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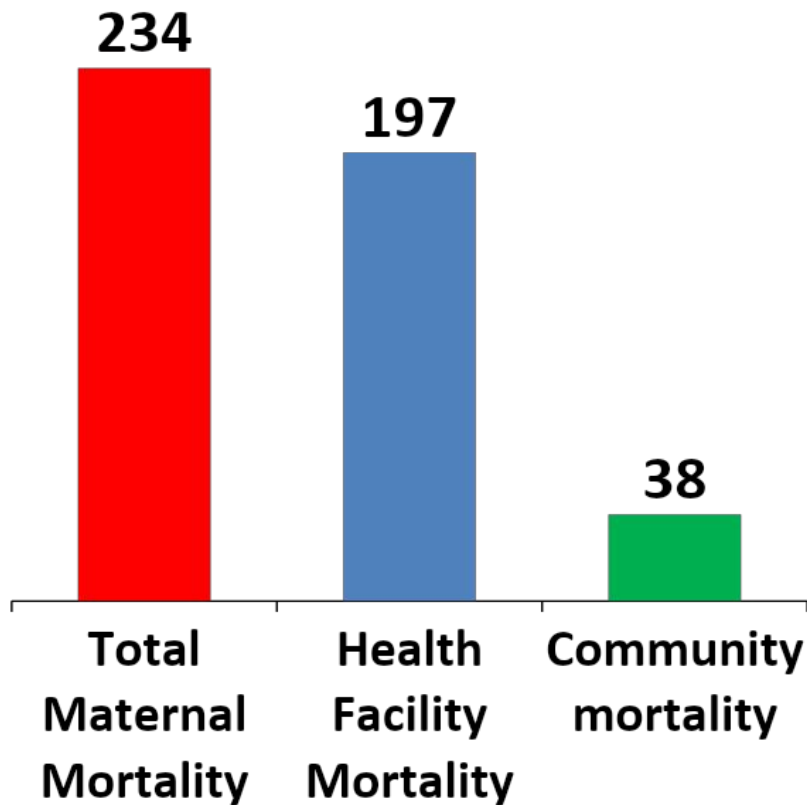
The Liberian Task-Sharing Program May 2021

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

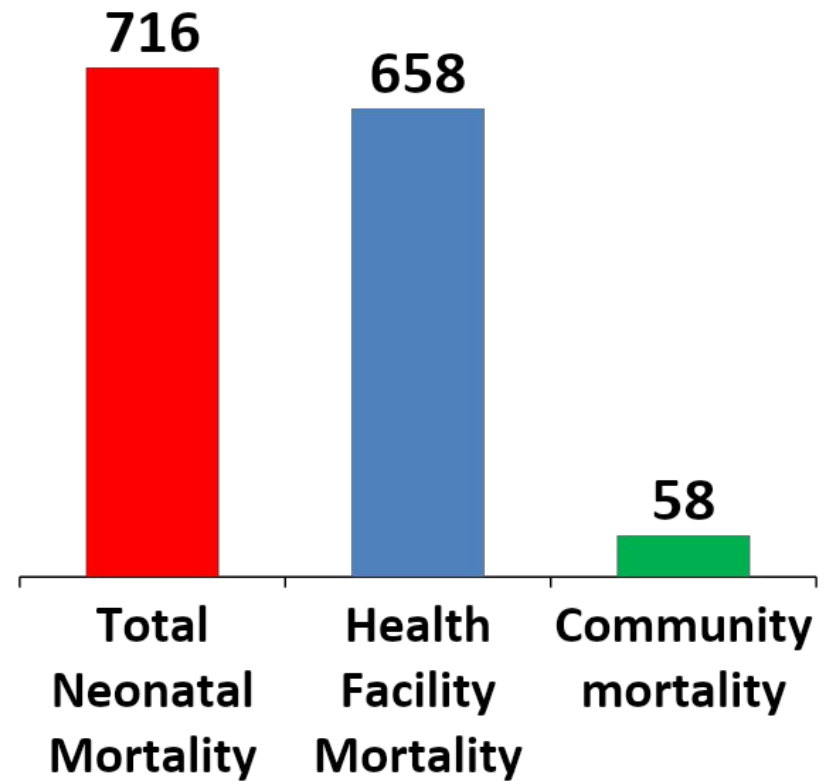
Maternal, Neonatal, Death,
Surveillance Review (MNDSR) Data
Analysis
January – December 2020

