

Super Nurses for Maternal Health: Kenya's first Nurse Mentor Training Center

Jan-Dec 2020

Dining for Women
Final Report



There is a pressing need to improve the life-saving skills of maternity nurses in Kenya through training at the facility

- 61% of moms in Kenya deliver in healthcare facilities¹
- Nurses attend to ~90% of the deliveries in facilities
- **Inadequate skills and monitoring account for 55% of maternal deaths²**
- Sub-standard care is identified in **9 out of 10** maternal deaths²



¹ Kenya DHS report 2014

² Kenya Ministry of Health, Confidential enquiry into Maternal Deaths (CEMD) Report, 2017

Jacaranda believes that clinical skill improvement must take **place at the facility**

Nurses in Kenya have been receiving Emergency Obstetric and Newborn Care (EmONC) training in traditional *off-site* workshops for years, yet **nurses still score <50% on skills in assessments.**

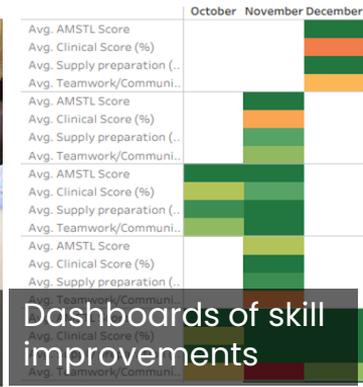
Jacaranda's insight: Frontline providers need coaching from experienced peers, or mentors, *in-facility*, to help them improve their skills in their place of work.



Nurse Mentorship takes the classroom to public facilities

Mentors build the capacity of nurses at public hospitals through the provision of:

- Standardize curriculum which can be delivered at the facility using **lectures** and **simulated emergencies**
- Data-driven approach to bedside coaching for **context-specific skill improvement**



We are sustaining maternity nurse skills across the country



Jacaranda Lead Mentor

- Experienced EmNOC Educator and “Trainer of Trainers”
- Trained for 6 weeks at Jacaranda Health
- **Capable of training other service providers to become mentors**
- Leads mentorship activities in a County, and is typically embedded in a higher volume facility

The quality of our program depends heavily on the excellence of Jacaranda Nurse Mentors. We recognized the need for standardization in **identifying, recruiting and training midwives** who are passionate about teaching and **equipping them with the skills** to be able to train government staff to become mentors.

Our Nurse Mentor Training Centre acts as *the hub* for training these exceptional nurse champions

Nurse Mentor Training in Action – Safe Training at the Center



Jacaranda Lead Mentors share the prep details to run a simulation drill with nurses from a local maternity hospital



Providers taking blood pressure during a simulation drill about eclampsia

Nurse Mentor Training in Action – Safe CMEs in public hospitals



In-facility nurse mentors hold a CME on partograph initiation and completion



In-facility nurse mentors run a delivery drill at their home facility



In-facility nurse mentors demonstrates neonatal resuscitation for peer mentees

Nurse Mentor Training Center Grant: Mid-year Progress Review

JAN - MARCH 2020

EXPANSION

Project
Update

- 1. Received Nursing Council of Kenya accreditation as continuing professional development (CPD) provider**
 - Core milestone for achieving project objectives
 - Accreditation adds to credibility and recognition of the center
 - Creates increased demand and willingness to pay for course offerings
- 2. New content creation covering core topics**
 - Breastfeeding
 - Group ANC
 - Simulations with MD support
- 3. Expansion into 2 new counties, adding 65 new in-facility mentors**

COVID-19 Pivot

COVID-19 RESPONSE

MAR – JUL 2020

SHORT TERM PIVOT

- Leverage the accreditation to create e-learning tools, which also provide CPD opportunities
- Exploring the feasibility of revenue through adapted digital e-learning approach

With the onset of COVID-19 in March, we pivoted our approach to account for safety and social distancing requirements

We adapted our model to take our Training Centre curriculum online and to public healthcare facilities.

We developed and piloted a digital tool to host our learning content, testing with 100 nurse midwives to verify that knowledge levels can improve through virtual learning platforms.

Nurse Mentor Training Center Grant: Year-End Progress Review

AUG – DEC 2020

DIGITIZING & EXPANDING

Project
Update

- 1. New content creation covering core topics**
 - COVID-19
 - PMCT (Prevention of maternal to child transmission for HIV)
 - PPRM (Preterm premature rupture of membranes)
 - Anaemia in pregnancy
- 2. Expansion into 3 new counties, adding 68 new in-facility mentors and 32 public facilities**
 - We geographically expanded the reach of the Training Centre curriculum to public facilities in 8 Kenyan Counties
- 3. Piloted digital learning platform with 100 in-facility nurse mentors**
- 4. Hosted skills improvement session with nurses from a local maternity hospital at the Training Centre**

Turning Essential Content into Digital Modules during COVID-19: DELTA

- Since March, we have built an e-learning platform (DELTA) for mentorship and adapting learning content to short “micro-courses” that can be delivered through SMS or the app Telegram
- We piloted 9 scenario-based modules with **100 of our in-facility mentors** around the country with positive results (see next slide)
- These modules can be accessed anytime, anywhere for on-the-go learning!

