

Maternal and Child Health Project – Phase 3

GG2351353 (Kenya)

Presentation for
***Mexico USA Friendship Conference &
Global Grants Exchange***

October 26-29, 2023

Prescott, AZ



OBJECTIVE

The primary objective of this proposed Global Grant (GG) is to

reduce maternal and child deaths

by equipping, training, and promoting efficient practices in county-owned public hospitals located in rural Kenyan communities.



Three Mother-Child GGs in rural Kenya

2017-2019 GG#1642555

Target: Publicly-owned hospitals located in Nyeri, Muranga, and Kiambu counties (all within a two hour drive from Nairobi). \$90,000 budget, 10 clubs, 5 districts (DDF), three countries involved.

2019-2023 GG#1869283 (Covid-impacted)

Target: Publicly-owned hospitals located in more remote Narok, Kisii, and Machakos counties & a second hospital in Nyeri county. \$86,000 budget, 8 clubs, 3 districts (DDF), 3 countries involved.

2023-2025 GG#2351353

Target: Four publicly-owned hospitals in 3 additional counties raising total impact to 11 hospitals in 9 of the 47 counties in Kenya.

R Y21-22 Global Grants by Areas of Focus

Total Funding (Millions)

\$38.0M - Disease Prevention and Treatment

\$13.7M - Water, Sanitation and Hygiene

\$8.3M - Community Economic Development

\$6.2M - Basic Education and Literacy

\$5.4M - Maternal and Child Health

\$3.4M - Peacebuilding and Conflict Prevention

\$1.9M - Environment















Nyamache staff with newborn





Kiambu equipment delivery



Phase 2 Budget (Page 1 of 2)

Qty	Description	Source	Cost USD*
• 5	Mother & Child weighing scales	Local purchase	\$3,988
• 4	Maternity Delivery Packs	Mediquip Global	4,105
• 4	Resuscitaires	Mediquip Global	13,192
• 4	Phototherapy Units	Mediquip Global	2,135
• 14	Adjustable delivery beds/matt	Total Hospital Solutions	8,974
• 8	Kangaroo Mother care beds	Mediquip Global	2,393
• 5	Infant incubators	Mediquip Global	10,370
• 13	Vital signs monitor	Total Hospital Solutions	2,991
• 4	Foetal doppler (heart detector)	Total Hospital Solutions	479

Phase 2 Budget (page 2 of 2)

Qty	Description	Source	Cost USD*
• 8	Suction Machines	Total Hospital Solutions	1,595
• 4	Oxygen Concentrators	Local Purchase	1,994
• 12	Oxygen Splitters	Local Purchase	1,496
• 8	Wall Heaters	Local Purchase	997
• 20	Infra-red Thermometers	Local Purchase	449
• 4	Oxygen regulator w/humidifiers	Local Purchase	897
•	Training and facilitation	Univ of Nairobi Med School	19,942
•	Maternal wards upgrade	Local Purchase/award	4,986
•	Miscellaneous Costs	Local Purchase/award	<u>5,235</u>
			\$86,218

* converted from Kenyan Schillings (KES)

THIS PROJECT INCLUDES:

- **1. Partnerships with the University of Nairobi-Dept of OB/GYN, Kenya OB/GYN Society, Kenya Pediatric Assoc, and recipient county governments;**
- **2. Qualified input of medical professionals regarding needs assessments and competitive selection of equipment;**
- **3. Applicable staff training on the University of Nairobi medical campus conducted by qualified professionals;**
- **4. Direct involvement by Rotarians (host and international) with target selection, equipment delivery, and follow-up.**
- **Total Approximate Cost.....\$101,000 USD**





TRAINING

- Phase 1 - 15 medical staff
- Phase 2 - 21 medical staff
- Phase 3 - 25 medical staff (est.)

Includes travel, room & board for
3 full days of classes on UON campus

(Phase 2 held at Nairobi hotel due to Covid)



PRESIDENT ELECT 2021 – 2023 (FIGO)

KIHARA ANNE-BEATRICE

KENYA

THE INTERNATIONAL FEDERATION OF GYNECOLOGY AND OBSTETRICS



OLCHORRO HARD DATA

Comparing 9 quarters preceding a transitional quarter for new equipment delivery and staff training to 10 following quarters

AND NEONATAL MORTALITY CASES FOR THE PERIOD: JAN 2019 - JUNE 2023.