National Picture of Mortalities Reported(January 1 – December 31, 2020)

Maternal



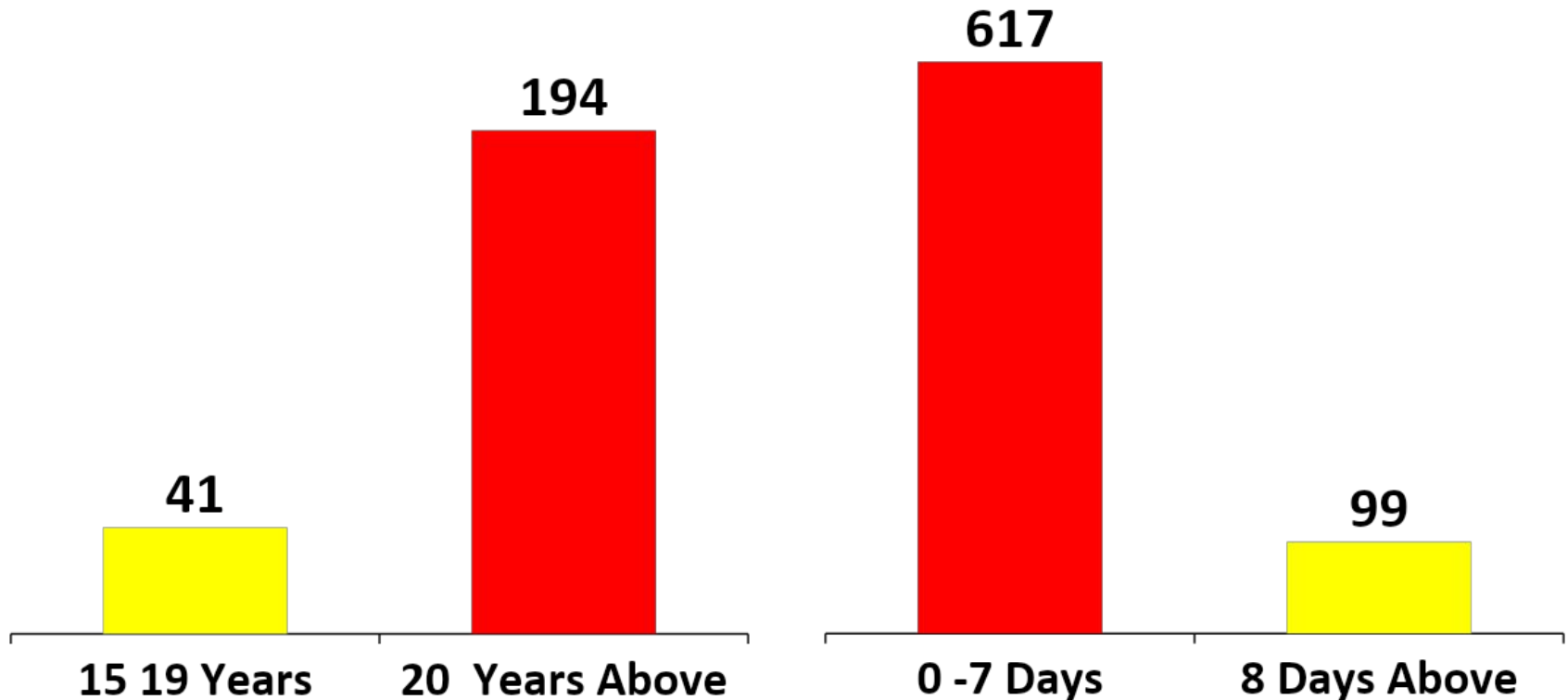
Neonatal



Age Disaggregation of Mortalities (January 1 – December 31, 2020)