BMV parts

Ventilation tips:

- If chest is not rising during ventilation:
 - Reposition the head
 - Check mask seal
 - Squeeze bag harder
- Use thumb and index finger over the mask to form a seal
- While performing ventilation, pull the jaw forward towards the mask with the third finger of the hand holding the mask. Do not hyperextend the neck

Resuscitation procedure cont'

- Step 5: Circulation
 - Assess HR via
 - Umbilical cord
 - Stethoscope
 - Pulse oximeter
 - If heart rate < 60 bpm, begin chest compressions.
 - Give 1 effective breath for every 3 chest compressions for 3 minute
 - Reassess ABC every minute
 - Stop compressions when HR > 60 bpm and continue bagging until breathing OK

Performing chest compressions

Use 2 thumb-encircling techniques (2cm below the line connecting the nipples and the sternum) pushing down 1.5cm (or 1/3 AP diameter)

Target oxygen levels after birth

| Time after birth | Oxygen saturation |
|------------------|-------------------|
| 2min | 55-75% |
| 3min | 65-80% |
| 4min | 70-85% |
| 5min | 75-90% |

3:02

My Mentor JH bot

3:01 PM

If you are ready to move to the resuscitation scenario press 1

3:01 PM

1 3:02 PM ✓

Scenario pt 1:
When Ani's baby is born, he's not breathing. Nurse Aisha calls for help, dries and stimulates the baby, wraps it in a clean cloth and puts it under a heat lamp.

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Scenario pt 2:
Aisha slightly extends the baby's head to open his airway but he still isn't breathing. She makes sure there is nothing visible in the baby's mouth to suction.

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Scenario pt 3:
She checks the position of the baby's head, covers his chin, nose and mouth with a mask ensuring a tight seal and begins ventilation. The baby's pulse is 50bpm.

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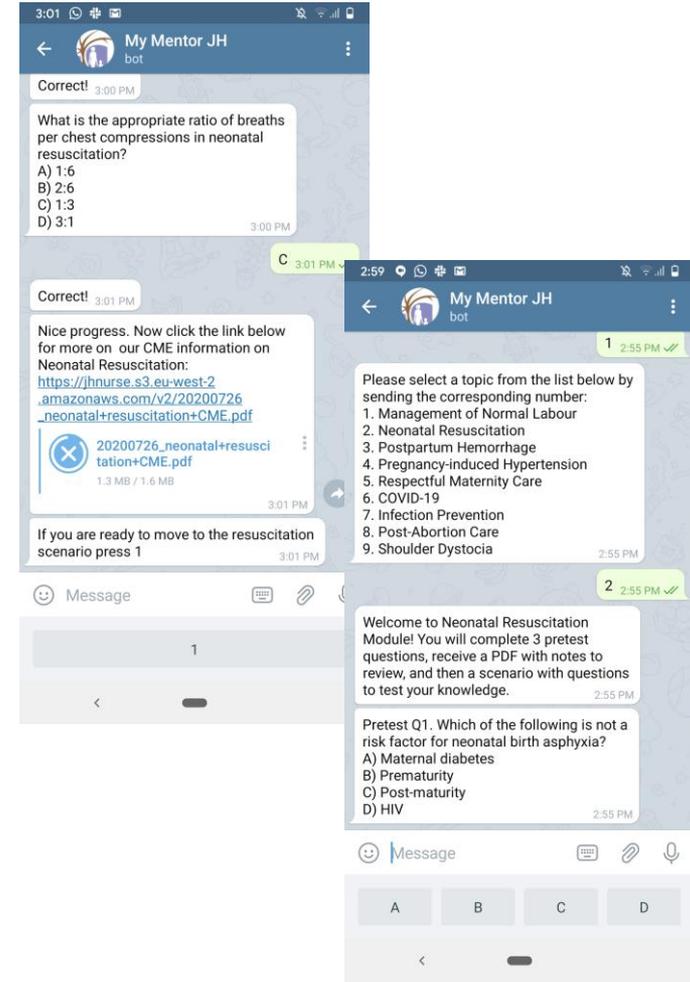
Scenario pt 4:
Aisha and her helper begin chest compressions. They stop compressions once baby's pulse is >100bpm and stop ventilation once baby is breathing spontaneously.

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Message

Turning Essential Content into Digital Modules during COVID-19

- **96.5% of test users said that the platform was very useful**, highlighting that the flow of content motivated them to learn
- **78.5% of users said that the content helped them to build knowledge** on various topics
- Since our Pilot, over 250 nurses have used the DELTA digital training tools, and we plan to expand to another 1,000 nurses this year.
- In late 2020, the Nursing Council of Kenya certified our DELTA modules so that nurses can receive their continued professional development credits required for licensing.



Nurse Mentorship Program: Key Results in 2020



8 mentors fully trained utilizing **nurse mentor training center**

60+ providers have undergone specialized training within **nurse mentor training center**



In-facility nurse mentors deployed in **103 healthcare facilities** across **8 Kenyan Counties**

2019: 48 healthcare facilities, 3 counties



190 in-facility mentors trained by Jacaranda Health mentors

2019: 53 mentors



3,059 nurses/frontline providers trained in their facilities through mentorship program

2019: 1,600 providers



Conducting **100,000 deliveries** annually with adequate EmONC skills

2019: 75,000 annual deliveries

Impact to Date



190 in-facility mentors have mentored **3,059 providers** conducting **100,000 deliveries**

90% Of the essential steps performed during every delivery by mentored providers

50% Increase in neonatal resuscitation skills

45% Cost share of programs by Counties

20% reduction in neonatal deaths

**We thank
Dining for
Women for
making this
work possible!**

