAZ between the timepoints (enrollment, week four, and month three) by likely MAD etiology at enrollment (**Figure 3.3** [not shown]). We will report prevalence of stunting (LAZ/HAZ < -2) at enrollment, week four follow up, and month three follow up by likely etiology of MAD at enrollment, including *Shigella* stratified by receiving appropriate antibiotics and untreated. Other bacterial pathogens will be similarly stratified by antibiotic use if there is evidence of effect modification ($p < 0.05$). Prevalence ratios (PR) adjusted for site, age, sex, maternal education, wealth quintile, breastfeeding, and baseline LAZ/HAZ will be generated to describe the association between diarrhea etiology and stunting (**Table 3.6**). An alluvial plot will be generated to show the proportion of stunted and non-stunted at enrollment, week four follow up, and month three follow up and transition of stunting status between study visits (**Figure 3.4** [not shown]). Supplementary tables will report both LAZ/HAZ and stunting analyses stratified by site, by *Shigella* species (*S. flexneri*, *S. sonnei*, *S. boydii*, *dysenteriae*), and by diagnostic method (culture positive vs. culture negative/TAC-attributable). For all analyses utilizing LAZ/HAZ data, individual LAZ/HAZ greater than 6.0 or less than -6.0 will be excluded as implausible values¹³. Also excluded will be any height decrease of greater than 1.5cm or height increase of greater than 6cm between enrollment and month three follow-up¹⁴.

4. **Secondary Aim #4:** Compare various severity definitions in their ability to predict risk of death or hospitalization, or linear growth faltering among cases of medically attended diarrhea and *Shigella*-attributable medically attended diarrhea, respectively.

Based on signs and symptoms collected from EFGH cases, we will construct diarrhea severity definitions as described above in Secondary Aim 1. Scores will be categorized as originally constructed (i.e. mild, moderate, and severe). We will describe the mean scores and frequencies/percentages of children falling in all severity definition categories both overall, and among children with *Shigella*-attributed diarrhea by site and overall (**Table 4.1**). In supplementary tables, we will report further stratification by age at enrollment and laboratory method (for *Shigella*-attributable MAD only).

As GEMS and MVS +/- dysentery are severity scores of particular interest for informing *Shigella* vaccine trial clinical endpoints, we will compare the components and symptoms that make up these scores with and without the combination of meeting the GEMS definition of MSD and moderate or severe diarrhea (9+ points) by the MVS +/- dysentery among children with *Shigella*-attributed diarrhea (**Table 4.2**). In supplementary tables, we will present this table further stratified by culture positivity.

To evaluate the scores' associations with poor outcomes, we will dichotomize scores into moderate or severe vs. mild diarrhea (for GEMS-*Shigella*, MVS, Clark and MVS +/- dysentery), severe vs. mild diarrhea (for MAL-ED) or MSD vs. less-severe-diarrhea (LSD) (for GEMS). We will calculate the diagnostic accuracy (sensitivity, specificity, positive predictive value [PPV], and negative predictive value [NPV]) of severe vs. non-severe diarrhea (by each severity score definition) in identifying children who die or were hospitalized during the initial episode (**Table 4.3**). Diagnostic accuracy will be reported overall and stratified by appropriate antibiotic treatment. As part of secondary analysis, we will look at all hospitalizations and deaths occurring throughout the three-month follow-up. We will report the performance of scores for all MAD as well as in the subset of children with *Shigella*-attributed diarrhea. Primary analyses will consider death or hospitalization as a combined outcome, and secondary analyses will report these outcomes separately. As hospitalization is included in many scores, additional secondary analyses will repeat diagnostic accuracy analyses with recalibrated scores which remove hospitalization as a component and adjust the score cut-offs for categories. We will additionally explore varying cut-offs used for score-based severity definitions by conducting Receiver Operating Characteristics (ROC) analyses to identify cut-points that maximally distinguish those children who had experienced a death or hospitalization from those that did not (**Figure 4.1**).

We will also evaluate scores' association with linear growth. We will perform a linear regression of each dichotomized score on the change in length-for-age or height-for-age z-score (Δ LAZ/HAZ), adjusting for baseline LAZ/HAZ, age, site, wealth quintile, maternal education, and breastfeeding (**Table 4.4**). We will report model results among all MAD as well as children with *Shigella*-attributed diarrhea, and results will be further stratified by antibiotic use or with antibiotic use treated as a mediator. We will compare the magnitude of association (beta values) between scores. Secondary analysis will explore a dichotomized endpoint.

Because other EFGH analysis (biomarker sub-study) will evaluate the combination of signs/symptoms and inflammatory biomarkers in their ability to distinguish *Shigella* from non-*Shigella*-attributed diarrhea, we will not address that question in this aim.

5. **Secondary Aim #5:** *Quantify the cost incurred by families and health care systems due to Shigella morbidity and mortality.*

For each child enrolled in the study, we will collect data on medical and non-medical resources used to treat the episode of diarrhea, using child medical records and standardized questionnaires administered to caregivers. *Direct medical costs* include medical resources used in the treatment of diarrhea. We will estimate the costs of drugs and diagnostics used in diarrhea management, by applying a standardized country-specific unit cost from National Price Lists to each treatment administered or prescribed in medical records. In situations where data is missing from National Price Lists, we will estimate unit costs using a mean value from local pharmacies and health facilities. We will also estimate service delivery costs: operational costs for medical visits, such as health workers' salaries or maintenance of facility equipment. To estimate these costs, we will apply standardized country-specific unit costs from WHO-CHOICE¹⁴ to each visit based on the level of care (inpatient vs. outpatient) and number of days admitted (inpatient only). Standardized questionnaires include questions regarding whether medical resources were paid for by the caregiver or funded by the public health system. *Direct non-medical costs* include non-medical fees incurred by caregivers, such as costs to travel to the health facility. We will estimate non-medical fees through caregiver direct reports from standardized questionnaires. *Indirect (non-medical) costs* include caregiver time lost from work while caring for their sick child. To estimate indirect costs, we will apply a national average wage rate from the International Labor Organization (<https://www.ilo.org>) to caregiver-reported time lost from work from standardized questionnaires.

We will estimate the average cost per episode of Shigella-attributable MAD, referred to henceforth as the “cost per episode”, by averaging costs across *Shigella*-positive cases, including cases of culture-confirmed *Shigella* and/or *Shigella* confirmed by molecular methods (TAC). We will present the mean and standard deviation (SD) of costs per episode, from the household perspective (including out-of-pocket medical and non-medical fees incurred by caregivers), the health system perspective (medical resources funded by the public health system), and the societal perspective (both household and health system costs). We will stratify societal costs by client and visit characteristics, as described in **Table 5.1**. Costs will be presented in 2024 US dollars (USD) to allow for comparability across sites. We will inflate costs incurred in earlier years to 2024 values using GDP price deflators from the World Bank and convert local currencies to equivalent USD values using midyear currency values. Additional sub-analyses will be conducted to determine costs per episode of MAD associated with *Shigella* serotypes, other diarrheal pathogens, and other stratifications as relevant.

To identify the effects of visit characteristics on costs per episode of *Shigella* MAD, we will use multivariate Generalized Linear Models (GLMs). GLMs require explicit specification of the distribution of the dependent variable and the link function describing how independent variables are functionally related to the dependent variable. We will use the modified Park test¹⁵, common to health econometrics, to identify the GLM distribution and link function. Our final model will be determined from the modified Park test results but will be initially tested using a gamma distribution with log link:

$$\ln(Y_i) = \beta_0 + \beta_1 \text{Country}_i + \beta_2 \text{Severity}_i + \beta_3 X_i$$

where the cost per episode (Y) for a given child, i , is a function of the country in which the child was treated (Country), the severity of diarrhea (Severity), and other client or visit characteristics (X). Other client or visit characteristics will be selected based on descriptive results from Table 5.1, with model variables being selected when variability across categories is evident. Models will be run separately per costing perspective. Coefficients, confidence intervals, and p-values will be presented for all independent variables (**Table 5.2**).

We will estimate the annual economic burden of Shigella MAD in each EFGH country site (c). The

estimated adjusted incidence of *Shigella* MAD (from the primary aim) and the estimated population sizes of children 6-35 months (converted to person-years) will be used to estimate the number of annual *Shigella* MAD episodes per country site. We will then apply the average cost per episode of *Shigella* MAD to the number of estimated episodes per year. The annual economic burden will be calculated separately per costing perspective (**Table 5.3**). We will produce estimates per site, standardized to 100,000 population size to allow for comparability across catchment areas.

$$\text{Annual } Shigella \text{ MAD costs}_c = \frac{\text{Shigella MAD episodes}_c}{100 \text{ person years}} \times \text{person years}_c \times \text{cost per episode}_c$$

6. **Secondary Aim #6:** *To identify optimal laboratory methods for Shigella culture by:*
- a. *comparing the isolation rate of Shigella between two transport media for rectal swabs (Cary-Blair and mBGS)*

We will calculate the proportion of rectal swab samples from Cary-Blair and mBGS media from which *Shigella* was isolated overall and per site as well as stratified by serotype (**Table 6.1**). A two-sided 95% confidence interval around each proportion will be calculated assuming a Binomial distribution. Proportions will be compared using a McNemar's test of superiority to determine if one media is superior to the other in terms of *Shigella* isolation rates.

- b. *comparing the isolation rate of Shigella between two fecal sample types (rectal swabs and whole stool) among the subset of children who produced whole stool in the Gambia and Bangladesh country sites.*

We will calculate the proportion of rectal swab samples from which *Shigella* was isolated and the proportion of whole stool samples from which *Shigella* was isolated, matched by media type (Cary-Blair or mBGS), overall and per site and stratified by *Shigella* species (**Table 6.2**). A two-sided 95% confidence interval for the absolute difference in proportions will be calculated using McNemar's test. When assessing non-inferiority, the lower bound of the 95% confidence interval will be compared to the non-inferiority margin of an absolute difference of 0.01.

Statistical Software

All analyses will be conducted using STATA or R and the software used reported in all analysis write-ups.

References

References to be Provided for Non-standard Statistical Methods

All methods being proposed are standard.

Data Management Plan

Procedures relating to data entry, management, and quality assurance and control are outlined in the EFGH Data Management Plan.

Statistical Master File

The Statistical Master File is maintained by the EFGH Central Data Management Team.

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**Enterics for Global Health (EFGH)
Statistical Analysis Plan – Tables and Figures
Version 2.0**



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Primary Aim

Figure 1: Diarrhea case surveillance participant screening, enrollment and follow-up.

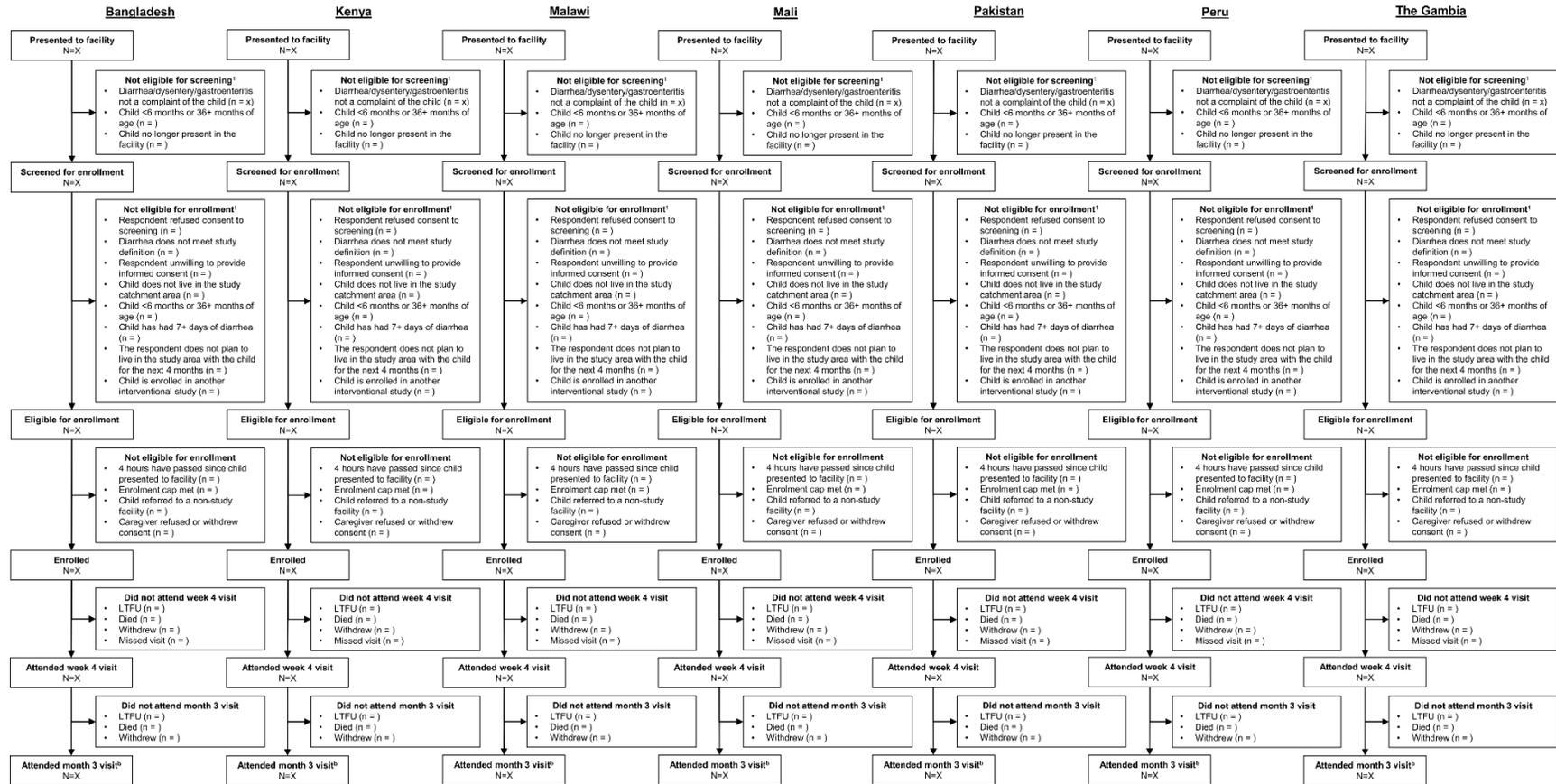


Figure 1. EFGH CONSORT diagram. ^a Reasons participants were not screened or did not meet eligibility do not sum to total as participants could have been screened out for multiple reasons. ^b Among enrolled participants who attended the Week Four visit or missed the Week Four visit but not due to death, withdrawal or lost to follow-up (LTFU).

Table 1: Baseline participant characteristics

Table 1. Demographic and clinical characteristics of participants enrolled to Diarrheal Case Surveillance, by study site.								
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia	Total
Demographics								
Total enrolled: N								
Female sex: n (%)								
Age (months): n (%)								
6 – 8								
9 – 11								
12 – 17								
18 – 23								
24 – 35								
Age in months: median (IQR)								
Highest maternal education achieved: n (%)								
Less than primary school								
Koranic school only								
Primary school or greater								
Unknown or declined								
Accompanying caregiver employment: n (%)								
Not employed								
Employed								
Unknown								
Children <5 years in household: median (IQR)								
Any breastfeeding: n (%)								
Wealth index: median (IQR)								
Water, Sanitation and Hygiene (WASH) characteristics								
Drinking water source^a: n (%)								
Improved source								
Unimproved source								
Surface water								
Unknown or other source								
Sanitation access^b: n (%)								
Improved source								
Unimproved source								
Open defecation								
Unknown or other source								
Drinking water treatment: n (%)^c								
Boil								
Bleach/chlorination								
Solar disinfection								
Let stand and settle								
Strain through a cloth								
Filter (ceramics/sand/composite/LifeStraw)								
Other method								
Clinical characteristics								
Symptoms at enrollment^d: n (%)								
Dysentery ^d								
Oedema								
Signs of LRTI ^e								
Stiff neck								
Generalized rash								
Convulsions								
Lethargy or unconscious								
Palmar pallor								
Dehydration^f: n (%)								
None								
Some								
Severe								
Immunization status: n (%)^g								
Received age-appropriate vaccinations, per country guidelines								
Received rotavirus vaccine								
Care seeking prior to enrollment visit: n (%)^h								
Community health worker								
Drug seller								
Health outpost								
Inpatient health facility								
Outpatient health facility								
Pharmacist								
Religious or traditional healer								
Other								
Hospitalized: n (%)ⁱ								
Duration of diarrhea prior to care seeking (days): median (IQR)								
Modified Vesikari score (MVS)^b: median (IQR), n (%)								
Mild (0-8 points)								
Moderate (9-10 points)								
Severe (11+ points)								
Moderate or severe diarrhea by MVS or dysentery^j: n (%)								
GEMS^k: median (IQR), n (%)								
Moderate to severe diarrhea (MSD)								
Less severe diarrhea (LSD)								
GEMS-Shigella score^l: median (IQR), n (%)								
Mild (<6 points)								
Moderate (6-8 points)								
Severe (9+ points)								
Clark score^m: median (IQR), n (%)								
Mild (2-8 points)								
Moderate to severe (9+ points)								
MAL-ED score^m: median (IQR), n (%)								

Table 1. Demographic and clinical characteristics of participants enrolled to Diarrheal Case Surveillance, by study site.

	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia	Total
Non-severe (<6 points)								
Severe (6+ points)								
Anthropometry								
LAZ/HAZ: median (IQR)								
MUAC: median (IQR)								
WAZ: median (IQR)								
WLZ: median (IQR)								
Stunted^a: n (%)								
Severe								
Moderate								
None								
Wasted^c: n (%)								
Severe								
Moderate								
None								
Underweight^f: n (%)								
Severe								
Moderate								
None								

HAZ: height for age Z-score, IQR: interquartile range, JMP: WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene, LAZ: length for age Z-score, LRTI: lower respiratory tract infection, LSD: less-severe-diarrhea, MSD: moderate-to-severe diarrhea, MUAC: mid-upper arm circumference, MVS: modified Vesikari score, WAZ: weight for age Z-score, WHO: world health organization, WLZ: weight for length Z-score.

^a Drinking water source was classified according to the WHO/UNICEF Joint Monitoring Programme for Water Supply, Sanitation and Hygiene (JMP) as surface water (water from a river, dam, lake, pond, stream, canal or irrigation channel), unimproved (unprotected wells or springs), or improved (water piped into the dwelling, yard or plot, public taps or standpipes, tube wells or boreholes, protected dug wells or springs, rainwater collection, water from a tanker-truck, water from a cart with a small tank or drum, filtered or unfiltered water kiosks, bottled water, or sachet water).

^b Sanitation access was classified according to the JMP as open defecation (no facility, bush or field), unimproved (flush toilets to elsewhere, pit latrines without slab floor, bucket toilets or hanging toilets/latrines), or improved (flush toilets to piped sewer systems, septic tanks or unknown location, ventilated improved pit latrines, pit latrines with slab floors, or composting toilets).

^c Columns do not sum to 100% as multiple options could be selected.

^d Blood in the stool as reported by caregiver during the diarrheal episode or by clinical diagnosis

^e One or more of the following signs indicative of lower respiratory infection: cough, difficulty breathing, chest in-drawing, chest auscultation, central cyanosis, oxygen saturation <90%, or severe respiratory distress.

^f Based on WHO criteria. Severe dehydration = At least two of the following signs: lethargy, abnormally sunken eyes, drinks poorly, skin pinch >2 seconds. Some dehydration = At least two of the following signs: restless/irritable, abnormally sunken eyes, drinks eagerly, skin pinch 1-2 seconds. ⁴

^g Defined as an overnight stay (child was on the ward from at least 12am to 6am or self-discharged prior to that timeframe).

^h Defined as in PATH Vesikari Clinical Severity Scoring System Manual: Duration of diarrhea: 1-4 days (1 point), 5 days (2 points) ≥6 days (3 points); Max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), ≥6 (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), ≥5 (3 points); Axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), ≥38.5°C (3 points); dehydration 1-5% (2 points), ≥6% (3 points); treatment: rehydration (1 point), hospitalization (2 points).

ⁱ Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool. N=x could not be assessed due to missing data for diarrhea duration.

^j Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.⁶

^k Defined as in Pavlinac, CID, 2021. Duration of diarrhea through day of presentation: 1-3 days (0 points), 4-5 days (2 points), ≥6 days (3 points); WHO-defined dehydration categories: severe (8 points), some (4 points), none (0 points); inpatient admission (5 points).⁷

^l Defined as in Clark, JID, 1988. Duration of diarrhea: 1-4 days (1 point), 5-7 days (2 points) >7 days (3 points); Max # of stool in 24 hour period: 2-4 (1 point), 5-7 (2 points), >7 (3 points); Duration of vomiting: 2 days (1 point), 3-5 days (2 points), >5 days (3 points); max # of vomiting episodes in 24 hour period: 1-3 (1 point), 4-6 (2 points), >6 (3 points); Duration of reported fever: 1-2 days (1 point), 3-4 days (2 points), ≥5 days (3 points); Rectal temperature 38-38.2°C (1 point), 38.3-38.7°C (2 points), ≥38.8°C (3 points); behavioral signs: Irritable/less playful (1 point), Lethargic/listless (2 points), Seizures (3 points). N=x could not be assessed due to missing data for diarrhea duration.

^m Defined as in Lee, BMJ Open, 2014: Duration of diarrhea: 2-4 days (1 point), 5-7 days (2 points), ≥8 days (3 points); Max # of stool in 24 hour period: <5 loose stools/24 hours (1 point), 5-7 loose stools/24 hours (2 points), ≥8 stools/24 hours (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); duration of reported fever: 1+ days (1 point); Confirmed temperature: ≥37.5°C (confirmed by field worker) (2 points); Dehydration: Some (2 points), severe (3 points). N=x could not be assessed due to missing data for diarrhea duration.

ⁿ Severe stunting: HAZ/LAZ < -3, Moderate stunting: -3 ≤ HAZ/LAZ < -2.

^o Severe wasting: WLZ < -3 or MUAC < 11.5, Moderate wasting: -3 ≤ WLZ < -2 or 11.5 ≤ MUAC < 12.5.

^p Severely underweight: WAZ < -3, Moderately underweight: -3 ≤ WAZ < -2.

Table 2: Baseline characteristics of population enumeration

Table 2. Demographic and Clinical Characteristics of the Population Enumeration and Healthcare Utilization Survey, by study site.								
Indicator	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia	Overall
Population Enumeration								
Total clusters demarcated: n								
Study area: m ²								
Clusters enumerated: n (%)								
Cluster enumerated								
No households present in the cluster								
Could not enumerated cluster due to safety or other reasons								
Not enumerated								
Total individuals enumerated: n								
Children 6-35 months of age enumerated: n								
Caregiver reported children 6-35 months of age had diarrhea in the past two weeks: n (%)								
Yes								
No								
Don't know								
Caregiver of child 6-35 months of age with diarrhea consented to HUS: n (%)								
Yes, consented								
No, refused								
No, caregiver not available for consent no successful revisit								
Care-seeking for diarrhea: n (%) ^a								
Did not seek care								
Sought care at an EFGH facility								
Sought care at a different outpatient hospital or health center								
Sought care at an inpatient hospital or health center								
Sought care at a health outpost								
Sought care at a drug seller or pharmacist								
Sought care at a traditional or religious healer								
Other								
Days between diarrhea onset and care seeking: median (IQR)								
Demographic indicators of children in the HUS								
Female sex: n (%)								
Age (months): n (%)								
6 – 8								
9 – 11								
12 – 17								
18 – 23								
24 – 35								
Age in months: median (IQR)								
Clinical characteristics								
Symptoms during diarrheal illness: n (%) ^a								
Blood in stool								
Irritable								
Very thirsty								
Sunken eyes								
Wrinkled skin								
Drinks eagerly, thirsty								
Unable to drink or drank poorly								
Lethargic, unconscious, or hard to stay awake								

HUS: healthcare utilization survey, IQR: interquartile range.

^a Column does not sum to total as surveyed participants may have sought care from multiple sources or reported multiple clinical symptoms.

Table 3: *Shigella* Incidence by country and method of ascertainment

Table 3. Adjusted incidence of <i>Shigella</i> by EFGH country and method of ascertainment.						
EFGH Country	Confirmed <i>Shigella</i> cases: n			<i>Shigella</i> MAD incidence		
	Watery diarrhea	Dysentery	Total	Crude IR (CI)	Enrollment-adjusted IR ^a (CI)	Adjusted IR ^b (CI)
Culture-confirmed <i>Shigella</i>^c						
Bangladesh						
Kenya						
Malawi						
Mali						
Pakistan						
Peru						
The Gambia						
Total^d						
<i>Shigella</i> attributable by molecular diagnostics^c						
Bangladesh						
Kenya						
Malawi						
Mali						
Pakistan						
Peru						
The Gambia						
Total^d						

CI: 95% confidence interval, CT: cycle threshold, IR: incidence rate, MAD: medically-attended diarrhea, mBGS: Modified buffered glycerol saline.

^a The number of confirmed *Shigella* watery diarrhea cases per 100 child-years adjusted for enrollment plus the number of confirmed *Shigella* dysentery cases per 100 child-years at risk adjusted for enrollment.

^b The number of confirmed *Shigella* watery diarrhea cases per 100 child-years, adjusted for care-seeking and enrollment plus the number of confirmed *Shigella* dysentery cases per 100 child-years at risk, adjusted for care-seeking and enrollment.

^c Includes isolates from rectal swabs transported in mBGS or Cary-Blair media.

^d Totals are the sum of country-level estimates weighted to the proportion of child-years contributing to the combined denominator.

^e Defined as an ipaH cycle threshold (CT) < 31.1.

Secondary Aim 1

Table 1.1: *Shigella* incidence by species and serotype

Table 1.1. Adjusted *Shigella* incidence stratified by *Shigella* species and serotype.

Serotype	Enrollment- and Healthcare Seeking-Adjusted <i>Shigella</i> MAD Incidence Rate (CI)															
	Bangladesh		Kenya		Malawi		Mali		Pakistan		Peru		The Gambia		Total	
	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b	Culture ^a	TAC ^b
<i>S. flexneri</i>																
1a																
1b																
1d																
2a																
2b																
3a																
3b																
4a																
4b																
5a																
5b																
6																
7a	-		-		-		-		-		-		-		-	
X																
Y																
Non-typable																
<i>S. sonnei</i>																
Bivalent vaccine targets ^c																
Quadrivalent vaccine targets ^d																
Alternate quadrivalent vaccine targets ^e																
Other																
<i>S. boydii</i>		-		-		-		-		-		-		-		-
<i>S. dysenteriae</i>		-		-		-		-		-		-		-		-
1		-		-		-		-		-		-		-		-
Other		-		-		-		-		-		-		-		-
Undetermined ^f																

CI: 95% confidence interval, CT: cycle threshold, MAD: medically-attended diarrhea, TAC: TaqMan array card.

^a *S. flexneri* 7a is not assessed by culture.

^b Defined as an ipaH cycle threshold (CT) < 31.1. *S. boydii* and *S. dysenteriae* are not assessed by TAC.

^c *S. flexneri* 2a or *S. sonnei*.

^d *S. flexneri* 2a, 3a, or 6 or *S. sonnei*.

^e *S. flexneri* 1b, 2a or 3a or *S. sonnei*.

^f Undetermined by culture means any serotypes/subserotypes not listed in the table. Undetermined by TAC means *Shigella* detected by PCR but molecular criteria to assign species/serotype to *S. sonnei* or *S. flexneri* was not met.

Table 1.2: *Shigella* incidence by age and diarrhea severity

Table 1.2. Adjusted <i>Shigella</i> incidence stratified by participant age and diarrhea severity definition.																		
Strata	Bangladesh		Kenya		Enrollment- and Healthcare Seeking-Adjusted <i>Shigella</i> MAD Incidence Rate (CI)		Malawi		Mali		Pakistan		Peru		The Gambia		Total	
	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a
Age at enrollment (months)																		
6 – 8																		
9 – 11																		
12 – 17																		
18 – 23																		
24 – 35																		
Diarrhea severity classifications																		
Dysentery																		
Watery diarrhea																		
Hospitalized																		
Modified Vesikari score (MVS)^b																		
Mild illness (0-8 points)																		
Moderate illness (9-10 points)																		
Severe illness (11+ points)																		
Moderate or severe diarrhea by MVS or dysentery^c																		
GEMS^d																		
Moderate-to-severe diarrhea (MSD)																		
Less-severe-diarrhea (LSD)																		
GEMS-<i>Shigella</i> score^e																		
Mild (<6 points)																		
Moderate (6-8 points)																		
Severe (9+ points)																		
Clark score^f																		
Mild (2-8 points)																		
Moderate to severe (9+ points)																		
MAL-ED score^g																		
Non-severe (<6 points)																		
Severe (6+ points)																		

CI: 95% confidence interval, CT: cycle threshold, LSD: less-severe-diarrhea, MAD: medically-attended diarrhea, MSD: moderate-to-severe diarrhea, MVS: modified Vesikari score, TAC: TaqMan array card, WHO: World Health Organization.

^a Defined as an ipaH cycle threshold (CT) < 31.1. *S. boydii* and *S. dysenteriae* are not assessed by TAC.

^b Defined as in PATH Vesikari Clinical Severity Scoring System Manual: Duration of diarrhea: 1-4 days (1 point), 5 days (2 points) ≥6 days (3 points); Max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), ≥6 (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), ≥5 (3 points); Axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), ≥38.5°C (3 points); dehydration 1-5% (2 points), ≥6% (3 points); treatment: rehydration (1 point), hospitalization (2 points).

^c Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

^d Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.

^e Defined as in Pavlinac, CID, 2021. Duration of diarrhea through day of presentation: 1-3 days (0 points), 4-5 days (2 points), ≥6 days (3 points); WHO-defined dehydration categories: severe (8 points), some (4 points), none (0 points); inpatient admission (5 points).

^f Defined as in Clark, JID, 1988. Duration of diarrhea: 1-4 days (1 point), 5-7 days (2 points) >7 days (3 points); Max # of stool in 24 hour period: 2-4 (1 point), 5-7 (2 points), >7 (3 points); Duration of vomiting: 2 days (1 point), 3-5 days (2 points), >5 days (3 points); max # of vomiting episodes in 24 hour period: 1-3 (1 point), 4-6 (2 points), >6 (3 points); Duration of reported fever: 1-2 days (1 point), 3-4 days (2 points), ≥5 days (3 points); Rectal temperature 38-38.2°C (1 point), 38.3-38.7°C (2 points), ≥38.8°C (3 points); behavioral signs: Irritable/less playful (1 point), Lethargic/listless (2 points), Seizures (3 points).

^g Defined as in Lee, J Pediatr Gastroenterol Nutr., 2016: Duration of diarrhea: 2-4 days (1 point), 5-7 days (2 points), ≥8 days (3 points); Max # of stool in 24 hour period: <5 loose stools/24 hours (1 point), 5-7 loose stools/24 hours (2 points), ≥8 stools/24 hours (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); duration of reported fever: 1+ days (1 point); Confirmed temperature: ≥37.5°C (confirmed by field worker) (2 points); Dehydration: Some (2 points), severe (3 points).

Table 1.3: *Shigella* incidence by severity

Table 1.3. Adjusted incidence of relevant vaccine *Shigella* serotypes and species by diarrhea severity.

Strata	Enrollment- and Healthcare Seeking-Adjusted <i>Shigella</i> MAD Incidence Rate (CI)															
	Bangladesh		Kenya		Malawi		Mali		Pakistan		Peru		The Gambia		Total	
	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a	Culture	TAC ^a
Bivalent vaccine targets (<i>S. flexneri</i> 2a & <i>S. sonnei</i>)																
GEMS moderate-to-severe diarrhea (MSD) ^b																
MVS moderate or severe diarrhea or dysentery ^c																
Quadrivalent vaccine targets (<i>S. flexneri</i> 2a, 3a & 6 & <i>S. sonnei</i>)																
GEMS MSD ^b																
MVS moderate or severe diarrhea or dysentery ^c																
Quadrivalent vaccine targets (<i>S. flexneri</i> 1b, 2a & 3a & <i>S. sonnei</i>)																
GEMS MSD ^b																
MVS moderate or severe diarrhea or dysentery ^c																

CI: 95% confidence interval, CT: cycle threshold, GEMS: Global Enteric Multicenter Study, MAD: medically-attended diarrhea, MSD: moderate-to-severe-diarrhea, MVS: modified Vesikari score, TAC: TaqMan array card, WHO: World Health Organization.

^a Defined as an ipaH cycle threshold (CT) < 31.1.

^b Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, and/or inpatient admission.

^c Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

Table 1.4: Prevalence of enteric pathogens detected by molecular diagnostics.

Enteric pathogen ^a	Positive below the attributable cycle threshold (CT) cutoff: n/N (%)							Total
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia	
All medically-attended diarrhea (MAD)								
<i>Shigella</i> (cycle threshold [CT]<31.1)								
Adenovirus 40/41 (CT<25.5)								
<i>Cryptosporidium</i> (CT<27.1)								
Norovirus GII (CT<26.6)								
Rotavirus (CT<34.2)								
ST-EPEC (CT<27.9)								
tEPEC (CT<20.7)								
<i>Campylobacter jejuni</i> (CT<20.7)								
Astrovirus (CT<26.7)								
Sapovirus (CT<24.4)								
<i>V. cholerae</i> (CT<33.9)								
<i>Salmonella</i> (CT<33.3)								
<i>Aeromonas</i> (CT<23.6)								
<i>Cyclospora cayetanensis</i> (CT<33.9)								
<i>Entamoeba histolytica</i> (CT<32.6)								
<i>Cystoisospora belli</i> (CT<34.4)								
Moderate or severe MAD by the Modified Vesikari Score (9+) +/- dysentery^b								
<i>Shigella</i> (CT<31.1)								
Adenovirus 40/41 (CT<25.5)								
<i>Cryptosporidium</i> (CT<27.1)								
Norovirus GII (CT<26.6)								
Rotavirus (CT<34.2)								
ST-EPEC (CT<27.9)								
tEPEC (CT<20.7)								
<i>Campylobacter jejuni</i> (CT<20.7)								
Astrovirus (CT<26.7)								
Sapovirus (CT<24.4)								
<i>V. cholerae</i> (CT<33.9)								
<i>Salmonella</i> (CT<33.3)								
<i>Aeromonas</i> (CT<23.6)								
<i>Cyclospora cayetanensis</i> (CT<33.9)								
<i>Entamoeba histolytica</i> (CT<32.6)								
<i>Cystoisospora belli</i> (CT<34.4)								
<i>Shigella</i>-attributable MAD (CT<31.1)								
Adenovirus 40/41 (CT<25.5)								
<i>Cryptosporidium</i> (CT<27.1)								
Norovirus GII (CT<26.6)								
Rotavirus (CT<34.2)								
ST-EPEC (CT<27.9)								
tEPEC (CT<20.7)								
<i>Campylobacter jejuni</i> (CT<20.7)								
Astrovirus (CT<26.7)								
Sapovirus (CT<24.4)								
<i>V. cholerae</i> (CT<33.9)								
<i>Salmonella</i> (CT<33.3)								
<i>Aeromonas</i> (CT<23.6)								
<i>Cyclospora cayetanensis</i> (CT<33.9)								
<i>Entamoeba histolytica</i> (CT<32.6)								
<i>Cystoisospora belli</i> (CT<34.4)								
Non-<i>Shigella</i>-attributable MAD (CT≥31.1 or no amplification)								
Adenovirus 40/41 (CT<25.5)								
<i>Cryptosporidium</i> (CT<27.1)								
Norovirus GII (CT<26.6)								
Rotavirus (CT<34.2)								
ST-EPEC (CT<27.9)								
tEPEC (CT<20.7)								
<i>Campylobacter jejuni</i> (CT<20.7)								
Astrovirus (CT<26.7)								
Sapovirus (CT<24.4)								
<i>V. cholerae</i> (CT<33.9)								
<i>Salmonella</i> (CT<33.3)								
<i>Aeromonas</i> (CT<23.6)								
<i>Cyclospora cayetanensis</i> (CT<33.9)								
<i>Entamoeba histolytica</i> (CT<32.6)								
<i>Cystoisospora belli</i> (CT<34.4)								

CT: cycle threshold, tEPEC: typical enteropathogenic E. coli, MAD: medically-attended diarrhea, ST-EPEC: heat stable toxin-producing E. coli.

