



FINAL REPORT

ON NOVIGUIDE IMPLEMENTATION IN WEST NILE SUB-REGION

15th - 24th January 2024

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Revolutionizing Newborn Care with NoviGuide

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In the realm of healthcare, NoviGuide emerges as a game-changer, moving the quality of newborn care to new heights. This innovative platform, introduced in the West Nile region, stands as a beacon of progress, easily integrating into the practices of dedicated healthcare professionals.

NoviGuide, a comprehensive clinical decision support platform, transcends conventional approaches, providing a dynamic blend of expertise at the bedside while gathering invaluable data for system-level interventions. From its interactive training sessions to real-time applications, NoviGuide empowers midwives, nurses, and doctors to enhance their skills and deliver superior care, especially to the most vulnerable newborns.

This transformative tool goes beyond being a mere assessment mechanism for sick or small babies. It beckons a new era where NoviGuide is not just an aid for specific cases but a routine screening companion for all newborns. The shift in perspective, recommended for a more profound impact on newborn care quality, reflects the commitment to excellence exhibited by healthcare professionals.

As NoviGuide takes root in 15 health facilities across the West Nile region, a sense of enthusiasm and optimism envelops the healthcare landscape. This is not just a training program; it's a movement towards a future where newborns receive the best care possible, thanks to the integration of cutting-edge technology and dedicated healthcare workers.

In the West Nile region, NoviGuide is more than a tool; it's a symbol of progress, a testament to the continuous pursuit of excellence in newborn care.



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Executive Summary:

The NoviGuide training initiative, organized by Nakakeeto Foundation and funded by Global Strategies, was conducted from January 15th to 24th, 2024, targeting frontline healthcare workers in the West Nile region. The training aimed at equipping midwives, nurses, and doctors with digital skills on how to use NoviGuide as they care for the newborns especially the sick and small babies.

A total of 120 health workers actively participated in the training, with a notable 73.3% (88) being female and 26.6% (32) male. This diverse participation emphasizes the commitment to enhancing the quality of care for newborns across the region.

Recommendation: To maximize the impact on newborn care, it is recommended to leverage NoviGuide not only as an assessment tool for sick and small newborns but also as a screening tool for all newborns.

Conclusion: NoviGuide has been embraced by the health workers in 15 health facilities in West Nile and have already started using it with enthusiasm.



Background

Newborn deaths currently account for approximately 40% of all deaths of children under five years of age in developing countries—the three major causes being birth asphyxia, infections and complications due to prematurity and LBW. Birth weight is a significant determinant of newborn survival. LBW is an underlying factor in 60–80% of all neonatal deaths. In fact, prematurity is the largest direct cause of neonatal mortality, accounting for an estimated 29% of the 3.6 million neonatal deaths every year (Lawn et al. 2010). LBW infants are approximately 20 times more likely to die, compared with heavier babies (Kramer 1987). One-third of LBW babies die within the first 12 hours after delivery.

According to the SDG 3.2 by 2030, all countries are expected to have reduced neonatal mortality to as low as 12 per 1,000 live births and under-5 mortality to 25 per 1,000 live

births. Great improvement is being realized for the under 5 and neonatal mortality for Uganda has reduced to 22/1000 live birth after being stagnant for almost 2 decades at 27/1000 live births. However, regional discrepancies continue to be noted. This is partly due to capacity gaps amongst the frontline health workers. Hence, attention is increasing on building capacity for frontline health workers focusing on newborn care. Another major challenge is inadequate staffing of skilled healthcare workers.