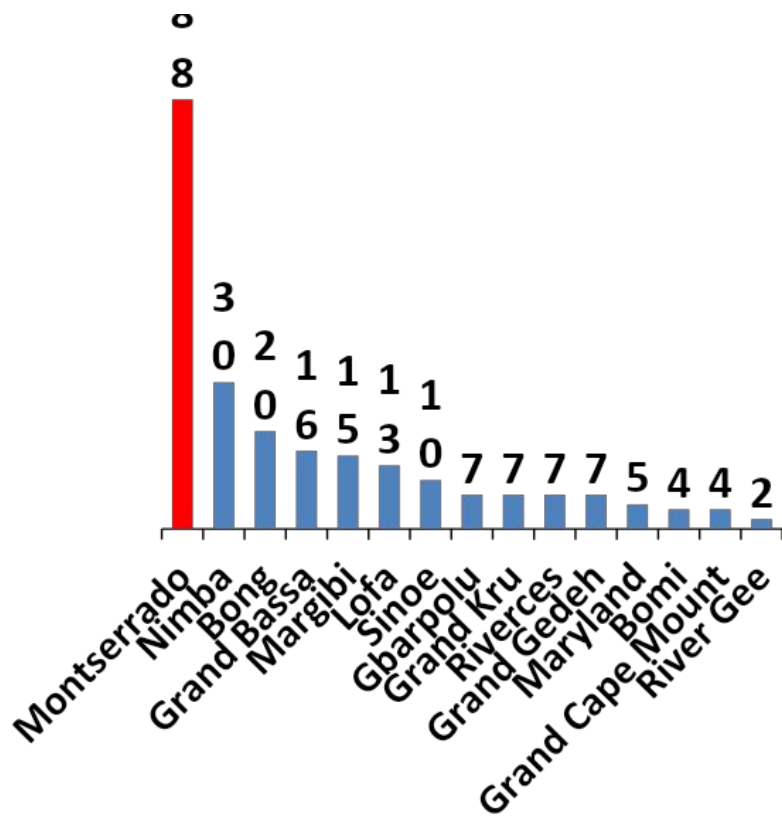
Maternal

Neonatal

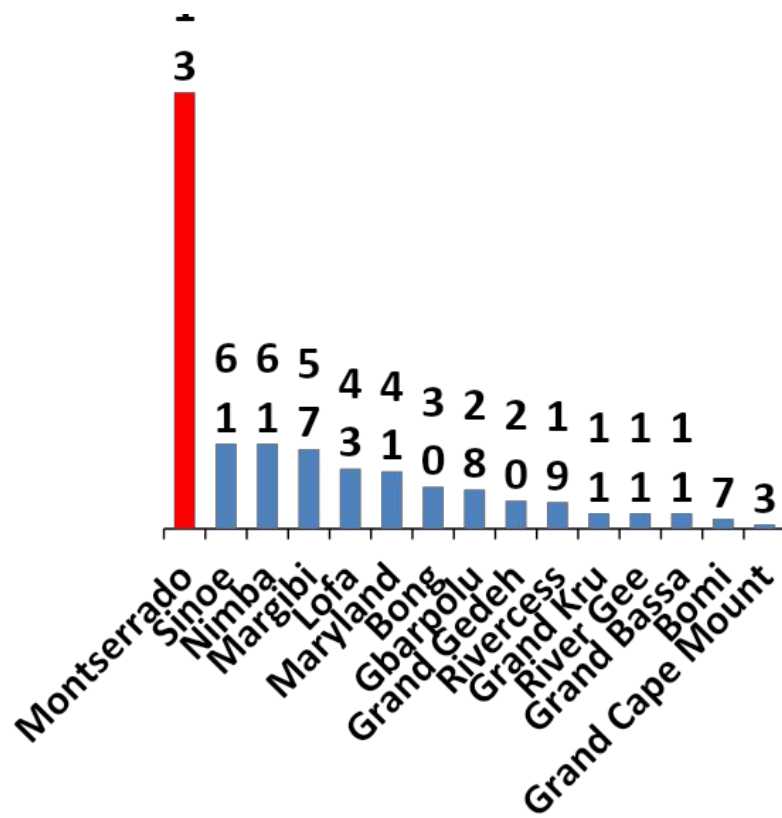


Maternal & Neonatal Mortalities Reported by Counties (January 1 – December 31, 2020)