^a The top three most prevalent pathogens by site are highlighted in green.

^b Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

Secondary Aim 2

Table 2.1: Country and region antibiotic-non-susceptibility

Table 2.1. Country- and region-specific antibiotic non-susceptibility to culture-confirmed *Shigella* isolates

Antibiotic	Antibiotic non-susceptibility: % (CI)										
	Kenya	Malawi	East Africa total	Mali	The Gambia	West Africa total	Bangladesh	Pakistan	South Asia total	Peru	Total
Ampicillin											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Azithromycin											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Ceftriaxone											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Ciprofloxacin											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Nalidixic acid											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Pivmecillinam											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Trimethoprim-sulfamethoxazole											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Resistance to all WHO recommended treatments^a											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Multidrug resistance (MDR)^b											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											
Extensive drug resistance (XDR)^c											
All <i>Shigella</i> isolates											
<i>S. flexneri</i>											
<i>S. sonnei</i>											

CI: 95% confidence interval, MDR: multidrug resistance, XDR: extensive drug resistance, WHO: World Health Organization.

^a WHO recommended treatments include Azithromycin, Ciprofloxacin, and Ceftriaxone.

^b Resistant to any three or more antibiotics.

^c Resistant to all of the following: azithromycin, ciprofloxacin, ceftriaxone, trimethoprim-sulfamethoxazole, and ampicillin.

Secondary Aim 3

Table 3.1: All-cause case fatality

Table 3.1. Extended all-cause case fatality^a among children enrolled in EFGH with and without *Shigella* attributed MAD.

	All-cause case fatality ^a : n/N (%)							The Gambia	Overall
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru			
Overall									
<i>Shigella</i> ^b									
No <i>Shigella</i> ^c									

MAD: Medically-attended diarrhea, TAC: Taqman array card.
^a Death occurring within 3 months of EFGH follow-up.
^b By culture isolation or TAC ipaH <31.1.
^c By absence of culture isolation or ipaH ≥31.1.

Table 3.2: Causes of death

Table 3.2. ICD-11^a causes of death^b for all known mortality events occurring within the EFGH three-month follow-up period

Site	Time since enrollment to death (days)	Age at death (months)	<i>Shigella</i> attribution at enrollment ^c	Causes of Death			
				Immediate (1a)	Distal (1b)	Most Distal (1c)	Underlying (2)

ICD-11: International Classification of Diseases 11th Revision.
^a International Classification of Diseases, Eleventh Revision (ICD-11), World Health Organization (WHO) 2019/2021 <https://icd.who.int/browse11>. Licensed under Creative Commons Attribution-NoDerivatives 3.0 IGO licence (CC BY-ND 3.0 IGO).
^b Causes of death are agreed upon by a panel of ICD-11 trained clinicians using information from the child’s death certificate (if available), caregiver interview (if available), and case notes from the child’s care team.
^c By culture isolation or TAC ipaH <31.1.

Table 3.3: Hospitalization, subsequent diarrhea episodes, and persistent diarrhea

Table 3.3. Risk of hospitalization, subsequent diarrhea, and diarrhea persistence in the three months following medically attended diarrhea attributed to *Shigella* and other leading attributable causes of the index MAD.

	n/N (%)	RR, PR (CI)	
		Unadjusted	Adjusted ^a
Persistent Diarrhea^b			
<i>Shigella</i>		PR	aPR
Pathogen 1 ^c		PR	aPR
Pathogen 2 ^c		PR	aPR
Pathogen 3 ^c		PR	aPR
Pathogen 4 ^c		PR	aPR
Any other attributable pathogen ^d		PR	aPR
Hospitalization^e			
<i>Shigella</i>		RR	aRR
Pathogen 1 ^c		RR	aRR
Pathogen 2 ^c		RR	aRR
Pathogen 3 ^c		RR	aRR
Pathogen 4 ^c		RR	aRR
Any other attributable pathogen ^d		RR	aRR
Subsequent Diarrhea Episodes^f			
<i>Shigella</i>		RR	aRR
Pathogen 1 ^c		RR	aRR
Pathogen 2 ^c		RR	aRR
Pathogen 3 ^c		RR	aRR
Pathogen 4 ^c		RR	aRR
Any other attributable pathogen ^d		RR	aRR

CI: 95% confidence interval, PR: prevalence ratio, RR: Relative risk, MAD: Medically-attended diarrhea.

^a Adjusted for enrollment site, age, maternal education, breastfeeding history, and wealth quintile.

^b Persistence is defined by having 14 or more days of diarrhea during the index diarrhea episode.

^c Pathogens selected based on top five prevalent attributable pathogens by qPCR in the study population.

^d Includes [list qPCR available attributable pathogens excluding those listed in pathogens 1-4].

^e Includes any hospitalizations in the month three follow-up period including during the child's index diarrhea episode prior to enrollment, at enrollment, within the child's index episode after enrollment, and after resolution of the index episode.

^f A subsequent diarrhea episode is defined as one or more days of three or more loose stools following two diarrhea-free days after the index diarrhea episode. Pathogen comparisons refer to the pathogen present at the child's index diarrhea episode and pathogen presence for the subsequent episode is unknown.

Table 3.4: Risk of hospitalization stratified by during index episode and after index episode

Table 3.4. Risk of hospitalization during and following the resolution of a MAD episode stratified by leading attributable causes of the index MAD.

	n/N (%)	RR (CI)	
		Unadjusted	Adjusted ^a
Hospitalizations during the index diarrhea episode			
<i>Shigella</i>		RR	aRR
Pathogen 1 ^b		RR	aRR
Pathogen 2 ^b		RR	aRR
Pathogen 3 ^b		RR	aRR
Pathogen 4 ^b		RR	aRR
Any other attributable pathogen ^c		RR	aRR
Hospitalizations following resolution of index diarrhea episode			
<i>Shigella</i>		RR	aRR
Pathogen 1 ^b		RR	aRR
Pathogen 2 ^b		RR	aRR
Pathogen 3 ^b		RR	aRR
Pathogen 4 ^b		RR	aRR
Any other attributable pathogen ^c		RR	aRR

CI: 95% confidence interval, ETEC: Enterotoxigenic *E. coli*, MAD: Medically-attended diarrhea, RR: Relative risk.

^a Adjusted for enrollment site, age, maternal education, breastfeeding history, and wealth quintile.

^b Pathogens selected based on top five prevalent attributable pathogens by qPCR in the study population.

^c Includes [list qPCR available attributable pathogens excluding those listed in pathogens 1-4].

Table 3.5: Mean change in LAZ/HAZ

Table 3.5 Mean change in LAZ/HAZ and difference in LAZ/HAZ from enrollment to week four and enrollment to month three among participants by presence of leading etiologies of the index MAD.

Species	n/N (%)	Mean Δ LAZ/HAZ from enrollment to:		Difference in mean Δ LAZ/HAZ from enrollment to:	
		Week four (SD)	Month three (SD)	Week four (CI) ^a	Month three (CI) ^a
<i>Shigella</i>					
Pathogen 1 ^b					
Pathogen 2 ^b					
Pathogen 3 ^b					
Pathogen 4 ^b					
Any other attributable pathogen ^c					
No attributable pathogen					

CI: 95% confidence interval, HAZ: Height-for-age z-score, LAZ: Length-for-age z-score, MAD: Medically-attended diarrhea, SD: standard deviation.

^a Adjusted for site, age, sex, maternal education, breastfeeding history, wealth quintile, baseline LAZ/HAZ, and days from enrollment to follow-up visit.

^b Pathogens selected based on top five prevalent attributable pathogens by qPCR in the study population.

^c Includes [list qPCR available pathogens excluding those listed in pathogens 1-4].

Table 3.6: Prevalence of stunting

Table 3.6. Prevalence of stunting at enrollment, week four follow-up, month three follow-up and association between diarrhea etiology and stunting among children by presence of leading etiologies of the index MAD.

	Enrollment	Week four	Month three
	n/N (%)	n/N (%)	n/N (%)
<i>Shigella</i>		aPR^a (CI)	aPR^a (CI)
Pathogen 1 ^b			
Pathogen 2 ^b			
Pathogen 3 ^b			
Pathogen 4 ^b			
Any other attributable pathogen ^c			
No attributable pathogen			

CI: 95% confidence interval, MAD: medically-attended diarrhea.

^a Adjusted for site, age, sex, maternal education, breastfeeding history, and wealth quintile. and enrollment LAZ/HAZ (baseline).

^b Pathogens selected based on top five prevalent attributable pathogens by qPCR in the study population.

^c Includes [list aPCR available pathogens excluding those listed in pathogens 1-4].

Secondary Aim 4

Table 4.1: Moderate to Severe MAD by site

Table 4.1. Proportion of children with medically-attended diarrhea (MAD) and <i>Shigella</i> -attributed MAD by severity score categories by site.							
Severity score	Proportion of MAD cases meeting severity definitions: n/N (%)						
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia
All MAD							
Modified Vesikari score (MVS)^a: median (IQR), n (%)							
Mild illness (0-8 points)							
Moderate illness (9-10 points)							
Severe illness (11+ points)							
Moderate or severe diarrhea by MVS or dysentery^b: n (%)							
GEMS^c: n (%)							
Moderate-to-severe-diarrhea (MSD)							
Less-severe-diarrhea (LSD)							
GEMS-<i>Shigella</i> score^d: n (%)							
Mild (<6 points)							
Moderate (6-8 points)							
Severe (9+ points)							
Clark score^e: n (%)							
Mild (2-8 points)							
Moderate or severe (9+ points)							
MAL-ED score^f: n (%)							
Non-severe (<6 points)							
Severe (6+ points)							
<i>Shigella</i>-attributed MAD							
MVS^a: n (%)							
Mild illness (0-8 points)							
Moderate illness (9-10 points)							
Severe illness (11+ points)							
Moderate or severe diarrhea by MVS or dysentery^b: n (%)							
GEMS^c: n (%)							
MSD							
LSD							
GEMS-<i>Shigella</i> score^d: n (%)							
Mild (<6 points)							
Moderate (6-8 points)							
Severe (9+ points)							
Clark score^e: n (%)							
Mild (2-8 points)							
Moderate or severe (9+ points)							
MAL-ED score^f: n (%)							
Non-severe (<6 points)							
Severe (6+ points)							

GEMS: Global Enteric Multicenter Study, LSD: less-severe-diarrhea, MAL-ED: Malnutrition and Enteric Disease Study, MSD: moderate-to-severe diarrhea, MVS: modified Vesikari score, WHO: World Health Organization.

^a Defined as in PATH Vesikari Clinical Severity Scoring System Manual: Duration of diarrhea: 1-4 days (1 point), 5 days (2 points) ≥6 days (3 points); Max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), ≥6 (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), ≥5 (3 points); Axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), ≥38.5°C (3 points); dehydration 1-5% (2 points), ≥6% (3 points); treatment: rehydration (1 point), hospitalization (2 points).

^b Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

^c Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.

^d Defined as in Pavlinac, CID, 2021. Duration of diarrhea through day of presentation: 1-3 days (0 points), 4-5 days (2 points), ≥6 days (3 points); WHO-defined dehydration categories: severe (8 points), some (4 points), none (0 points); inpatient admission (5 points).

^e Defined as in Clark, JID, 1988. Duration of diarrhea: 1-4 days (1 point), 5-7 days (2 points) >7 days (3 points); Max # of stool in 24 hour period: 2-4 (1 point), 5-7 (2 points), >7 (3 points); Duration of vomiting: 2 days (1 point), 3-5 days (2 points), >5 days (3 points); max # of vomiting episodes in 24 hour period: 1-3 (1 point), 4-6 (2 points), >6 (3 points); Duration of reported fever: 1-2 days (1 point), 3-4 days (2 points), ≥5 days (3 points); Rectal temperature 38-38.2°C (1 point), 38.3-38.7°C (2 points), ≥38.8°C (3 points); behavioral signs: Irritable/less playful (1 point), Lethargic/listless (2 points), Seizures (3 points).

^f Defined as in Lee, J Pediatr Gastroenterol Nutr., 2016: Duration of diarrhea: 2-4 days (1 point), 5-7 days (2 points), ≥8 days (3 points); Max # of stool in 24 hour period: <5 loose stools/24 hours (1 point), 5-7 loose stools/24 hours (2 points), ≥8 stools/24 hours (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥3 days (3 points); duration of reported fever: 1+ days (1 point); Confirmed temperature: ≥37.5°C (confirmed by field worker) (2 points); Dehydration: Some (2 points), severe (3 points).

Table 4.2: Clinical characteristics of moderate-to-severe MAD

Table 4.2. Clinical characteristics of children with <i>Shigella</i>-attributed diarrhea by GEMS and MVS and/or dysentery.		MVS moderate or severe diarrhea +/- dysentery^a			GEMS MSD^b		
Symptom / severity score component		+	+	-	+	-	-
<i>Shigella</i>-attributed MAD (culture or TAC +): N							
Hospitalized: n (%)							
Dehydration: n (%)							
None							
Some							
Severe							
Dysentery: n (%)							
Diarrhea duration (days): median (IQR)							
Maximum number of stools in a 24-hour period: median (IQR)							
Fever: n (%)							
Number of days with fever: median (IQR)							
Vomiting: n (%)							
Number of days with vomiting: median (IQR)							
Maximum number of vomiting episodes in a 24-hour period: median (IQR)							
ALAZ/HAZ from enrollment to 3-month follow-up: median (IQR)							

GEMS: Global Enteric Multicenter Study, HAZ: Height-for-age z-score, LAZ: Length-for-age z-score, MSD: moderate-to-severe diarrhea, LSD: less-severe-diarrhea, MVS: modified Vesikari score, WHO: World Health Organization.

^a Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

^b Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.

Table 4.3: Diagnostic accuracy of severity scores

Table 4.3. Diagnostic accuracy of dichotomized diarrhea severity scores of identifying hospitalization and/or mortality among all medically attended diarrhea (MAD) and <i>Shigella</i> -attributed MAD during index diarrhea episode.															
Severity score ^a	Sensitivity (CI)	Specificity (CI)	Total Accuracy (CI)	PPV (CI)	NPV (CI)	Appropriate antibiotics prescribed					No antibiotics prescribed				
						Sensitivity (CI)	Specificity (CI)	Accuracy (CI)	PPV (CI)	NPV (CI)	Sensitivity (CI)	Specificity (CI)	Accuracy (CI)	PPV (CI)	NPV (CI)
All MAD															
MVS (moderate or severe) ^a															
MVS (moderate or severe) and/or dysentery ^b															
GEMS (MSD) ^c															
GEMS- <i>Shigella</i> (moderate or severe) ^d															
Clark score (moderate or severe) ^e															
MAL-ED score (severe) ^f															
<i>Shigella</i>-attributed MAD															
MVS (moderate or severe) ^a															
MVS (moderate or severe) and/or dysentery ^b															
GEMS (MSD) ^c															
GEMS- <i>Shigella</i> (moderate or severe) ^d															
Clark score (moderate or severe) ^e															
MAL-ED score (severe) ^f															

CI: 95% confidence interval, GEMS: Global Enteric Multicenter Study, HAZ: Height-for-age z-score, LAZ: Length-for-age z-score, MAL-ED: Malnutrition and Enteric Disease Study, MSD: moderate-to-severe diarrhea, MVS: modified Vesikari score, WHO: World Health Organization.

^a Defined as in PATH Vesikari Clinical Severity Scoring System Manual as a MVS of 9+.

^b Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

^c Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission.

^d Defined as in Pavlinac, CID, 2021 as a score of 9+.

^e Defined as in Clark, JID, 1988 as a score of 9+.

^f Defined as in Lee, J Pediatr Gastroenterol Nutr., 2016 as a score of 6+.

Table 4.4: Severity scores and relationship to change in LAZ/HAZ

Table 4.4. Linear regression of dichotomized diarrhea severity scores and Δ LAZ/HAZ from enrollment to three-month follow-up among all medically attended diarrhea (MAD) and *Shigella*-attributed MAD during index diarrhea episode. Models stratified by antibiotic use.

Severity score ^a	Total			Appropriate antibiotics prescribed			No antibiotics prescribed		
	β (CI)	p-value	AIC	β (CI)	p-value	AIC	β (CI)	p-value	AIC
All MAD									
MVS (moderate or severe) ^b									
MVS (moderate or severe) and/or dysentery ^c									
GEMS (moderate-to-severe diarrhea [MSD]) ^d									
GEMS- <i>Shigella</i> (moderate or severe) ^e									
Clark score (moderate or severe) ^f									
MAL-ED score (severe) ^g									
<i>Shigella</i>-attributed MAD									
MVS (moderate or severe) ^b									
MVS (moderate or severe) and/or dysentery ^c									
GEMS (MSD) ^d									
GEMS- <i>Shigella</i> (moderate or severe) ^e									
Clark score (moderate or severe) ^f									
MAL-ED score (severe) ^g									

AIC: Akaike’s information Criteria, CI: 95% confidence interval, GEMS: Global Enteric Multicenter Study, MAL-ED: Malnutrition and Enteric Disease Study, MSD: moderate-to-severe diarrhea, MVS: modified Vesikari score, WHO: World Health Organization.

^a Models adjusted for baseline LAZ/HAZ, age, site, wealth quintile, maternal education, and breastfeeding.

^b Defined as in PATH Vesikari Clinical Severity Scoring System Manual as a MVS of 9+.

^c Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

^d Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission.

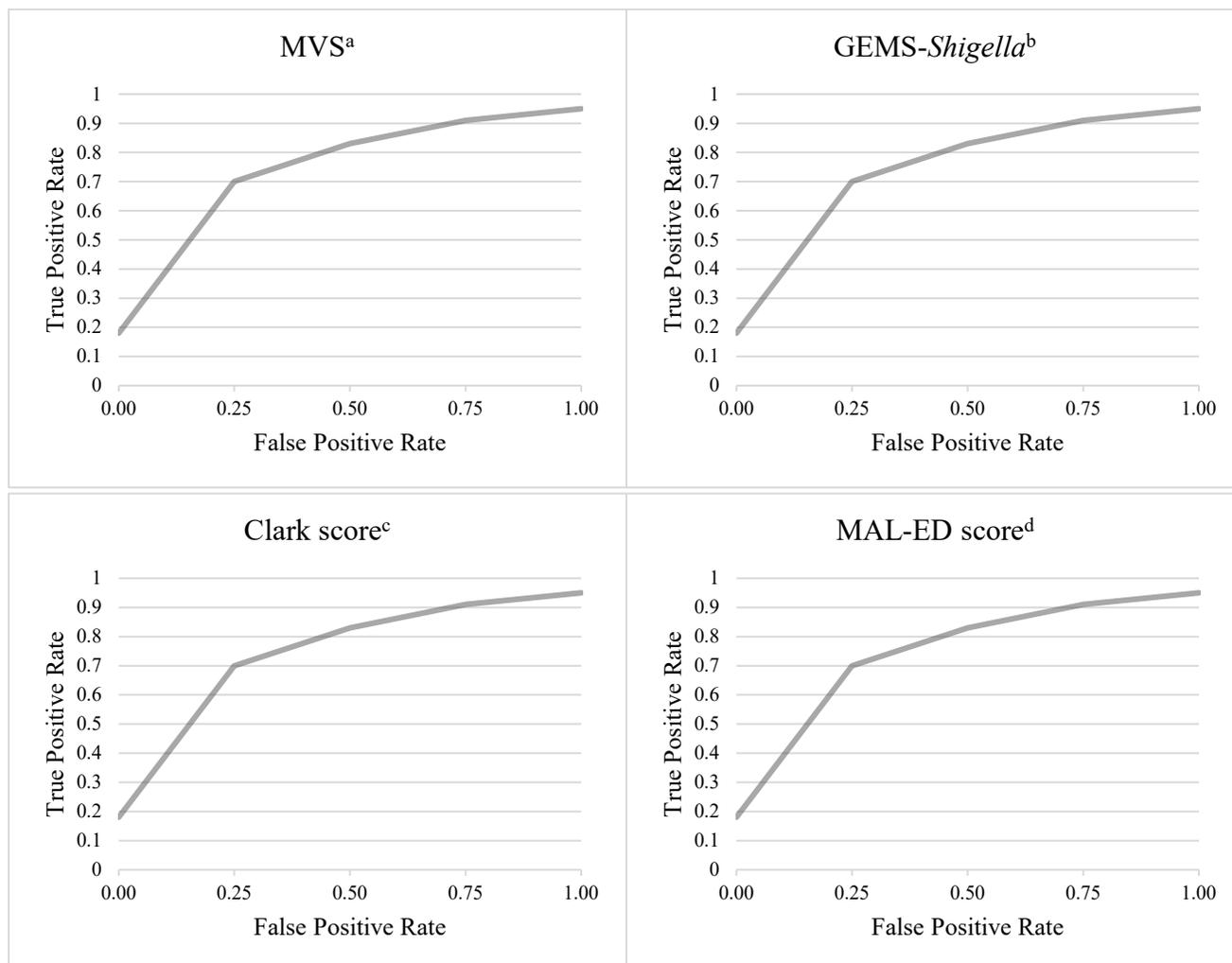
^e Defined as in Pavlinac, CID, 2021 as a score of 9+.

^f Defined as in Clark, JID, 1988 as a score of 9+.

^g Defined as in Lee, J Pediatr Gastroenterol Nutr., 2016 as a score of 6+.

Figure 4.1: ROC curves for severity scores

Figure 4.1 (example output below). ROC curve for the four numeric severity scores (MVS, GEMS-Shigella, Clark score, MAL-ED score) on the outcome of hospitalization and/or mortality.



GEMS: Global Enteric Multicenter Study, MAL-ED: Malnutrition and Enteric Disease Study, MVS: modified Vesikari score, ROC: receiver operating characteristic, WHO: World Health Organization.

^a Defined as in PATH Vesikari Clinical Severity Scoring System Manual: Duration of diarrhea: 1-4 days (1 point), 5 days (2 points) ≥ 6 days (3 points); Max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), ≥ 6 (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥ 3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), ≥ 5 (3 points); Axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), $\geq 38.5^\circ\text{C}$ (3 points); dehydration 1-5% (2 points), $\geq 6\%$ (3 points); treatment: rehydration (1 point), hospitalization (2 points).

^b Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.

^c Defined as in Clark, JID, 1988. Duration of diarrhea: 1-4 days (1 point), 5-7 days (2 points) > 7 days (3 points); Max # of stool in 24 hour period: 2-4 (1 point), 5-7 (2 points), > 7 (3 points); Duration of vomiting: 2 days (1 point), 3-5 days (2 points), > 5 days (3 points); max # of vomiting episodes in 24 hour period: 1-3 (1 point), 4-6 (2 points), > 6 (3 points); Duration of reported fever: 1-2 days (1 point), 3-4 days (2 points), ≥ 5 days (3 points); Rectal temperature 38-38.2°C (1 point), 38.3-38.7°C (2 points), $\geq 38.8^\circ\text{C}$ (3 points); behavioral signs: Irritable/less playful (1 point), Lethargic/listless (2 points), Seizures (3 points).

^d Defined as in Lee, J Pediatr Gastroenterol Nutr., 2016: Duration of diarrhea: 2-4 days (1 point), 5-7 days (2 points), ≥ 8 days (3 points); Max # of stool in 24 hour period: < 5 loose stools/24 hours (1 point), 5-7 loose stools/24 hours (2 points), ≥ 8 stools/24 hours (3 points); Duration of vomiting: 1 day (1 point), 2 days (2 points), ≥ 3 days (3 points); duration of reported fever: 1+ days (1 point); Confirmed temperature: $\geq 37.5^\circ\text{C}$ (confirmed by field worker) (2 points); Dehydration: Some (2 points), severe (3 points).

Secondary Aim 5

Table 5.1: Cost per episode of MAD

	Cost per episode, USD 2024: Mean (SD)							Total
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia	
Table 5.1. Cost per episode of medically attended <i>Shigella</i> diarrhea^a								
Costing perspective								
Household ^b								
Health system ^c								
Societal ^d								
Visit characteristics^e								
Visit type								
Inpatient								
Outpatient								
Level of facility presented to								
Primary								
Secondary								
Tertiary								
Client demographics^e								
Sex								
Female								
Male								
Age at enrollment (months)								
6–8								
9–11								
12–17								
18–23								
24–35								
Diarrhea severity^e								
Dysentery								
Watery diarrhea								
GEMS^f								
Less-severe diarrhea (LSD)								
Moderate-to-severe diarrhea (MSD)								
Severity by Modified Vesikari score (MVS)^g								
Mild (0-8 points)								
Moderate (9-10 points)								
Severe (11+ points)								
MVS moderate or severe diarrhea and/or dysentery^h								
Anthropometry^e								
Stuntedⁱ								
Severe								
Moderate								
None								
Wasted^j								
Severe								
Moderate								
None								
Underweight^k								
Severe								
Moderate								
None								

LAZ: Length for age Z-score, LSD: less-severe diarrhea, MSD: Moderate-to-severe diarrhea, MVS: Modified Vesikari score, MUAC: mid-upper arm circumference, SD: standard deviation, TAC: TaqMan Array Card, USD: US dollars, WAZ: Weight for age Z-score, WHO: World Health Organization, WLZ: Weight for length Z-score.

^a Children who tested positive for *Shigella* by culture and/or molecular (TAC) diagnostics.

^b Household perspective includes caregiver out-of-pocket costs and indirect costs (caregiver time lost from work).

^c Health system perspective includes costs of medical treatment funded by the public health system.

^d Societal costs include all costs presented in the household and health system perspectives.

^e Costs stratified per visit characteristic, client demographics, diarrhea severity, and anthropometry category are societal costs.

^f Defined as in Kotloff, Lancet GH, 2019. Moderate-to-severe-diarrhea (MSD) defined as presenting to a health facility with diarrhea and severe or some dehydration (by WHO criteria), visible blood in stool, or inpatient admission. Less-severe-diarrhea (LSD) defined as presenting to a health facility without MSD.

^g Defined as in PATH Vesikari Clinical Severity Scoring System Manual: duration of diarrhea: 1-4 days (1 point), 5 days (2 points) \geq 6 days (3 points); max # of stool in 24 hour period: 1-3 (1 point), 4-5 (2 points), \geq 6 (3 points); duration of vomiting: 1 day (1 point), 2 days (2 points), \geq 3 days (3 points); max # of vomiting episodes in 24 hour period: 1 (1 point), 2-4 (2 points), \geq 5 (3 points); axillary temperature 36.6-37.9°C (1 point), 38.0-38.4°C (2 points), \geq 38.5°C (3 points); dehydration 1-5% (2 points), \geq 6% (3 points); treatment: rehydration (1 point), hospitalization (2 points).

^h Defined as in Pavlinac, Vaccines, 2022 as a MVS of 9+ or presence of visible blood in stool.

ⁱ Severe stunting: LAZ < -3, Moderate stunting: -3 \leq LAZ < -2.

^j Severe wasting: WLZ < -3 or MUAC < 11.5, Moderate wasting: -3 \leq WLZ < -2 or 11.5 \leq MUAC < 12.5.

^k Severely underweight: WAZ < -3, Moderately underweight: -3 \leq WAZ < -2.

Table 5.2: Factors associated with cost

Table 5.2. Factors associated with costs of medically-attended *Shigella* diarrhea.^a

<i>Parameter</i>	Household perspective ^b			Health system perspective ^c			Societal perspective ^d		
	Coefficient	CI	p-value	Coefficient	CI	p-value	Coefficient	CI	p-value
Intercept									
Country									
Bangladesh	Reference	-	-	Reference	-	-	Reference	-	-
Kenya									
Malawi									
Mali									
Pakistan									
Peru									
The Gambia									
Diarrhea severity									
Mild	Reference	-	-	Reference	-	-	Reference	-	-
Moderate									
Severe									

CI: 95% confidence interval.

^a Children who tested positive for *Shigella* by culture and/or molecular (TaqMan Array Card) diagnostics.

^b Household perspective includes caregiver out-of-pocket costs and indirect costs (caregiver time lost from work).

^c Health system perspective includes costs of medical treatment funded by the public health system.

^d Societal costs include all costs presented in the household and health system perspectives.

Table 5.3: Annual costs of *Shigella*-associated MAD

Table 5.3. Annual costs of medically-attended <i>Shigella</i> diarrhea ^a in country sites.							
Strata	Annual costs per site (per 100,000 population), USD 2024						
	Bangladesh	Kenya	Malawi	Mali	Pakistan	Peru	The Gambia
Household costs ^b							
Health system costs ^c							
Societal costs ^d							

USD: US dollars.

^a Children who tested positive for *Shigella* by culture and/or molecular (TaqMan Array Card) diagnostics.

^b Household costs includes caregiver out-of-pocket costs and indirect costs (caregiver time lost from work).

^c Health system costs includes costs of medical treatment funded by the public health system.

^d Societal costs include all costs presented in the household and health system perspectives.

Secondary Aim 6

Table 6.1: Culture Positivity by serotype

Table 6.1. <i>Shigella</i> culture positivity proportion by transport media type and EFGH study site.				
Country	N	<i>Shigella</i> culture positivity ^a : % (CI)		p-value ^b
		Cary Blair	mBGS	
All <i>Shigella</i> isolates				
Bangladesh				
Kenya				
Malawi				
Mali				
Pakistan				
Peru ^c				
The Gambia				
Overall				
<i>S. flexneri</i>				
Bangladesh				
Kenya				
Malawi				
Mali				
Pakistan				
Peru ^c				
The Gambia				
Overall				
<i>S. sonnei</i>				
Bangladesh				
Kenya				
Malawi				
Mali				
Pakistan				
Peru ^c				
The Gambia				
Overall				
<i>S. boydii</i>				
Bangladesh				
Kenya				
Malawi				
Mali				
Pakistan				
Peru ^c				
The Gambia				
Overall				
<i>S. dysenteriae</i>				
Bangladesh				
Kenya				
Malawi				
Mali				
Pakistan				
Peru ^c				
The Gambia				
Overall				

CI: 95% confidence interval, mBGS: modified buffered glycerol saline.

^a Culture *Shigella* culture positivity is defined as the percentage of enrolled participants with *Shigella* isolated from culture out of total participants with both rectal swabs cultured using both Cary-Blair and mBGS transport media.

^b McNemar’s test of superiority.

^c Includes only participants enrolled after January 19, 2023 due to a laboratory error that made previous results incomparable across media types.

Table 6.2: Rectal swab and whole stool comparison

Table 6.2. *Shigella* culture-positivity from rectal swab and whole stool samples, across sites involved in the whole stool/rectal swab comparison sub-study.

Country	N	<i>Shigella</i> culture positivity ^a : (CI)		
		Rectal swab	Whole stool ^b	Difference
All <i>Shigella</i> isolates				
Cary-Blair				
Bangladesh				
The Gambia				
Overall				
mBGS				
Bangladesh				
The Gambia				
Overall				
<i>S. flexneri</i>				
Cary-Blair				
Bangladesh				
The Gambia				
Overall				
mBGS				
Bangladesh				
The Gambia				
Overall				
<i>S. sonnei</i>				
Cary-Blair				
Bangladesh				
The Gambia				
Overall				
mBGS				
Bangladesh				
The Gambia				
Overall				
<i>S. boydii</i>				
Cary-Blair				
Bangladesh				
The Gambia				
Overall				
mBGS				
Bangladesh				
The Gambia				
Overall				
<i>S. dysenteriae</i>				
Cary-Blair				
Bangladesh				
The Gambia				
Overall				
mBGS				
Bangladesh				
The Gambia				
Overall				

CI: 95% confidence interval, mBGS: modified buffered glycerol saline

^a *Shigella* culture positivity is defined as the percentage of participants with *Shigella* isolated from culture out of total participants with both rectal swab and whole stool collected for the *Shigella* culture comparison.

^b Whole stool is collected among children who produce a sample while still at the enrollment facility.