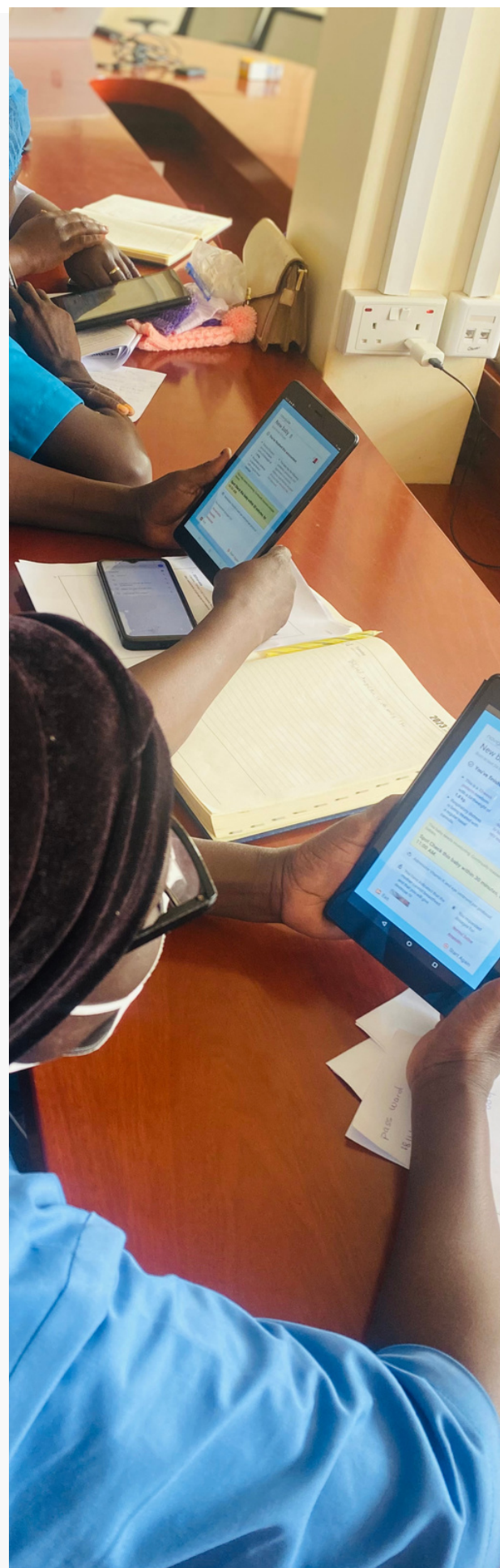
Due to this, Nakakeeto Foundation under the Newborn Steering Committee-MOH introduced the use of NoviGuide, an application that has streamlined assessments, provides automated drug, feeding and fluid calculations. In doing this, it helps improve quality of care and hence safety of babies during care.



Introduction:

In our ongoing commitment to improving the quality of care for small and sick newborns in the West Nile region, Nakakeeto Foundation has achieved a significant milestone by introducing NoviGuide, a powerful clinical decision support platform developed by Global Strategies. NoviGuide is designed to provide expert guidance at the bedside while collecting essential data to inform system-level interventions.

Recognizing the importance of aligning with Uganda's neonatal guidelines and protocols, we identified the need to train healthcare workers on using NoviGuide. This digital tool, pivotal in advancing healthcare practices, became the focus of a comprehensive 10-day training initiative. The program covered 15 strategically selected healthcare facilities to ensure a widespread and impactful implementation. These facilities include Pakwach HCIV, Nebbi GH, St. Luke Angal Hospital, Holy Family Nyapea Hospital, Arua RRH, St. Joseph's Maracha Hospital, Koboko Hospital, Lodonga HCIV, Yumbe RRH, Midigo HCIV, Yumbe HCIV, Obongi HCIV, Moyo GH, Adjumani GH, and Mungula HCIV.