Maternal



Neonatal



Key Causes of Maternal & Neonatal Deaths (January 1 – December 31, 2020)

Maternal

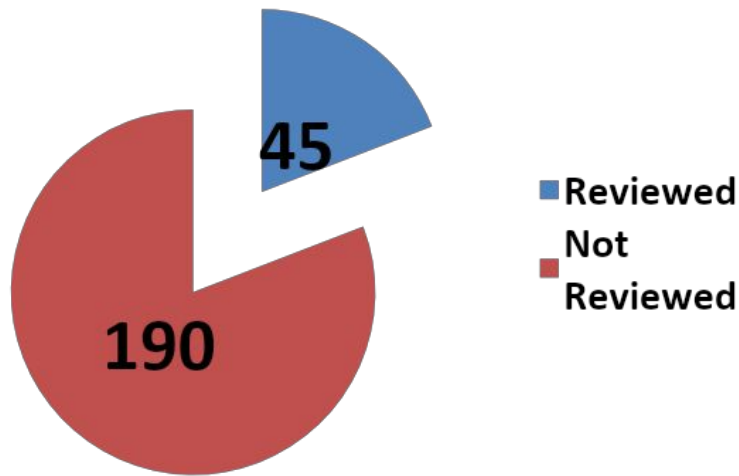
Causes	Number	Percentage
Hemorrhage	96	41%
Sepsis	46	20%
Pre-eclampsia /Eclampsia	43	18%
Others	50	21%
Total:	235	100%

Neonatal

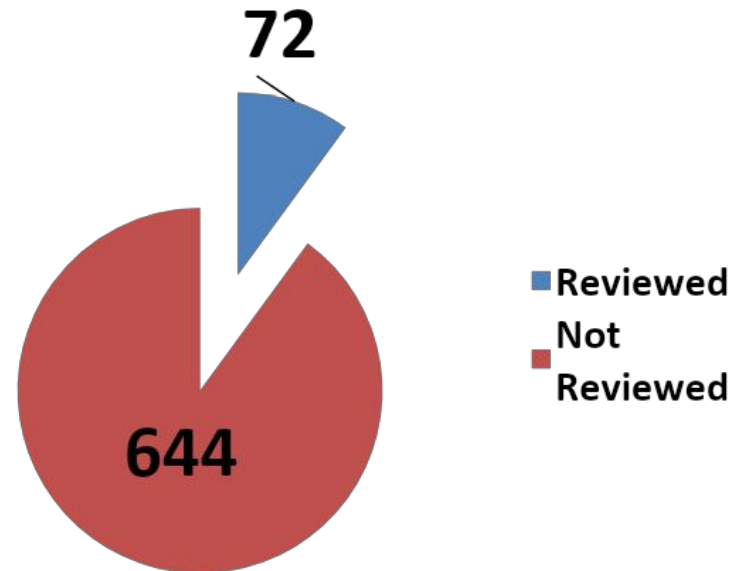
Causes	Number	Percentage
Birth Asphyxia	407	57%
Neonatal Sepsis	242	34 %
Preterm	28	4%
Others	39	5 %
Total:	716	100%

Analysis of Maternal & Neonatal Deaths Reviewed & Not Reviewed (January 1 – December 31, 2020)

Maternal



Neonatal



WHO Liberia data 2020 and 2019

County	Live births 2020	Live births 2019	Maternal Death 2020	Maternal Death 2019	Neonatal death 2020	Neonatal death 2019
Bomi	2075	2574	4	3	15	17
Bong	17390	16062	25	37	55	78
Gbarpolu	2278	1896	6	4	27	29
Grand Bassa	6822	7601	15	10	13	8
Grand Cape Mount	5807	5010	5	3	5	4
Grand Gedeh	5635	5144	8	6	15	42
Grand Kru	1771	1884	6	1	11	23
Lofa	13207	12883	13	10	39	32
Margibi	6442	6624	13	21	52	60
Maryland	3996	3768	1	15	9	34
Montserrado	20365	20118	99	93	266	277
Nimba	25928	24630	39	28	59	49
River Gee	2417	1705	2	6	12	16
Rivercess	2279	2286	4	4	21	13
Sinoe	4025	3959	6	9	25	13
Liberia	120437	116144	246	250	624	695