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Enterics for Global Health: *Shigella* Surveillance Study (EFGH)

**Diarrhea Case Surveillance Case Report Form
Appendix**



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**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 01— Pre-Screening Form**

Purpose: *To assess screening eligibility.*

Instructions: *Please complete this pre-screening for all children appearing less than 5 years with diarrhea/dysentery/gastroenteritis who present to this health facility at any day/time should have this form completed. Plain text is for prompts for study staff, and italics are instructions for study staff.*

A. VISIT INFORMATION

1.	Screening ID	_ _ - _ _ - _ _ _ _ _ _ _ _ - _ _ _ _ _ _ _ _ <i>(Country ID - Facility ID - Sequential Screening # - Staff ID)</i>		
2.	Date child presented to health facility:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ <i>(dd-mm-yyyy)</i> <input type="checkbox"/> Unknown		
3.	Approximate time child presented to health facility:	_ _ _ _ : _ _ _ _ <i>(hh : min, 24:00 hr)</i> <input type="checkbox"/> Unknown		
4.	Pre-screening Date:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ <i>(dd-mm-yyyy)</i>		
5.	Pre-screening Time:	_ _ _ _ : _ _ _ _ <i>(hh : min, 24:00 hr)</i>		
6.	Based on Q2/Q3 minus Q4/Q5, approximately how many hours have passed since the child presented to the health facility? <i>(if being completed at the point of presentation please indicate "00" & "00")</i>	_ _ _ _ hours and _ _ _ _ minutes <i>(if <1 hour/60 minutes, indicate "00" in hours box)</i> <input type="checkbox"/> Unknown <i>(if time of presentation to the health facility [Q3] is unknown)</i>		
7.	EFGH country site:	<input type="checkbox"/> Bangladesh <input type="checkbox"/> Kenya <input type="checkbox"/> Malawi <input type="checkbox"/> Mali <input type="checkbox"/> Pakistan <input type="checkbox"/> Peru <input type="checkbox"/> The Gambia		

B. PRE-SCREENING QUESTIONS

8.	Did the child present to the recruitment facility during working hours?	<input type="checkbox"/> Yes <i>(skip to Q10)</i> <input type="checkbox"/> No		
9.	Are the Pre-Screening questions being answered based on facility records or in real-time?	<input type="checkbox"/> Real-time <input type="checkbox"/> Facility records <i>(only applicable for children presenting outside of working hours)</i>		
10.	Please confirm diarrhea/dysentery/gastroenteritis is one of the complaints of the child	<input type="checkbox"/> Confirmed <input type="checkbox"/> Not confirmed <i>(ineligible, skip to Section C)</i>		
11.	Age of the child according to respondent or record: _ _ _ _ months <i>(if outside age range [6-35 months], ineligible, skip to Section C)</i>	<input type="checkbox"/> Missing <i>(ineligible, skip to Section C)</i>		
12.	Is the child still present in the facility?	<input type="checkbox"/> Yes, the child is still present in the facility <input type="checkbox"/> No, the child has already left the facility <i>(ineligible, proceed to Section C)</i>		
13.	Is the child currently enrolled in EFGH and involved in active follow up?	<input type="checkbox"/> Yes <i>(ineligible because already enrolled, skip to Section C, complete Unwell Child CRF [CRF 08])</i> <input type="checkbox"/> No		

C. PRE-SCREENING ELIGIBILITY DETERMINATION

14.	Based on the responses above, is the child eligible to move on to the screening process?	
	<input type="checkbox"/> Yes <i>(complete Section D and continue to Screening CRF [CRF 02])</i>	
	<input type="checkbox"/> No <i>(stop process after completing Section D)</i>	
D. FORM COMPLETION		
15.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
16.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
17.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
18.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 02— Screening Form

Purpose: *To determine study eligibility*

Instructions: *Please complete this screening for all children who are preliminarily eligible based on the Pre-Screening form. Plain text is for prompts for study staff, and italics are instructions for study staff.*

A. VISIT INFORMATION

1.	Screening ID	_ _ - _ _ - _ _ _ _ _ _ - _ _ _ _ _ _ (Country ID - Facility ID - Sequential Screening # - Staff ID)		
2.	Screening Date:	_ _ _ - _ _ _ - 2 0 _ _ _ (dd-mm-yyyy)		
3.	Screening Time:	_ _ _ : _ _ _ (hh : min, 24:00 hr)		
4.	EFGH country site:			
	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru	<input type="checkbox"/> The Gambia	

B. RESPONDENT INFORMATION & VERBAL SCREENING CONSENT

5.	Is the child accompanied by a primary caregiver who is able to provide consent?		
	<input type="checkbox"/> Yes (<i>conduct verbal screening consent</i>)		
	<input type="checkbox"/> No (<i>thank the respondent and stop screening process, skip to Section G</i>)		
6.	What is the relationship of the respondent to the child being screened?		
	<input type="checkbox"/> Biological mother	<input type="checkbox"/> Biological father	<input type="checkbox"/> Adopted mother
	<input type="checkbox"/> Adopted father	<input type="checkbox"/> Grandmother	<input type="checkbox"/> Grandfather
	<input type="checkbox"/> Aunt	<input type="checkbox"/> Uncle	<input type="checkbox"/> Older sister
	<input type="checkbox"/> Older brother	<input type="checkbox"/> Other, <i>specify</i> : _____	
7.	Did the respondent consent to screening?		
	<input type="checkbox"/> Yes (<i>skip to Q8</i>)		
	<input type="checkbox"/> Not applicable, screening consent is not required at this site (<i>skip to Q8</i>)		
	<input type="checkbox"/> No, respondent did not provide consent to screening		
7a.	<i>If respondent did not provide consent to screening, why?</i>		
	<input type="checkbox"/> Not interested in participating in research (<i>thank the respondent and stop screening process, skip to Section G</i>)		
	<input type="checkbox"/> Not enough time (<i>thank the respondent and stop screening process, skip to Section G</i>)		
	<input type="checkbox"/> Caregiver too busy (<i>thank the respondent and stop screening process, skip to Section G</i>)		
	<input type="checkbox"/> Child too sick (<i>thank the respondent and stop screening process, skip to Section G</i>)		
	<input type="checkbox"/> Other (<i>specify</i>): _____ (<i>thank the respondent and stop screening process, skip to Section G</i>)		

8.	What is the <i>[insert site-specific administrative unit]</i> that this child lives in? (“lives” defined as having spent 7 or more days of the last 14 days there)		
	__ __ __ OR <input type="checkbox"/> Other (specify): _____ Please refer to list of smallest administrative units and enter in corresponding code. If list does not contain administrative unit, indicate “Other” and specify.		
9.	Verification that the child lives in the catchment area (using site-specific verification process)		
	<input type="checkbox"/> Verified child lives in catchment area		
	<input type="checkbox"/> Verified child does not live in catchment area (ineligible)		
	<input type="checkbox"/> Could not verify that child lives in catchment area (ineligible)		
C. BASIC INFORMATION ABOUT THE CHILD AND THE PRESENT ILLNESS EPISODE			
10.	Child sex		
	<input type="checkbox"/> Male		
	<input type="checkbox"/> Female		
11.	What is the child’s date of birth?		
	11a. Day:	__ __	<input type="checkbox"/> Unknown
	11b. Month:	__ __	<input type="checkbox"/> Unknown
	11c. Year:	__ __ __ __	<input type="checkbox"/> Unknown
12.	Age of the child by study team calculation: __ __ months (if <10, put “0” before digit) (if Day unknown, assume 15 th of the month; if outside age range [6-35 months], ineligible) <input type="checkbox"/> Not calculable (all unknown; day + month unknown; year unknown)		
13.	Age of the child according to respondent: __ __ months <input type="checkbox"/> Unknown (if unknown & Q12 not calculable, ineligible) (if use caregiver reported age to determine eligibility if month or year are unknown in Q11)		
14.	How many unusually loose or watery stools has the child had in the past 24 hours?		
	__ __ (if <10, put “0” before digit; if < 3, ineligible)		
15.	When did the diarrhea (defined as 3 or more abnormally loose/watery stool in a 24 hour period) start?		
	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)		
16.	Including today, how many days has the child had diarrhea (defined as 3 or more unusually loose or watery stools during a 24 hour period)? Review memory aid with caregiver to answer this question.		
	__ __ days (if <10, put “0” before digit; if >7 days, ineligible)		
17.	Has there been any visible blood in the child’s stool since the diarrhea started?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (skip to Q20)		
18.	Within the last 24 hours, has there been visible blood in the child’s stools?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (skip to Q20)		
19.	Including today, how many days has the child had visible blood in their stools?		
	__ __ days (if <10, put “0” before digit)		

20.	Does the respondent plan to remain in the study area with the child for the next 4 months?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>ineligible</i>)
21.	Is the child currently enrolled in an interventional study?
	<input type="checkbox"/> Yes (<i>ineligible</i>)
	<input type="checkbox"/> No
D. STUDY ELIGIBILITY DETERMINATION	
22.	Diarrhea is one of the complaints of the child (<i>see Pre-Screening CRF 01, Q10</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
23.	Accompanying respondent is able and willing to provide informed consent (<i>see Q5</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
24.	Child is verified to live in catchment area (<i>see Q9</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
25.	The child is between 6-35 months of age (<i>see Q12 or Q13</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
26.	Child has had 3 or more unusually loose or watery stools in the past 24 hours (<i>see Q14</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
27.	Child has had 7 or fewer days of diarrhea (<i>see Q16</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
28.	The respondent plans to remain in the study area with the child for the next 4 months (<i>see Q20</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)
	<input type="checkbox"/> No
29.	Child is <u>not</u> currently enrolled in an interventional study (<i>see Q21</i>)
	<input type="checkbox"/> Yes (<i>must be "Yes" to be eligible</i>)

	<input type="checkbox"/> No
E. STUDY ELIGIBILITY DETERMINATION	
30.	Is the child eligible for enrollment in the EFGH study? <i>(Responses to Q22-29 must all be "Yes")</i>
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No <i>(thank the respondent and stop screening process, skip to Section G)</i>
F. OTHER REASONS NOT ENROLLED <i>(answered among those who are eligible for enrollment)</i>	
31.	Has more than 4 hours passed since the child presented to the health facility and the child started the screening process <i>(see Pre-Screening CRF 01, Q6)</i>
	<input type="checkbox"/> Yes <i>(thank the respondent and stop screening process, complete Section G)</i>
	<input type="checkbox"/> No
32.	Has the enrollment cap already been met?
	<input type="checkbox"/> Yes <i>(thank the respondent and stop screening process, complete Section G)</i>
	<input type="checkbox"/> No
33.	Is the child being referred to another facility?
	<input type="checkbox"/> Yes, to an EFGH recruiting facility.
	ID EFGH recruiting facility that child is being referred: __ <i>(If this child meets eligibility criteria, he/she can continue from the Pre-Enrollment CRF at the referral facility [the screening ID should remain the same]. Thank the respondent and stop the screening process, complete Section G).</i>
	<input type="checkbox"/> Yes, to a non-EFGH recruiting facility <i>(thank the respondent and stop screening process, complete Section G)</i>
	<input type="checkbox"/> No <i>(complete Section G and proceed to the informed consent process)</i>
G. FORM COMPLETION	
34.	ID of person completing this form: __ __ __
	Date form completed: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
35.	ID of person reviewing this form: __ __ __
	Date form reviewed: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
36.	ID of person entering this form: __ __ __
	Date form entered: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>
37.	ID of person conducting data verification: __ __ __
	Date of data verification: __ __ - __ __ - 2 0 __ __ <i>(dd-mm-yyyy)</i>

	6a.	<i>If yes</i> , Previous PID: __ __ __ __ __ __ __ <input type="checkbox"/> Unknown
	6b.	<i>If yes</i> , Date of enrollment: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
	6c.	<i>If yes</i> , Facility the child recruited from (<i>refer to facility list and enter facility code</i>):
		__ <input type="checkbox"/> Unknown

B. FORM COMPLETION

7.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
8.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
9.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
10.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Please proceed to CRF 04 - Enrollment CRF

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 04—Enrollment Form

Purpose: *To capture information about the enrolled participant at presentation or during the period leading up to presentation to the health facility (subsequent forms will ascertain information about what happens throughout the course of the facility visit).*

Instructions: *Please complete this form after completing the Pre-Enrollment Form and participant been assigned a unique participant identification number (PID). Text in **bold** should be read to study participants, plain text is for prompts for study staff, and italics are instructions for study staff.*

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

A. PARTICIPANT INFORMATION	
1.	Participant ID _ _ _ _ _ _ _ _ _
2.	Date of Enrollment: _ _ - _ _ - 2 0 _ _ (<i>dd-mm-yyyy</i>)
3.	Time form is started: _ _ : _ _ (<i>hh : min, 24:00 hr</i>)
4.	EFGH country site:
	<input type="checkbox"/> Bangladesh <input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi <input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan <input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia
B. DIARRHEA EPISODE INFORMATION (PRESENTATION) <i>(Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff. <u>Note:</u> Diarrhea episode is defined as diarrhea (3 or more unusually loose or watery stools in a 24 hour period). Use memory aid to facilitate remembering days.</i>	
5.	From the time this diarrhea episode started up until now, has there been any visible blood in the child’s stool?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Q6</i>)
	<input type="checkbox"/> Unknown (<i>skip to Q6</i>)
5a.	<i>If Yes, for how many days has there been blood in the child’s stool (including today)?</i> _ _ days
6.	From the time this diarrhea episode started up until now, what is the maximum number of abnormally loose or watery stools that the child produced in a single 24 hour period?
	_ _ loose stools
7.	From the time this diarrhea episode started up until now, has the child vomited?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Q8</i>)
7a.	<i>If the child has had episodes of vomiting, how many days has the child vomited at least once?</i> _ _ days (<i>if <10, put “0” before digit</i>)

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Implementing Institution Name (Country Site)
CRF 04—Enrollment Form

	7b.	Thinking about the day when the child had the most vomiting, how many times did s/he vomit in a 24 hour period?	__ __ times (if <10, put "0" before digit)
8.	From the time this diarrhea episode started up until now, has the child felt hot to the touch (fever)?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (skip to Q9)		
	8a.	If child has had a fever during this diarrhea episode, how many days did the fever persist?	__ __ days (if <10, put "0" before digit)
C. MEDICAL EXAMINATION: ASSESSMENT OF DEHYDRATION AND THE CHILD'S GENERAL CONDITION			
9.	What is the child's general condition?		
	<input type="checkbox"/> Well/Alert	<input type="checkbox"/> Restless/Irritable	<input type="checkbox"/> Lethargic or Unconscious
10.	Assess the child's eyes and determine if they are:		
	<input type="checkbox"/> Normal (skip to Q11)	<input type="checkbox"/> Abnormally sunken	
	10a.	If child's eyes are determined to be abnormally sunken, please ask the caregiver: Is the appearance of your child's eyes abnormal?	
		<input type="checkbox"/> Yes (abnormal for child)	
		<input type="checkbox"/> No	
11.	Describe the child's ability to drink or breastfeed:		
	<input type="checkbox"/> Normal/Not Thirsty	<input type="checkbox"/> Drinks eagerly/Thirsty	<input type="checkbox"/> Drinks poorly/Unable to drink
12.	Using a thumb and forefinger, gently pinch up the child's skin on the abdominal wall and assess the skin's return to normal:		
	<input type="checkbox"/> Immediately	<input type="checkbox"/> 1 to <2 seconds (slowly)	<input type="checkbox"/> ≥2 seconds (very slowly)
13.	Dehydration assessment (to be completed based on data in Q9-Q12 above)		
	<input type="checkbox"/> <u>Severe dehydration</u>	<input type="checkbox"/> <u>Some dehydration</u>	<input type="checkbox"/> <u>No dehydration</u>
	At least two of the following signs (check all that apply):	At least two of the following signs (check all that apply):	
	<input type="checkbox"/> Lethargic or Unconscious	<input type="checkbox"/> Restless/irritable	
	<input type="checkbox"/> Abnormally sunken eyes based on clinician assessment and caregiver confirmation	<input type="checkbox"/> Abnormally sunken eyes based on clinician assessment and caregiver confirmation	
	<input type="checkbox"/> Drinks poorly/unable to drink	<input type="checkbox"/> Drinks eagerly/Thirsty	
	<input type="checkbox"/> Skin pinch goes back ≥2 seconds (very slowly)	<input type="checkbox"/> Skin pinch goes back 1 to <2 seconds (slowly)	
<i>Please assess the following physical signs:</i>			

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Implementing Institution Name (Country Site)
CRF 04—Enrollment Form

14.	Vital signs	
	14a.	Temperature (taken using the Exergen thermometer): __ __ . __ °C
	14b.	Heart rate: __ __ __ beats per minute
	14c.	Respiratory rate: __ __ breaths per minute
15.	Tears	<input type="checkbox"/> Normal <input type="checkbox"/> Decreased <input type="checkbox"/> Absent
16.	Jaundice/yellow eyes	<input type="checkbox"/> Yes <input type="checkbox"/> No
17.	Cough	<input type="checkbox"/> Yes <input type="checkbox"/> No
18.	Difficulty breathing	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.	Chest in-drawing	<input type="checkbox"/> Yes <input type="checkbox"/> No
20.	Stridor	<input type="checkbox"/> Yes <input type="checkbox"/> No
21.	Stiff neck	<input type="checkbox"/> Yes <input type="checkbox"/> No
22.	Generalized rash	<input type="checkbox"/> Yes <input type="checkbox"/> No
23.	Runny nose	<input type="checkbox"/> Yes <input type="checkbox"/> No
24.	Convulsions	<input type="checkbox"/> Yes <input type="checkbox"/> No
25.	Lethargy or Unconscious	<input type="checkbox"/> Yes <input type="checkbox"/> No
26.	Chest auscultation signs suggestive of pneumonia	<input type="checkbox"/> Yes <input type="checkbox"/> No
27.	Central cyanosis	<input type="checkbox"/> Yes <input type="checkbox"/> No
28.	Oxygen saturation <90% (pulse oximetry)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not available
29.	Severe respiratory distress	<input type="checkbox"/> Yes <input type="checkbox"/> No
30.	Palmar pallor	<input type="checkbox"/> Yes <input type="checkbox"/> No
31.	Ear pain	<input type="checkbox"/> Yes <input type="checkbox"/> No
32.	Pus drainage from ear canal	<input type="checkbox"/> Yes <input type="checkbox"/> No
33.	Tender swelling behind the ear	<input type="checkbox"/> Yes <input type="checkbox"/> No
34.	Signs of abscess	<input type="checkbox"/> Yes <input type="checkbox"/> No
35.	Signs of oedema	<input type="checkbox"/> Yes <input type="checkbox"/> No
	35a.	<i>If yes:</i>
		<input type="checkbox"/> Oedema on both feet/ankles (<i>mild</i>)
		<input type="checkbox"/> Oedema on both feet/ankles, lower legs, hands, or lower arms (<i>moderate</i>)
		<input type="checkbox"/> Generalized oedema, including both feet, legs, hands, arms, and face (<i>severe</i>)
36.	Tick all diagnoses applicable (<i>check all that apply</i>)	
	<input type="checkbox"/> Diarrhea	<input type="checkbox"/> Dysentery
	<input type="checkbox"/> Gastroenteritis	<input type="checkbox"/> Anemia
	<input type="checkbox"/> Sickle cell	<input type="checkbox"/> HIV
	<input type="checkbox"/> Malaria	<input type="checkbox"/> Urinary Tract Infection
	<input type="checkbox"/> Suspected sepsis	<input type="checkbox"/> Tuberculosis
	<input type="checkbox"/> Upper respiratory tract infection	<input type="checkbox"/> Fever of unknown origin/Febrile illness
	<input type="checkbox"/> Other lower respiratory tract infections	<input type="checkbox"/> Pneumonia
	<input type="checkbox"/> Acutely unwell, unknown cause	<input type="checkbox"/> Meningitis

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CRF 04—Enrollment Form

<input type="checkbox"/> Asthma	<input type="checkbox"/> Poisoning/ herbal intoxication
<input type="checkbox"/> Moderate acute malnutrition/ moderate wasting	<input type="checkbox"/> Severe acute malnutrition/ severe wasting
<input type="checkbox"/> None	<input type="checkbox"/> Soft tissue/skin infection
<input type="checkbox"/> Other 1 (<i>specify</i>): _____	<input type="checkbox"/> Other 2 (<i>specify</i>): _____

REMINDER: Record any therapies initiated in the Medical Management CRF (CRF 04b)

D1. CHILD PRESENTATION ANTHROPOMETRY (PRIOR TO ANY REHYDRATION OR NO REHYDRATION REQUIRED)

37.	Will this child be rehydrated in the facility?	
	<input type="checkbox"/> Yes and pre-rehydration weight and MUAC able to be collected (<i>complete Sections D1, D2 & D3</i>)	
	<input type="checkbox"/> Yes and pre-rehydration weight and MUAC are NOT able to be collected (<i>complete Section D2 & D3</i>)	
	<input type="checkbox"/> No (<i>complete Section D1 & D2, then skip to Q52</i>)	
38.	a. What is the child's mid upper arm circumference (MUAC)? (1 st measurement)	__ __ . __ (cm)
	b. Arm from which MUAC is being measured (<i>please ensure the same arm is used to collect 1st, 2nd, and 3rd measurements</i>)	<input type="checkbox"/> Right <input type="checkbox"/> Left
	c. What is the child's MUAC? (2 nd measurement)	__ __ . __ (cm)
	<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and, if the difference is 0.3cm or greater, obtain a third measurement</i>	
	d. What is the child's MUAC? (3 rd measurement, if applicable)	__ __ . __ (cm) <input type="checkbox"/> Not applicable (3 rd measurement not indicated)
	Comments:	
39.	How is the child's weight being recorded?	
	<input type="checkbox"/> Adult scale, child only (<i>child is ≥24 months OR able to stand on the scale alone; skip to Q43a</i>)	
	<input type="checkbox"/> Adult scale, child and caregiver together (<i>child is <24 months OR unable to stand on the scale alone</i>)	
40.	a. What is the weight of child and caregiver (1 st measurement)	__ __ __ . __ (kg)
	b. What is the weight of the caregiver alone (1 st measurement)	__ __ __ . __ (kg)
	c. What is the <u>calculated</u> weight of the child (Q40a minus Q40b)	__ __ . __ (kg)
41.	a. What is the weight of child and caregiver (2 nd measurement)	__ __ __ . __ (kg)
	b. What is the weight of the caregiver alone (2 nd measurement)	__ __ __ . __ (kg)
	c. What is the <u>calculated</u> weight of the child (Q41a minus Q41b) (2 nd measurement)	__ __ . __ (kg)
	<i>If measurement 2 (Q41c) differs from measurement 1(Q40c), subtract the lower measurement from the higher measurement and if the difference is 0.2 kg or greater, obtain a third measurement; otherwise skip to Q44</i>	

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Implementing Institution Name (Country Site)
CRF 04—Enrollment Form

42.	a.	What is the weight of child and caregiver (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
	b.	What is the weight of the caregiver alone (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable (3 rd measurement not indicated)
	c.	What is the calculated weight of the child (Q42a minus Q42b) (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
Comments:			
<i>If the child is ≥24 months AND able to stand on the scale alone:</i>			
43.	a.	What is the child's weight? (1 st measurement)	_ _ _ _ . _ _ (kg)
	b.	What is the child's weight? (2 nd measurement)	_ _ _ _ . _ _ (kg)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and if the difference is 0.2 kg or greater, obtain a third measurement</i>			
	c.	What is the child's weight? (3 rd measurement, if applicable)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
Comments:			
D2. CHILD LENGTH/HEIGHT (All participants, irrespective of rehydration status)			
44.	How is the child's length (if <24 months) / height (if ≥24 months) being recorded?		
	<input type="checkbox"/> Recumbent length (if <24 months)		
	<input type="checkbox"/> Standing height (if ≥24 months and able to stand)		
	a.	What is the length/height of the child? (1 st measurement)	_ _ _ _ . _ _ (cm)
	b.	What is the length/height of the child? (2 nd measurement)	_ _ _ _ . _ _ (cm)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and if the difference is 0.5 cm or greater, obtain a third measurement</i>			
	c.	What is the length/height of the child? (3 rd measurement, if applicable)	_ _ _ _ . _ _ (cm) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>

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		Comments:	
D3. CHILD POST-REHYDRATION ANTHROPOMETRY <i>(complete ONLY if child was rehydrated [partially or fully] in the facility, otherwise skip to Section F)</i>			
45.	Was rehydration therapy completed at the facility?		
	<input type="checkbox"/> Yes, child was fully rehydrated at the facility		
	<input type="checkbox"/> No, child was not fully rehydrated and is being sent home with rehydration therapy (ORS)		
46.	a.	What is the child's MUAC? (1 st measurement)	__ __ . __ (cm)
	b.	Arm from which MUAC is being measured	<input type="checkbox"/> Right <input type="checkbox"/> Left
	c.	What is the child's MUAC? (2 nd measurement)	__ __ . __ (cm)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and, if the difference is 0.3 cm or greater, obtain a third measurement.</i>			
	d.	What is the child's MUAC? (3 rd measurement, if applicable)	__ __ . __ (cm) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
		Comments:	
47.	How is the child's weight being recorded?		
	<input type="checkbox"/> Adult scale, child only <i>(child is ≥24 months AND able to stand on the scale alone; skip to Q51a)</i>		
	<input type="checkbox"/> Adult scale, child and caregiver together <i>(child is <24 months OR unable to stand on the scale alone)</i>		
48.	a.	What is the weight of child and caregiver (1 st measurement)	__ __ __ . __ (kg)
	b.	What is the weight of the caregiver alone (1 st measurement)	__ __ __ . __ (kg)
	c.	What is the <u>calculated</u> weight of the child <i>(Q48a minus Q48b)</i>	__ __ . __ (kg)
49.	a.	What is the weight of child and caregiver (2 nd measurement)	__ __ __ . __ (kg)
	b.	What is the weight of the caregiver alone (2 nd measurement)	__ __ __ . __ (kg)
	c.	What is the <u>calculated</u> weight of the child_ <i>(Q49a minus Q49b) (2nd measurement)</i>	__ __ . __ (kg)
<i>If measurement 2 (Q49c) differs from measurement 1(Q48c), subtract the lower measurement from the higher measurement and if the difference is 0.2 kg or greater, obtain a third measurement</i>			
50.	a.	What is the weight of child and caregiver (3 rd measurement)	__ __ __ . __ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>

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		b. What is the weight of the caregiver alone (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
		c. What is the calculated weight of the child (<i>Q50a minus Q50b</i>) (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
		Comments:	
51.	a.	What is the child's weight? (1 st measurement)	_ _ _ _ . _ _ (kg)
	b.	What is the child's weight? (2 nd measurement)	_ _ _ _ . _ _ (kg)
		<i>If measurement 2 (Q51b) differs from measurement 1 (Q51a), subtract the lower measurement from the higher measurement and if the difference is 0.2 kg or greater, obtain a third measurement</i>	
	c.	What is the child's weight? (3 rd measurement, if applicable)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
		Comments:	
F. CHILD HEALTH HISTORY (<i>Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff</i>)			
52.		Is there a known or suspected cholera epidemic in the study area at present?	
		<input type="checkbox"/> Yes	
		<input type="checkbox"/> No	
		<input type="checkbox"/> Unknown	
53.		Has your child ever been diagnosed with any of the following? (<i>check all that apply, check "None" if none apply</i>)	
		<input type="checkbox"/> Rheumatic heart disease	<input type="checkbox"/> Leukemia
		<input type="checkbox"/> Sickle cell anemia	<input type="checkbox"/> Tuberculosis
		<input type="checkbox"/> HIV	<input type="checkbox"/> Other 1 (<i>specify</i>): _____
		<input type="checkbox"/> Other 2 (<i>specify</i>): _____	<input type="checkbox"/> None
Breastfeeding History			
54.		Has your child ever breastfed?	
		<input type="checkbox"/> Yes	
		<input type="checkbox"/> No (<i>skip to Q59</i>)	

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		<input type="checkbox"/> Unknown (<i>skip to Q59</i>)		
55.	Other than breastmilk, has your child <u>ever</u> consumed any of the following since their birth?			
	Water (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Formula (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Processed milk (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Cow/goat/camel/donkey milk (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Sweetened water (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Tea (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Fruit juice (<i>fluid</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Porridge (<i>semi-solid food</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Rice (<i>solid food</i>)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Other liquid not listed (<i>specify</i>): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Other semi-solid foods not listed (<i>specify</i>): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
	Other solid food not listed (<i>specify</i>): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Unknown
<i>Instructions to staff: If the caregiver answered "Yes" to any rows in Q55, skip to Q57.</i>				
56.	<i>If the caregiver answered "No" to all questions in Q55: According to your answers, your child was exclusively breastfed immediately before (or up until) this diarrheal episode (that is, your child has only ever been given breast milk). If caregiver responds that this statement is incorrect, then correct questions in Q55 to show what the child has received other than breastmilk).</i>			
	<input type="checkbox"/> Yes, caregiver confirmed that this child was exclusively breastfed up until this illness episode (<i>skip to Q59</i>)			
	<input type="checkbox"/> No, the caregiver stated this child was not exclusively breastfed until this illness episode and the child received 1 or more foods and/or fluids marked in Q55			
57.	<i>If answered "Yes" to one or more <u>fluids</u> defined in Q55 please ask the caregiver: Thinking about the time immediately before (or up until) this illness episode, how old was your child when they first had fluids other than breastmilk (such as water, tea, formula, or milk)?</i>			
	__ __ months (<i>if <10, put "0" before digit</i>) <input type="checkbox"/> Unknown			
58.	<i>If answered "Yes" to one or more <u>foods</u> defined in Q55 please ask the caregiver: Thinking about the time immediately before (or up until) this illness episode, how old was your child when they first had semi-solid or solid foods (such porridge, rice, or other foods)?</i>			
	__ __ months (<i>if <10, put "0" before digit</i>) <input type="checkbox"/> Unknown			
Immunization History				
59.	Is the child's immunization record available?			
	<input type="checkbox"/> Yes			

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		<input type="checkbox"/> No (<i>skip to Q62</i>)		
		<i>Note: If caregiver has access to the child's immunization record but did not bring the immunization record to the Enrollment Visit, please remind them to bring it to the Week 4 Follow Up Visit and information will be abstracted in Follow Up CRF (CRF 07)</i>		
60.	Using the immunization record, indicate how many doses of the following vaccines the child has received? (enter 0 if none, 9 if unknown. If a vaccine was given as part of a composite vaccine but not alone (e.g. measles as part of MMR or MR vaccine, mark "0" to the component (e.g. measles) and "1" to the composite (MMR))			
	Rotavirus vaccine	__	Bacille Calmette-Guerin (BCG)	__
	Polio vaccine (OPV or IPV)	__	Rubella vaccine	__
	Pentavalent vaccine (DPT+HiB+HBV)	__	HiB vaccine (Hemophilus influenzae)	__
	S. pneumococcus vaccine (PCV)	__	Hepatitis A vaccine	__
	Measles vaccine	__	Hepatitis B vaccine	__
	MR vaccine (measles+rubella)	__	Typhoid fever vaccine	__
	MMR vaccine (measles+mumps+rubella)	__	Varicella vaccine	__
	Yellow fever vaccine	__	Meningococcal A vaccine	__
	DPT vaccine (Diphtheria+pertussis+tetanus)	__	Malaria vaccine (RTS,S)	__
61.	How many doses of Vitamin A has the child received?		__ (<i>enter 9 if unknown</i>)	
	<i>REMINDER TO MALI, MALAWI, AND KENYA SITES ONLY: Please complete the HIV Information CRF (CRF 04c) before proceeding with the enrollment questions</i>			
G.	CAREGIVER INFORMATION (<i>Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff</i>)			
62.	What is the age of the accompanying caregiver?			
	__ __ years		<input type="checkbox"/> Unknown	
63.	What does the accompanying caregiver do for work on a typical day?			
	<input type="checkbox"/> Not employed	<input type="checkbox"/> Housewife	<input type="checkbox"/> Student	
	<input type="checkbox"/> Business (self-employed)	<input type="checkbox"/> Business (other employer)	<input type="checkbox"/> Professional (e.g. teacher, lawyer)	
	<input type="checkbox"/> Casual laborer	<input type="checkbox"/> Farmer	<input type="checkbox"/> Unknown	
	<input type="checkbox"/> Other (<i>specify</i>): _____			
64.	What is the highest level of formal schooling achieved by the child's mother?			
	<input type="checkbox"/> None	<input type="checkbox"/> Less than primary school	<input type="checkbox"/> Declined to answer	
	<input type="checkbox"/> Some secondary school	<input type="checkbox"/> Secondary school or greater	<input type="checkbox"/> Unknown	
	<input type="checkbox"/> Koranic school only	<input type="checkbox"/> Primary school only		
65.	What is the highest level of formal schooling achieved by the child's father?			
	<input type="checkbox"/> None	<input type="checkbox"/> Less than primary school	<input type="checkbox"/> Declined to answer	
	<input type="checkbox"/> Some secondary school	<input type="checkbox"/> Secondary school or greater	<input type="checkbox"/> Unknown	

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	<input type="checkbox"/> Koranic school only	<input type="checkbox"/> Primary school only	
H.	ADDITIONAL INFORMATION ON THE CHILD’S HOUSEHOLD ENVIRONMENT <i>(Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff)</i>		
<i>Household, Water, Sanitation, and Hygiene Information</i>			
66.	How many children under 5 years of age are living in the child’s household <i>(including this child)</i> ?		
	_ _ children under 5 years of age <i>(if <10, put “0” before digit)</i>		
67.	What is the main source of <u>drinking water</u> for the members of the household <i>(check one)</i>		
	<input type="checkbox"/> Piped water into dwelling	<input type="checkbox"/> Piped into compound/yard/plot	<input type="checkbox"/> Piped to neighbor
	<input type="checkbox"/> Public tap/standpipe	<input type="checkbox"/> Tube well or borehole	<input type="checkbox"/> Protected well
	<input type="checkbox"/> Unprotected well	<input type="checkbox"/> Water from spring (protected)	<input type="checkbox"/> Water from spring (unprotected)
	<input type="checkbox"/> Rainwater	<input type="checkbox"/> Tanker-truck	<input type="checkbox"/> Cart with small tank/drum
	<input type="checkbox"/> Water kiosk (filtered)	Water kiosk (un filtered)	<input type="checkbox"/> Bottled water
	<input type="checkbox"/> Sachet water	<input type="checkbox"/> Surface water (river/dam/lake/pond/canal/irrigation channel)	<input type="checkbox"/> Other <i>(specify)</i> : _____
68.	Does the household do anything to make the water safer to drink?		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No <i>(skip to Q70)</i>	<input type="checkbox"/> Unknown <i>(skip to Q70)</i>
69.	<i>If yes, what does the household usually do to make the water safer to drink? (Check all that apply)</i>		
	<input type="checkbox"/> Boil	<input type="checkbox"/> Add bleach/chlorine	<input type="checkbox"/> Solar disinfection
	<input type="checkbox"/> Let it stand and settle	<input type="checkbox"/> Strain through a cloth	<input type="checkbox"/> Filter (ceramic/sand/composite/LifeStraw)
	<input type="checkbox"/> Other, specify: _____		
70.	What is the source of the water that the household is (currently) using for <u>hygiene</u> (such as hand-washing, showering, or brushing teeth) or cooking? <i>(Check one)</i>		
	<input type="checkbox"/> Piped water into dwelling	<input type="checkbox"/> Piped into compound/yard/plot	<input type="checkbox"/> Piped to neighbor
	<input type="checkbox"/> Public tap/standpipe	<input type="checkbox"/> Tube well or borehole	<input type="checkbox"/> Protected well
	<input type="checkbox"/> Unprotected well	<input type="checkbox"/> Water from spring (protected)	<input type="checkbox"/> Water from spring (unprotected)
	<input type="checkbox"/> Rainwater	<input type="checkbox"/> Tanker-truck	<input type="checkbox"/> Cart with small tank/drum
	<input type="checkbox"/> Water kiosk (filtered)	<input type="checkbox"/> Water kiosk (unfiltered)	<input type="checkbox"/> Bottled water
	<input type="checkbox"/> Sachet water	<input type="checkbox"/> Surface water (river/dam/lake/pond/canal/irrigation channel)	<input type="checkbox"/> Other <i>(specify)</i> : _____
71.	Does the household do anything to make the water safer for hygiene and cooking?		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No <i>(skip to Q73)</i>	<input type="checkbox"/> Unknown <i>(skip to Q73)</i>
72.	<i>If yes, what does the household usually do to make the water safer for hygiene or cooking? (Check all that apply)</i>		
	<input type="checkbox"/> Boil	<input type="checkbox"/> Add bleach/chlorine	<input type="checkbox"/> Solar disinfection
	<input type="checkbox"/> Let it stand and settle	<input type="checkbox"/> Strain through a cloth	<input type="checkbox"/> Filter (ceramic/sand/composite/LifeStraw)
	<input type="checkbox"/> Other <i>(specify)</i> : _____		