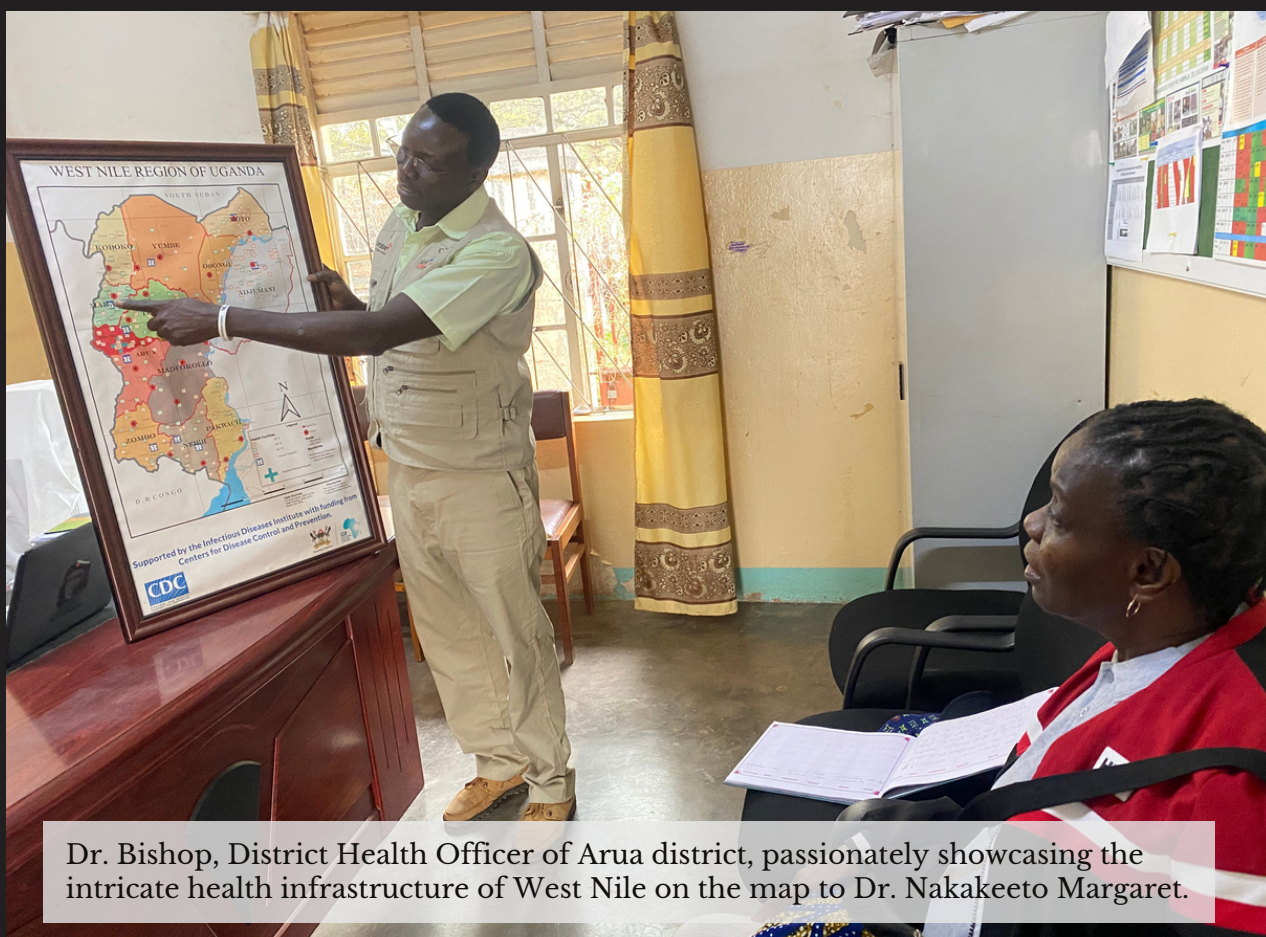


ABOUT WEST NILE



The West Nile sub-region is an area in the northwestern part of Uganda, named after its location on the western side of the Albert Nile. It shares borders with the Democratic Republic of the Congo to the south and west, South Sudan to the north, and the Albert Nile to the east. The largest town in the sub-region is Arua, which recently became a city. Arua is about 420 kilometers (260 miles) northwest of Kampala, the capital of Uganda. West Nile is becoming a rapidly growing economic center in Uganda, with 11 districts, including Adjumani, Arua, Koboko, Maracha, Moyo, Nebbi, Yumbe, Zombo, Obongi, Madi Okollo, and Pakwach.

The population of West Nile is around 2,988,300 people, living in approximately 500,000 households as estimated in 2018. The region's social life revolves around households, and local governance is centered in villages. The ethnic composition includes Sudanic groups like Lugbara, Kakwa, Madi, and Nilotic Alur. Other ethnicities present are Ukebu, Kuku, Nubians, along with various Ugandan tribes, Indians, other Asians, Congolese, and South Sudanese. The region has 10 hospitals, 10 HC IVs, 18 HC IIIs and 12 HC IIs. West Nile hosts the largest refugee settlement in Africa, including the second-largest in the world, the Bidi bidi settlement. The refugee health system operates separately from the host system.

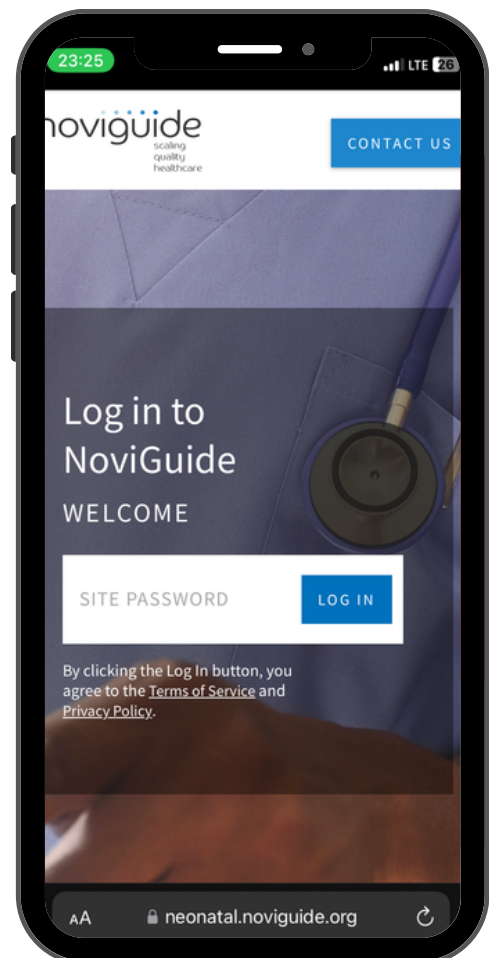


Dr. Bishop, District Health Officer of Arua district, passionately showcasing the intricate health infrastructure of West Nile on the map to Dr. Nakakeeto Margaret.