MMR 2013 = 1072/100,000 LB

MMR 2020 = 204/100,000 LB

1. 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 (have just taken final examinations: results awaited)

9 new trainees started August 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

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

6 (5 completed training and qualified in January 2021) (1 left program for Netherlands for an international MPH course against advice)

8 new trainees started August 2020

Trainers: Dr A. Kola, Dr A Earley, Dr A Duthie, Prof N. McIntosh, Dr Barbara Phillips, 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

1 at St. Francis Hospital

Trainer: Dr D Watson, consultant obstetric anaesthetist UK

2. Training for mothers in the monitoring of their unborn babies during labour 26th May 2021

2,549 so far monitored in 3 hospitals (CB Dunbar, CH Rennie and Martha Tubman Memorial) with 2 more hospitals to begin in the near future (Phebe and Tellewoyan hospitals both Funded by Irish Aid)

Mothers trained by 3 nurse aid volunteers in each hospital supervised by a qualified obstetric and neonatal clinician

Published in BMC Pregnancy and Childbirth and WHO Bulletin

“I tell the midwife thanks for the care that was given to me. It empower me to listen to my own baby heart beat and I hope that other women will do the same.”



Obstetric outreach work

- 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 and River Gee (including refugee camp). Includes obstetric ultrasound examination
- Outreach for River Gee - June 2020 - April 2021: 205 mothers seen
 - 90 identified high risk
- Outreach for Grand Gedeh – October 2019 - 25th May 2021: 785 mothers seen
 - 245 identified high risk
- **Total Outreach to date = 990 mothers seen**
- Many serious previously unrecognised conditions (for example placenta praevia) identified and managed
- UNFPA/MCAI proposal under development to expand the outreach to 4 more counties: Grand Capemount, Gbarpolu, Rivercess and Sinoe and to include mentoring/CPD for midwives in the clinics

4. Structural development to provide public rural hospital departments for neonatal intensive care

4 completed

- CB Dunbar Hospital
- CH Rennie Hospital
- Martha Tubman Hospital + *extension being completed within next 2 weeks*
- Phebe Hospital, Bong County
- Tellewoyan county hospital, Lofa County

Tellewoyan (currently being setup)

UNICEF grant awarded to MCAI for neonatal units at Konobo MHC, Sinje MHC, St Timothy's Hospital

UNFPA (+ Phebe Hospital as implementing partner) have funded MCAI to acquire specialised equipment for a new neonatal unit in Bomi County Hospital. Currently container recently arrived in seaport Liberia

MCAI has published an evidence-based, up-to-date handbook on advanced neonatal care for low resource countries and provided the first print-run for the neonatal task-sharing program in Liberia.

5. Structural developments to upgrade/provide departments for advanced obstetric care including operating theatres

CB Dunbar, CH Rennie, Martha Tubman and Sinje hospitals already upgraded.

UNICEF grant awarded for provision of CEmONC facility at Konobo Major Health Centre and for neonatal unit and upgrade to maternity unit at St Timothy's Hospital in Grand Capemount County.

UNFPA/MCAI (as implementing partner as part of the obstetric outreach program) a proposal for CEmONC facilities to be developed in Gbarpolu (Chief Jallahone Hospital), Rivercess (St Francis Hospital), and Sinoe (FJ Grant Hospital)

MCAI has published an evidence-based, up-to-date handbook on advanced obstetric care for low resource countries and provided the first print-run for the obstetric task-sharing program in Liberia.

6. Structural development to provide departments for advanced paediatric and emergency care units at Phebe Hospital including a new task sharing program to train nurses to become paediatric clinicians

UNICEF grant awarded to MCAI for development of paediatric handbooks and curriculum for new task sharing program to train 6 paediatric clinicians over 2 years.

International consultant paediatrician and advanced paediatric nurse practitioner already waiting to be recruited to provide the training supported by senior international consultant paediatrician volunteers from the UK

In parallel to renovate the children's wards at Bong county hospital and establish a **dedicated emergency room** for the management of incoming paediatric emergencies.