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73.	What kind of toilet facility do members of the household usually use? <i>(Check one)</i>		
	<input type="checkbox"/> Flushed or pour flush to piped sewer system	<input type="checkbox"/> Flushed or pour flush to septic tank	<input type="checkbox"/> Flushed or pour flush to somewhere else
	<input type="checkbox"/> Flushed or pour flush, don't know where	<input type="checkbox"/> Ventilated improved pit latrine	<input type="checkbox"/> Pit latrine with slab floor
	<input type="checkbox"/> Pit latrine without slab floor	<input type="checkbox"/> Composting toilet	<input type="checkbox"/> Bucket toilet
	<input type="checkbox"/> Hanging toilet/hanging latrine	<input type="checkbox"/> Open defecation/bush/field	<input type="checkbox"/> Other <i>(specify)</i> : _____
74.	Does the household share this toilet facility with other households?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No <i>(skip to Q76)</i>		
75.	How many households use this toilet facility?	__ __ <i>(if <10, put "0" before digit)</i> <input type="checkbox"/> Unknown	
76.	<i>Please ask the caregiver verbally: When do you usually wash your hands? (check all that apply)</i>		
	<input type="checkbox"/> Before eating	<input type="checkbox"/> After handling domestic animals	
	<input type="checkbox"/> Before cooking	<input type="checkbox"/> After cleaning a child who defecated	
	<input type="checkbox"/> Before you nurse or prepare baby's food	<input type="checkbox"/> After you defecate	
	<input type="checkbox"/> Never <i>(skip to Q78)</i>	<input type="checkbox"/> Other <i>(specify)</i> : _____	
77.	When you wash your hands, what do you usually use?		
	<input type="checkbox"/> Water only	<input type="checkbox"/> Water and soap	
	<input type="checkbox"/> Water and ashes	<input type="checkbox"/> Water and mud or clay	
	<input type="checkbox"/> Other <i>(specify)</i> : _____		
<i>REMINDER: Please complete the Household Wealth CRF (CRF 04b-[site specific]) before proceeding with the enrollment questions</i>			
I. PRIOR CARESEEKING BEHAVIOR <i>(Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff)</i>			
78.	During this episode of diarrhea, did you seek any other medical care for your child before coming to the clinic today?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No <i>(skip to Q87)</i>		
79.	<i>If yes, where did you seek other medical treatment and how many times? (Not including the current clinic visit. Check all that were visited and report number of times visited. If <10, put "0" as first digit. If times visited unknown put "99")</i>		
	<input type="checkbox"/> Traditional healer	__ __ times	<input type="checkbox"/> Religious healer __ __ times
	<input type="checkbox"/> Drug seller	__ __ times	<input type="checkbox"/> Pharmacist __ __ times
	<input type="checkbox"/> Community health worker	__ __ times	<input type="checkbox"/> Health outpost __ __ times

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	<input type="checkbox"/> Health facility (outpatient care)	__ __ times	<input type="checkbox"/> Health facility (inpatient care)	__ __ times
	<input type="checkbox"/> Other (<i>specify</i>): _____ __ __ times			
80.	Did your child receive any tests prior to coming to clinic?			
	<input type="checkbox"/> Yes			
	<input type="checkbox"/> No (<i>skip to Q83</i>)			
81.	If yes, Please indicate from the list below which tests your child received when you sought care prior to coming to the health facility today?			
	<input type="checkbox"/> Stool culture	<input type="checkbox"/> Microscopy		
	<input type="checkbox"/> Rotavirus antigen test	<input type="checkbox"/> Cryptosporidium/giardia antigen test		
	<input type="checkbox"/> Other (<i>specify</i>): _____			
82.	If yes, Did you pay for any of the tests your child received?			
	<input type="checkbox"/> Yes, purchased one or more	<input type="checkbox"/> No, all were provided for free	<input type="checkbox"/> Don't know	
83.	Did your child receive any treatment(s) when you sought care prior to coming to clinic?			
	<input type="checkbox"/> Yes			
	<input type="checkbox"/> No (<i>skip to Q86</i>)			
84.	If yes, Please indicate from the list below which treatments your child received when you sought care prior to coming to the health facility today? (check all that apply)			
	<input type="checkbox"/> Oral rehydration solution (ORS)	<input type="checkbox"/> Zinc	<input type="checkbox"/> Anti-diarrheal	
	<input type="checkbox"/> RUSF or locally made supplementary food	<input type="checkbox"/> ReSoMal	<input type="checkbox"/> Anti-malarial	
	<input type="checkbox"/> Albendazole	<input type="checkbox"/> Mebendazole	<input type="checkbox"/> Metronidazole (Flagyl)	
	<input type="checkbox"/> Other 1 (<i>specify</i>): _____	<input type="checkbox"/> Other 2 (<i>specify</i>): _____		
	<input type="checkbox"/> Antibiotic(s) (<i>specify below, check all that apply</i>)			
	<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Ampicillin	<input type="checkbox"/> Augmentin/ Co-amoxiclav
	<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> Cefuroxime	<input type="checkbox"/> Cefixime
	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Clindamycin	<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> Cotrimoxazole (Septrin)
	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Erythromycin	<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Penicillin
	<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Streptomycin	<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Unknown
	<input type="checkbox"/> Other 1 (<i>specify</i>): _____	<input type="checkbox"/> Other 2 (<i>specify</i>): _____	<input type="checkbox"/> Other 3 (<i>specify</i>): _____	
85.	Did you purchase any of these treatments?			
	<input type="checkbox"/> Yes, purchased them		<input type="checkbox"/> No, they were provided for free	
	<input type="checkbox"/> No, received leftover medications from someone else		<input type="checkbox"/> Do not recall	
86.	Once you made the decision to seek care outside the household for your child, did you need to seek permission from someone?			

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		<input type="checkbox"/> Yes	
		<input type="checkbox"/> No (<i>skip to Q87</i>)	
	86a.	If yes, from whom (<i>check all that apply</i>):	
		<input type="checkbox"/> Head of household	<input type="checkbox"/> Other household member
		<input type="checkbox"/> Family member outside of the household	<input type="checkbox"/> Community leader
		<input type="checkbox"/> Religious leader	<input type="checkbox"/> Pharmacist or drug seller
		<input type="checkbox"/> Other (<i>specify</i>): _____	
J. INFORMATION ON COST OF VISIT AND TRANSPORTATION TO THE FACILITY (<i>Instructions to staff: Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff</i>)			
	87.	Approximately how much time did it take you and this child to get to the health facility today? (<i>if <10, put “0” before digit</i>)	
		_ _ days OR _ _ hours OR _ _ minutes <input type="checkbox"/> Don't know	
	88.	What method of transportation did you and your child use to travel to the facility? (<i>check all that apply</i>)	
		<input type="checkbox"/> Walked	<input type="checkbox"/> Motorbike
		<input type="checkbox"/> Private or shared car	<input type="checkbox"/> Other (<i>specify</i>): _____
		<input type="checkbox"/> Personal vehicle	<input type="checkbox"/> Shared van/bus/taxi
	89.	Approximately how much did you pay for your transportation to the clinic for this visit? (<i>If personal vehicle reported in Q88, include cost of gas; report cost numerically in local currency; if none, put “0”</i>)	
		_____ <input type="checkbox"/> Unknown	
K. FORM COMPLETION			
	90.	ID of person completing this form: _ _ _ _ _	Date form completed: _ _ - _ _ - 2 0 _ _ _ (<i>dd-mm-yyyy</i>)
	91.	ID of person reviewing this form: _ _ _ _ _	Date form reviewed: _ _ - _ _ - 2 0 _ _ _ (<i>dd-mm-yyyy</i>)
	92.	ID of person entering this form: _ _ _ _ _	Date form entered: _ _ - _ _ - 2 0 _ _ _ (<i>dd-mm-yyyy</i>)
	93.	ID of person conducting data verification: _ _ _ _	Date of data verification: _ _ - _ _ - 2 0 _ _ _ (<i>dd-mm-yyyy</i>)

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	<input type="checkbox"/> Yes, I am part of this child’s clinical team <input type="checkbox"/> No, I am abstracting this information from the child’s medical record
9.	Was oral rehydration solution (ORS) or ReSoMal (half strength ORS) administered during the visit?
	<input type="checkbox"/> Yes <input type="checkbox"/> No, child received other rehydration therapy (<i>skip to Q10</i>) <input type="checkbox"/> No, not necessary for this child (<i>skip to Q10</i>) <input type="checkbox"/> No, not available due to stock out (<i>skip to Q10</i>) <input type="checkbox"/> No, <i>specify</i> _____ (<i>skip to Q10</i>)
9a.	Type of oral rehydration initiated:
	<input type="checkbox"/> Low osmolarity ORS solution (Glucose: 75mmol, Sodium: 75 mmol, Chloride: 65mmol, Potassium: 20mmol)
	<input type="checkbox"/> icddr,b ORS solution (Sodium chloride: 1.3 g, Potassium chloride: 0.75 g, Sodium citrate: 1.45 g, Anhydrous Glucose: 6.75 g)
	<input type="checkbox"/> ReSoMal/Half-strength ORS (Glucose: 125mmol, Sodium: 45 mmol, Chloride: 70mmol, Potassium: 40mmol)
	<input type="checkbox"/> High osmolarity (original formulation) ORS (Glucose: 111mmol, Sodium:90 mmol, Chloride: 80mmol, Potassium: 20mmol)
	<input type="checkbox"/> Other (<i>specify type & composition</i>): _____
9b.	How was it administered: <input type="checkbox"/> Orally <input type="checkbox"/> Nasogastrically
9c.	Date ORS or ReSoMal initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of enrollment (<i>Q2</i>)
9d.	Time ORS or ReSoMal initiated: __ __ : __ __ (<i>hh : min, 24:00 hr</i>) <input type="checkbox"/> Unknown
9e.	Date ORS or ReSoMal completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of enrollment (<i>Q2</i>) <input type="checkbox"/> Continuing <input type="checkbox"/> Unknown
9f.	Time ORS or ReSoMal completed: __ __ : __ __ (<i>hh : min, 24:00 hr</i>) <input type="checkbox"/> Continuing <input type="checkbox"/> Unknown
9g.	Duration of in-facility ORS/ ReSoMal Treatment __ __ (hrs) (<i>Auto-generated from date/time of initiation to date/time of completion. If <10, put 0 before the last digit ie 4 hours would be “04”</i>)
9h.	<i>If answer to 9g is less than 4 hours: Why?</i>
	<input type="checkbox"/> Caregiver did not want to remain in the facility <input type="checkbox"/> Not enough space in the facility <input type="checkbox"/> Other (<i>specify</i>): _____
9i.	Total number of packets of ORS or ReSoMal offered to the child during visit: __ __ . __ <input type="checkbox"/> Unknown <input type="checkbox"/> Not applicable (ie packets not used)
9j.	What volume of water was each packet mixed with: __ __ __ __ mL (note standard is 1,000 mL) <input type="checkbox"/> Unknown
9k.	Total volume of ORS or ReSoMal <u>offered</u> to the child during the visit: __ __ __ __ mL (<i>autogenerated as # packets × volume water mixed with packet</i>)
9l.	Was there any mixed ORS/ReSoMal remaining that the child did not drink? <input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q9o</i>)

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	9m.	What volume was left over that the child did not drink?	__ __ __ __ mL <input type="checkbox"/> Unknown
	9n.	Total volume of ORS or ReSoMal <u>consumed</u> by the child during the visit:	__ __ __ __ mL (<i>autogenerated as volume offered – volume remaining or volume offered if none remained</i>)
	9o.	Was the ORS administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere?	
		<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Unknown	
10.		When the child was ready to leave or was discharged, was the child instructed to continue oral rehydration treatment at home?	
		<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q11</i>)	
		<i>If yes, please provide counseling to the caregiver on how to prepare and deliver the ORS</i>	
	10a.	How many packets of at-home ORS were prescribed?	__ __ . __ packets (<i>half packets can be indicated with “.5”</i>) <input type="checkbox"/> Unknown <input type="checkbox"/> Not applicable (i.e. packets not used)
	10b.	Was the prescribed ORS/ReSoMal for the discharge period provided by the health facility (free of charge), or does the caregiver need to buy the ORS/ReSoMal at the health facility or elsewhere?	
		<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Unknown	
11.		Was IV rehydration administered during the visit?	
		<input type="checkbox"/> Yes <input type="checkbox"/> No, contraindication (<i>skip to Q12</i>) <input type="checkbox"/> No, child received other rehydration therapy (<i>skip to Q12</i>) <input type="checkbox"/> No, not necessary for this child (<i>skip to Q12</i>) <input type="checkbox"/> No, not available due to stock out (<i>skip to Q12</i>) <input type="checkbox"/> No, <i>specify</i> : _____ (<i>skip to Q12</i>)	
	11a.	Type of IV (<i>check all administered</i>): <input type="checkbox"/> Normal saline <input type="checkbox"/> Dextrose <input type="checkbox"/> Ringer’s lactate solution <input type="checkbox"/> Cholera saline <input type="checkbox"/> Other (<i>specify</i>): _____	
	11b.	Date IV rehydration initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of enrollment (<i>Q2</i>)	
	11c.	Time IV rehydration initiated: __ __ : __ __ (<i>hh : min, 24:00 hr</i>) <input type="checkbox"/> Unknown	
	11d.	Date IV rehydration completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of enrollment (<i>Q2</i>)	

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	11e.	Time IV rehydration completed: __ __ : __ __ (hh : min, 24:00 hr) <input type="checkbox"/> Continuing <input type="checkbox"/> Unknown
	11f.	Duration of IV rehydration __ __ (hrs) (Auto-generated from date/time of initiation to date/time of completion. If <10, put 0 before the last digit ie 4 hours would be "04")
	11g.	Size of one IV bag: __ __ __ __ mL (if between 1-999, put "0999") If multiple IVs were administered, report volume of the average of all IVs administered.
	11h.	Total number of IV bags received: __ . __ <input type="checkbox"/> Unknown (indicate half bag with ".5")
	11i.	Total volume administered during visit: __ __ __ __ mL (Auto-generated as # bags x volume of each bag but can be edited by staff. If between 1-999, put "0999") <input type="checkbox"/> Unknown
	11j.	Was the IV(s) administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere? (check all that apply if multiple IVs administered) <input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown
	12.	Was zinc supplementation administered during the visit? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q13)
	12a.	Date zinc initiated: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Same as date of enrollment (Q2)
	12b.	Date zinc completed: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Same as date of enrollment (Q2) <input type="checkbox"/> Continuing <input type="checkbox"/> Unknown
	12c.	Amount of zinc administered per day during facility visit: __ __ mg per day <input type="checkbox"/> Unknown (If child vomited after receiving zinc and another dose was administered consider only the post-vomit dose)
	12d.	Was the zinc administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere? <input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown
	13.	When the child was ready to leave or was discharged, was the child instructed to take zinc at home? <input type="checkbox"/> Yes <input type="checkbox"/> No, contraindicated (skip to Q14) <input type="checkbox"/> No, received other nutritional product (skip to Q14) <input type="checkbox"/> No, not necessary for this child (skip to Q14) <input type="checkbox"/> No, not available due to stock out (skip to Q14) <input type="checkbox"/> No, other reason (specify): _____ (skip to Q14)
	13a.	What was the prescribed daily dose of at-home zinc supplementation? __ __ mg <input type="checkbox"/> Unknown
	13b.	What was the prescribed duration of at-home zinc supplementation? __ __ days <input type="checkbox"/> Unknown

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13c.	Was the prescribed zinc for the discharge period provided by the health facility (free of charge) or does the caregiver need to buy the zinc either at the health facility or elsewhere?
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Unknown

14.	Were supplementary or therapeutic foods administered during the visit?
	<input type="checkbox"/> Yes (<i>skip to Q16</i>) <input type="checkbox"/> No (<i>skip to Q18</i>) <input type="checkbox"/> Unknown

15.	<i>If Unknown, why?</i>
	<input type="checkbox"/> Malnutrition management is handled by a separate unit & records are not available (<i>skip to Q18</i>) <input type="checkbox"/> Other (<i>specify</i>): _____ (<i>skip to Q18</i>)

16. *Rows below refer to supplementary or therapeutic foods and micronutrients administered during the facility visit*

Name (<i>check box if administered</i>)	Date initiated (<i>dd-mm-yyyy</i>)	Daily dose administered during facility visit (<i>circle unit</i>)	Date completed (<i>dd-mm-yyyy</i>)
<input type="checkbox"/> F75 (<i>in-patient cases only</i>)	__ __ - __ __ - 2 0 __ __	_____ mL <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __
<input type="checkbox"/> F100 (<i>in-patient cases only</i>)	__ __ - __ __ - 2 0 __ __	_____ mL <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __
<input type="checkbox"/> RUSF	__ __ - __ __ - 2 0 __ __	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
<input type="checkbox"/> RUTF	__ __ - __ __ - 2 0 __ __	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
<input type="checkbox"/> RUSF (locally made)	__ __ - __ __ - 2 0 __ __	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
<input type="checkbox"/> RUTF (locally made)	__ __ - __ __ - 2 0 __ __	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
<input type="checkbox"/> Multiple micronutrients	__ __ - __ __ - 2 0 __ __	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing

17.	Were the foods or micronutrients administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere? (<i>check all that apply if multiple treatments administered</i>)
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Unknown

18.	When the child was ready to leave or was discharged, was the child instructed to take supplementary or therapeutic foods or micronutrients at home?
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Yes
 No (*skip to Q21*)

19. Rows below refer to supplementary or therapeutic foods or micronutrients prescribed for the discharge period

Name (check box if prescribed)	Daily dose prescribed for the discharge period (circle unit)	Prescribed duration (if <10, put "0" before digit)
<input type="checkbox"/> RUSF	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
<input type="checkbox"/> RUTF	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
<input type="checkbox"/> RUSF (locally made)	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
<input type="checkbox"/> RUTF (locally made)	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
<input type="checkbox"/> Multiple micronutrients	_____ (mg/gram/sachet) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown

20. Was/were the prescribed foods/micronutrients for the discharge period provided by the health facility (free of charge) or does the caregiver need to buy the foods either at the health facility or elsewhere? (*check all that apply if multiple treatments prescribed*)

- Provided free by facility or national health insurance
 Provided by EFGH
 Caregiver needed/needs to buy it either at the health facility or elsewhere
 Other (*specify*): _____
 Unknown

21. Were antibiotics administered during the visit? Yes
 No (*skip to Q24*)

22. Rows below refer to antibiotics administered during the facility visit

Name (check box if administered)	Route of administration (check one)	Date initiated (dd-mm-yyyy)	mg	Frequency/day (check one)	Date completed (dd-mm-yyyy)
<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>): _____					
<input type="checkbox"/> Azithromycin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>): _____					
<input type="checkbox"/> Ampicillin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>): _____					
<input type="checkbox"/> Augmentin/Co-amoxiclav	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	__ __ - __ __ - 2 0 __ __ <input type="checkbox"/> Continuing

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	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Cefixime	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Cefuroxime	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Clindamycin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Cotrimoxazole/ Septrin/trimethoprim-sulfamethoxazole	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Doxycycline	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Erythromycin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____
<input type="checkbox"/> Gentamicin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM _____ - _____ <input type="checkbox"/> Other (specify): - 2 0 _____ _____ mg <input type="checkbox"/> Unknown <input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____ _____ - _____ - 2 0 _____ <input type="checkbox"/> Continuing
	Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (specify) _____

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	<input type="checkbox"/> Other (<i>specify</i>) _____				
<input type="checkbox"/> Metronidazole (Flagyl)	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Penicillin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Streptomycin	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Tetracycline	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Other1 (<i>specify</i>): _____	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Other2 (<i>specify</i>): _____	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
<input type="checkbox"/> Other3 (<i>specify</i>): _____	<input type="checkbox"/> IV <input type="checkbox"/> Oral <input type="checkbox"/> IM <input type="checkbox"/> Other (<i>specify</i>): _____	_ _ _ - _ _ _ - 2 0 _ _ _	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other: _____	_ _ _ - _ _ _ - 2 0 _ _ _ <input type="checkbox"/> Continuing
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____					
23.	Were the antibiotics administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy them either at the health facility or elsewhere? (<i>check all that apply if multiple antibiotics administered</i>)				
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Unknown				
24.	When the child was ready to leave or was discharged, was the child instructed to take antibiotics at home?				

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- Yes
 No (*skip to Q27*)

25. *Rows below refer to antibiotics prescribed for the discharge period*

Name (<i>check box if prescribed</i>)	mg	Frequency/day (<i>check one</i>)	Prescribed duration (<i>if <10, put "0" before digit</i>)
<input type="checkbox"/> Amoxicillin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Azithromycin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Ampicillin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Augmentin/Co-amoxiclav	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Cefixime	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Ceftriaxone	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Ciprofloxacin (Cipro)	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Cefuroxime	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Clarithromycin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Clindamycin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Chloramphenicol	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____			
<input type="checkbox"/> Cotrimoxazole/ Septrin/ trimethoprim-sulfamethoxazole	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	_ _ days <input type="checkbox"/> Unknown
Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition			

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		<input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Doxycycline	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Erythromycin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Gentamicin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Metronidazole (Flagyl)	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Penicillin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Pyrazinamide	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Streptomycin	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Tetracycline	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Other1 (<i>specify</i>): _____	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Other2 (<i>specify</i>): _____	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
	<input type="checkbox"/> Other3 (<i>specify</i>): _____	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> 1x <input type="checkbox"/> 2x <input type="checkbox"/> 3x <input type="checkbox"/> 4x Other (<i>specify</i>): _____	__ __ days <input type="checkbox"/> Unknown
		Indication: <input type="checkbox"/> Diarrhea <input type="checkbox"/> Dysentery <input type="checkbox"/> Sepsis. <input type="checkbox"/> Lower respiratory infection <input type="checkbox"/> Malnutrition <input type="checkbox"/> Other (<i>specify</i>) _____		
26.	Was/were the prescribed antibiotics for the discharge period provided by the health facility (free of charge) or does the caregiver need to buy the antibiotics either at the health facility or elsewhere? (<i>check all that apply if multiple antibiotics prescribed</i>)			
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (<i>specify</i>): _____			

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	<input type="checkbox"/> Unknown																				
27.	Was an anti-helminth initiated during the visit? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q30)																				
28.	<i>Rows below refer to anti-helminth administered during the facility visit</i>																				
	<table border="1"> <thead> <tr> <th>Name (check box if administered)</th> <th>Date initiated (dd-mm-yyyy)</th> <th>mg</th> <th>Frequency</th> <th>Date completed (dd-mm-yyyy)</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Albendazole</td> <td> __ __ - __ __ - 2 0 __ __ </td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td><input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____</td> <td> __ __ - __ __ - 2 0 __ __ </td> </tr> <tr> <td><input type="checkbox"/> Mebendazole</td> <td> __ __ - __ __ - 2 0 __ __ </td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td><input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____</td> <td> __ __ - __ __ - 2 0 __ __ </td> </tr> <tr> <td><input type="checkbox"/> Other (specify): _____</td> <td> __ __ - __ __ - 2 0 __ __ </td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td><input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____</td> <td> __ __ - __ __ - 2 0 __ __ </td> </tr> </tbody> </table>	Name (check box if administered)	Date initiated (dd-mm-yyyy)	mg	Frequency	Date completed (dd-mm-yyyy)	<input type="checkbox"/> Albendazole	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __	<input type="checkbox"/> Mebendazole	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __	<input type="checkbox"/> Other (specify): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __
Name (check box if administered)	Date initiated (dd-mm-yyyy)	mg	Frequency	Date completed (dd-mm-yyyy)																	
<input type="checkbox"/> Albendazole	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __																	
<input type="checkbox"/> Mebendazole	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __																	
<input type="checkbox"/> Other (specify): _____	__ __ - __ __ - 2 0 __ __	_____ mg <input type="checkbox"/> Unknown	<input type="checkbox"/> Hourly <input type="checkbox"/> Daily <input type="checkbox"/> Other(specify): _____	__ __ - __ __ - 2 0 __ __																	
29.	Were the anti-helminths administered during the facility visit provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere? (check all that apply if multiple anti-helminths administered)																				
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown																				
30.	When the child was ready to leave or was discharged, was the child instructed to take anti-helminths at home? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q33)																				
31.	<i>Rows below refer to anti-helminths prescribed for the discharge period</i>																				
	<table border="1"> <thead> <tr> <th>Name (check box if prescribed)</th> <th>Dose prescribed for the discharge period</th> <th>Prescribed duration (if <10, put "0" before digit)</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Albendazole</td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td> __ __ days <input type="checkbox"/> Unknown</td> </tr> <tr> <td><input type="checkbox"/> Mebendazole</td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td> __ __ days <input type="checkbox"/> Unknown</td> </tr> <tr> <td><input type="checkbox"/> Other(specify): _____</td> <td>_____ mg <input type="checkbox"/> Unknown</td> <td> __ __ days <input type="checkbox"/> Unknown</td> </tr> </tbody> </table>	Name (check box if prescribed)	Dose prescribed for the discharge period	Prescribed duration (if <10, put "0" before digit)	<input type="checkbox"/> Albendazole	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown	<input type="checkbox"/> Mebendazole	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown	<input type="checkbox"/> Other(specify): _____	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown								
Name (check box if prescribed)	Dose prescribed for the discharge period	Prescribed duration (if <10, put "0" before digit)																			
<input type="checkbox"/> Albendazole	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown																			
<input type="checkbox"/> Mebendazole	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown																			
<input type="checkbox"/> Other(specify): _____	_____ mg <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown																			
32.	Was/were the prescribed anti-helminths for the discharge period provided by the health facility (free of charge) or does the caregiver need to buy the anti-helminths either at the health facility or elsewhere? (check all that apply if multiple anti-helminths prescribed)																				
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere																				

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	<input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown																																																							
33.	Were any other treatments given during the facility visit and/or prescribed (excluding analgesics)?																																																							
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q36)																																																							
34.	Rows below refer to treatments administered during the facility visit and/or prescribed for the discharge period. No need to record analgesics (paracetamol), blood transfusions, probiotics etc.																																																							
	<table border="1"> <thead> <tr> <th>Treatment (check box if administered or prescribed)</th> <th colspan="2">Administered during visit</th> <th colspan="2">Prescribed at discharge</th> </tr> </thead> <tbody> <tr> <td colspan="5"><u>Antimalarial</u></td> </tr> <tr> <td><input type="checkbox"/> Artemether lumefantrine</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Paludrine</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Artesunate</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Quinine</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Proguanil</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td colspan="5"><u>Other treatments (excluding analgesics, including blood transfusion, probiotics)</u></td> </tr> <tr> <td><input type="checkbox"/> Other 1 (specify): _____</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Other 2 (specify): _____</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> <tr> <td><input type="checkbox"/> Other 3 (specify): _____</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> <td><input type="checkbox"/> Yes</td> <td><input type="checkbox"/> No</td> </tr> </tbody> </table>	Treatment (check box if administered or prescribed)	Administered during visit		Prescribed at discharge		<u>Antimalarial</u>					<input type="checkbox"/> Artemether lumefantrine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Paludrine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Artesunate	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Quinine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Proguanil	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Other treatments (excluding analgesics, including blood transfusion, probiotics)</u>					<input type="checkbox"/> Other 1 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other 2 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Other 3 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Treatment (check box if administered or prescribed)	Administered during visit		Prescribed at discharge																																																					
<u>Antimalarial</u>																																																								
<input type="checkbox"/> Artemether lumefantrine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Paludrine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Artesunate	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Quinine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Proguanil	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<u>Other treatments (excluding analgesics, including blood transfusion, probiotics)</u>																																																								
<input type="checkbox"/> Other 1 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Other 2 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
<input type="checkbox"/> Other 3 (specify): _____	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																				
35.	Were any of the treatments prescribed for the discharge period provided by the health facility (free of charge) or did the caregiver need to buy it either at the health facility or elsewhere? (check all that apply if multiple treatments prescribed)																																																							
	<input type="checkbox"/> Provided free by facility or national health insurance <input type="checkbox"/> Provided by EFGH <input type="checkbox"/> Caregiver needed/needs to buy it either at the health facility or elsewhere <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown																																																							

E. FORM COMPLETION

36.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
37.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
38.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
39.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (Bangladesh)

Purpose: To collect household wealth information at the Bangladesh site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Bangladesh EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **Does your household have a television?** Yes No
2. **Does your household have a refrigerator?** Yes No
3. **Does your household have an almirah/wardrobe?** Yes No
4. **Does your household have an electric fan?** Yes No
5. **What is the main material of the floor? (select one)**
 Cement Earth/sand
 Other material
6. **What is the main material of the exterior walls? (select one)**
 Cement Other material
7. **What is the main material of the roof? (select one)**
 Cement Other material

B. ADDITIONAL QUESTIONS

8. **Does your household have an oven?** Yes No
9. **Does your household have a motor bike?** Yes No
10. **Does your household have a car?** Yes No
11. **Does your household have an AC?** Yes No
12. **Does your household have a sewing machine?** Yes No
13. **Does your household have a bi-cycle?** Yes No
14. **Does your household have a dining table?** Yes No
15. **Does your household have a sofa?** Yes No
16. **Does your household have a radio?** Yes No

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (Bangladesh)

17. **Household ownership?**

- Own Rented
 Occupied

18. **Source of drinking water**

- | | |
|---|--|
| <input type="checkbox"/> Own tap | <input type="checkbox"/> Communal hand pump |
| <input type="checkbox"/> Own tube well | <input type="checkbox"/> Bottled water |
| <input type="checkbox"/> Own well | <input type="checkbox"/> Water vendor |
| <input type="checkbox"/> Own hand pump | <input type="checkbox"/> Stored in reservoir |
| <input type="checkbox"/> Communal tap | <input type="checkbox"/> Pond/canal/river |
| <input type="checkbox"/> Communal tube well | <input type="checkbox"/> Shared tap/tube well/well in HH |
| <input type="checkbox"/> Others | |

19. **Shared latrine**

- Yes No

20. **Latrine type**

- | | |
|---|---|
| <input type="checkbox"/> Sanitary latrine with flush | <input type="checkbox"/> Sanitary latrine without flush |
| <input type="checkbox"/> Non-sanitary/no water seal latrine | <input type="checkbox"/> No latrine/use open space |

C. FORM COMPLETION

21. ID of person completing this form: |__|__|__|

Date form completed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

22. ID of person reviewing this form: |__|__|__|

Date form reviewed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

23. ID of person entering this form: |__|__|__|

Date form entered:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

24. ID of person conducting data verification: |__|__|__|

Date of data verification:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (The Gambia)

Purpose: To collect household wealth information at The Gambia site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at The Gambia EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

DETERMINE IF THE RESPONDENT LIVES IN AN URBAN OR RURAL AREA

Urban

Rural

1. **Does your household have a sofa?**

Yes No

2. **Does your household have a wardrobe?**

Yes No

3. **Does your household have a television?**

Yes No

4. **Does your household have a refrigerator?**

Yes No

5. **Does your household have a DVD / VCD player?**

Yes No

6. **Does your household have a satellite dish?**

Yes No

7. **Does any member of your household own: a bicycle?**

Yes No

8. **What is the main source of drinking water for members of your household? (*select one*)**

Public tap / Standpipe

Other water source

Piped to yard

9. **What kind of toilet facility do members of your household usually use?**

Flush to septic tank

Other toilet type

Pit latrine w/o slab/ Open Pit

10. **What is the main material of the floor in your household? (*select one*)**

Ceramic tile

Other floor material

11. **What is the main material of the exterior walls of your household? (*select one*)**

Ceramic tile

Other wall material

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (The Gambia)**

12. How many of the following animals does your household own: Cattle? None 1 or more
13. ... Milk cows or bulls? None 1 or more
14. ... Horses, donkeys, or mules? None 1 or more. 5 or more
15. ... Goats? None 1 or more
16. ... Sheep? None 1 or more

B. ADDITIONAL QUESTIONS

17. Does your household have a functioning television? Yes No
18. Does your household have a functioning radio? Yes No
19. Does your household have a functioning refrigerator/fridge? Yes No
20. Does any member of your household own: a functioning motorcycle/scooter? Yes No
21. Does your household have functioning animal-drawn cart? Yes No
22. What is the main material of the roof in your household? (*select one*)
- Thatch/Palm leaf Metal/Tin/Cement
- Other roof material
23. Does your household own any chicken, Guinea fowl, ducks, turkeys or geese? Yes No

C. FORM COMPLETION

- | | |
|---|--|
| 24. ID of person completing this form: __ __ __ | Date form completed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 25. ID of person reviewing this form: __ __ __ | Date form reviewed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 26. ID of person entering this form: __ __ __ | Date form entered:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 27. ID of person conducting data verification:
 __ __ __ | Date of data verification:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (Kenya)

Purpose: To collect household wealth information for participants enrolled at the Kenya site.

