Appendix 1. A structured questionnaire on health facility referral practice

Mental health

This is a survey regarding health referral processes. Health referrals are defined as a process by which a health facility providing lower levels of care seeks the assistance of providers who are better equipped or specially trained to help manage or take over responsibility for a given clinical condition. As defined, health referrals include the process of transferring patient care from one healthcare setting to another for the purposes of reducing morbidity and mortality.

GENER/	AL INFORMATION
1.	What is the facility name?
2.	What is the facility type? Primary Health Care Clinic (PHC Level 1 or PHC Level 2) Health Center District Hospital County Hospital Regional Hospital National Referral Hospital Other
3.	What is the ownership of the health facility? Government of Liberia Private Faith-based Non-governmental organization Other
4.	What types of services are provided at the facility? Outpatient Yes No Inpatient Yes No Obstetrics/Maternal Health Yes No Pediatrics (≤ 5 years of age) Yes No General Surgery Yes No Pathology/Laboratory Medicine Yes No Imaging Yes No
5.	How many total staff members are employed at the facility?
6.	What are the primary presenting conditions to the health facility? Please select all that apply Maternal/reproductive/newborn health services Adolescent/sexual health Child health services (Example: nutrition, immunization, Integrated Management of Neonatal and Childhood Illness) Communicable diseases (Example: STIs, including HIV, malaria, TB, leprosy) Neglected tropical diseases (Example: onchocerciasis, lymphatic filariasis, schistosomiasis, etc.) Non-communicable diseases (Example: hypertension, stroke, cardiovascular disease, diabetes, cancer, chronic respiratory diseases, sickle cell anemia, age-related eye disease, etc.) Eye health services Dental Emergency health services (Example: injuries, trauma, acute abdomen, etc.)

7.	7. What is the most common means for patients to come from the community to your health facility? Please select one. Ambulance Taxi Private car Motorcycle Bicycle By foot Other:				
8.	 How many total patients presented over the previous three-month period? Outpatient department: Inpatient admissions: 				
REFERR	AL PROCESSES				
9.	How many total patients over the previous three-month period were referred to another facility for further care?				
10.	How many patients were referred for the following reasons? • Obstetric emergency				
Maternal/reproductive health					
	Injury/trauma				
	Surgical/surgical subspecialty care				
	Adult medical/subspecialty care				
	Pediatrics/subspecialty care				
	Psychiatric/Mental health				
	• Pharmaceuticals				
	• Imaging				
	Pathology/laboratory medicine				
	• Other				
11.	Are there protocols at your health facility for referring patients? Yes No If yes , is the protocol followed?				
	Always Most of the time Some of the time Rarely Never				
	If yes , are there specific protocols for the following presenting conditions? Please select all that apply.				
	Obstetric emergencies Pediatrics/Subspecialty				
	☐ Maternal/Reproductive health ☐ Psychiatric/Mental health ☐ Pharmaceuticals				
	Surgical/Surgical subspecialty care Imaging				
	Adult medical/Subspecialty Other				

12.	Prior to transferring patients, is therapy provided when appropriate?
	 Never Always ■ Most of the time ■ Some of the time ■ Rarely If therapy is provided, which of the following interventions are provided?
	o Intravenous fluids
	 Medications Splinting Yes No
	○ Oxygen
	Backboard and/or collar Yes No
13.	What is the primary mode of transport from your facility to the next higher health facility? Ambulance Taxi
	Private car
	☐ Motorcycle ☐ Bicycle
	By foot
	U Other:
14.	Is an ambulance available at your facility for transfer? Yes No
	If yes , is the ambulance currently functional? Yes No
	If yes , is the use of the ambulance restricted to certain medical emergencies?
	Please select all that apply.
	☐ Obstetric emergencies ☐ Maternal/reproductive health
	Injury/Trauma
	Surgical/Surgical subspecialty careAdult medical/Subspecialty
	Pediatrics/Subspecialty
	Psychiatric/Mental health
	Other
15.	When referring patients, is the cost of the ambulance <u>free</u> for any of the following conditions? <i>Please select all that apply</i> .
	Obstetric emergencies
	✓ Maternal/reproductive health✓ Injury/Trauma
	Surgical/Surgical subspecialty care
	Adult medical/Subspecialty
	Pediatrics/Subspecialty Psychiatric/Mental health
	Other
16.	What is the estimated travel cost to the next higher-level health facility via the following methods?
10.	• Ambulance:
	• Taxi:
	Private Auto:Motorcycle:
	Bicycle:

17.	Who pays the cost of transportation? Patient and family Referring health facility MOHSW Other						
18.	Are patients expected to pay or provide their own means of transfer? Always Most of the time Some of the time Rarely Never						
19.	To which facilities do you most commonly refer patients? 1. 2. 3.						
20.	. On average how long does it take for a patient to travel to the most probable referral site? Minutes or hours (Please circle)						
21.	Is the referral hospital contacted prior to patient transfer? Always Most of the time Some of the time Rarely Never						
	If yes , what is the most likely means by which the referral hospital is contacted? <i>Please select one</i> . Cell phone Desk phone Radio Internet						
22.	Are the following communication devices available at your facility? Please select all that apply. Cell phone Desk phone Radio Internet						
23.	Is a letter or chart given to the patient when transferring to a higher-level facility? Always Most of the time Some of the time Rarely If given, what type of information is included in the letter or chart?						
24.	How often is feedback given from the higher-level facility after patient transfer? Always Most of the time Some of the time Rarely Never						
25.	Do you feel that <u>community health workers</u> are adequately trained to know when to refer patients from the community to your health facility? Always Most of the time Some of the time Rarely Never						
26.	Do you feel that <u>traditional birth attendants</u> are adequately trained to know when to refer patients from the community to your health facility? Always Most of the time Some of the time Rarely Never						
27.	Do you feel that <u>herbalists</u> are adequately trained to know when to refer patients from the community to your health facility?						
	Always Most of the time Some of the time Rarely Never						
28.	Do you feel that <u>bone setters</u> are adequately trained to know when to refer patients from the community to you health facility? Always Most of the time Some of the time Rarely Never						

OTHER				
29.	What do you think are the largest barriers to referring patients from one health facility to another?			
30.	What would be the most important aspects to consider when designing a comprehensive referral and transfer system?			
	NG HOSPITALS ONLY ill out this section only if your health facility is primarily a receiving facility.			
r rease j	in out this section only if your nearth facility is primarily a receiving facility.			
1.	 How many total patients were transferred or referred to your health facility over the previous <u>three-month</u> <u>period</u>? 			
2.	What are the most likely reasons for referral to your health facility? Obstetric emergencies Maternal/Reproductive health Injury/Trauma Surgical/Surgical subspecialty care Adult medical/Subspecialty Pediatrics/Subspecialty			
	Psychiatric/Mental health Pharmaceuticals Imaging Other			
3.	What is the primary mode of transportation by which the patients arrive? Ambulance Taxi Private auto Motorcycle Bicycle By foot Other			
4.	Is there a protocol for receiving referrals? Yes No If yes , is the protocol followed? Always Most of the time Some of the time Rarely Never			
	If yes, are there specific protocols for the following presenting conditions? Please select all that apply. Obstetric emergencies Maternal/Reproductive health Injury/Trauma Surgical/Surgical subspecialty care Adult medical/Subspecialty Pediatrics/Subspecialty Pediatrics/Subspecialty Psychiatric/Mental health Pharmaceuticals Imaging Other			

5.	Is your health facility contacted prior to a referral or transfer? Always Most of the time Some of the tire	me 🔲 Rarely	Never
6.	How often do patients present with a referral letter from the p Always Most of the time Some of the tire		Never
7.	How often is feedback given from the higher-level facility after Always Most of the time Some of the tir If given, what kind of feedback is provided to the referring facil	ne 🗌 Rarely	☐ Never