7. Provision of essential emergency equipment for hospital and outreach obstetric care

- 7 portable obstetric ultrasound scanners provided for the following hospitals (+ one in transit to MCAI UK Office for FJ Grant, Sinoe) Redemption, CH Rennie, CB Dunbar, Tellewoyan, Fishtown, Martha Tubman and Sinje MHC (donors MCAI, WHO, Irish Aid, UNFPA, UNICEF)
- 9 Medela vacuum delivery kits: one for each of the above hospitals*
- 1 large oxygen generator at Phebe Hospital (donor MCAI)
- 3 high quality non-invasive vital signs monitors to CH Rennie, CB Dunbar and FJ Grant Hospitals (MCAI donations)
- Laparotomy * and Caesarean section kits, stethoscopes, examination and operating theatre lights, condom-catheter uterine tamponade kits, pulse oximeters, oxygen concentrators, ultrasound fetal monitors *, suction systems, operating head torches, delivery beds, point of care Hb monitors, low wattage blood transfusion fridge (only 1 so far) and anti-shock garments* to the above hospitals (donors MCAI, WHO, Irish Aid, UNFPA, UNICEF and ALSG)*

*** Recent additional consignments currently trapped in airport in Monrovia Liberia**

8. Provision of essential emergency equipment for hospital and neonatal care

At the following hospitals CB Dunbar, CH Rennie, Martha Tubman and Phebe Hospital and for new neonatal unit (UNFPA/Phebe Hospital implementing partnership) and for Tellewoyan Lofa County Hospital

Oxygen concentrators, pulse oximeters, ultrasound fetal monitors, nasal CPAP systems, skin-skin care wraps, stethoscopes, bag and mask systems, IV infusion monitors, neonatal cots, phototherapy units, neonatal resuscitation platforms, overhead heaters *

(donors MCAI, WHO, Irish Aid, UNFPA, UNICEF and ALSG)

* Recent additional consignments currently in transit

9. Essential emergency drugs, medical and surgical supplies for hospital obstetric and neonatal care

For the following hospitals: FJ Grant, Sinoe, Redemption, CH Rennie, CB Dunbar, Tellewoyan, Fishtown, Martha Tubman, Sinje MHC (donors MCAI, WHO, Irish Aid, UNFPA, UNICEF, ALSG)

Continuing large amounts of the following provided to all public hospitals where obstetric and neonatal clinicians and trainees are based and kept in emergency cupboards with logbooks

Intravenous antibiotics, tranexamic acid, oxytocin, magnesium sulphate, phenobarbital, adrenaline, glyceryl-trinitrate, anti-hypertensive drugs, IV 50% glucose, oral glucagel, IV paracetamol, misoprostol, atropine, spinal bupivacaine, lidocaine,

Nasogastric tubes, surgical sutures, IV cannulae and giving sets, blood bags and blood grouping materials, urine protein and glucose sticks, chlorhexidine obstetric cream, Hb stick tests, blood glucose test strips, spinal needles, syringes, needles, tape, Foley urinary catheters, oxygen cannulae

Many thanks to WHO for distributing these from MCAI Warehouse in Monrovia (kindly provided by George Kingsley)

10. Intravenous paracetamol for reducing pain in labour

Started in January 2020 at CB Dunbar Hospital by Dr Goyah and Korpo Borzie (obstetric clinician and maternity unit supervisor)

A protocol supported by the MOH was developed and signed consent obtained for the administration of 500mg to 1g depending on body weight IV infusions. Levels of pain 1-5 were documented and only those with levels 4 or higher were treated

94 mothers to date have received the infusions and the results are in every case positive. More work needs to now be undertaken but there have been no side effects documented to date

“I am very happy for this new medication. The pain was too much for me but the medicine help to reduce my pain. So I was able to monitor my baby heart beat”

11. BEmONC centre work

With UNICEF grant training in resuscitation at birth to all skilled birth attendants in 56 BEmONC and CEmONC facilities in Grand Gedeh and Grand Capemount

Under UNFPA/MCAI outreach proposal, midwife training and mentoring/CPD at all 53 BEmONC facilities in Grand Capemount, Gbarpolu, Sinoe and Rivercess

Obstetric clinicians under above outreach proposal will be working with UNFPA on GBV and SRH rights to women attending BEmONC facilities