Instructions: Please complete this form for all participants enrolled at the Kenya EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **Does your household have electricity?** Yes No (*skip Q14*)
2. **Does your household have a television?** Yes No (*skip Q15*)
3. **Does your household have a sofa?** Yes No
4. **Does your household have a cupboard?** Yes No
5. **Does your household have a DVD player?** Yes No (*skip Q16*)
6. **Does your household have a radio?** Yes No (*skip Q17*)
7. **Does your household have a table?** Yes No
8. **Does your household have a clock?** Yes No (*skip Q18*)
9. **What is the main material of the floor of your dwelling? (select one)**
 Cement Other
 Earth/sand
10. **What is the main material of the external walls of your dwelling? (select one)**
 Dung/mud/soil Other
11. **What is the main material of the roof of your dwelling? (select one)**
 Thatch/grass/makuti Other
12. **What type of fuel does your household mainly use for cooking? (select one)**
 Wood Other
 LPG/Natural gas
13. **What kind of toilet facility do members of your household usually use? (select one)**
 No facility/bush/field Other

B. ADDITIONAL QUESTIONS

14. **Does your household have a functioning electricity?** Yes No
15. **Does your household have a functioning television?** Yes No
16. **Does your household have a functioning DVD player?** Yes No
17. **Does your household have a functioning radio?** Yes No
18. **Does your household have a functioning clock?** Yes No

C. FORM COMPLETION

19. ID of person completing this form: |__|__|__| Date form completed: |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)

Implementing Institution Name/Country Site

CRF 04b— Wealth Index Form (Kenya)

20. ID of person reviewing this form: |__|__|__| Date form reviewed:
|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)
21. ID of person entering this form: |__|__|__| Date form entered:
|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)
22. ID of person conducting data verification: Date of data verification:
|__|__|__| |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b — Wealth Index Form (Malawi)

Purpose: To collect household wealth information at the Malawi site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Malawi EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **Does your household have electricity?** Yes No
2. **Does your household have a radio?** Yes No
3. **Does your household have a television?** Yes No
4. **Does your household have a bed with a mattress?** Yes No
5. **Does your household have a sofa?** Yes No
6. **Does any member of this household own a mobile phone?** Yes No
7. **Does any member of this household have a bank account?** Yes No
8. **What is the main material of the floor in your household? (select one)**
 Earth/sand Cement
 Other floor material
9. **What is the main material of the roof in your household? (select one)**
 Thatch/palm leaf Metal
 Other roof material
10. **What type of fuel does your household mainly use for cooking? (select one)**
 Wood Other type of fuel

B. FORM COMPLETION

- | | |
|---|--|
| 11. ID of person completing this form: __ __ __ | Date form completed:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) |
| 12. ID of person reviewing this form: __ __ __ | Date form reviewed:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) |
| 13. ID of person entering this form: __ __ __ | Date form entered:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) |
| 14. ID of person conducting data verification:
 __ __ __ | Date of data verification:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b – Wealth Index Form (Mali)

Purpose: To collect household wealth information at the Mali site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Mali EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **In your house, do you have electricity?** Yes No
2. **In your house, do you have a television?** Yes No
3. **In your house, do you have a bed?** Yes No
4. **In your house, do you have a fan?** Yes No
5. **In your house, do you have a cupboard** Yes No
6. **In your house, do you have a CD/DVD player?** Yes No
7. **In your house, do you have a refrigerator?** Yes No
8. **In your house, do you have a chair?** Yes No
9. **In your house, do you have a motorcycle or scooter?** Yes No
10. **In your house, do you have soap, washing powder, or ash/sand/dirt for washing your hands?** Yes No
11. **Does any member of this household have a bank account?** Yes No Don't know
12. **Where is your principal source of drinking water located? (select one)**
 Outside of the plot Within the plot
13. **What is the distance to the principal source of drinking water? (select one)**
 Less than 30 minutes round trip More than 30 minutes round trip
14. **Main material of exterior walls of the house? (select one)**
 Brick Other
15. **Main material of roof of house? (select one)**
 Cement Mud with wood
 Other

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b – Wealth Index Form (Mali)

16. **Main material of floor of house?** (*select one*)

Earth/sand floor

Ceramic tile floor

Other

17. **In your house, what is the main fuel used for cooking?** (*select one*)

Charcoal

Wood

Other

18. **Does your household own any pigs?**

Yes No

19. **Does your household own any camels or dromedaries?**

Yes No

20. **Does your household own any Guinea fowl, ducks, turkeys or geese?**

Yes No

B. FORM COMPLETION

21. ID of person completing this form: |__|__|__|

Date form completed:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

22. ID of person reviewing this form: |__|__|__|

Date form reviewed:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

23. ID of person entering this form: |__|__|__|

Date form entered:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

24. ID of person conducting data verification:

Date of data verification:

|__|__|__|

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (Pakistan)

Purpose: To collect household wealth information at the Pakistan site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Pakistan EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **Does your household have a refrigerator?** Yes No
2. **Does your household have a washing machine?** Yes No
3. **Does your household have a sofa?** Yes No
4. **Does your household have a chair?** Yes No
5. **Does your household have an Almirah/cabinet?** Yes No
6. **Does your household have a computer?** Yes No
7. **Does your household have an internet connection?** Yes No
8. **Does your household have a bed?** Yes No
9. **Does any member of this household have a bank account?** Yes No
10. **What type of fuel does your household mainly use for cooking? (select one)**
 Wood Other
11. **What is the main material of the roof in your household? (select one)**
 Cement/RCC Other
12. **What is the main material of the walls in your household? (select one)**
 Cement Other

B. FORM COMPLETION

- | | |
|---|--|
| <ol style="list-style-type: none"> 13. ID of person completing this form: __ __ __ 14. ID of person reviewing this form: __ __ __ 15. ID of person entering this form: __ __ __ 16. ID of person conducting data verification: __ __ __ | <p>Date form completed:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)</p> <p>Date form reviewed:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)</p> <p>Date form entered:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)</p> <p>Date of data verification:
 __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)</p> |
|---|--|

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04b— Wealth Index Form (Peru)

Purpose: To collect household wealth information at the Peru site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Peru EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

Participant ID: |__|__|__|__|__|__|__|

A. WEALTH INDEX

1. **Does your household have a computer?** Yes No
2. **Does your household have a bookshelf?** Yes No
3. **Does your household have windows with curtains or blinds?** Yes No
4. **Does your household have a sofa?** Yes No
5. **What type of toilet does your household use? (select one)**
 Indoor connected to public sewer Other
6. **What type of material is the roof made of in your household? (select one)**
 Reinforced concrete Other
7. **What type of material are the walls made of in your household? (select one)**
 Brick or cement block Other

B. FORM COMPLETION

- | | |
|---|--|
| 8. ID of person completing this form: __ __ __ | Date form completed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 9. ID of person reviewing this form: __ __ __ | Date form reviewed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 10. ID of person entering this form: __ __ __ | Date form entered:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 11. ID of person conducting data verification:
 __ __ __ | Date of data verification:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04c— HIV Information Form

8.	Is there a viral load result available for the mother?
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q9</i>)
8a.	<i>If yes</i> , number of copies at most recent test: _____ copies/mL. <input type="checkbox"/> Undetectable
8b.	<i>If yes</i> , date of most recent viral load test: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
9.	Is there a CD4 count or percentage available for the mother?
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q10</i>)
9a.	<i>If yes</i> , CD4: __ __ percent <u>OR</u> __ __ __ __ count
9b.	<i>If yes</i> , date of CD4 test: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
10.	Is the mother currently receiving highly active anti-retroviral therapy (HAART)?
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q12</i>) <input type="checkbox"/> Unknown (<i>skip to Q12</i>) <input type="checkbox"/> Declined to state (<i>skip to Q12</i>)
11.	<i>If yes</i> , date initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
12.	Is the mother currently receiving infection prophylaxis with cotrimoxazole (Septrin)?
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q13</i>)
12a.	<i>If yes</i> , date initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
C.	HIV INFORMATION, CHILD (<i>To be completed if the child if the biological mother is HIV-infected or HIV status unknown</i>)
13.	What is the source of information on the child's most recent HIV status?
	<input type="checkbox"/> A rapid test done at the clinic during the enrollment visit (<i>complete remaining questions when results are available</i>) <input type="checkbox"/> A PCR test done at the clinic during the enrollment visit (<i>complete remaining questions when results are available</i>) <input type="checkbox"/> Previous laboratory report <input type="checkbox"/> Previous hospital record <input type="checkbox"/> Child health passport, MCH booklet, or other similar document <input type="checkbox"/> Verbal report from the caregiver <input type="checkbox"/> Not applicable (results not known and testing not being performed)
14.	What is the child's HIV status? <i>Reminder to offer HIV testing in accordance with guidelines and record result here.</i>
	<input type="checkbox"/> Negative or non-reactive (<i>skip to Q17</i>) <input type="checkbox"/> Positive or reactive <input type="checkbox"/> Unknown (<i>skip to 17</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04c— HIV Information Form

15.	Is there a viral load result available for this child?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q16</i>)	
	15a.	<i>If yes</i> , number of copies at most recent test: _____ copies/mL. <input type="checkbox"/> Undetectable
	15b.	<i>If yes</i> , date of most recent viral load test: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of enrollment (<i>Q2</i>) <input type="checkbox"/> Unknown
16.	Is there a CD4 count or percentage available for this child?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q17</i>)	
	16a.	<i>If yes</i> , most recent CD4 result: __ __ percent <u>OR</u> __ __ __ __ count
	16b.	<i>If yes</i> , date of most recent CD4 test: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
17.	Is the child currently receiving any of the following:	
	<input type="checkbox"/> Highly active anti-retroviral therapy (HAART) or anti-retroviral therapy (ART) for treatment (<i>known HIV-infected children</i>) <input type="checkbox"/> Anti-retroviral (ARV) prophylaxis for prevention of HIV <input type="checkbox"/> None (<i>skip to Q18</i>) <input type="checkbox"/> Unknown (<i>skip to Q18</i>)	
	17a.	<i>If yes</i> , date initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown
18.	Is the child currently receiving infection prophylaxis with cotrimoxazole (Septrin)?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Section C</i>) <input type="checkbox"/> Unknown (<i>skip to Section C</i>)	
	18a.	<i>If yes</i> , date initiated: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Unknown

D. FORM COMPLETION

19.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
20.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
21.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
22.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04d— Daily Record (For Participants with Overnight Stays Only)

		<input type="checkbox"/> Normal (<i>skip to Q13</i>)	<input type="checkbox"/> Abnormally sunken	<input type="checkbox"/> Missing (<i>skip to Q13</i>)
	11a.	If child's eyes are determined to be abnormally sunken, please ask the caregiver: Is the appearance of your child's eyes abnormal?		
		<input type="checkbox"/> Yes (<i>abnormal for child</i>)		
		<input type="checkbox"/> No		
13.	Describe the child's ability to drink or breastfeed:			
		<input type="checkbox"/> Normal/Not Thirsty	<input type="checkbox"/> Drinks eagerly/Thirsty	<input type="checkbox"/> Drinks poorly/Unable to drink
				<input type="checkbox"/> Missing
14.	Using a thumb and forefinger, gently pinch up the child's skin on the abdominal wall and assess the skin's return to normal:			
		<input type="checkbox"/> Immediately	<input type="checkbox"/> 1 to <2 seconds (slowly)	<input type="checkbox"/> ≥2 seconds (very slowly)
				<input type="checkbox"/> Missing
15.	Dehydration assessment (<i>to be completed based on data in Q10-Q14 above</i>)			
		<input type="checkbox"/> <u>Severe dehydration</u> At least two of the following signs (<i>check all that apply</i>): <input type="checkbox"/> Lethargic or Unconscious <input type="checkbox"/> Sunken eyes <input type="checkbox"/> Drinks poorly/unable to drink <input type="checkbox"/> Skin pinch goes back ≥2 seconds (very slowly)	<input type="checkbox"/> <u>Some dehydration</u> At least two of the following signs (<i>check all that apply</i>): <input type="checkbox"/> Restless/irritable <input type="checkbox"/> Sunken eyes <input type="checkbox"/> Drinks eagerly/Thirsty <input type="checkbox"/> Skin pinch goes back 1 to <2 seconds (slowly)	<input type="checkbox"/> <u>No dehydration</u>
				<input type="checkbox"/> Could not be determined based on information available
D. CLINICAL EVENTS IN THE LAST 24 HOURS (MEDICAL RECORDS AND/OR CAREGIVER INTERVIEW)				
16.	What is the source of the information?	<input type="checkbox"/> Medical record <input type="checkbox"/> Caregiver report		
17.	Number of unusually loose or watery stools passed in last 24 hours	_ _ _ (if <10, put "0" before digit) <input type="checkbox"/> Missing		
18.	Of the unusually loose or watery stools passed in the last 24 hours, how many had visible blood in them?	_ _ _ (if <10, put "0" before digit) <input type="checkbox"/> Missing		
19.	Number of vomiting episodes in last 24 hours	_ _ _ (if <10, put "0" before digit) <input type="checkbox"/> Missing		
<i>REMINDER: Record any therapies initiated/completed in the Medical Management Form [CRF 04a] on a daily basis</i>				
E. FORM COMPLETION				
20.	ID of person completing this form: _ _ _ _	Date form completed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
21.	ID of person reviewing this form: _ _ _ _	Date form reviewed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
22.	ID of person entering this form: _ _ _ _	Date form entered: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
23.	ID of person conducting data verification: _ _ _ _	Date of data verification: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04e— Referral Form

	<input type="checkbox"/> Unknown	<input type="checkbox"/> Other (<i>specify</i>): _____
B. VISIT TO THE FACILITY, COSTING INFORMATION, AND TRANSPORTATION HOME FROM THE FACILITY (<i>Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff</i>)		
8.	Is the caregiver able and willing to continue with the remaining interview questions?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Section C</i>)	
9.	Did you miss any income-generating activities because of this child’s health facility visit?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Q12</i>)	
10.	Approximately how much time have you missed from income generating activities?	
	__ __ hours <u>OR</u> __ __ days	
11.	What type of income generating activities?	
	<input type="checkbox"/> Salaried work	<input type="checkbox"/> Hourly work
	<input type="checkbox"/> Non-wage earnings (e.g. trading, personal business, etc.)	<input type="checkbox"/> Other (<i>specify</i>): _____
12.	Did anyone else visit the child during the child’s stay at the health facility?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Q13</i>)	
	12a. Approximately how many <u>adults</u> visited your child during his/her stay? _____	
13.	How much did your child’s stay at the health facility cost you in total? This includes medical costs, transport, and household costs such as food and hotels.	
	Total amount paid and/or owed (<i>in local currency</i>): _____ <input type="checkbox"/> None (<i>skip to Q15</i>)	
14.	How much of those costs were spent on the following fees and materials? This includes money you’ve already spent or still owe. (check “Yes” for all costs and report amount paid or owed numerically in local currency. Leave row blank if the caregiver did not pay for the fee/material or does not recall. If respondent does not know exact cost, please ask for an estimate. Check “Unknown” if respondent cannot estimate amount.	
	Clinical registration fee	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown
	Lab tests or diagnostics	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown
	Medical supplies <u>purchased in the facility</u> (e.g., needles, gloves)	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown
	Medical supplies <u>purchased outside of facility</u> (e.g., needles, gloves)	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown
	Doctor/nurse/health worker fees	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown
	Medications administered during visit (e.g. antibiotics, multivitamins)	<input type="checkbox"/> Yes, needed to pay for this Amount: _____ <input type="checkbox"/> Unknown

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	Medications to bring home (e.g. antibiotics, multivitamins)	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Food for yourself or other family members	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Lodging for yourself or other family members	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Childcare	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Other (<i>specify</i>): _____	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
15.	If your child becomes ill after discharge, will it be easy or challenging for you to seek care again at a health facility?		
	<input type="checkbox"/> Easy (<i>skip to Q17</i>)	<input type="checkbox"/> Challenging	
16.	Why will it be challenging to seek care again at a health facility? (check all that apply)		
	<input type="checkbox"/> Money	<input type="checkbox"/> Religion	<input type="checkbox"/> Transport
	<input type="checkbox"/> Work	<input type="checkbox"/> Distance	<input type="checkbox"/> Caring for other children
	<input type="checkbox"/> Family members	<input type="checkbox"/> Quality of care	<input type="checkbox"/> Other (<i>specify</i>): _____
17.	What method of transportation do you and your child plan to use to travel home from the facility today? (check all that apply)		
	<input type="checkbox"/> Walk	<input type="checkbox"/> Motorbike	<input type="checkbox"/> Private or shared car
	<input type="checkbox"/> Personal vehicle	<input type="checkbox"/> Shared van/bus/taxi	<input type="checkbox"/> Other (<i>specify</i>): _____
C. SCHEDULED FOLLOW UP VISIT DATES (<i>to be completed by study staff and remind caregiver of scheduled visits</i>)			
18.	Next scheduled Week 4 visit date:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
19.	Next scheduled Month 3 visit date:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
<i>Please copy the scheduled follow up visit information into the Participant Information Card and give to caregiver.</i>			
D. FORM COMPLETION			
20.	ID of person completing this form: _ _ _ _	Date form completed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
21.	ID of person reviewing this form: _ _ _ _	Date form reviewed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
22.	ID of person entering this form: _ _ _ _	Date form entered: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
23.	ID of person conducting data verification: _ _ _ _	Date of data verification: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	

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7.	Ask caregiver: What are the important factors in your decision to take the child from the hospital before it was recommended by your child's provider? (Read options and check all answers that apply)	
	<input type="checkbox"/> Child recovered	<input type="checkbox"/> Caregiver needed to return to work
	<input type="checkbox"/> Cost of medical care too expensive	<input type="checkbox"/> Caregiver needed to return to domestic responsibilities
	<input type="checkbox"/> Transportation availability	<input type="checkbox"/> Poor quality care at health facility
	<input type="checkbox"/> Child not getting better	<input type="checkbox"/> Other (specify): _____

B. FINAL DIAGNOSIS(ES) AT DISCHARGE

8.	Final diagnosis(es) at discharge (check all that apply):	
	<input type="checkbox"/> Anemia	<input type="checkbox"/> HIV
	<input type="checkbox"/> Sickle cell	<input type="checkbox"/> Urinary Tract Infection
	<input type="checkbox"/> Malaria	<input type="checkbox"/> Tuberculosis
	<input type="checkbox"/> Suspected sepsis	<input type="checkbox"/> Fever of unknown origin
	<input type="checkbox"/> Dysentery	<input type="checkbox"/> Acutely unwell, unknown cause
	<input type="checkbox"/> Diarrhea	<input type="checkbox"/> Gastroenteritis
	<input type="checkbox"/> Upper respiratory tract infection	<input type="checkbox"/> Meningitis/ encephalitis
	<input type="checkbox"/> Pneumonia	<input type="checkbox"/> Poisoning/ herbal intoxication
	<input type="checkbox"/> Other lower respiratory tract infections (<i>other than pneumonia</i>)	<input type="checkbox"/> Malnutrition
	<input type="checkbox"/> Asthma	<input type="checkbox"/> COVID-19
	<input type="checkbox"/> Unknown/Missing	<input type="checkbox"/> Other (specify): _____

If caregiver not present, as indicated in Q6, skip to Section D.

C. VISIT TO THE FACILITY, COSTING INFORMATION, AND TRANSPORTATION HOME FROM THE FACILITY (Text in bold should be read verbatim, plain text is for prompts for study staff, and italics are instructions for study staff)

Note: If participant was referred from another EFGH facility (i.e. EFGH Facility A), answer Q9-Q17 based on the costs incurred during the facility visit where the child was referred-to (i.e. EFGH Facility B)

9.	Did you miss any income-generating activities because of this child's health facility visit?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Q12</i>)	
10.	Approximately how much time have you missed from income generating activities?	
	__ __ hours <u>OR</u> __ __ days	
11.	What type of income generating activities?	
	<input type="checkbox"/> Salaried work	<input type="checkbox"/> Hourly work
	<input type="checkbox"/> Non-wage earnings (e.g. trading, personal business, etc.)	<input type="checkbox"/> Other (specify): _____

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12.	Did anyone else visit the child during the child’s stay at the health facility?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No <i>(skip to Q13)</i>		
	12a. Approximately how many <u>adults</u> visited your child during his/her stay? _____		
13.	How much did your child’s stay at the health facility cost you in total? This includes medical costs, transport, and household costs such as food and hotels.		
	Total amount paid and/or owed <i>(in local currency)</i> : _____		<input type="checkbox"/> None <i>(skip to Q15)</i>
14.	How much of those costs were spent on the following fees and materials? This includes money you’ve already spent or still owe. (check “Yes” for all costs and report amount paid or owed numerically in local currency. Leave row blank if the caregiver did not pay for the fee/material or does not recall. If respondent does not know exact cost, please ask for an estimate. Check “Unknown” if respondent cannot estimate amount.		
	Clinical registration fee	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Lab tests or diagnostics	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Medical supplies <u>purchased in the facility</u> (e.g., needles, gloves)	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Medical supplies purchased <u>outside of facility</u> (e.g., needles, gloves)	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Doctor/nurse/health worker fees	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Medications administered during visit (e.g. antibiotics, micronutrients)	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Medications to bring home (e.g. antibiotics, micronutrients)	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Food for yourself or other family members	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Lodging for yourself or other family members	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Childcare	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Transportation	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
	Other <i>(specify)</i> : _____	<input type="checkbox"/> Yes, needed to pay for this	Amount: _____ <input type="checkbox"/> Unknown
15.	If your child becomes ill after discharge, will it be easy or challenging for you to seek care again at a health facility?		
	<input type="checkbox"/> Easy <i>(skip to Q17)</i>		<input type="checkbox"/> Challenging
16.	Why will it be challenging to seek care again at a health facility? (check all that apply)		
	<input type="checkbox"/> Money	<input type="checkbox"/> Religion	<input type="checkbox"/> Transport
	<input type="checkbox"/> Work	<input type="checkbox"/> Distance	<input type="checkbox"/> Caring for other children
	<input type="checkbox"/> Family members	<input type="checkbox"/> Quality of care	<input type="checkbox"/> Other: _____

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17.	What method of transportation do you and your child plan to use to travel home from the facility today? <i>(check all that apply)</i>		
	<input type="checkbox"/> Walk	<input type="checkbox"/> Motorbike	<input type="checkbox"/> Private or shared car
	<input type="checkbox"/> Personal vehicle	<input type="checkbox"/> Shared van/bus/taxi	<input type="checkbox"/> Other <i>(specify)</i> : _____

D. SCHEDULED FOLLOW UP VISIT DATES *(to be completed by study staff and remind caregiver of scheduled visits)*

18.	Next scheduled Week 4 visit date:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
19.	Next scheduled Month 3 visit date:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)

Please copy the scheduled follow up visit information into the Participant Information Card and give to caregiver to take home (if caregiver is present).

E. FORM COMPLETION

20.	ID of person completing this form: _ _ _ _	Date form completed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
21.	ID of person reviewing this form: _ _ _ _	Date form reviewed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
22.	ID of person entering this form: _ _ _ _	Date form entered: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
23.	ID of person conducting data verification: _ _ _ _	Date of data verification: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)

																	
		Day 0 - Previous 24 hours prior to enrollment Visit	DAY 1 _ _ - _ _ - 2 0 2 _ _* <i>*May not be full 24-hour period</i>	DAY 2 _ _ - _ _ - 2 0 2 _ _	DAY 3 _ _ - _ _ - 2 0 2 _ _	DAY 4 _ _ - _ _ - 2 0 2 _ _	DAY 5 _ _ - _ _ - 2 0 2 _ _	DAY 6 _ _ - _ _ - 2 0 2 _ _	DAY 7 _ _ - _ _ - 2 0 2 _ _	DAY 8 _ _ - _ _ - 2 0 2 _ _	DAY 9 _ _ - _ _ - 2 0 2 _ _	DAY 10 _ _ - _ _ - 2 0 2 _ _	DAY 11 _ _ - _ _ - 2 0 2 _ _	DAY 12 _ _ - _ _ - 2 0 2 _ _	DAY 13 _ _ - _ _ - 2 0 2 _ _	DAY 14 _ _ - _ _ - 2 0 2 _ _	
	Blood in stool 																
Medications																	
	No oral rehydration solution (ORS)  																
	Oral rehydration solution (ORS) 																
	No antibiotics  																
	Antibiotics 																
	No zinc  																
	Zinc 																

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		<input type="checkbox"/> Caregiver refused to let study staff see child (<i>skip to Section E</i>)	<input type="checkbox"/> Other (<i>specify</i>): _____
C. ASSESSMENT OF THE CHILD'S GENERAL CONDITION			
<i>Ask this Section only if the child is available for physical exam by the medical team</i>			
12.	What is the child's general condition?		
	<input type="checkbox"/> Well/Alert	<input type="checkbox"/> Restless/Irritable	<input type="checkbox"/> Lethargic or Unconscious
13.	Does the child appear unwell?		
	<input type="checkbox"/> Yes (<i>please complete CRF 08 - Unwell Child Form</i>)		
	<input type="checkbox"/> No		
D. CHILD ANTHROPOMETRY (<i>complete this section only if the child is available for a physical exam by study team</i>)			
14.	a.	What is the child's mid upper arm circumference (MUAC)? (1 st measurement)	__ __ . __ (cm)
	b.	Arm from which MUAC is being measured (<i>please ensure the <u>same</u> arm is used to collect 1st, 2nd, and 3rd measurements</i>)	<input type="checkbox"/> Right <input type="checkbox"/> Left
	c.	What is the child's mid upper arm circumference (MUAC)? (2 nd measurement)	__ __ . __ (cm)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and, if the difference is 0.3cm or greater, obtain a third measurement.</i>			
	d.	What is the child's mid upper arm circumference (MUAC)? (3 rd measurement, if applicable)	__ __ . __ (cm) <input type="checkbox"/> Not applicable (<i>3rd measurement not indicated</i>)
Comments:			
15.	How is the child's weight being recorded?		
	<input type="checkbox"/> Adult scale, child only (<i>child is ≥24 months AND able to stand on the scale alone; skip to Q19</i>)		
	<input type="checkbox"/> Adult scale, child and caregiver together (<i>child is <24 months OR unable to stand on the scale alone</i>)		
16.	a.	What is the weight of child and caregiver (1 st measurement)	__ __ __ . __ (kg)
	b.	What is the weight of the caregiver alone (1 st measurement)	__ __ __ . __ (kg)
	c.	What is the <u>calculated</u> weight of the child (<i>Q16a minus Q16b</i>)	__ __ . __ (kg)
17.	a.	What is the weight of child and caregiver (2 nd measurement)	__ __ __ . __ (kg)
	b.	What is the weight of the caregiver alone (2 nd measurement)	__ __ __ . __ (kg)
	c.	What is the <u>calculated</u> weight of the child (<i>Q17a minus Q17b</i>) (2 nd measurement)	__ __ . __ (kg)
<i>If measurement 2 (Q17c) differs from measurement 1 (Q16c), subtract the lower measurement from the higher measurement and if the difference is 0.2kg or greater, obtain a third measurement</i>			

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18.	a.	What is the weight of child and caregiver (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
	b.	What is the weight of the caregiver alone (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
	c.	What is the calculated weight of the child (<i>Q18a minus Q18b</i>) (3 rd measurement)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
Comments:			
19.	a.	What is the child's weight? (1 st measurement)	_ _ _ _ . _ _ (kg)
	b.	What is the child's weight? (2 nd measurement)	_ _ _ _ . _ _ (kg)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and if the difference is 0.2 kg or greater, obtain a third measurement</i>			
	c.	What is the child's weight? (3 rd measurement, if applicable)	_ _ _ _ . _ _ (kg) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
Comments:			
20.	How is the child's length (<i>if <24 months</i>) / height (<i>if ≥24 months</i>) being recorded?		
	<input type="checkbox"/> Recumbent length (<i>if <24 months</i>)		
	<input type="checkbox"/> Standing height (<i>if ≥24 months</i>)		
21.	a.	What is the length/height of the child? (1 st measurement)	_ _ _ _ . _ _ (cm)
	b.	What is the length/height of the child? (2 nd measurement)	_ _ _ _ . _ _ (cm)
<i>If measurement 2 differs from measurement 1, subtract the lower measurement from the higher measurement and if the difference is 0.5cm or greater, obtain a third measurement</i>			
	c.	What is the length/height of the child? (3 rd measurement, if applicable)	_ _ _ _ . _ _ (cm) <input type="checkbox"/> Not applicable <i>(3rd measurement not indicated)</i>
Comments:			
E. DIARRHEA/DYSENTERY RECOVERY AFTER LEAVING THE HEALTH FACILITY			
<i>Q22 through Q29 below relate to the period after the child was enrolled in the EFGH study (upon returning home from the health facility visit) and relate to the child's recovery from the illness they were enrolled with.</i>			

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<i>These questions are ONLY to be asked at the Week 4 follow-up visit (or the Month 3 follow-up visit if the Week 4 visit was missed). Caregiver should answer the below questions based on memory rather than the diarrhea diary card.</i>	
22.	Was the diarrhea diary card returned? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not applicable (follow up visit taking place by phone)
23.	Did your child continue to have diarrhea (defined as 3 or more unusually loose or watery stools in a 24 hour period) after leaving the health facility? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Section F) <input type="checkbox"/> Don't know (skip to Section F)
24.	When did the diarrhea end? Refer to calendar to determine date if # of days since leaving the facility (enrollment) was known but not exact date. The end date is the last day of diarrhea before a diarrhea-free period of two days or more. <div style="text-align: right; margin-top: 10px;"> _ _ - _ _ - _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Ongoing</div>
25.	On the worst day of diarrhea since leaving the health facility, how many loose stools did the child have in one day (24 hours)? <div style="text-align: right; margin-top: 10px;"> _ _ loose stools (if <10, put "0" before digit)</div>
26.	Did the child have blood in his/her stool during the diarrhea that continued after leaving the health facility? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q28) <input type="checkbox"/> Don't know (skip to Q28)
27.	How many days did the child have blood in stool? _ _ days (if <10, put "0" before digit)
28.	Did the child vomit any time during the episode of diarrhea that continued after leaving the health facility? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q29) <input type="checkbox"/> Don't know (skip to Q29)
28a.	How many days did the child vomit? _ _ days (if <10, put "0" before digit)
28b.	Thinking about the day when the child had the most vomiting, how many times did s/he vomit in the day (24 hours)? _ _ (if <10, put "0" before digit)
29.	Did the child have a fever (or feel hot to the touch) during the diarrhea that continued after leaving the health facility? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Section F) <input type="checkbox"/> Don't know (skip to Section F)
29a.	If yes, what was the highest temperature? _ _ . _ _ °C <input type="checkbox"/> Temperature not collected
29b.	How many days did s/he have the fever? _ _ days
F. MEDICATIONS AFTER LEAVING THE FACILITY	
<i>This section (Q30-Q33) is intended to capture what medications were used for the child's recovery from the diarrhea illness that led them to be enrolled in the EFGH study. These questions are only to be asked at the Week 4 follow-up visit (or the</i>	

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<p><i>Month 3 follow-up visit if the Week 4 visit was missed). Prescribed treatments to be ascertained from the Medical Management CRF and ideally, pre-filled in the first column below prior to conducting the interview (to prime the interviewee on what medications were prescribed). Medications used and days used are to be answered by the caregiver. Note there may be some medications used that were not prescribed and those should be captured as well.</i></p>						
30.	Name of the medications originally prescribed for the child for the discharge period (filled from Medical Management Form)	Name of medications actually taken by the child during the discharge period (including those not prescribed. Completed based on Caregiver report)	Among these medications taken by your child, did your child receive some or all of the medications for free?	Among these medications taken by your child, did you purchase some or all of the medications (at the facility or elsewhere)?	Among these medications taken by the child, how many days did your child eat or drink the medication?	
	<input type="checkbox"/> ORS	<input type="checkbox"/> ORS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Unknown	
	<input type="checkbox"/> Zinc	<input type="checkbox"/> Zinc	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> RUSF	<input type="checkbox"/> RUSF	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> RUTF	<input type="checkbox"/> RUTF	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> RUSF (locally made)	<input type="checkbox"/> RUSF (locally made)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> RUTF (locally made)	<input type="checkbox"/> RUTF (locally made)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
<u>Antibiotics</u>						
	<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> Ampicillin	<input type="checkbox"/> Ampicillin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> Augmentin/Co-amoxiclav	<input type="checkbox"/> Augmentin/Co-amoxiclav	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	
	<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know	

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	<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Cefixime	<input type="checkbox"/> Cefixime	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Cefuroxime	<input type="checkbox"/> Cefuroxime	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Clindamycin	<input type="checkbox"/> Clindamycin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Cotrimoxazole/ Septrin	<input type="checkbox"/> Cotrimoxazole/ Septrin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Erythromycin	<input type="checkbox"/> Erythromycin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Penicillin	<input type="checkbox"/> Penicillin	<input type="checkbox"/> Yes <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Streptomycin	<input type="checkbox"/> Streptomycin	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Other1 (<i>specify</i>): _____	<input type="checkbox"/> Other1 (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know

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	<input type="checkbox"/> Other2 (<i>specify</i>): _____	<input type="checkbox"/> Other2 (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Other3 (<i>specify</i>): _____	<input type="checkbox"/> Other3 (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
<u>Antiprotozoals</u>					
	<input type="checkbox"/> Albendazole	<input type="checkbox"/> Albendazole	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Mebendazole	<input type="checkbox"/> Mebendazole	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Metronidazole (Flagyl)	<input type="checkbox"/> Metronidazole (Flagyl)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Other (<i>specify</i>): _____	<input type="checkbox"/> Other (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
<u>Antimalarial</u>					
	<input type="checkbox"/> Artemether lumefantrine	<input type="checkbox"/> Artemether lumefantrine	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Paludrine	<input type="checkbox"/> Paludrine	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Artesunate	<input type="checkbox"/> Artesunate	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Quinine	<input type="checkbox"/> Quinine	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Proguanil	<input type="checkbox"/> Proguanil	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
<u>Other treatments (excluding analgesics)</u>					
	<input type="checkbox"/> Other1 (<i>specify</i>): _____	<input type="checkbox"/> Other1 (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
	<input type="checkbox"/> Other2 (<i>specify</i>): _____	<input type="checkbox"/> Other2 (<i>specify</i>): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know

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	<input type="checkbox"/> Other3 (specify): _____	<input type="checkbox"/> Other3 (specify): _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know	__ __ days <input type="checkbox"/> Don't know
31.	Thinking back to your child's stay at the health facility, how much did the visit cost you in total? This includes medical costs, transport, and household costs such as food and hotels.				
	Total amount paid and/or owed (in local currency): _____ <input type="checkbox"/> None (skip to Q33)				
32.	How much of those costs were spent on the following fees and materials? This includes money you've already spent or still owe. (check "Yes" for all costs and report amount paid or owed numerically in local currency. Leave row blank if the caregiver <u>did not</u> pay for the fee/material or does not recall. If respondent does not know exact cost, please ask for an estimate in local currency. Enter 999 if respondent cannot estimate cost.				
	Clinical registration fee		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Lab tests or diagnostics		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Medical supplies <u>purchased in the facility</u> (e.g., needles, gloves)		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Medical supplies purchased <u>outside of facility</u> (e.g., needles, gloves)		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Doctor/nurse/health worker fees		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Medications administered during visit (e.g. antibiotics, multivitamins)		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Medications to bring home (e.g. antibiotics, multivitamins)		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Food for yourself or other family members		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Lodging for yourself or other family members		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Childcare		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Transportation		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
	Other (specify): _____		<input type="checkbox"/> Yes, needed to pay for this	Amount: _____	
33.	Since leaving the health facility, about how much time have you missed from income-generating activities to care for the child while they were ill with the diarrhea episode they were enrolled with?				
	__ __ hours <u>OR</u> __ __ days <u>OR</u> <input type="checkbox"/> None				
G.	<u>NEW ILLNESS SINCE LAST SCHEDULED VISIT (EITHER ENROLLMENT OR WEEK 4)</u>				
	<i>The questions Q34 through Q62 below relate to period since this child's last scheduled visit (either Enrollment or Week 4) and <u>excludes</u> the diarrheal illness for which the child was enrolled in the EFGH study . If an Unwell Child CRF was completed for the participant, please reference the information from that CRF to complete this section.</i>				
	<i>New diarrhea/dysentery episodes since last visit</i>				
34.	Since this child's last scheduled visit (either Enrollment or Week 4), did your child develop a new episode of diarrhea, that is at diarrhea episode that started after at least 2 diarrhea free days? <i>Note: Diarrhea episode is defined as diarrhea (3 or more unusually loose or watery stools in a 24 hour period). Use memory aid to facilitate remembering days.</i>				
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q51)				

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		<input type="checkbox"/> Don't know (<i>skip to Q51</i>)	
35.	How many new episodes of diarrhea did your child have since their last scheduled visit. <i>Note: A new episode is defined by diarrhea beginning after at least 2 diarrhea-free calendar days.</i>		
	_____ (<i>range 1-10</i>)		
<i>If the child had more than 1 new episodes of diarrhea during the relevant follow-up period (between Enrollment and Week 4 or between Week 4 and Month 3) ask the following questions about the <u>first</u> of those episodes. If the Week 4 visit was missed then the relevant follow-up period is defined as between Enrollment and Month 3.</i>			
36.	When did the diarrhea start? Refer to calendar to determine date if # of days ago known	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)	
37.	When did the diarrhea end? Refer to calendar to determine date if # of days ago known	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Ongoing	
38.	Did the child have blood in stool during his/her diarrheal illness? (<i>Use the memory aid to show pictures of each of these symptoms</i>)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know		
39.	Did the child vomit at any time during the episode of diarrhea?		
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know		
40.	At any point during the diarrheal episode, did the child have any fever? (<i>Fever meaning the child was hot to touch</i>)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't know		
41.	Did you seek care for the child's diarrhea outside your home?		
	<input type="checkbox"/> Yes (<i>skip to Q42</i>) <input type="checkbox"/> No		
41a.	<i>If No to Q41, why not? (check all that apply then skip to Q51)</i>		
	<input type="checkbox"/> Child did not seem to need care <input type="checkbox"/> Clinic too far from home <input type="checkbox"/> Unable to find transport <input type="checkbox"/> Could not take time off from work <input type="checkbox"/> Flood or bad weather <input type="checkbox"/> Political unrest	<input type="checkbox"/> Cost for travel too high <input type="checkbox"/> Cost for treatment too high <input type="checkbox"/> Other child at home could not be left alone <input type="checkbox"/> Not happy with clinic services in area <input type="checkbox"/> Other (<i>specify</i>) _____	
42.	When did you first seek care for the child's illness? Refer to visual calendar aid carried by staff member to determine date relative to the date the episode started (as recorded in Q36).	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)	
43.	If you sought care for the child for this diarrheal illness where did you go (check all that apply)?		
	<input type="checkbox"/> Traditional healer	<input type="checkbox"/> Religious healer	

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	<input type="checkbox"/> Drug seller	<input type="checkbox"/> Pharmacist
	<input type="checkbox"/> Community health worker	<input type="checkbox"/> Health outpost
	<input type="checkbox"/> Health facility (outpatient care)	<input type="checkbox"/> Health facility (inpatient care)
	<input type="checkbox"/> Other (<i>specify</i>): _____	
	<i>If sought care at a health facility (either outpatient or inpatient), continue to Q44. Otherwise, skip to Q51.</i>	
44.	What was the name of the hospital or health center that you visited?	
	<input type="checkbox"/> EFGH recruiting facility, specify facility ID: __ __	<input type="checkbox"/> Other (<i>specify</i>): _____ <input type="checkbox"/> Don't remember
45.	When did you first visit the hospital or health center? <i>Refer to visual calendar aid carried by staff member to determine date relative to the date the episode started.</i>	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as Q42
46.	Did the clinical team advise the child be hospitalized for treatment of diarrheal illness?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q51</i>)	
47.	Was the child admitted (ie at least an overnight stay) for treatment of diarrheal illness? (<i>This question is intended to differentiate between a child recommended to be admitted and actually admitted to the hospital</i>)	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q51</i>)	
48.	Date of admission:	
	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date in Q45 <input type="checkbox"/> Don't remember	
49.	How many days was the child admitted for?	__ __ days <input type="checkbox"/> Don't remember
50.	Was a Hospital Record Abstraction CRF (CRF 09) was completed for this hospitalization?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>complete a Hospital Record Abstraction CRF (CRF 09)</i>) <input type="checkbox"/> No, child was admitted to a non-EFGH facility (<i>see Q44</i>)	
<i>New other (non-diarrheal) illnesses since last scheduled study visit</i>		
51.	Since this child's last scheduled visit (<i>either Enrollment or Week 4</i>), did your child become ill with any illness besides diarrhea?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Section H</i>) <input type="checkbox"/> Don't know (<i>skip to Section H</i>)	
52.	If yes, what was the illness your child had?	
	<input type="checkbox"/> Cough, respiratory distress <input type="checkbox"/> Febrile illness <input type="checkbox"/> Other (<i>specify</i>): _____	
53.	Did you seek any medical advice or treatment for this illness?	

