



THE UNIVERSITY
of EDINBURGH

Obstetric outreach as part of the Liberian Task-Sharing Program February 2021

Goals: the prevention and continued reduction in
maternal, paediatric and neonatal mortalities and
morbidity in Liberia

Obstetric outreach work (summary to 23 Feb 2021)

- Undertaken by qualified obstetric clinicians (Ariza Jolo, Sanneh Kollie and Emmanuel Hne) with MCAI logistician (Austine Menlor) from Martha Tubman and Fishtown Hospitals to clinics in Grand Gedeh (including PTP refugee camp) and River Gee
- Includes obstetric ultrasound examination in all cases
- Many serious previously unrecognised obstetric conditions (for example placenta praevia, breech, twins, many Grand Parity patients, adolescents 16 yrs and under and mothers 40 yrs and older with complications, IUFD, post expected date of delivery, macrosomia, malaria) identified and managed
- Currently funded by Irish Aid in River Gee and by MCAI plus UNICEF in Grand Gedeh.



Ariza Jolo Obstetric Clinician on outreach Grand Gedeh



Emmanuel Hne Obstetric Clinician on outreach River Gee

Summary of outreach for Grand Gedeh. October 2019 to End December 2020

Dates of outreach	Clinics screened	No. patients seen	No. patients with significant obstetric problems detected. Some patients had > 1 problem
October 2019	Zwedru local	28	2
January February 2020	Janzon Putu Pen and Konobo	29	10
March 2020	Konobo	35	5
April 2020	Toe Town, Gbarzon	30	4
May 2020	Konobo	22	8
Gravida and parity included in data collected and therefore Grand Parity cases of 4 or more included as significant problems			
July 2020	Gbarzon and Konobo	71	20
August 2020	Karlors and Polar Town	63	14
September	PTP Refugee	53	22
October 2020	Gbarzon and Putu Jarwad	80	36
November 2020	Zai Town and Toe Town	103	37
December 2020	Janzon and PTP Refugee	62	18
TOTALS		543	176 (32% of patients screened)

Summary of outreach for Grand Gedeh. October 2019 to End December 2020

Dates of outreach	Clinics screened	No. patients seen	No. significant obstetric problems detected. Some patients had > 1 problem
October 2019	Zwedru local	28	2
January February 2020	Janzon Putu Pen and Konobo	29	15
March 2020	Konobo	35	5
April 2020	Toe Town, Gbarzon	30	5
May 2020	Konobo	22	11
Gravida and parity included in data collected and therefore Grand Parity cases of 4 or more included as significant problems			
July 2020	Gbarzon and Konobo	71	25
August 2020	Karlors and Polar Town	63	15
September	PTP Refugee	53	18
October 2020	Gbarzon and Putu Jarwad	80	71
November 2020	Zai Town and Toe Town	103	35
December 2020	Janzon and PTP Refugee	62	22
TOTALS		543	224

List of major obstetric problems identified on outreach screening: Grand Gedeh

Number	Problem
2	Placenta praevia
11	Multiple pregnancies
20	Breech malpresentations after 28 weeks' gestation
3	Intrauterine fetal deaths previously undiagnosed
67	Grand multipara (parity 4 to 7)
17	Grand multipara (parity > 7)
13	Age of mother 40 years or more
21	Age of mother 16 years or less
23	Calcified placenta +/- oligohydramnios
1	APH abruption not previously identified
5	Previous Caesarean sections
13	Post term on ultrasound
13	Macrosomia on ultrasound
1	Reduced fetal movements reported but scan normal
2	Previous stillbirths
1	Previous PPH
3	Anaemia (2 needed transfusion)
9	Others: low lying placenta before 28 weeks = 1, malaria = 3, chest infection = 1, abdominal mass = 1, oblique lie = 1, Retained products ERPC needed = 2

Summary of outreach River Gee

Outreach visits from River Gee 2020

2020	Number of patients seen	Number with clinically significant problems identified
10th July	11	6
13th July	10	6
10th August	5	1
17th August	3	0
31st August	4	3
7th September	4	1
25th September	6	3
23rd October	4	1
26th October	17	3
16th November	11	0
20th November	6	3
23rd November	4	0
14 December	6	3
18 December	5	2
21 December	4	3
Total	100	35

Current Training as part of task-sharing program

1. Obstetric clinicians:

10 fully qualified after 3 years of training (one RIP)

10 currently final year interns (to potentially qualify February 2021)

9 new trainees started September 2020

Trainers: Dr V. King, Dr K Goya, Dr M Casement, Dr D Watson, Dr B Hayden, Dr R Kalaivani, Dr K Hinshaw, Prof D Southall, Mrs K Borzoi, Jefferson Doe, Noah Jasper

2. Neonatal clinicians

3 fully qualified after 2 years of training (1 left program for USA)

5 currently final year interns (just qualified in January 2021) (1 previous left program for Netherlands without permission from MCAI)

8 new trainees started September 2020

Trainers: Dr A. Kola, Dr A Earley, Dr A Duthie, Prof N. McIntosh, Prof D Southall

3. Qualified nurse anaesthetists undergoing additional training and support in advanced obstetric care

1 at Martha Tubman Hospital

1 at FJ Grant Hospital

Trainer: Dr D Watson, consultant obstetric anaesthetist UK

Estimated costs of outreach for each county for 1ST year

ITEM	UNIT COST \$	QTY	TOTAL COST \$
Ultrasound scanner	3,496	1	3,496
Urinalysis test strips (100/pack)	5	4	20
Blood Pressure monitor	54	2	108
Pulse Oximeter	321	1	321
Fastep Hb Hemoglobinometer	75	1	75
Hemometer test strips (25/pack)	16	8	128
Thermoflash thermometer	26	1	26
Sub-total UK supply			4174
Delivery equipment Liberia (estimated 20%)			835
Medical supplies and drugs per year includes 20% delivery to Liberia			9600
Running costs county vehicle plus accommodation, DSA driver and logistician)	650\$ per mth		7800
County vehicle maintenance per year			4000
Additional incentive obstetric clinician	100 \$ per mth		1200
TOTAL PER COUNTY			27,609