OLCHORRO HEALTHCENTRE
P.O. Box 11
NAROK - KENYA

DATE: 30/9/2023.

YEAR.	QUARTERS	No of Normal deliveries	No of FSB / MCB	No of LBW < 2500g.	No of Low Apgar score.	Preterm	Outcomes.
2019	JAN - MARCH	52	0	2	2	0	
	APRIL - JUNE	56	0	0	1	0	
	JULY - SEPTEMBER	88	4 FSB 2 MCB	1	0	1 preterm 1 Neonatal death	
	OCTOBER - DECEMBER	68	0	0	0	1-Maternal death	
2020.	JAN - MARCH	64	1 - FCB	1	0	0	
	APRIL - JUNE	61	3 - FCB 1 - MCB	0	0	0	
	JULY - SEPTEMBER	74	1 - MCB	0	0	0	
	OCTOBER TO DECEMBER	90	1 - FCB	0	0	0	

OLCHORRO HEALTHCENTRE
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DATE:

YEAR	QUARTERS	No of deliveries	No of FSB/MSB	No of LBW <2500g	No of Low Apgar Score	Preterm.	Outcome.
2021	JAN - FEB MARCH	97	1 FSB 1 MSB	0	0	0	
	APRIL - JUNE	85	3 MSB	0	0	0	
	JULY - SEPTEMBER	118	1-FSB	1	1	0 1-Neonatal death.	
	October October - December	73	1-FSB	0	0	0	
2022	JAN - MARCH	96	0	0	0	0	
	APRIL - JUNE	88	2-FSB	0	0	0	
	JULY - SEPTEMBER	91	1-FSB	0	0	0	
	October - December	120	1-MSB 2-FSB	3	0	0	
2023	Jan - FEB MARCH	93	2-FSB	0	0	0	
	APRIL - JUNE	102	3-FSB	0	0	0	

OLCHORRO HEALTHCENTRE
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MAROK - KENYA
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OLCHORRO RESULTS

- 50% increase in Normal deliveries (heightened awareness)
- 70% increase in Fresh/Macerated still births
- 10% decrease in Low Birth Weight births
- 45% decrease in Low APGAR scores*
- 65% decrease in neonatal/maternal deaths

* APGAR score is a subjective judgement taken at one and five minutes after birth assessing neonate's: Appearance (skin color), Pulse (heart rate), Grimace response (reflexes), Activity (muscle tone), and Respiration (breathing rate and effort)

OLCHORRO ANTENATAL CLINIC USAGE

QUARTERLY ANTENATAL VISITS SUMMARY FOR THE PERIOD BEGINNING 2019 JANUARY TO SEPTEMBER 2023.

YEAR	QUARTERS	YEAR	QUARTERS	YEAR	QUARTERS	YEAR	QUARTERS	YEAR	QUARTERS
2019	JAN - MARCH	2020	JAN - MARCH	2021	JAN - MARCH	2022	JAN - MARCH	2023	JAN - MARCH
	New - 137		New - 127		New - 144		New - 146		New - 131
	Revisits - 67		Revisits - 105		Revisits - 141		Revisits - 161		Revisits - 159
	Total - 204.		Total - 232.		Total - 285.		Total - 307		Total - 290
	APRIL - JUNE		APRIL - JUNE		APRIL - JUNE		APRIL - JUNE		APRIL TO JUNE
	New - 122		New - 138		New - 158		New - 144		New - 163
	Revisits - 97		Revisits - 120		Revisits - 176		Revisits - 154		Revisits - 154
	Total - 219.		Total - 258.		Total - 334		Total - 298		Total - 317
	JULY - SEPTEMBER		JULY - SEPTEMBER		JULY - SEPTEMBER		JULY - SEPTEMBER		JULY TO SEPTEMBER
	New - 131		New - 134		New - 159		New - 139		New - 162
	Revisits - 105		Revisits - 168		Revisits - 146		Revisits - 146		Revisits - 237
	Total - 236.		Total - 302.		Total - 305.		Total - 285		Total - 399
	OCTOBER TO DEC		OCTOBER TO DEC		OCTOBER TO DEC		OCTOBER TO DEC		
	New - 116		New - 136		New - 158		New - 158		
	Revisits - 30		Revisits - 157		Revisits - 127		Revisits - 127		
	Total - 146.		Total - 293.		Total - 285.		Total - 285		

OLCHORRO ANTENATAL CLINIC

Guideline calls for a minimum of 8 visits starting when pregnancy is at 12 weeks continuing until delivery.