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		<input type="checkbox"/> Yes	
		<input type="checkbox"/> No (<i>skip to Section H</i>)	
		<input type="checkbox"/> Don't know (<i>skip to Section H</i>)	
54.	If yes, from whom did you seek advice about care for your child or where did you seek other medical treatment (not including the current clinic visit) (check all that were consulted)		
	<input type="checkbox"/> Traditional healer	<input type="checkbox"/> Religious healer	
	<input type="checkbox"/> Drug seller	<input type="checkbox"/> Pharmacist	
	<input type="checkbox"/> Community health worker	<input type="checkbox"/> Health outpost	
	<input type="checkbox"/> Health facility (outpatient care)	<input type="checkbox"/> Health facility (inpatient care)	
	<input type="checkbox"/> Other (<i>specify</i>): _____		
	<i>If sought care at a health facility (inpatient or outpatient), continue to Q55. Otherwise, go to Section H Immunization History.</i>		
55.	What was the name of the hospital or health center that you visited?		
	<input type="checkbox"/> EFGH recruiting facility, specify facility ID: __ __	<input type="checkbox"/> Other (<i>specify</i>): _____	
		<input type="checkbox"/> Don't remember	
56.	When did you first visit the hospital or health center? <i>Refer to visual calendar aid carried by staff member to determine date relative to the date the episode started.</i>		__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
			<input type="checkbox"/> Don't remember
57.	Did the clinical team advise the child be hospitalized?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (<i>skip to Q61</i>)		
58.	Was the child admitted (i.e, at least an overnight stay) for treatment of the illness? (This question is intended to differentiate between a child recommended to be admitted and actually admitted to the hospital)		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (<i>skip to Q63</i>)		
	<input type="checkbox"/> Don't know (<i>skip to Q63</i>)		
59.	Date of admission:		
	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)		
	<input type="checkbox"/> Same as date in Q56		
	<input type="checkbox"/> Don't remember		
60.	How many days was the child admitted for?	__ __ days	OR <input type="checkbox"/> Don't remember
61.	What was the diagnosis/diagnoses that your child received at the health facility or hospital? (check all that apply)		
	<input type="checkbox"/> Diarrhea	<input type="checkbox"/> Dysentery	
	<input type="checkbox"/> Gastroenteritis	<input type="checkbox"/> HIV	
	<input type="checkbox"/> Anemia	<input type="checkbox"/> Urinary Tract Infection	
	<input type="checkbox"/> Sickle cell	<input type="checkbox"/> Tuberculosis	
	<input type="checkbox"/> Malaria	<input type="checkbox"/> Fever of unknown origin/Febrile illness	
	<input type="checkbox"/> Suspected sepsis	<input type="checkbox"/> Pneumonia	
	<input type="checkbox"/> Upper respiratory tract infection	<input type="checkbox"/> Meningitis	
	<input type="checkbox"/> Other lower respiratory tract infections	<input type="checkbox"/> Poisoning/ herbal intoxication	

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	<input type="checkbox"/> Acutely unwell, unknown cause	<input type="checkbox"/> Severe acute malnutrition/ severe wasting
	<input type="checkbox"/> Asthma	<input type="checkbox"/> Moderate acute malnutrition/ moderate wasting
	<input type="checkbox"/> Other 1 (<i>specify</i>): _____	<input type="checkbox"/> Other 2 (<i>specify</i>): _____
	<input type="checkbox"/> None	<input type="checkbox"/> Don't know
62.	Was a Hospital Record Abstraction CRF (CRF 09) completed for this hospitalization?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>complete a Hospital Record Abstraction CRF (CRF 09)</i>)	
	<input type="checkbox"/> No, child was admitted to a non-EFGH facility (<i>see Q55</i>)	

H. IMMUNIZATION HISTORY (*complete at Week 4 FU visit ONLY if immunization record was not available at Enrollment Visit*)

63.	Was the child's immunization record not available at Enrollment and is available for abstraction now?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Section I</i>)	
	<input type="checkbox"/> Not applicable (<i>skip to Section I</i>)	
64.	Using the immunization record, indicate how many doses of the following vaccines the child has received? (<i>enter 0 if none, 9 if unknown. If a vaccine was given as part of a composite vaccine but not alone (e.g. measles as part of MMR or MR vaccine, mark "0" to the component (e.g. measles) and "1" to the composite (MMR)</i>)	
	Rotavirus vaccine	__
	Polio vaccine (OPV or IPV)	__
	Pentavalent vaccine (DPT+HiB+HBV)	__
	S. pneumococcus vaccine (PCV)	__
	Measles vaccine	__
	MR vaccine (measles+rubella)	__
	MMR vaccine (measles+mumps+rubella)	__
	Yellow fever vaccine	__
	DPT vaccine (Diphtheria+pertussis+tetanus)	__
	Bacille Calmette-Guerin (BCG)	__
	Rubella vaccine	__
	HiB vaccine (Hemophilus influenzae)	__
	Hepatitis A vaccine	__
	Hepatitis B vaccine	__
	Typhoid fever vaccine	__
	Varicella vaccine	__
	Meningococcal A vaccine	__
	Malaria vaccine (RTS,S)	__
65.	How many doses of Vitamin A has the child received?	__ (<i>enter 9 if unknown</i>)

I. IMMUNIZATION WILLINGNESS – WEEK 4 ONLY (*complete only at Week 4 FU visit*)

66.	When offered a new vaccine for your child, do you typically accept?	
	<input type="checkbox"/> Yes, always (<i>skip to Q68</i>)	
	<input type="checkbox"/> Sometimes	
	<input type="checkbox"/> Never	
67.	What deters you from accepting new vaccines for your child? (<i>select one</i>)	
	<input type="checkbox"/> Vaccines are too expensive	
	<input type="checkbox"/> Vaccines are not available	
	<input type="checkbox"/> Do not think vaccines are safe	
	<input type="checkbox"/> Do not know about vaccines	
	<input type="checkbox"/> Other (<i>specify</i>): _____	
68.	If a new vaccine becomes available to prevent watery diary and bloody diarrhea, would you agree to use it?	
	<input type="checkbox"/> Yes (<i>skip to visit-specific staff checks</i>)	
	<input type="checkbox"/> No	

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	68a.	If no, which of the following reasons would deter you? (<i>select one</i>)
	<input type="checkbox"/>	Vaccines are too expensive
	<input type="checkbox"/>	Vaccines are not available
	<input type="checkbox"/>	Do not think vaccines are safe
	<input type="checkbox"/>	Do not know about vaccines
	<input type="checkbox"/>	Other (<i>specify</i>): _____

J. STUDY STAFF CHECKS – WEEK 4 ONLY

69.	Please verify the following procedures were completed as part of the follow-up visit:		
	Completed	Not completed	
	<input type="checkbox"/>	<input type="checkbox"/>	Follow up CRF (CRF 07) completed
	<input type="checkbox"/>	<input type="checkbox"/>	Child length/height, weight, and MUAC were collected and recorded in Section D of Follow up CRF (CRF 07)
	<input type="checkbox"/>	<input type="checkbox"/>	Dried blood Spot (DBS) collected, labelled as appropriate, and stored = <i>Applicable only to sites participating in immune response sub-study and in whom the caregiver agreed to have blood sample taken. If not participating select “Not applicable to this visit”</i>
	<input type="checkbox"/>	<input type="checkbox"/>	Diarrhea diary returned
	<input type="checkbox"/>	<input type="checkbox"/>	Diarrhea duration diary is reviewed with the caregiver and any missing or illegible information is clarified
	<input type="checkbox"/>	<input type="checkbox"/>	Participant is reminded of next scheduled follow up visit
	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate reimbursements issued

K. STUDY STAFF CHECKS – MONTH 3 ONLY

70.	Please verify the following procedures were completed as part of the follow-up visit:		
	Completed	Not completed	
	<input type="checkbox"/>	<input type="checkbox"/>	Follow up CRF (CRF 07) completed
	<input type="checkbox"/>	<input type="checkbox"/>	Child length/height, weight, and MUAC were collected and recorded in Section D of Follow up CRF (CRF 07)
	<input type="checkbox"/>	<input type="checkbox"/>	Appropriate reimbursements issued
	<input type="checkbox"/>	<input type="checkbox"/>	Study Close Out CRF (CRF 10) completed

L. FORM COMPLETION

71.	ID of person completing this form: __ __ __	Date form completed: _ _ - _ _ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
71.	ID of person reviewing this form: __ __ __	Date form reviewed: _ _ - _ _ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
72.	ID of person entering this form: __ __ __	Date form entered: _ _ - _ _ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
73.	ID of person conducting data verification: __ __ __	Date of data verification: _ _ - _ _ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

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CRF 08— Unwell Child Form

		<i>If multiple concerns reported in Q6, answer based on the date the first illness began. Refer to calendar to determine date if # of days since illness began is known but not exact date</i>	
B. MEDICAL EXAMINATION			
8.	What is the child's general condition?		
	<input type="checkbox"/> Well/Alert	<input type="checkbox"/> Restless/Irritable	<input type="checkbox"/> Lethargic or Unconscious
9.	Assess the child's eyes and determine if they are:		
	<input type="checkbox"/> Normal (<i>skip to Q10</i>)	<input type="checkbox"/> Abnormally sunken	<input type="checkbox"/> Not recorded (<i>skip to Q10</i>)
9a.	<i>If child's eyes are determined to be abnormally sunken and medical exam is being conducted in person, please ask the caregiver Is the appearance of your child's eyes abnormal?</i>		
	<input type="checkbox"/> Yes (<i>abnormal for child</i>)		
	<input type="checkbox"/> No		
10.	Describe the child's ability to drink or breastfeed:		
	<input type="checkbox"/> Normal/Not Thirsty	<input type="checkbox"/> Drinks eagerly/Thirsty	<input type="checkbox"/> Drinks poorly/ Unable to drink
11.	Using a thumb and forefinger, gently pinch up the child's skin on the abdominal wall and assess the skin's return to normal:		
	<input type="checkbox"/> Immediately	<input type="checkbox"/> 1 to <2 seconds (slowly)	<input type="checkbox"/> ≥2 seconds(very slowly)
<i>Please assess the following physical signs:</i>			
12.	Temperature (<i>using Exergen Thermometer</i>)	__ __ . __ °C	
13.	Heart rate	__ __ __ beats per minute	
14.	Respiratory rate	__ __ breaths per minute	
15.	Cough	<input type="checkbox"/> Yes <input type="checkbox"/> No	
16.	Difficulty breathing	<input type="checkbox"/> Yes <input type="checkbox"/> No	
17.	Chest in-drawing	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18.	Stridor	<input type="checkbox"/> Yes <input type="checkbox"/> No	
19.	Stiff neck	<input type="checkbox"/> Yes <input type="checkbox"/> No	
20.	Generalized rash	<input type="checkbox"/> Yes <input type="checkbox"/> No	
21.	Runny nose	<input type="checkbox"/> Yes <input type="checkbox"/> No	
22.	Convulsions	<input type="checkbox"/> Yes <input type="checkbox"/> No	
23.	Lethargy or Unconscious	<input type="checkbox"/> Yes <input type="checkbox"/> No	
24.	Chest auscultation signs suggestive of pneumonia	<input type="checkbox"/> Yes <input type="checkbox"/> No	
25.	Central cyanosis	<input type="checkbox"/> Yes <input type="checkbox"/> No	
26.	Oxygen saturation <90% (pulse oximetry)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not available	
27.	Severe respiratory distress	<input type="checkbox"/> Yes <input type="checkbox"/> No	
28.	Palmar pallor	<input type="checkbox"/> Yes <input type="checkbox"/> No	
29.	Ear pain	<input type="checkbox"/> Yes <input type="checkbox"/> No	
30.	Pus drainage from ear canal	<input type="checkbox"/> Yes <input type="checkbox"/> No	
31.	Tender swelling behind the ear	<input type="checkbox"/> Yes <input type="checkbox"/> No	
32.	Signs of abscess	<input type="checkbox"/> Yes <input type="checkbox"/> No	
33.	Signs of oedema	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 08— Unwell Child Form

	33a.	<i>If yes:</i>		
		<input type="checkbox"/> Oedema on both feet/ankles (<i>mild</i>)		
		<input type="checkbox"/> Oedema on both feet/ankles, lower legs, hands, or lower arms (<i>moderate</i>)		
		<input type="checkbox"/> Generalized oedema, including both feet, legs, hands, arms, and face (<i>severe</i>)		
	34.	Tick all diagnoses applicable (<i>as determined by facility standard of care, check all that apply</i>)		
		<input type="checkbox"/> Diarrhea (watery)	<input type="checkbox"/> Diarrhea (dysentery)	
		<input type="checkbox"/> Anemia	<input type="checkbox"/> HIV	
		<input type="checkbox"/> Sickle cell	<input type="checkbox"/> Urinary Tract Infection	
		<input type="checkbox"/> Malaria	<input type="checkbox"/> Tuberculosis	
		<input type="checkbox"/> Suspected sepsis	<input type="checkbox"/> Fever of unknown origin/Febrile illness	
		<input type="checkbox"/> Upper respiratory tract infection	<input type="checkbox"/> Pneumonia	
		<input type="checkbox"/> Other lower respiratory tract infections	<input type="checkbox"/> Meningitis	
		<input type="checkbox"/> Acutely unwell, unknown cause	<input type="checkbox"/> Poisoning/ herbal intoxication	
		<input type="checkbox"/> Asthma	<input type="checkbox"/> Severe acute malnutrition/ severe wasting	
		<input type="checkbox"/> Moderate acute malnutrition/ moderate wasting	<input type="checkbox"/> Soft tissue/skin infection	
		<input type="checkbox"/> Other 1 (<i>specify</i>): _____	<input type="checkbox"/> Other 2 (<i>specify</i>): _____	
			<input type="checkbox"/> None	
	35.	What was the outcome of the illness visit?		
		<input type="checkbox"/> Child was hospitalized (<i>Complete Hospital Abstraction Form [CRF 09]</i>)	<input type="checkbox"/> Child was seen as an outpatient and returned home	
		<input type="checkbox"/> Other (<i>specify</i>): _____		
<i>Skip to Section D (Form Completion) unless unwell visit was due to child returning after a Shigella culture positive result and caregiver reporting the child being unwell or not yet recovered.</i>				
C. MANAGEMENT FOLLOWING LIGHT CONTACT AND SHIGELLA CULTURE POSITIVE RESULT (<i>only applicable to those participants whose Unwell Visit is because the child is returning after a Shigella culture positive contact</i>)				
	36.	Was <u>new</u> <i>Shigella</i> treatment prescribed at the unwell visit for <i>Shigella</i> ?		
		<input type="checkbox"/> Yes		
		<input type="checkbox"/> No (<i>skip to Section D: Form Completion</i>)		
	37.	Name (<i>check box if prescribed</i>)	Dose prescribed (<i>circle unit</i>)	Prescribed Duration
		<input type="checkbox"/> Ciprofloxacin (Cipro)	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
		<input type="checkbox"/> Azithromycin	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
		<input type="checkbox"/> Cotrimoxazole (Septrin)	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
		<input type="checkbox"/> Ceftriaxone	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 08— Unwell Child Form

	<input type="checkbox"/> Cefixime	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
	<input type="checkbox"/> Other 1 (<i>specify</i>): _____	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
	<input type="checkbox"/> Other 2 (<i>specify</i>): _____	_____ (ml/mg) <input type="checkbox"/> Unknown	__ __ days <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
38.	Were there any other recommended changes in the child's clinical management?			
	<input type="checkbox"/> Yes			
	<input type="checkbox"/> No (<i>skip to Section D: Form Completion</i>)			
39.	Please describe those changes in the child's clinical management (<i>check all that apply</i>)			
	<input type="checkbox"/> Change in recommended fluids			
	<input type="checkbox"/> Zinc prescribed			
	<input type="checkbox"/> Nutritional therapy			
	<input type="checkbox"/> Other (<i>specify</i>): _____			

D. FORM COMPLETION

40.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
41.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
42.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
43.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 09— Hospital Record Abstraction Form**

Purpose: To abstract important information from the child’s medical record every time the child is hospitalized at an EFGH recruitment facility. If a child is only seen as an outpatient, do not complete this form.

Instructions: Please abstract the following information from the child’s medical record as soon as staff learn of a hospitalization. Please use a separate form for every hospital admission other than a hospital admission that occurred as part of the child’s enrollment visit. Please also complete an AE form if the illness is definitely, probably, or possibly related to study participation.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

A. PARTICIPANT INFORMATION

1.	Participant ID	_ _ _ _ _ _ _ _ _ _ _ _ _ _		
2.	Date of Enrollment:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
3.	Date of Form Completion:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
4.	EFGH country site:	<input type="checkbox"/> Bangladesh <input type="checkbox"/> Kenya <input type="checkbox"/> Malawi <input type="checkbox"/> Mali <input type="checkbox"/> Pakistan <input type="checkbox"/> Peru <input type="checkbox"/> The Gambia		

B. ADMISSION INFORMATION

5.	Was the child admitted to either an inpatient ward or short-stay ward?	<input type="checkbox"/> Inpatient ward		
		<i>Complete the following for inpatient ward admissions only.</i>		
	Date admitted to inpatient ward:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
	Time admitted to inpatient ward:	_ _ _ _ : _ _ _ _ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown		
		<input type="checkbox"/> Short-stay ward (e.g. emergency room)		
		<i>Complete the following for short-stay ward admissions only.</i>		
	Date admitted to short-stay ward:	_ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
	Time admitted to short-stay ward:	_ _ _ _ : _ _ _ _ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown		
6.	What was the EFGH health facility ID for the facility that the child was admitted to? (refer to EFGH facility list)	_ _ _		

C. DISCHARGE INFORMATION

7.	What was the outcome of the admission?			
	<input type="checkbox"/> Child was discharged	Date: _ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Unknown Time: _ _ _ _ : _ _ _ _ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown		
	<input type="checkbox"/> Child was referred	Date: _ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Unknown Time: _ _ _ _ : _ _ _ _ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown		
	<input type="checkbox"/> Child died	Date: _ _ _ _ - _ _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Unknown		

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 09— Hospital Record Abstraction Form

		Time: __ __ : __ __ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown
	<input type="checkbox"/> Child absconded	Date: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Unknown Time: __ __ : __ __ (hh : min, 24:00 hr) <input type="checkbox"/> Unknown
8.	Final Diagnosis(es) (check all that apply)	
	<input type="checkbox"/> Diarrhea	<input type="checkbox"/> Dysentery
	<input type="checkbox"/> Gastroenteritis	<input type="checkbox"/> Anemia
	<input type="checkbox"/> Sickle cell	<input type="checkbox"/> HIV
	<input type="checkbox"/> Malaria	<input type="checkbox"/> Urinary Tract Infection
	<input type="checkbox"/> Suspected sepsis	<input type="checkbox"/> Tuberculosis
	<input type="checkbox"/> Upper respiratory tract infection	<input type="checkbox"/> Fever of unknown origin/Febrile illness
	<input type="checkbox"/> Other lower respiratory tract infections	<input type="checkbox"/> Pneumonia
	<input type="checkbox"/> Acutely unwell, unknown cause	<input type="checkbox"/> Meningitis
	<input type="checkbox"/> Asthma	<input type="checkbox"/> Poisoning/ herbal intoxication
	<input type="checkbox"/> Moderate acute malnutrition/ moderate wasting	<input type="checkbox"/> Severe acute malnutrition/ severe wasting
	<input type="checkbox"/> None	<input type="checkbox"/> Soft tissue/skin infection
	<input type="checkbox"/> Other 1 (specify): _____	<input type="checkbox"/> Other 2 (specify): _____
D. FORM COMPLETION		
9.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
10.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
11.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
12.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 10a— Mortality Form

		<input type="checkbox"/> Shortness of breath/ difficulty breathing	<input type="checkbox"/> Trauma/accident/injury
		<input type="checkbox"/> Typhoid	<input type="checkbox"/> Sepsis
		<input type="checkbox"/> None of the above were mentioned	<input type="checkbox"/> Don't know
		<input type="checkbox"/> Other key words (<i>specify 1-2</i>): _____	
14.	Cause of death based on physician description		
	Immediate (1a): _____	<input type="checkbox"/> Not applicable	
	Intermediate (1b): _____	<input type="checkbox"/> Not applicable	
	Underlying (1c): _____	<input type="checkbox"/> Not applicable	

D. CAREGIVER INTERVIEW

15.	Is the caregiver willing to participate in a brief interview?		
	<input type="checkbox"/> Yes (<i>when appropriate, proceed with Interview and complete Mortality Interview CRF [CRF 10b] in addition to the remaining question on this form</i>)		
	<input type="checkbox"/> No (<i>Complete Study Close Out CRF [CRF 11] in addition to Section E</i>)		

E. FORM COMPLETION

16.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
17.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
18.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
19.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 10b— Mortality Interview CRF

10.	Did your child continue to have diarrhea (<i>defined as 3 or more unusually loose or watery stools in a 24 hour period</i>) after leaving the health facility?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Section D</i>) <input type="checkbox"/> Don't remember (<i>skip to Section D</i>) <input type="checkbox"/> Missing (<i>skip to Section D</i>)	
11.	When did the diarrhea end? <i>Refer to calendar to determine date if # of days since leaving the facility (enrollment) was known but not exact date. Also refer to the daily diary if returned.</i>	
	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Unknown	
12.	On the worst day of diarrhea since leaving the health facility, how many loose stools did the child have in one day (24 hours)?	
	__ __ loose stools	
13.	Did the child have blood in his/her stool during the diarrhea that continued after leaving the health facility?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q15</i>) <input type="checkbox"/> Don't remember (<i>skip to Q15</i>)	
14.	How many days since leaving the health facility did the child have blood in stool?	
	__ __ days (<i>if <10, put "0" before digit</i>)	
15.	Did the child vomit any time during the episode of diarrhea that continued after leaving the health facility?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q16</i>) <input type="checkbox"/> Don't remember (<i>skip to Q16</i>)	
	15 a.	How many days did the child vomit? __ __ days (<i>if <10, put "0" before digit</i>)
	15 b.	Thinking about the day when the child had the most vomiting, how many times did s/he vomit in the day? __ __ times in the day (<i>if <10, put "0" before digit</i>)
16.	Did the child have a fever (<i>or feel hot to the touch</i>) during the diarrhea that continued after leaving the health facility?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Section D</i>) <input type="checkbox"/> Don't remember (<i>skip to Section D</i>)	
	16 a.	If yes, what was the highest temperature? __ __ . __ °C <input type="checkbox"/> Temperature not collected
	16 b.	How many days did s/he have the fever? __ __ days (<i>if <10, put "0" before digit</i>)
D. INTERVIEW		
<i>The following section is intended to capture the open interview with the caregiver about events and conditions surrounding the participant's death. Please listen closely to the caregiver's description of the events and enter them into the section below and then identify whether or not key terms were mentioned by the caregiver. Check all terms mentioned by the caregiver in Q18.</i>		
17a.	ID of person conducting Interview: __ __ __	
17b.	Please ask the caregiver: Can you please tell me in your own words about the events that led to the death?	

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 10b— Mortality Interview CRF

Record detailed notes of response in English, Spanish, or French; use additional paper as needed. If needed, probe for additional details on when respondent recognized symptoms, care sought, barriers to care, issues with transport, abnormalities, etc.

18. Select any of the following words that were mentioned in the caregiver’s narrative (*check all that apply*):

- | | |
|--|--|
| <input type="checkbox"/> Abdominal pain | <input type="checkbox"/> Abdominal swelling |
| <input type="checkbox"/> Bleeding or hemorrhage | <input type="checkbox"/> Cancer |
| <input type="checkbox"/> Cough | <input type="checkbox"/> COVID-19/COVID |
| <input type="checkbox"/> Dehydration | <input type="checkbox"/> Dengue fever |
| <input type="checkbox"/> Diarrhea | <input type="checkbox"/> Fever |
| <input type="checkbox"/> Heart problems | <input type="checkbox"/> Jaundice (yellow skin or eyes) |
| <input type="checkbox"/> HIV/AIDS | <input type="checkbox"/> Malaria |
| <input type="checkbox"/> Pneumonia | <input type="checkbox"/> Poisoning |
| <input type="checkbox"/> Rash | <input type="checkbox"/> Seizure |
| <input type="checkbox"/> Sepsis | <input type="checkbox"/> Shortness of breath/ difficulty breathing |
| <input type="checkbox"/> Trauma/accident/injury | <input type="checkbox"/> Typhoid |
| <input type="checkbox"/> None of the above were mentioned | <input type="checkbox"/> Don’t know |
| <input type="checkbox"/> Other key words (<i>specify 1-2</i>): _____ | |

19. Cause of death based on interview (only applicable if interviewer is medically trained and has completed WHO ICD training).

Immediate (1a): _____

Intermediate (1b): _____

Underlying (1c): _____

Not applicable

Thank you for taking the time to talk with me at this difficult time. We are very sorry to hear about the loss of your child. Your answers will help us to better understand why your child was sick. Please let me know if you have any questions or concerns and please feel free to get in touch with me with any further questions. END OF INTERVIEW.

E. FORM COMPLETION

- | | | |
|-----|---|--|
| 20. | ID of person completing this form: __ __ __ | Date form completed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 21. | ID of person reviewing this form: __ __ __ | Date form reviewed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 22. | ID of person entering this form: __ __ __ | Date form entered:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 23. | ID of person conducting data verification:
 __ __ __ | Date of data verification:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 12 - *Shigella* Light Contact Form

C OUTCOME OF LIGHT CONTACT		
7.	What was the outcome of the light contact?	
	<input type="checkbox"/> No further action by study staff, caregiver reported child's condition had improved	
	<input type="checkbox"/> Caregiver agreed to bring participant to EFGH facility for Unwell Child Visit (<i>Complete CRF 08</i>)	
	<input type="checkbox"/> Caregiver refused to bring participant to EFGH facility for Unwell Child Visit	
	<input type="checkbox"/> Staff were not able to successfully contact the caregiver	
D. FORM COMPLETION		
8.	ID of person completing this form: __ __ __	Date form completed: _ _ - _ _ - 2 0 _ _ (<i>dd-mm-yyyy</i>)
9.	ID of person reviewing this form: __ __ __	Date form reviewed: _ _ - _ _ - 2 0 _ _ (<i>dd-mm-yyyy</i>)
10.	ID of person entering this form: __ __ __	Date form entered: _ _ - _ _ - 2 0 _ _ (<i>dd-mm-yyyy</i>)
11.	ID of person conducting data verification: __ __ __	Date of data verification: _ _ - _ _ - 2 0 _ _ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 13 - Stool Sample Collection Form

Purpose: To capture information about fecal sample collection at the recruiting sites (separate Specimen Accession RCRF to be completed by central laboratory).

Instructions: Complete this form for all enrolled participants at Enrollment Visit.

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

PLEASE PLACE SPECIMEN ID LABEL HERE (OPTIONAL):

A. VISIT INFORMATION	
1.	Participant ID: __ __ __ __ __ __ __ __
2.	Enrollment Date: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
3.	EFGH country site:
	<input type="checkbox"/> Bangladesh <input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi <input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan <input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia
B. RECTAL SWAB COLLECTION INFORMATION	
4.	How many rectal swabs were collected?
	<input type="checkbox"/> 0 rectal swabs
	<input type="checkbox"/> 1 rectal swab (dry for TAC)
	<input type="checkbox"/> 2 rectal swabs (dry for TAC, mBGS)
	<input type="checkbox"/> 3 rectal swabs (dry for TAC, mBGS, Cary-Blair, skip to Q5)
4a.	If <3 swabs were collected, why?

	<i>Skip to Section C if 0 rectal swabs were collected</i>
5.	Date of swab collection: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Date of collection is same as date of enrollment (Q2)
6.	Time of swab collection: __ __ : __ __ (hh : min, 24:00 hr)
7.	Did any of the rectal swabs collected have visible blood?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No
8.	<u>Rectal swab 1 (Dry swab for freezing)</u> <input type="checkbox"/> Check if rectal swab 1 is missing (skip to Section C)
8a.	Where was the swab collected from?
	<input type="checkbox"/> Directly from the child's rectum
	<input type="checkbox"/> Whole stool sample (only acceptable if direct swab is unable to be collected)
8b.	Specimen ID: _____ <input type="checkbox"/> Not applicable
9.	<u>Rectal swab 2 (mBGS transport media)</u> <input type="checkbox"/> Check if rectal swab 2 is missing (skip to Section C)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 13 - Stool Sample Collection Form

		9a.	Where was the swab collected from?
			<input type="checkbox"/> Directly from the child's rectum
			<input type="checkbox"/> Whole stool sample (<i>only acceptable if direct swab is unable to be collected</i>)
		9b.	Time of placement in media: __ __ : __ __ (<i>hh : min, 24:00hr</i>)
		9c.	Specimen ID: _____ <input type="checkbox"/> Not applicable
10.	Rectal swab 3 (Cary-Blair transport media) <input type="checkbox"/> Check if rectal swab 3 is missing (<i>skip to Section C</i>)		
		10a.	Where was the swab collected from?
			<input type="checkbox"/> Directly from the child's rectum
			<input type="checkbox"/> Whole stool sample (<i>only acceptable if direct swab is unable to be collected</i>)
		10b.	Time of placement in media: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
		10c.	Specimen ID: _____ <input type="checkbox"/> Not applicable

C. WHOLE STOOL COLLECTION INFORMATION

		11.	Was whole stool collected prior to the child leaving the health facility?
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No (<i>skip to Section D; For The Gambia, Peru, Malawi, Pakistan and Bangladesh sites – instruct caregivers about home whole stool collection</i>)
		11a.	Was there any blood visible in the whole stool?
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No
		11b.	Date of whole stool collection: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Date of collection is same as date of enrollment (<i>Q2</i>)
		11c.	Time of whole stool collection: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
		11d.	Specimen ID: _____ <input type="checkbox"/> Not applicable
	<i>For Bangladesh and the Gambia sites complete Q11e; all other sites, skip to Section D</i>		
		11e.	Time of placement in Cary-Blair media: __ __ : __ __ (<i>hh : min, 24:00hr</i>)

D. SAMPLE TRANSPORT INFORMATION

		12.	Date specimens placed in cool box: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Date of placement in cool box is same as date of enrollment (<i>Q2</i>)
		13.	Time specimens placed in cool box: __ __ : __ __ (<i>hh : min, 24:00hr</i>)
		14.	Date of departure from clinical site: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Date of departure is same as date of enrollment (<i>Q2</i>)
		15.	Time of departure from clinical site to lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)

E. FORM COMPLETION

		16.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
		17.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
		18.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
		19.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 13b – Home Whole Stool Sample Collection Form

Purpose: To capture information about home whole stool sample collection within 24 hours of the enrollment visit at the recruiting sites (separate Specimen Accession CRF to be completed by central laboratory). Only applicable to Bangladesh, The Gambia, Pakistan, Malawi, and Peru sites.

Instructions: Complete this form for enrolled participants that have a stool sample collected within 24 hours of the enrollment visit (i.e. at a home visit).

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

PLEASE PLACE SPECIMEN ID LABEL HERE (OPTIONAL):

A. VISIT INFORMATION	
1.	Participant ID: __ __ __ __ __ __ __
2.	Enrollment Date: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
3.	EFGH country site:
	<input type="checkbox"/> Bangladesh <input type="checkbox"/> The Gambia <input type="checkbox"/> Pakistan
	<input type="checkbox"/> Peru <input type="checkbox"/> Malawi
B. WHOLE STOOL COLLECTION INFORMATION	
4.	Was whole stool collected within 24 hours after discharge from the enrollment visit to the health facility?
	<input type="checkbox"/> Yes (skip to 4b)
	<input type="checkbox"/> No
4a.	If No, why not? (select one then skip to Section D)
	<input type="checkbox"/> Child did not produce whole stool within 24 hours of leaving health facility (no home whole stool collection)
	<input type="checkbox"/> Study resources not available for home visit to collect sample (e.g. after hours, no staff available)
	<input type="checkbox"/> Study staff cannot contact the caregiver or no one was home during home visit
	<input type="checkbox"/> Other (specify): _____
4b.	Was there any blood visible in the whole stool?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No
4c.	Date caregiver reported whole stool passing: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
4d.	Time caregiver reported whole stool passing: __ __ : __ __ (hh : min, 24:00 hr; approximate to the nearest hour if the caregiver does not know)
4e.	Method of whole stool collection:
	<input type="checkbox"/> Staff retrieved whole stool sample from child's home
	<input type="checkbox"/> Caregiver brought whole stool sample to clinical site or recruitment facility
4f.	Date of whole stool collection (either date returned by caregiver or date retrieved at home by staff): __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
4g.	Time of whole stool collection (either time returned by caregiver or time retrieved at home by staff): __ __ : __ __ (hh : min, 24:00 hr)

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
 Implementing Institution Name/Country Site
 CRF 13b – Home Whole Stool Sample Collection Form**

	4h. Specimen ID: _____ <input type="checkbox"/> Not applicable
5.	When was the whole stool sample placed in a cool box? <input type="checkbox"/> Whole stool sample was placed in cool box upon pickup at home <input type="checkbox"/> Whole stool sample was placed in cool box upon receipt at clinical site or recruitment facility <input type="checkbox"/> Whole stool sample was placed in cool box at central laboratory <input type="checkbox"/> Other (<i>specify</i>): _____
C. SAMPLE TRANSPORT INFORMATION	
6.	Date of departure from clinical site to central laboratory: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Not applicable, whole stool sample transported directly from home to central laboratory
7.	Time of departure from clinical site to lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>) <input type="checkbox"/> Not applicable, whole stool sample transported directly from home to central laboratory
D. FORM COMPLETION	
8.	ID of person completing this form: __ __ __ Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
9.	ID of person reviewing this form: __ __ __ Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
10.	ID of person entering this form: __ __ __ Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
11.	ID of person conducting data verification: __ __ __ Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 14 - Blood Sample Collection Form

	<input type="checkbox"/> 1	
8.	Date of blood collection: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Date of collection is same as visit date (<i>Q2</i>)	
9.	Time of blood collection: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)	
10.	Date of departure from clinical site: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) <input type="checkbox"/> Date of departure is same as visit date (<i>Q2</i>)	
11.	Time of departure from clinical site to lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)	
C. FORM COMPLETION		
12.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
13.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
14.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
15.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 18— Diarrhea Case Surveillance Protocol Violation CRF

	<input type="checkbox"/> Failure to provide a copy of signed consent form to the participant caregiver	<input type="checkbox"/> Enrolment of subjects that do not meet the inclusion/exclusion criteria
	<input type="checkbox"/> Undertaking of a study procedure not approved by IRB	<input type="checkbox"/> Breach in confidentiality that may pose an immediate threat to the participant or caregiver
	<input type="checkbox"/> Loss of laptop or study equipment that contains identifiable information about participant	<input type="checkbox"/> Failure to report a severe adverse event (SAE) to ethical review committees.
	<input type="checkbox"/> Other (<i>please specify</i>): _____	
13.	Brief summary of event (Description of event, location it occurred if relevant):	
14.	What steps have been taken to address this event?	
15.	What steps have been taken to prevent further occurrences?	
D. FORM COMPLETION		
16.	ID of person completing this form: __ __ __	Date form completed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
17.	ID of person reviewing this form: __ __ __	Date form reviewed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
18.	ID of person entering this form: __ __ __	Date form entered: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
19.	ID of person conducting data verification: __ __ __	Date of data verification: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 18— Diarrhea Case Surveillance Protocol Violation CRF

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 19— Adverse Event CRF

		<input type="checkbox"/> Definitely related	
		<input type="checkbox"/> Probably related	
		<input type="checkbox"/> Possibly related	
11.	Outcomes Attributed to the Event		
	<input type="checkbox"/> Resolved without sequelae	<input type="checkbox"/> Resolved with sequelae	
	<input type="checkbox"/> Recovering/Resolving	<input type="checkbox"/> Not Recovered/Not Resolved	
	<input type="checkbox"/> Resulted in death	<input type="checkbox"/> Unknown	
12.	Is this a Serious AE?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
13.	Was this event reported to the site-specific IRB?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No (<i>skip to Q15</i>)		
14.	If yes, date reported	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
15.	If Serious AE (Q12), was the SAE communicated to EFGH coordination team within 24 hours of event awareness?		
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
	<input type="checkbox"/> Not applicable, AE not serious		
16.	Are there any additional notes about the AE?		
	Comments and notes here		

C. FORM COMPLETION

		ID of person completing this form: _ _ _ _	Date form completed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
		ID of person reviewing this form: _ _ _ _	Date form reviewed: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
		ID of person entering this form: _ _ _ _	Date form entered: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
		ID of person conducting data verification: _ _ _ _	Date of data verification: _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)



Enterics for Global Health: *Shigella* Surveillance Study (EFGH)
**Population Enumeration & Healthcare Utilization
Survey Case Report Form Appendix**



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Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 01 – Population Enumeration

Purpose: *Population Enumeration*

Instructions: *Complete this form for each household/domestic structure in identified cluster that appears inhabited after the person able to give consent (head of household/primary caregiver/adult household member) has been asked to provide verbal consent – OR – if after three attempts, the head of household/primary caregiver/adult household member (herein referred to as “adult household member”) has not been home or available to ask for verbal consent. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and italics are instructions for study staff.*

A. VISIT INFORMATION

1.	Date:	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
2.	EFGH country site:	
	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia	
3.	Cluster number:	__ __ __
3a.	Sub-cluster number (<i>applicable to Kenya and The Gambia only</i>)	__ (1-4)
4.	Household identifier (<i>assigned if head of household/primary caregiver/adult household member have been asked for verbal consent - OR - if after three attempts, head of household/primary caregiver/adult household member have not been home or asked to consent</i>):	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
		__ __ _ (Fieldworker ID)
		__ __ (Sequential number)
5.	Did the study team approach the household?	
	<input type="checkbox"/> Yes, met the adult household member (<i>conduct verbal consent</i>)	
	<input type="checkbox"/> Yes, adult household member is contactable by phone (<i>conduct verbal consent</i>)	
	<input type="checkbox"/> Yes, but adult household member was not home after three attempts and is not contactable by phone (<i>end of form</i>)	
	<input type="checkbox"/> Yes, but no one was ever home at each of the three attempts OR it appears or has been confirmed that no one is living in the home during the ~ 2 week enumeration period (<i>end of form</i>)	
6.	Did the adult household member give verbal consent?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to form completion</i>)	
	<input type="checkbox"/> NA, adult household member/primary caregiver not able to provide consent (<i>skip to form completion</i>)	
7.	What is the name of the _____ (<i>insert site-specific administrative unit</i>) that this house is within?	
	__ __ __	
	<input type="checkbox"/> Other, specify: _____	
8.	How many people (<i>including yourself, adults and children</i>) currently live in the household?	
	__ __ __	
9.	Does a child under 5 years of age (<60 months) currently live in the household?	
	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to form completion</i>)	

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
Form 01— Population Enumeration

B. CHILD INFORMATION								
10.		How many children under 5 years of age (<60 months) currently live in the household?		_____	If 0, stop here. Questions below will be asked per each child under 5 years of age. The data system will automatically populate the number of rows below based on this answer.			
11.	Child num	What is the relationship of the person answering these questions to (name)?	Is this person the primary caregiver of the child?	Child sex	Child Initials	Date of birth/age	Age (auto generated in real time and confirmed with the caregiver)	Did this child experience diarrhea in the last two weeks (14 days) – that is 3 or more unusually loose or watery stools during a 24 hour period in the last 14 days? (only ask if the child is <60 months – automated question)
	1	<input type="checkbox"/> Biological mother <input type="checkbox"/> Biological father <input type="checkbox"/> Adopted mother <input type="checkbox"/> Adopted father <input type="checkbox"/> Grandmother <input type="checkbox"/> Grandfather <input type="checkbox"/> Aunt <input type="checkbox"/> Uncle <input type="checkbox"/> Older sister <input type="checkbox"/> Older brother <input type="checkbox"/> Other, specify: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Female <input type="checkbox"/> Male	<input type="text"/> <input type="text"/> <input type="text"/>	__ __ - __ __ - __ __ __ __ (dd-mm-yyyy) <input type="checkbox"/> Day Missing <input type="checkbox"/> Month Missing <input type="checkbox"/> Year Missing ____ months (self report)	____ months	<input type="checkbox"/> Yes <input type="checkbox"/> No (form complete) <input type="checkbox"/> Don't Know (form complete)
	X	<input type="checkbox"/> Biological mother <input type="checkbox"/> Biological father	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Female <input type="checkbox"/> Male	<input type="text"/> <input type="text"/> <input type="text"/>	__ __ - __ __ - __ __ __ __	____ months	<input type="checkbox"/> Yes <input type="checkbox"/> No (form complete)

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
 Implementing Institution Name/Country Site
 Form 01— Population Enumeration**

<input type="checkbox"/> Adopted mother <input type="checkbox"/> Adopted father <input type="checkbox"/> Grandmother <input type="checkbox"/> Grandfather <input type="checkbox"/> Aunt <input type="checkbox"/> Uncle <input type="checkbox"/> Older sister <input type="checkbox"/> Older brother <input type="checkbox"/> Other, specify: _____				_____ (dd-mm-yyyy) <input type="checkbox"/> Day Missing <input type="checkbox"/> Month Missing <input type="checkbox"/> Year Missing _____ months (self report)		<input type="checkbox"/> Don't Know (form complete)
---	--	--	--	---	--	---

If one or more children are between 6 to <36 months of age and had diarrhea in the last 14 days, continue. If not, skip to form completion.

C. Comments

12. If there is anything unique about this visit, please record a description in the comments section. If this was a household that previously refused consent and then changed their mind and requested to participate (provided consent), it is required to indicate that information here and to include the original household identifier.

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02a – Healthcare Utilization Survey

Purpose: *Healthcare utilization survey*

Instructions: *Complete the following questions for each child in the household between 6-35 months of age after consent is received. The questions should be answered by a household member who spends the most time with the child and is best able to recall symptoms related to the **most recent diarrheal episode (likely the primary caregiver)**. Diarrhea is defined as 3 or more loose stools in a 24 hour period. A diarrheal episode is diarrhea that began after at least 2 days without diarrhea. Use the memory aid and ask the caregiver to answer the following questions thinking about the most recent episode of diarrhea. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.*

A. VISIT INFORMATION

1.	Date:	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
2.	EFGH country site:	
	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia	
3.	Cluster number:	__ __ __
3a.	Sub-cluster number (<i>applicable to Kenya and The Gambia only</i>)	__ (1-4)
4.	Household identifier (<i>same identifier as that assigned for the household enumeration</i>):	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
		__ __ __ (Fieldworker ID)
		__ __ (Sequential number)

B. DIARRHEA SIGNS AND SYMPTOMS (ODK will auto-generate this section for each eligible child)

5.	Child Initials & Age : <i>ODK to autopopulate the list of children with initials and age who had diarrhea reported in section B of Form 01 – Population Enumeration CRF</i>	__ __ __ Child Initials	__ __ Age (months)
6.	Who is answering the HUS questions on behalf of this child?	<input type="checkbox"/> Primary Caregiver of the Child <input type="checkbox"/> Other Household Member	
7.	What is the relationship of the respondent to the child?		
	<input type="checkbox"/> Biological mother	<input type="checkbox"/> Biological father	<input type="checkbox"/> Adopted mother
	<input type="checkbox"/> Grandmother	<input type="checkbox"/> Grandfather	<input type="checkbox"/> Aunt
	<input type="checkbox"/> Uncle	<input type="checkbox"/> Older sister	<input type="checkbox"/> Older brother
	<input type="checkbox"/> Other, specify: _____		
8.	Did the adult household member and/or primary caregiver give informed consent for participation in the healthcare utilization survey?		
	<input type="checkbox"/> Yes, verbal consent was obtained for the healthcare utilization survey <input type="checkbox"/> Yes, written informed consent was obtained for the healthcare utilization survey <input type="checkbox"/> No, declined consent (<i>end of form</i>) <input type="checkbox"/> No, primary caregiver is not available. Will revisit household to complete healthcare utilization survey (<i>end of form. Complete HUS Revisit Form upon revisiting household</i>)		

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02a – Healthcare Utilization Survey

9.	When did the diarrhea start? Refer to calendar to determine date if # of days ago known but not exact date	_ _ _ - _ _ _ - _ _ _ _ _ _ (dd-mm-yyyy)
10.	When did the diarrhea end? Refer to calendar to determine date if # of days ago known but not exact date	_ _ _ - _ _ _ - _ _ _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Ongoing
11.	Duration of diarrhea by date calculation (auto-generated)	_____ (days) (Add suggested range 1 to 14 in ODK)
12.	On the worst day of diarrhea during this episode, how many loose stools did the child have in one day (24 hours)?	_____ loose stools
13.	Did the child have any of the following symptoms during his/her diarrheal illness? (Use the memory aid to show pictures of each of these symptoms)	
	Blood in stool:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Irritable/less play:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Sunken eyes:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Wrinkled skin:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Drinks eagerly, thirsty:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Unable to drink or drank poorly:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
	Lethargic, unconscious, or hard to stay awake:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know
14.	Did the child vomit at any time during the episode of diarrhea?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q15) <input type="checkbox"/> Don't know (skip to Q15)	
14a.	How many days did the child vomit?	_____ (days) (Add suggested range 1 to 14 in ODK)
14b.	Thinking about the day when the child had the most vomiting, how many times did s/he vomit in the day?	_____
15.	At any any point during the diarrheal episode, did the child have any fever? (Fever meaning the child was hot to touch)	
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q16) <input type="checkbox"/> Don't know (skip to Q16)	
15a.	If yes, what was the highest temperature?	_____ °C <input type="checkbox"/> Temperature not collected
15b.	How many days did s/he have the fever?	_____ days
16.	Did you seek care for the child's diarrhea outside your home?	
	<input type="checkbox"/> Yes (skip to Q17) <input type="checkbox"/> No	
16a.	If No to Q16, why not? _____ _____	
	<i>(If did not seek care for child's diarrhea outside the home, form complete.)</i>	
17.	If you sought treatment or care for the child for this illness where did you go? (check all that apply)	

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02a – Healthcare Utilization Survey**

	<u>Facility</u>	<u>Date first visited</u>		
	<input type="checkbox"/> EFGH Facility X	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
	<input type="checkbox"/> EFGH Facility X	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
	<input type="checkbox"/> Other health facility (outpatient care)	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
	<input type="checkbox"/> Other health facility (inpatient care)	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)		
	<input type="checkbox"/> Other (specify, check all that apply)			
	<input type="checkbox"/> Traditional healer <input type="checkbox"/> Drug seller <input type="checkbox"/> Community Health worker <input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> Religious healer <input type="checkbox"/> Pharmacist <input type="checkbox"/> Health outpost		
18.	What day of the child's diarrhea did the caregiver visit a hospital or health center? (auto-generated in ODK; If today, "00" will be displayed)	_____		
19.	Did the clinical team at any care provider advise the child be hospitalized during this illness?			
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q21)			
20.	Was the child admitted to the hospital (i.e. at least an overnight stay) during this illness?			
	<input type="checkbox"/> Yes <input type="checkbox"/> No			
21.	Did the child receive any of the following to treat the diarrhea? (check all that apply)			
	Intravenous fluids	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	A drinkable fluid made from a special packet called ORALITE or ORS	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Homemade fluid (such as thin watery porridge made from maize, rice, wheat, soup, sugar, salt water solution or yogurt-based drink)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Antibiotic	<input type="checkbox"/> Yes (specify)	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	<i>If antibiotic was received, specify type received (check all that apply):</i>			
	<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Artesunate	<input type="checkbox"/> Ampicillin
	<input type="checkbox"/> Augmentin/ Co-amoxiclav	<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> Cefuroxime
	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Clindamycin	<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> Cotrimoxazole (Septrin)
	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Erythromycin	<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Penicillin
	<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Streptomycin	<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Unknown
	<input type="checkbox"/> Other (specify): _____			

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02a – Healthcare Utilization Survey

	Antisecretory or antiemetics	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Zinc	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Traditional medicine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	None of the above	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (Bangladesh)

Purpose: To collect household wealth information at the Bangladesh site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Bangladesh EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **Does your household have a television?** Yes No
2. **Does your household have a refrigerator?** Yes No
3. **Does your household have an almirah/wardrobe?** Yes No
4. **Does your household have an electric fan?** Yes No
5. **What is the main material of the floor? (select one)**
 Cement Earth/sand
 Other material
6. **What is the main material of the exterior walls? (select one)**
 Cement Other material
7. **What is the main material of the roof? (select one)**
 Cement Other material

B. ADDITIONAL QUESTIONS

8. **Does your household have an oven?** Yes No
9. **Does your household have a motor bike?** Yes No
10. **Does your household have a car?** Yes No
11. **Does your household have an AC?** Yes No
12. **Does your household have a sewing machine?** Yes No
13. **Does your household have a bi-cycle?** Yes No
14. **Does your household have a dining table?** Yes No
15. **Does your household have a sofa?** Yes No
16. **Does your household have a radio?** Yes No
17. **Household ownership?**
 Own Rented
 Occupied
18. **Source of drinking water**
 Own tap Communal hand pump
 Own tube well Bottled water

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)

Implementing Institution Name/Country Site

CRF 02b— Wealth Index Form (Bangladesh)

- Own well
- Own hand pump
- Communal tap
- Communal tube well
- Others

- Water vendor
- Stored in reservoir
- Pond/canal/river
- Shared tap/tube well/well in HH

19. **Shared latrine** Yes No

20. **Latrine type**

Sanitary latrine with flush

Sanitary latrine without flush

Non-sanitary/no water seal latrine

No latrine/use open space

C. FORM COMPLETION

21. ID of person completing this form: |__|__|__|

Date form completed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

22. ID of person reviewing this form: |__|__|__|

Date form reviewed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

23. ID of person entering this form: |__|__|__|

Date form entered:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

24. ID of person conducting data verification: |__|__|__|

Date of data verification:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (The Gambia)

Purpose: To collect household wealth information at The Gambia site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at The Gambia EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

DETERMINE IF THE RESPONDENT LIVES IN AN URBAN OR RURAL AREA

Urban

Rural

1. **Does your household have a sofa?**

Yes No

2. **Does your household have a wardrobe?**

Yes No

3. **Does your household have a television?**

Yes No

4. **Does your household have a refrigerator?**

Yes No

5. **Does your household have a DVD / VCD player?**

Yes No

6. **Does your household have a satellite dish?**

Yes No

7. **Does any member of your household own: a bicycle?**

Yes No

8. **What is the main source of drinking water for members of your household? (*select one*)**

Public tap / Standpipe

Other water source

Piped to yard

9. **What kind of toilet facility do members of your household usually use?**

Flush to septic tank

Other toilet type

Pit latrine w/o slab/ Open Pit

10. **What is the main material of the floor in your household? (*select one*)**

Ceramic tile

Other floor material

11. **What is the main material of the exterior walls of your household? (*select one*)**

Ceramic tile

Other wall material

12. **How many of the following animals does your household own: Cattle?**

None

1 or more

13. **... Milk cows or bulls?**

None

1 or more

14. **... Horses, donkeys, or mules?**

None

1 or more.

5 or more

15. **... Goats?**

None

1 or more

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (The Gambia)

16. ... Sheep? None 1 or more

B. ADDITIONAL QUESTIONS

17. Does your household have a functioning television? Yes No

18. Does your household have a functioning radio? Yes No

19. Does your household have a functioning refrigerator/fridge? Yes No

20. Does any member of your household own: a functioning motorcycle/scooter? Yes No

21. Does your household have functioning animal-drawn cart? Yes No

22. What is the main material of the roof in your household? (*select one*)

Thatch/Palm leaf

Metal/Tin/Cement

Other roof material

23. Does your household own any chicken, Guinea fowl, ducks, turkeys or geese? Yes No

C. FORM COMPLETION

24. ID of person completing this form: |__|__|__|

Date form completed:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

25. ID of person reviewing this form: |__|__|__|

Date form reviewed:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

26. ID of person entering this form: |__|__|__|

Date form entered:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

27. ID of person conducting data verification:
|__|__|__|

Date of data verification:

|__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (Kenya)

Purpose: To collect household wealth information for participants enrolled at the Kenya site.

Instructions: Please complete this form for all participants enrolled at the Kenya EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **Does your household have electricity?** Yes No (*skip Q14*)
2. **Does your household have a television?** Yes No (*skip Q15*)
3. **Does your household have a sofa?** Yes No
4. **Does your household have a cupboard?** Yes No
5. **Does your household have a DVD player?** Yes No (*skip Q16*)
6. **Does your household have a radio?** Yes No (*skip Q17*)
7. **Does your household have a table?** Yes No
8. **Does your household have a clock?** Yes No (*skip Q18*)
9. **What is the main material of the floor of your dwelling?** (*select one*)
 Cement Other
 Earth/sand
10. **What is the main material of the external walls of your dwelling?** (*select one*)
 Dung/mud/soil Other
11. **What is the main material of the roof of your dwelling?** (*select one*)
 Thatch/grass/makuti Other
12. **What type of fuel does your household mainly use for cooking?** (*select one*)
 Wood Other
 LPG/Natural gas
13. **What kind of toilet facility do members of your household usually use?** (*select one*)
 No facility/bush/field Other

B. ADDITIONAL QUESTIONS

14. **Does your household have a functioning electricity?** Yes No
15. **Does your household have a functioning television?** Yes No
16. **Does your household have a functioning DVD player?** Yes No
17. **Does your household have a functioning radio?** Yes No
18. **Does your household have a functioning clock?** Yes No

C. FORM COMPLETION

19. ID of person completing this form: |__|__|__| Date form completed: |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)
20. ID of person reviewing this form: |__|__|__| Date form reviewed: |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)
21. ID of person entering this form: |__|__|__| Date form entered: |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)
22. ID of person conducting data verification: |__|__|__| Date of data verification: |__|__| - |__|__| - | 2 | 0 |__|__| (*dd-mm-yyyy*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b – Wealth Index Form (Malawi)

Purpose: To collect household wealth information at the Malawi site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Malawi EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **Does your household have electricity?** Yes No
2. **Does your household have a radio?** Yes No
3. **Does your household have a television?** Yes No
4. **Does your household have a bed with a mattress?** Yes No
5. **Does your household have a sofa?** Yes No
6. **Does any member of this household own a mobile phone?** Yes No
7. **Does any member of this household have a bank account?** Yes No
8. **What is the main material of the floor in your household? (select one)**
 Earth/sand Cement
 Other floor material
9. **What is the main material of the roof in your household? (select one)**
 Thatch/palm leaf Metal
 Other roof material
10. **What type of fuel does your household mainly use for cooking? (select one)**
 Wood Other type of fuel

B. FORM COMPLETION

- | | |
|---|---|
| 11. ID of person completing this form: __ __ __ | Date form completed:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 12. ID of person reviewing this form: __ __ __ | Date form reviewed:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 13. ID of person entering this form: __ __ __ | Date form entered:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 14. ID of person conducting data verification:
 __ __ __ | Date of data verification:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b – Wealth Index Form (Mali)

Purpose: To collect household wealth information at the Mali site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Mali EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **In your house, do you have electricity?** Yes No
2. **In your house, do you have a television?** Yes No
3. **In your house, do you have a bed?** Yes No
4. **In your house, do you have a fan?** Yes No
5. **In your house, do you have a cupboard** Yes No
6. **In your house, do you have a CD/DVD player?** Yes No
7. **In your house, do you have a refrigerator?** Yes No
8. **In your house, do you have a chair?** Yes No
9. **In your house, do you have a motorcycle or scooter?** Yes No
10. **In your house, do you have soap, washing powder, or ash/sand/dirt for washing your hands?** Yes No
11. **Does any member of this household have a bank account?** Yes No Don't know
12. **Where is your principal source of drinking water located?** (*select one*)
 Outside of the plot Within the plot
13. **What is the distance to the principal source of drinking water?**
 Less than 30 minutes round trip More than 30 minutes round trip
14. **Main material of exterior walls of the house?** (*select one*)
 Brick Other
15. **Main material of roof of house?** (*select one*)
 Cement Mud with wood
 Other
16. **Main material of floor of house?** (*select one*)
 Earth/sand floor Ceramic tile floor
 Other
17. **In your house, what is the main fuel used for cooking?** (*select one*)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)

Implementing Institution Name/Country Site

CRF 02b – Wealth Index Form (Mali)

Charcoal

Wood

Other

18. Does your household own any pigs?

Yes No

19. Does your household own any camels or dromedaries?

Yes No

20. Does your household own any Guinea fowl, ducks, turkeys or geese?

Yes No

B. FORM COMPLETION

21. ID of person completing this form: |__|__|__|

Date form completed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

22. ID of person reviewing this form: |__|__|__|

Date form reviewed:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

23. ID of person entering this form: |__|__|__|

Date form entered:

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

24. ID of person conducting data verification:

Date of data verification:

|__|__|__|

|__|__| - |__|__| - | 2 | 0 |__|__| (dd-mm-yyyy)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (Pakistan)

Purpose: To collect household wealth information at the Pakistan site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Pakistan EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **Does your household have a refrigerator?** Yes No
2. **Does your household have a washing machine?** Yes No
3. **Does your household have a sofa?** Yes No
4. **Does your household have a chair?** Yes No
5. **Does your household have an Almirah/cabinet?** Yes No
6. **Does your household have a computer?** Yes No
7. **Does your household have an internet connection?** Yes No
8. **Does your household have a bed?** Yes No
9. **Does any member of this household have a bank account?** Yes No
10. **What type of fuel does your household mainly use for cooking? (*select one*)**
 Wood Other
11. **What is the main material of the roof in your household? (*select one*)**
 Cement/RCC Other
12. **What is the main material of the walls in your household? (*select one*)**
 Cement Other

B. FORM COMPLETION

- | | |
|--|--|
| 13. ID of person completing this form: __ __ __ | Date form completed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 14. ID of person reviewing this form: __ __ __ | Date form reviewed:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 15. ID of person entering this form: __ __ __ | Date form entered:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |
| 16. ID of person conducting data verification: __ __ __ | Date of data verification:
 _ _ - _ _ - 2 0 _ _ (dd-mm-yyyy) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 02b— Wealth Index Form (Peru)

Purpose: To collect household wealth information at the Peru site.

Instructions: Please complete this form for all households that are included in the Healthcare Utilization Survey at the Peru EFGH site. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.

A. WEALTH INDEX

1. **Does your household have a computer?** Yes No
2. **Does your household have a bookshelf?** Yes No
3. **Does your household have windows with curtains or blinds?** Yes No
4. **Does your household have a sofa?** Yes No
5. **What type of toilet does your household use? (select one)**
 Indoor connected to public sewer Other
6. **What type of material is the roof made of in your household? (select one)**
 Reinforced concrete Other
7. **What type of material are the walls made of in your household? (select one)**
 Brick or cement block Other

B. FORM COMPLETION

- | | |
|---|---|
| 8. ID of person completing this form: __ __ __ | Date form completed:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 9. ID of person reviewing this form: __ __ __ | Date form reviewed:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 10. ID of person entering this form: __ __ __ | Date form entered:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |
| 11. ID of person conducting data verification:
 __ __ __ | Date of data verification:
 __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>) |

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 03 – Revisit Household for Healthcare Utilization Survey

Purpose: *Revisit the households that were placed on revisit list for Healthcare Utilization survey to assess eligibility of the child for Healthcare Utilization survey, obtain informed consent from the child’s caregiver and conduct Healthcare Utilization survey.*

Instructions: *Complete the following questions for each child in the household that you are attempting to revisit. The questions should be answered by a household member who spends the most time with the child and is best able to recall symptoms related to the **most recent diarrheal episode (likely the primary caregiver)**. Diarrhea is defined as 3 or more loose stools in a 24 hour period. A diarrheal episode is diarrhea that began after at least 2 days without diarrhea. Use the memory aid and ask the caregiver to answer the following questions thinking about the most recent episode of diarrhea. Text in **bold** should be read to study participants, plain text is for prompts for study staff, and *italics* are instructions for study staff.*

A. VISIT INFORMATION

1.	Date:	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
2.	EFGH country site:	
	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia	
3.	Cluster number:	__ __ __
3a.	Sub-cluster number (<i>applicable to Kenya and The Gambia only</i>)	__ (1-4)

B. REVISIT INFORMATION

4.	Household identifier (<i>same identifier as that assigned for the household enumeration</i>) (<i>select from filtered dropdown list by cluster in the data system</i>):	__ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)	__ __ __ (Fieldworker ID)	__ __ (Sequential number)
<i>In the data system, select the Household ID where the child for whom you are repeating the visit lives and attempting to conduct the Healthcare Utilization survey and skip to Section D. If the Household ID is not listed, re-enter the original Household ID and complete Section C.</i>				

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 03 – Revisit Household for Healthcare Utilization Survey

C. CHILD INFORMATION								
5.		How many children under 5 years of age (<60 months) currently live in the household? _____			If 0, stop here. Questions below will be asked per each child under 5 years of age. The data system will automatically populate the number of rows below based on this answer.			
6.	Child num	What is the relationship of the person answering these questions to (name)?	Is this person the primary caregiver of the child?	Child sex	Child Initials	Date of birth/age	Age (auto generated in real time and confirmed with the caregiver)	Did this child experience diarrhea in the last two weeks (14 days) – that is 3 or more unusually loose or watery stools during a 24 hour period in the last 14 days? (only ask if the child is <60 months – automated question)
	1	<input type="checkbox"/> Biological mother <input type="checkbox"/> Biological father <input type="checkbox"/> Adopted mother <input type="checkbox"/> Adopted father <input type="checkbox"/> Grandmother <input type="checkbox"/> Grandfather <input type="checkbox"/> Aunt <input type="checkbox"/> Uncle <input type="checkbox"/> Older sister <input type="checkbox"/> Older brother <input type="checkbox"/> Other, specify: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Female <input type="checkbox"/> Male	<input type="text"/> <input type="text"/> <input type="text"/>	_ _ - _ _ - _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Day Missing <input type="checkbox"/> Month Missing <input type="checkbox"/> Year Missing _____ months (self report)	_____ months	<input type="checkbox"/> Yes <input type="checkbox"/> No (form complete) <input type="checkbox"/> Don't Know (form complete)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 03 – Revisit Household for Healthcare Utilization Survey

X	<input type="checkbox"/> Biological mother <input type="checkbox"/> Biological father <input type="checkbox"/> Adopted mother <input type="checkbox"/> Adopted father <input type="checkbox"/> Grandmother <input type="checkbox"/> Grandfather <input type="checkbox"/> Aunt <input type="checkbox"/> Uncle <input type="checkbox"/> Older sister <input type="checkbox"/> Older brother <input type="checkbox"/> Other, specify: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Female <input type="checkbox"/> Male	<input type="text"/> <input type="text"/> <input type="text"/>	_ _ - _ _ - _ _ _ _ (dd-mm-yyyy) <input type="checkbox"/> Day Missing <input type="checkbox"/> Month Missing <input type="checkbox"/> Year Missing	_____ months	<input type="checkbox"/> Yes <input type="checkbox"/> No (form complete) <input type="checkbox"/> Don't Know (form complete)
	_____ months (self report)						

If one or more children are between 6 to <36 months of age and had diarrhea in the last 14 days, continue to Section D. If not, skip to Section E Form Completion.