Pre and post GG quarterly comparison* of clinic visits:

	<u>2019</u>	<u>2023</u>	
Initial visits	130	152	+ 17%
Revisits	90	183	+ 104%

*Averages of first 3 quarters

Outline

- Historical background of Mukurwe-ini Sub County Hospital
- Achievements with Rotary in MNH Project
- Way forward



Historical

- Hospital developed in 1960 as dispensary upgraded in 1980 to a level IV facility
- Located in Nyeri County with a catchment population of over 80,000
- Hospital bed capacity 133 with occupancy rate of 78%
 - Maternity unit 32 beds
 - Pediatric ward – 36 beds
 - **NBU equipped and commenced courtesy of Rotary Club**
- Between October 2020 and December 2020 had already successfully managed 15 neonates and begun to receive in referrals from the catchment area. This was even prior to the training by Rotary CONDUCTED December 2020.
- **Rotary is sealing a need**





Asante. Maswali?

Gracias. ¿Preguntas?
Thank you. Questions?

- 1. Title
- 2. Where is Kenya?
- 3. Project objective
- 4. Former Kenyan First Lady Margaret Kenyatta greeting PDG Eric Kimani of RC Nairobi Muthaiga North (GG host partner club). Her "Beyond Zero" initiative was part of the inspiration to structure the initial Kenyan mother-child area of focus Global Grant.
- 5. Project chronology
- 6. The RY21-22 Rotary Foundation Annual Report funds distribution by the seven TRF areas of focus. Maternal and Child Health GGs received \$5.4M ranking 5th of the 7 focus groups for receipt of funds.
- 7. The entrance to Karatina Hospital located in Nyeri County, a Phase 1 recipient.
- 8. Masai children in the small village of Olchorro located at 6,000 ft. in NE Narok County, a Phase 2 recipient.
- 9. A Masai gentleman awaiting medical attention at the Olchorro hospital.
- 10. Survey tour by host and international Rotary partner club members at candidate hospital located in Kisii county. Resident nurse in green.
- 11. Single charcoal heat source for recovery room at Olchorro hospital. Replaced by commercial room heater.
- 12. Delivery bed at Nyamache hospital. Replaced by bed similar to the one depicted on Slide 16.
- 13. Recovery room at Kisii hospital.
- 14. Two staff nurses with a newborn being transported to an appropriate facility. The mother had died in childbirth at Nyamache hospital.
- 15. Lemomo ole Maskonte, Maasai tribal leader in Olchorro, loaned his baton (symbol of authority) to Jim Dowler (RCPhx100) for a photo op.
- 16. New delivery bed being delivered at Kiambu Hospital (Phase 1).
- 17-18. Budget: List of equipment/services procured and respective line item costs for Phase 2. Expect Phase 3 budget to be similar with 10-15% increase.
- 19. Key GG components.
- 20. County Government partnership (signing MOU w RCNMN)
- 21 India (D3232) international support for Phase
- 22-23. Training: Due to Covid, Phase 2 training was done at a Nairobi hotel. Phase 1 training was done on campus. Phase 3 training is planned to be done on campus. Selected staff learns how to use the new equipment.
- 24.. Dr. Anne Kihara heads the OB/GYN department at the University of Nairobi. She is the current president of FIGO and is our point of contact for helping with needs assessment, equipment selection, and training coordination.
- 25-32. Results: pre and post GG data comparison – hospital usage rates up and maternal/child death rates down
- 33. Post GG recovery room in use, new bed in center and space heater on rear wall.
- 34. GG result? Happy clients at recipient Kiambu hospital.
- 35. Q &A