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 03 – Revisit Household for Healthcare Utilization Survey

D. DIARRHEA SIGNS AND SYMPTOMS (ODK will auto-generate this section for each eligible child)

7.	Did the adult household member and/or primary caregiver give informed consent for participation in the healthcare utilization survey?		
	<input type="checkbox"/> Yes, verbal consent was obtained for the healthcare utilization survey <input type="checkbox"/> Yes, written informed consent was obtained for the healthcare utilization survey <input type="checkbox"/> No, declined consent (<i>end of form</i>)		
8.	Child Initials & Age : <i>ODK to autopopulate the list of children with initials and age who had diarrhea reported in section C or in the previously completed Population Enumeration Form</i>	_ _ _ _ Child Initials	_ _ _ Age (months)
9.	Who is answering the HUS questions on behalf of this child?	<input type="checkbox"/> Primary Caregiver of the Child <input type="checkbox"/> Other Household Member	
10.	What is the relationship of the respondent to the child?		
	<input type="checkbox"/> Biological mother	<input type="checkbox"/> Biological father	<input type="checkbox"/> Adopted mother
	<input type="checkbox"/> Grandmother	<input type="checkbox"/> Grandfather	<input type="checkbox"/> Aunt
	<input type="checkbox"/> Uncle	<input type="checkbox"/> Older sister	<input type="checkbox"/> Older brother
	<input type="checkbox"/> Other, specify: _____		
11.	When did the diarrhea start? Refer to calendar to determine date if # of days ago known but not exact date	_ _ _ - _ _ _ - _ _ _ _ _ (dd-mm-yyyy)	
12.	When did the diarrhea end? Refer to calendar to determine date if # of days ago known but not exact date	_ _ _ - _ _ _ - _ _ _ _ _ (dd-mm-yyyy)	
		<input type="checkbox"/> Ongoing	
13.	Duration of diarrhea by date calculation (auto-generated)	_____(days) (Add suggested range 1 to 14 in ODK)	
14.	On the worst day of diarrhea during this episode, how many loose stools did the child have in one day (24 hours)?	_____ loose stools	
15.	Did the child have any of the following symptoms during his/her diarrheal illness? (<i>Use the memory aid to show pictures of each of these symptoms</i>)		
	Blood in stool:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Irritable/less play:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Sunken eyes:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Wrinkled skin:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Drinks eagerly, thirsty:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Unable to drink or drank poorly:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
	Lethargic, unconscious, or hard to stay awake:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	
16.	Did the child vomit at any time during the episode of diarrhea?		
	<input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Q18</i>) <input type="checkbox"/> Don't know (<i>skip to Q18</i>)		

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
 Implementing Institution Name/Country Site
 CRF 03 – Revisit Household for Healthcare Utilization Survey**

	16a.	How many days did the child vomit?	_____ (days) (Add suggested range 1 to 14 in ODK)
	16b.	Thinking about the day when the child had the most vomiting, how many times did s/he vomit in the day?	_____
17.	At any any point during the diarrheal episode, did the child have any fever? (Fever meaning the child was hot to touch)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q18) <input type="checkbox"/> Don't know (skip to Q18)		
	18a.	If yes, what was the highest temperature?	_____ °C <input type="checkbox"/> Temperature not collected
	18b.	How many days did s/he have the fever?	_____ days
18.	Did you seek care for the child's diarrhea outside your home?		
	<input type="checkbox"/> Yes (skip to Q19) <input type="checkbox"/> No		
	18a.	If No to Q18, why not? _____	
	(If did not seek care for child's diarrhea outside the home, form complete.)		
19.	If you sought treatment or care for the child for this illness where did you go? (check all that apply)		
		<u>Facility</u>	<u>Date first visited</u>
	<input type="checkbox"/>	EFGH Facility X	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
	<input type="checkbox"/>	EFGH Facility X	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
	<input type="checkbox"/>	Other health facility (outpatient care)	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
	<input type="checkbox"/>	Other health facility (inpatient care)	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
	<input type="checkbox"/>	Other (specify, check all that apply)	
	<input type="checkbox"/>	Traditional healer	<input type="checkbox"/> Religious healer
	<input type="checkbox"/>	Drug seller	<input type="checkbox"/> Pharmacist
	<input type="checkbox"/>	Community Health worker	<input type="checkbox"/> Health outpost
	<input type="checkbox"/>	Other (specify): _____	
21.	What day of the child's diarrhea did the caregiver visit a hospital or health center? (auto-generated in ODK; If today, "00" will be displayed)		_____
22.	Did the clinical team at any care provider advise the child be hospitalized during this illness?		
	<input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q24)		
23.	Was the child admitted to the hospital (i.e. at least an overnight stay) during this illness?		
	<input type="checkbox"/> Yes <input type="checkbox"/> No		
24.	Did the child receive any of the following to treat the diarrhea? (check all that apply)		

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 03 – Revisit Household for Healthcare Utilization Survey

	Intravenous fluids	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	A drinkable fluid made from a special packet called ORALITE or ORS	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Homemade fluid (such as thin watery porridge made from maize, rice, wheat, soup, sugar, salt water solution or yogurt-based drink)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Antibiotic	<input type="checkbox"/> Yes (<i>specify</i>)	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	<i>If antibiotic was received, specify type received (check all that apply):</i>			
	<input type="checkbox"/> Amoxicillin	<input type="checkbox"/> Azithromycin	<input type="checkbox"/> Artesunate	<input type="checkbox"/> Ampicillin
	<input type="checkbox"/> Augmentin/ Co-amoxiclav	<input type="checkbox"/> Ceftriaxone	<input type="checkbox"/> Ciprofloxacin (Cipro)	<input type="checkbox"/> Cefuroxime
	<input type="checkbox"/> Clarithromycin	<input type="checkbox"/> Clindamycin	<input type="checkbox"/> Chloramphenicol	<input type="checkbox"/> Cotrimoxazole (Septrin)
	<input type="checkbox"/> Doxycycline	<input type="checkbox"/> Erythromycin	<input type="checkbox"/> Gentamicin	<input type="checkbox"/> Penicillin
	<input type="checkbox"/> Pyrazinamide	<input type="checkbox"/> Streptomycin	<input type="checkbox"/> Tetracycline	<input type="checkbox"/> Unknown
	<input type="checkbox"/> Other (<i>specify</i>): _____			
	Antisecretory or antiemetics	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Zinc	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	Traditional medicine	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know
	None of the above	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Don't know

E. FORM COMPLETION

25.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
26.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
27.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
28.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name/Country Site
CRF 04 – Cluster Completion Form

Purpose: Document completion of all households in a cluster.

Instructions: Complete this form after all households in an identified cluster have been approached/visited and no further attempts will be made.

A. VISIT INFORMATION		
1.	Date:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)
2.	EFGH country site:	
	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya
	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
	<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru
	<input type="checkbox"/> The Gambia	
3.	Cluster number:	_ _ _
	3a. Sub-cluster number (<i>applicable to Kenya and The Gambia only</i>)	_ (1-4)
4.	Did the study team approach all households at least three times (if needed) and complete the PE and HUS CRF for each household in the cluster number noted above?	
	<input type="checkbox"/> Yes <input type="checkbox"/> No; there are no household structures in satellite image and expected population size is zero <input type="checkbox"/> No; it was not possible to visit all households due to extreme weather or safety concerns <input type="checkbox"/> Other (<i>specify</i>): _____	
5.	How many unique households were visited within this cluster?	_ _ _ _

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
Population Enumeration & HUS Protocol Violation Form

Purpose: To capture information about Population Enumeration (PE) & Healthcare Utilization Survey (HUS)-related protocol violations that occurred from the start of study until the end of the study duration.

Form Instructions: Please complete this form for all PE & HUS protocol violations. If multiple IDs are affected by the violation, please list the affected IDs in the relevant section. Please note that only protocol violations (not deviations) are reported here. As a reminder, a protocol violation is defined as a consistent variation in practice from study protocol/SOPs that may affect participant safety, participant willingness to participate in the study, and/or integrity of the research or study data. Protocol violation is a subset of protocol deviation.

Reporting Instructions: To Report a PE & HUS Protocol Violation, please email the completed form to efgh@uw.edu with the email subject "Site Name – PE & HUS Protocol Violation Report."

A. SITE INFORMATION

1.	EFGH country site:	<input type="checkbox"/> Bangladesh	<input type="checkbox"/> Kenya	<input type="checkbox"/> Malawi	<input type="checkbox"/> Mali
		<input type="checkbox"/> Pakistan	<input type="checkbox"/> Peru	<input type="checkbox"/> The Gambia	
2.	Date violation occurred:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)			
3.	Date study staff was made aware of violation	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)			
4.	Date reported by email to EFGH Coordination team (efgh@uw.edu)	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)			

B. PROTOCOL VIOLATION REPORTING

5.	Is the site PI aware of the violation?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6.	Was this event reported to the site-specific IRB?	<input type="checkbox"/> Yes	<input type="checkbox"/> No (<i>skip to Q8</i>)
7.	If yes, date reported to local IRB:	_ _ - _ _ - 2 0 _ _ (dd-mm-yyyy)	
8.	Was this event entered in the Protocol Deviation/ Violations Log?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
9.	Was the participant informed of the Protocol Violation?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Not applicable	

C. DESCRIPTION OF PROTOCOL VIOLATION

10.	Nature of violation (<i>check all that apply</i>)	<input type="checkbox"/> Consent not obtained or documented	<input type="checkbox"/> Consent obtained using outdated consent form
		<input type="checkbox"/> Failure to provide a copy of signed consent form to the participant caregiver	<input type="checkbox"/> Administration of Healthcare Utilization Survey to household who did not meet the inclusion/exclusion criteria
		<input type="checkbox"/> Undertaking of a study procedure not approved by IRB	<input type="checkbox"/> Breach in confidentiality

**Enterics for Global Health – *Shigella* Surveillance Study (EGH)
 Implementing Institution Name (Country Site)
 Population Enumeration & HUS Protocol Violation Form**

	<input type="checkbox"/> Loss of tablet or study equipment that contains identifiable information about participant	<input type="checkbox"/> Other (<i>please specify</i>): _____ _____
11.	Who is affected by the violation? (<i>select one</i>)	
	<input type="checkbox"/> Individual	
	Enter Affected Household ID: __ __ - __ __ - 2 0 __ __ - __ __ __ - __ __ (<i>skip to Q13</i>)	
	<input type="checkbox"/> Site-wide	
	List affected Household IDs:	
12.	Brief summary of event (Description of event, location it occurred if relevant):	
13.	What steps have been taken to address this event?	
14.	What steps have been taken to prevent further occurrences?	
D. FORM COMPLETION		
15.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
16.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)



Enterics for Global Health: *Shigella* Surveillance Study (EFGH)

Lab Case Report Form Appendix



Table of Contents

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15	Specimen Accession
16	Stool Culture Results – Rectal Swab
16a	Shigella Serotyping & AST Results – Rectal Swab
17	Stool Culture Results - Whole Stool (<i>Gambia & Bangladesh only</i>)
17a	Shigella Serotyping & AST - Whole Stool

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 15 - Specimen Accession Form**

Purpose: *To capture specimen accession and storage information for all biological specimens collected in EFGH.*
Note: *temperature excursions are asked separately for rectal swabs (asked only for rectal swab #1 as it is assumed all swabs are shipped together) and whole stools in case whole stool is shipped separate from swabs.*

Instructions: *Complete this form for all enrolled participants.*

PLEASE PLACE PARTICIPANT LABEL HERE (OPTIONAL):

A. PARTICIPANT INFORMATION	
1.	Participant ID __ __ __ __ __ __ __
2.	EFGH country site: <input type="checkbox"/> Bangladesh <input type="checkbox"/> Kenya <input type="checkbox"/> Malawi <input type="checkbox"/> Mali <input type="checkbox"/> Pakistan <input type="checkbox"/> Peru <input type="checkbox"/> The Gambia
3.	Enrollment facility ID: __ __
4.	Visit specimens were collected at <input type="checkbox"/> Enrollment (<i>complete all sections</i>) <input type="checkbox"/> Week 4 (<i>complete Sections G & H only</i>)
B. RECTAL SWAB 1 (DRY) (enrollment visit only)	
5.	Is there a dry rectal swab (swab 1) available for this participant? <input type="checkbox"/> Yes <input type="checkbox"/> No (<i>skip to Section C</i>)
6.	Date sample received at central lab: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
7.	Time sample received at central lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
8.	Specimen ID: _____ <input type="checkbox"/> Not applicable
9.	What type of temperature monitor was used for the rectal swab shipment? <i>Note it is assumed that all rectal swabs utilize the same temperature monitor</i> <input type="checkbox"/> WarmMark <input type="checkbox"/> 3M (<i>skip to Q11</i>) <input type="checkbox"/> No monitor available (<i>skip to Q12</i>)
10.	Temperature excursion for 3 rectal swab shipment (<i>based on WarmMark monitor read</i>): <input type="checkbox"/> Not reached (<i>no color change on WarmMark monitor</i>) <input type="checkbox"/> Brief <input type="checkbox"/> Moderate <input type="checkbox"/> Prolonged <i>Answer Q10, then skip to Q12</i>
11.	Temperature excursion for 3 rectal swab shipment (<i>based on 3M monitor read</i>): <input type="checkbox"/> 0 (No excursion) <input type="checkbox"/> 0-1 (30 minutes-9 hours) <input type="checkbox"/> 2 (10-20 hours) <input type="checkbox"/> 3 (21-30 hours) <input type="checkbox"/> 4 (31-40 hours) <input type="checkbox"/> 5 (41+ hours)
12.	Is the dry rectal swab (swab 1) acceptable for accessioning? <input type="checkbox"/> Yes (<i>skip to Q13</i>)

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 15 - Specimen Accession Form**

	<input type="checkbox"/> No, not acceptable for accessioning (<i>answer Q12a, skip to Section C</i>)
12a.	If not acceptable, why? (<i>select all that apply</i>)
	<input type="checkbox"/> Improperly labelled
	<input type="checkbox"/> Sample containers did not arrive tightly shut
	<input type="checkbox"/> Other (<i>specify</i>): _____
13.	Date rectal swab was placed in -80°C freezer: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
14.	Time rectal swab was placed in -80°C freezer: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
	Comments (<i>optional</i>):
C. RECTAL SWAB 2 (MODIFIED BGS) (<i>enrollment visit only</i>)	
15.	Is there a mBGS rectal swab (swab 2) available for this participant?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Section D</i>)
16.	Date samples received at central lab: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
17.	Time samples received at central lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
18.	Specimen ID: _____ <input type="checkbox"/> Not applicable
19.	Is the mBGS rectal swab (swab 2) acceptable for accessioning?
	<input type="checkbox"/> Yes (<i>skip to Q20</i>)
	<input type="checkbox"/> No, not acceptable for accessioning
19a.	If not acceptable, why? (<i>select all that apply</i>)
	<input type="checkbox"/> Improperly labelled
	<input type="checkbox"/> Sample containers did not arrive tightly shut
	<input type="checkbox"/> Other (<i>specify</i>): _____
	Comments (<i>optional</i>):
D. RECTAL SWAB 3 (CARY-BLAIR) (<i>enrollment visit only</i>)	
20.	Is there a Cary-Blair rectal swab (swab 3) available for this participant?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Section E</i>)
21.	Date samples received at central lab: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
22.	Time samples received at central lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
23.	Specimen ID: _____ <input type="checkbox"/> Not applicable
24.	Is the Cary-Blair rectal swab (swab 3) acceptable for accessioning?
	<input type="checkbox"/> Yes (<i>skip to Q25</i>)
	<input type="checkbox"/> No, not acceptable for accessioning
24a.	If not acceptable, why? (<i>select all that apply</i>)
	<input type="checkbox"/> Improperly labelled
	<input type="checkbox"/> Sample containers did not arrive tightly shut
	<input type="checkbox"/> Other (<i>specify</i>): _____
	Comments (<i>optional</i>):
E. WHOLE STOOL SAMPLE (<i>enrollment visit or within 24 hours [home collection- applicable to Bangladesh, The Gambia, Peru, Malawi, and Pakistan sites]</i>)	
25.	Is there a whole stool sample available for this participant?

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Implementing Institution Name (Country Site)
CRF 15 - Specimen Accession Form

	<input type="checkbox"/> Yes	
	<input type="checkbox"/> No (<i>skip to Section G</i>)	
	Specimen ID: _____	<input type="checkbox"/> Not applicable
26.	Was the whole stool shipped together or separately from the rectal swab?	
	<input type="checkbox"/> Same shipment (<i>skip to Q32</i>)	
	<input type="checkbox"/> Different shipment	
27.	Date samples received at central lab:	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
28.	Time samples received at central lab:	__ __ : __ __ (<i>hh : min, 24:00 hr</i>)
29.	What type of temperature monitor was used for the whole stool shipment?	
	<input type="checkbox"/> WarmMark	
	<input type="checkbox"/> 3M (<i>skip to Q31</i>)	
	<input type="checkbox"/> No monitor available (<i>skip to Q32</i>)	
30.	Temperature excursion for whole stool shipment (<i>based on WarmMark monitor read</i>):	
	<input type="checkbox"/> Not reached (<i>no color change on WarmMark monitor</i>)	
	<input type="checkbox"/> Brief	
	<input type="checkbox"/> Moderate	
	<input type="checkbox"/> Prolonged	
	<i>Answer Q30, then skip to Q32</i>	
31.	Temperature excursion for whole stool shipment (<i>based on 3M monitor read</i>):	
	<input type="checkbox"/> 0 (No excursion)	
	<input type="checkbox"/> 0-1 (30 minutes-9 hours)	
	<input type="checkbox"/> 2 (10-20 hours)	
	<input type="checkbox"/> 3 (21-30 hours)	
	<input type="checkbox"/> 4 (31-40 hours)	
	<input type="checkbox"/> 5 (41+ hours)	
32.	Is the whole stool sample acceptable for accessioning?	
	<input type="checkbox"/> Yes (<i>skip to Q33</i>)	
	<input type="checkbox"/> No, not acceptable for accessioning (<i>answer Q32a then skip to Section F [Gambia and Bangladesh sites only] or Section G [other sites]</i>)	
32a.	If not acceptable, why? (<i>select all that apply</i>) (<i>answer Q32a then skip to Section F</i>)	
	<input type="checkbox"/> Improperly labelled	
	<input type="checkbox"/> Sample containers did not arrive tightly shut	
	<input type="checkbox"/> Other (<i>specify</i>): _____	
33.	Number of vials of whole stool being stored: __ (<i>1-5</i>)	
34.	Weight of the 1 st stored vial of stool (<i>back up qPCR sample</i>): __ __ __ mg (<i>between 180-220mg</i>)	
35.	Date whole stool was placed in -80°C freezer	__ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
36.	Time whole stool was placed in -80°C freezer	__ __ : __ __ (<i>hh : min, 24:00 hr</i>)
	Comments (<i>optional</i>):	
	<i>Skip to Section G</i>	
F.	WHOLE STOOL SAMPLE FOR WHOLE STOOL CULTURE (<i>Bangladesh and The Gambia sites only; enrollment visit stool only</i>)	
37.	Is there a mBGS whole stool sample available for this participant?	

**Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 15 - Specimen Accession Form**

	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Section G</i>)
38.	Date samples received at central lab: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
39.	Time samples received at central lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
40.	Specimen ID: _____ <input type="checkbox"/> Not applicable
41.	Is the whole stool sample acceptable for accessioning?
	<input type="checkbox"/> Yes (<i>skip to Q43</i>)
	<input type="checkbox"/> No, not acceptable for accessioning
42.	If not acceptable, why? (<i>select all that apply</i>)
	<input type="checkbox"/> Improperly labelled
	<input type="checkbox"/> Sample containers did not arrive tightly shut
	<input type="checkbox"/> Other (<i>specify</i>): _____
	Comments (<i>optional</i>):

G. DRIED BLOOD SPOT (*enrollment & Week 4 visit only*)

43.	Is a dried blood spot (DBS) card available for this participant?
	<input type="checkbox"/> Yes
	<input type="checkbox"/> No (<i>skip to Section H</i>)
44.	Date samples received at central lab: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
45.	Time samples received at central lab: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
46.	Specimen ID: _____ <input type="checkbox"/> Not applicable
47.	Is the DBS acceptable for accessioning?
	<input type="checkbox"/> Yes (<i>skip to Q48</i>)
	<input type="checkbox"/> No, not acceptable for accessioning (<i>answer 47a, skip to Section H</i>)
47a.	If not acceptable, why? (<i>select all that apply</i>)
	<input type="checkbox"/> Improperly labelled
	<input type="checkbox"/> Sample containers did not arrive tightly shut
	<input type="checkbox"/> Other (<i>specify</i>): _____
48.	Date DBS card placed in ~4°C storage: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
49.	Time DBS card placed in ~4°C storage: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)
	Comments (<i>optional</i>):

H. FORM COMPLETION

50.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
51.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
52.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
53.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 16 - Stool Culture Results Form-Rectal Swab

Purpose: To capture information about clinical microbiology results from rectal swab samples

Instructions: This form is to be completed as a final reporting of *Shigella* isolates and is to be completed for each child (even if no *Shigella* was isolated). The related form (16a) is to be completed if *Shigella* is isolated.

PLACE PARTICIPANT LABEL HERE (OPTIONAL):

A. SAMPLE INFORMATION	
1.	Participant ID __ __ __ __ __ __ __
2.	Date form initiated: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
3.	Time form initiated: __ __ : __ __ (hh : min, 24:00 hr)
4.	Time of inoculation onto primary media: __ __ : __ __ (hh : min, 24:00 hr)
B. LACTOSE FERMENTER	
5.	Were lactose fermenter (LF) colonies isolated? <input type="checkbox"/> Yes <input type="checkbox"/> No (skip to Q9)
6.	Confirm that up to 10 lactose fermenter colonies were stored at minus 80°C: <input type="checkbox"/> Yes (skip to Q9) <input type="checkbox"/> No
5a.	If no, why not? _____
7.	Date LF colonies were placed in minus 80°C freezer: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)
8.	Time LF colonies were placed in minus 80°C freezer: __ __ : __ __ (hh : min, 24:00 hr)
C. SHIGELLA ISOLATES (complete based on final <i>Shigella</i> serotypes)	
9.	Number of unique <i>Shigella</i> serotypes: __ __ (0-20; if >0, complete form 16a. For each unique isolate, please fill out the serotype and AST results in form 16a)
D. FORM COMPLETION	
10.	ID of person completing this form: __ __ __
11.	ID of person reviewing this form: __ __ __
12.	ID of person entering this form: __ __ __
13.	ID of person conducting data verification: __ __ __

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 16a - *Shigella* Serotyping & AST Results Form-Rectal Swab

	Ampicillin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Azithromycin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	<input type="checkbox"/> Not interpretable (<i>obtain MIC</i>)
	Ceftriaxone	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Ciprofloxacin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Nalidixic acid	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Pivemicellinam	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
12.	Azithromycin MIC (<i>if zone size is not interpretable</i>)	__ __ __ .	__ __ __	<input type="checkbox"/> Not applicable
13.	Date 1 st isolate was placed in minus 80 °C freezer:	__ __ - __ __ - 2 0 __ __		<input type="checkbox"/> Same as date of recovery (Q7)
		(<i>dd-mm-yyyy</i>)		
14.	Time 1 st isolate was placed in minus 80 °C freezer:	__ __ : __ __		(<i>hh : min, 24:00 hr</i>)
Isolate 2				
15.	Specimen ID of 2 nd unique isolate:	_____ <input type="checkbox"/> Not applicable		
16.	From which media was the 2 nd unique isolate grown:			
	<input type="checkbox"/> Modified BGS			
	<input type="checkbox"/> Cary-Blair			
	<input type="checkbox"/> Both			
17.	<i>Shigella</i> serogroup:			
	<input type="checkbox"/> <i>S. dysenteriae</i> <input type="checkbox"/> <i>S. flexneri</i> <input type="checkbox"/> <i>S. boydii</i> <input type="checkbox"/> <i>S. sonnei</i> <input type="checkbox"/> <u>Undetermined</u>			
	<i>S. flexneri</i> serotype:			
	<input type="checkbox"/> 1a	<input type="checkbox"/> 1b	<input type="checkbox"/> 1d	<input type="checkbox"/> 2a
	<input type="checkbox"/> 2b	<input type="checkbox"/> 3a	<input type="checkbox"/> 3b	<input type="checkbox"/> 4a
	<input type="checkbox"/> 4b	<input type="checkbox"/> 5a	<input type="checkbox"/> 6	<input type="checkbox"/> X
	<input type="checkbox"/> 5b	<input type="checkbox"/> Y	<input type="checkbox"/> Non-typable	
	<input type="checkbox"/> Other (<i>specify</i>): _____			
18.	Date of 2 nd unique isolate recovery:	__ __ - __ __ - 2 0 __ __		(<i>dd-mm-yyyy</i>)
19.	Time of 2 nd unique isolate recovery:	__ __ : __ __		(<i>hh : min, 24:00 hr</i>)
20.	Date of AST test on 2 nd unique isolate:	__ __ - __ __ - 2 0 __ __		(<i>dd-mm-yyyy</i>)
		<input type="checkbox"/> Same as date of recovery (Q18)		
21.	Time of AST test on 2 nd unique isolate:	__ __ : __ __		(<i>hh : min, 24:00 hr</i>)
22.	Antibiotic susceptibility testing:			
	Antibiotic	Zone (mm)	MIC	Interpretation
	Ampicillin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Azithromycin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	<input type="checkbox"/> Not interpretable (<i>obtain MIC</i>)
	Ceftriaxone	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 16a - *Shigella* Serotyping & AST Results Form-Rectal Swab

	Ciprofloxacin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R
	Nalidixic acid	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R
	Pivemicellinam	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R
	Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R
23.	Azithromycin MIC (<i>if zone size is not interpretable</i>)	__ __ __ . __ __ __	<input type="checkbox"/> Not applicable
24.	Date 2 nd isolate was placed in minus 80 freezer:	__ __ - __ __ - 2 0 __ __	<input type="checkbox"/> Same as date of recovery (Q18)
		(<i>dd-mm-yyyy</i>)	
25.	Time 2 nd was placed in minus 80 freezer:	__ __ : __ __	(<i>hh : min, 24:00 hr</i>)

Note to lab staff: If >2 isolates, print appendix based on number of additional isolates and serotyping, AST, and storage fields will show up as repeating forms when entering into REDCap.

D. FORM COMPLETION

26.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
27.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
28.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)
29.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 16a - *Shigella* Serotyping & AST Results Form-Rectal Swab

Appendix: print out and complete this form for every *n*th isolate if >2 isolates recovered

Isolate number: _____				
Specimen ID of isolate: _____ <input type="checkbox"/> Not applicable				
From which media was the isolate grown:				
<input type="checkbox"/> Modified BGS				
<input type="checkbox"/> Cary-Blair				
<input type="checkbox"/> Both				
<i>Shigella</i> serogroup:				
<input type="checkbox"/> <i>S. dysenteriae</i> <input type="checkbox"/> <i>S. flexneri</i> <input type="checkbox"/> <i>S. boydii</i> <input type="checkbox"/> <i>S. sonnei</i> <input type="checkbox"/> <u>Undetermined</u>				
<i>S. flexneri</i> serotype:				
<input type="checkbox"/> 1a	<input type="checkbox"/> 1b	<input type="checkbox"/> 1d	<input type="checkbox"/> 2a	<input type="checkbox"/> 2b
<input type="checkbox"/> 3a	<input type="checkbox"/> 3b	<input type="checkbox"/> 4a	<input type="checkbox"/> 4b	<input type="checkbox"/> 5a
<input type="checkbox"/> 5b	<input type="checkbox"/> 6	<input type="checkbox"/> X	<input type="checkbox"/> Y	<input type="checkbox"/> Non-typable
<input type="checkbox"/> Other (<i>specify</i>): _____				
Date of isolate recovery: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)				
Time of isolate recovery: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				
Date of AST test on isolate: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)				
<input type="checkbox"/> Same as date of recovery				
Time of AST test on isolate: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				
Antibiotic susceptibility testing:				
Antibiotic	Zone (mm)	MIC		Interpretation
Ampicillin	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Azithromycin	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
		<input type="checkbox"/> Not interpretable (<i>obtain MIC</i>)		
Ceftriaxone	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Ciprofloxacin	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Nalidixic acid	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Pivemicellinam	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S	<input type="checkbox"/> I	<input type="checkbox"/> R
Azithromycin MIC (<i>if zone size is not interpretable</i>) __ __ __ . __ __ __ <input type="checkbox"/> Not applicable				
Date isolate was placed in minus 80 freezer: __ __ - __ __ - 2 0 __ __				
(<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of recovery				
Time isolate was placed in minus 80 freezer: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				

Enterics for Global Health – *Shigella* Surveillance Study (EFGH)
Implementing Institution Name (Country Site)
CRF 17a – *Shigella* Serotyping & AST Form-Whole Stool

Purpose: To capture information about *Shigella* isolates from whole stool samples (only applicable in Bangladesh & The Gambia).

Instructions: This form is to be completed as a final reporting of *Shigella* isolates from whole stool and is to be completed for each child from which *Shigella* was isolated. This form will be missing for children without *Shigella* isolated.

PLACE PARTICIPANT LABEL HERE (OPTIONAL):

A. SAMPLE INFORMATION				
1.	Participant ID	_ _ _ _ _ _ _ _ _ _		
2.	Date form initiated:	_ _ _ - _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
3.	Time form initiated:	_ _ _ : _ _ _ (hh : min, 24:00 hr)		
B. SHIGELLA ISOLATES (complete based on final # of unique <i>Shigella</i> isolates)				
<i>Isolate 1</i>				
4.	Specimen ID of 1 st unique isolate:	_____		<input type="checkbox"/> Not applicable
5.	<i>Shigella</i> serogroup:	<input type="checkbox"/> <i>S. dysenteriae</i> <input type="checkbox"/> <i>S. flexneri</i> <input type="checkbox"/> <i>S. boydii</i> <input type="checkbox"/> <i>S. sonnei</i> <input type="checkbox"/> <u>Undetermined</u>		
	<i>S. flexneri</i> serotype:			
	<input type="checkbox"/> 1a	<input type="checkbox"/> 1b	<input type="checkbox"/> 1d	<input type="checkbox"/> 2a
	<input type="checkbox"/> 3a	<input type="checkbox"/> 3b	<input type="checkbox"/> 4a	<input type="checkbox"/> 4b
	<input type="checkbox"/> 5b	<input type="checkbox"/> 6	<input type="checkbox"/> X	<input type="checkbox"/> Y
	<input type="checkbox"/> Other (specify): _____			
6.	Date of 1 st unique isolate recovery:	_ _ _ - _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
7.	Time of 1 st unique isolate recovery:	_ _ _ : _ _ _ (hh : min, 24:00 hr)		
8.	Date of AST test on 1 st unique isolate:	_ _ _ - _ _ _ - 2 0 _ _ _ _ (dd-mm-yyyy)		
		<input type="checkbox"/> Same as date of recovery (Q6)		
9.	Time of AST test on 1 st unique isolate:	_ _ _ : _ _ _ (hh : min, 24:00 hr)		
10.	Antibiotic susceptibility testing results:			
	Antibiotic	Zone (mm)	Interpretation	
	Ampicillin	_ _ _	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Azithromycin	_ _ _	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R <input type="checkbox"/> Not interpretable (obtain MIC)	

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	Ceftriaxone	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Ciprofloxacin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Nalidixic acid	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Pivemicellinam	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
11.	Azithromycin MIC (if zone size is not interpretable) __ __ __ . __ __ __ <input type="checkbox"/> Not applicable			
12.	Date 1 st isolate was placed in minus 80 freezer: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Same as date of recovery (Q6)			
13.	Time 1 st isolate was placed in minus 80 freezer: __ __ : __ __ (hh : min, 24:00 hr)			
Isolate 2				
14.	Specimen ID of 2 nd unique isolate: _____ <input type="checkbox"/> Not applicable			
15.	<i>Shigella</i> serogroup:			
	<input type="checkbox"/> <i>S. dysenteriae</i> <input type="checkbox"/> <i>S. flexneri</i> <input type="checkbox"/> <i>S. boydii</i> <input type="checkbox"/> <i>S. sonnei</i> <input type="checkbox"/> <u>Undetermined</u>			
	<i>S. flexneri</i> serotype:			
	<input type="checkbox"/> 1a	<input type="checkbox"/> 1b	<input type="checkbox"/> 1d	<input type="checkbox"/> 2a
	<input type="checkbox"/> 3a	<input type="checkbox"/> 3b	<input type="checkbox"/> 4a	<input type="checkbox"/> 4b
	<input type="checkbox"/> 5b	<input type="checkbox"/> 6	<input type="checkbox"/> X	<input type="checkbox"/> Y
	<input type="checkbox"/> Other (specify): _____			
16.	Date of 2 nd unique isolate recovery: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy)			
17.	Time of 2 nd unique isolate recovery: __ __ : __ __ (hh : min, 24:00 hr)			
18.	Date of AST test on 2 nd unique isolate: __ __ - __ __ - 2 0 __ __ (dd-mm-yyyy) <input type="checkbox"/> Same as date of recovery (Q16)			
19.	Time of AST test on 2 nd unique isolate: __ __ : __ __ (hh : min, 24:00 hr)			
20.	Antibiotic susceptibility testing:			
	Antibiotic	Zone (mm)	MIC	Interpretation
	Ampicillin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Azithromycin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	<input type="checkbox"/> Not interpretable (obtain MIC)
	Ceftriaxone	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Ciprofloxacin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Nalidixic acid	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	
	Pivemicellinam	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R	

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	Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R
21.	Azithromycin MIC (<i>if zone size is not interpretable</i>)	__ __ __ . __ __ __	<input type="checkbox"/> Not applicable
22.	Date 2 nd isolate was placed in minus 80 freezer:	__ __ - __ __ - 2 0 __ __	(<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of recovery (Q16)
23.	Time 2 nd was placed in minus 80 freezer:	__ __ : __ __	(<i>hh : min, 24:00 hr</i>)
C. FORM COMPLETION			
24.	ID of person completing this form: __ __ __	Date form completed: __ __ - __ __ - 2 0 __ __	(<i>dd-mm-yyyy</i>)
25.	ID of person reviewing this form: __ __ __	Date form reviewed: __ __ - __ __ - 2 0 __ __	(<i>dd-mm-yyyy</i>)
26.	ID of person entering this form: __ __ __	Date form entered: __ __ - __ __ - 2 0 __ __	(<i>dd-mm-yyyy</i>)
27.	ID of person conducting data verification: __ __ __	Date of data verification: __ __ - __ __ - 2 0 __ __	(<i>dd-mm-yyyy</i>)

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Appendix: print out and complete this form for every nth isolate if >2 isolates recovered

Isolate number: _____				
Specimen ID of isolate: _____ <input type="checkbox"/> Not applicable				
From which media was the isolate grown:				
<input type="checkbox"/> Modified BGS				
<input type="checkbox"/> Cary-Blair				
<input type="checkbox"/> Both				
<i>Shigella</i> serogroup:				
<input type="checkbox"/> <i>S. dysenteriae</i> <input type="checkbox"/> <i>S. flexneri</i> <input type="checkbox"/> <i>S. boydii</i> <input type="checkbox"/> <i>S. sonnei</i> <input type="checkbox"/> Undetermined				
<i>S. flexneri</i> serotype:				
<input type="checkbox"/> 1a	<input type="checkbox"/> 1b	<input type="checkbox"/> 1d	<input type="checkbox"/> 2a	<input type="checkbox"/> 2b
<input type="checkbox"/> 3a	<input type="checkbox"/> 3b	<input type="checkbox"/> 4a	<input type="checkbox"/> 4b	<input type="checkbox"/> 5a
<input type="checkbox"/> 5b	<input type="checkbox"/> 6	<input type="checkbox"/> X	<input type="checkbox"/> Y	<input type="checkbox"/> Non-typable
<input type="checkbox"/> Other (<i>specify</i>): _____				
Date of isolate recovery: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)				
Time of isolate recovery: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				
Date of AST test on isolate: __ __ - __ __ - 2 0 __ __ (<i>dd-mm-yyyy</i>)				
<input type="checkbox"/> Same as date of recovery				
Time of AST test on isolate: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				
Antibiotic susceptibility testing:				
Antibiotic	Zone (mm)	MIC		Interpretation
Ampicillin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		<input type="checkbox"/> Not interpretable
Azithromycin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Ceftriaxone	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Ciprofloxacin	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Nalidixic acid	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Pivemicellinam	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Trimethoprim/ sulfamethoxazole	__ __	<input type="checkbox"/> S <input type="checkbox"/> I <input type="checkbox"/> R		
Azithromycin MIC (<i>if zone size is not interpretable</i>) __ __ __ . __ __ __ <input type="checkbox"/> Not applicable				
Date isolate was placed in minus 80 freezer: __ __ - __ __ - 2 0 __ __				
(<i>dd-mm-yyyy</i>) <input type="checkbox"/> Same as date of recovery				
Time isolate was placed in minus 80 freezer: __ __ : __ __ (<i>hh : min, 24:00 hr</i>)				