THE GOAL

Improve healthcare efficiency and decision-making through the implementation of NoviGuide, a comprehensive clinical decision support platform, in the West Nile region healthcare facilities.



Objectives



01 Implement NoviGuide in Healthcare Facilities:

Introduce NoviGuide in healthcare centers and hospitals across the targeted districts in West Nile region, Uganda.

02 Enhance Clinical Decision-Making:

Train healthcare professionals to effectively use NoviGuide's Algorithm Architect to create and utilize decision trees for informed patient care.

03 Facilitate Data-Driven Interventions:

Utilize NoviGuide's Clinical Knowledge Library to establish standardized clinical pathways, ensuring streamlined data collection adhering to health system standards.

04 Monitor and Evaluate Implementation:

Establish a monitoring and evaluation framework to assess the effectiveness of NoviGuide's implementation in healthcare facilities, ensuring continuous improvement and adaptation.

05 Scale-up NoviGuide use across West Nile region:

Promote and encourage the use of NoviGuide in West Nile districts, aiming for widespread use and impact.

06 Enhance Healthcare Workflow:

Position NoviGuide as a central component to enhance the overall healthcare workflow, providing a reliable and robust tool for healthcare professionals.



TARGET PERSONS:

NURSES:

Nurses working in various capacities, especially those directly involved in caring for newborns.

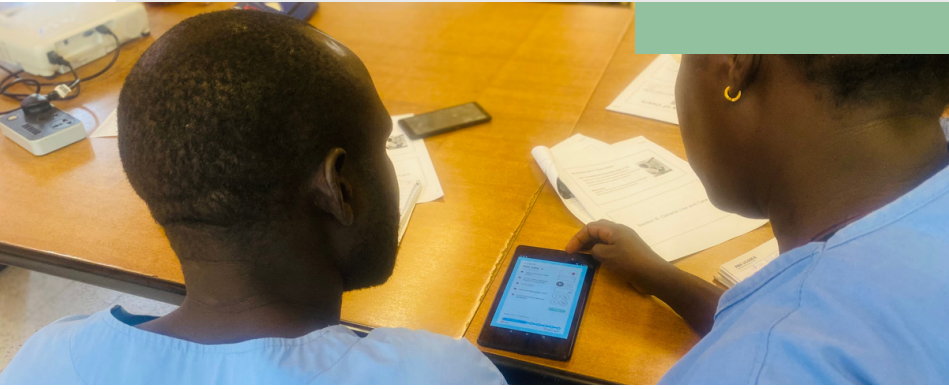
MIDWIVES:

Midwives responsible for supporting maternal and newborn health.

DOCTORS:

Medical professionals including doctors, who are actively engaged in newborn care and medical decision-making.





TRAINING DESIGN AND METHODOLOGY:

By structuring the training in this way, it was ensured that participants not only grasped the theoretical aspects but also gained practical skills through hands-on application and real-life scenarios. Below are the methodologies used to deliver;

01 PREPARATION AND INTRODUCTION:

- Began with an introductory presentation using visual aids such as PowerPoint slides to provide an overview of NoviGuide, emphasizing its benefits.
- Covered key aspects of NoviGuide's features and functionalities.

02 TRAINING MATERIALS:

- Distributed training manuals to participants for comprehensive understanding.
- Conducted a session on the general use and care of the NoviGuide tablet.

03 HANDS-ON TABLET TRAINING:

- Facilitated a step-by-step practical session with the NoviGuide tablet.
- Instructed participants on navigating the application, focusing on its various sections.

04 GROUP LEARNING:

- Organized small group activities where each group was provided with a tablet.
- Encouraged participants to use the application in scenarios related to the care of small and sick newborns.

05 REAL-LIFE SCENARIOS:

- Developed real-life patient scenarios to simulate the practical application of NoviGuide.
- Guided participants in using the application to assess and address challenges commonly faced in clinical practice.

06 INTERACTIVE Q&A:

- Allocated time for an interactive session where users could ask questions.
- Provided both clinical and technological answers to address queries effectively.





07 WEB-BASED VERSION EXPLORATION:

- Introduced the web-based version of NoviGuide, demonstrating its compatibility with smartphones.
- Allowed participants to explore and use NoviGuide on their smartphones for a hands-on experience.

08 FEEDBACK AND ASSESSMENT:

- Collected feedback from participants regarding the training session.
- Assessed participants' understanding and proficiency in using NoviGuide through quizzes or practical assessments.

09 FOLLOW-UP SUPPORT:

- Offered post-training support for any additional queries or clarifications through their WhatsApp groups. (Each health facility has a mentorship WhatsApp group).
- Developed a system for ongoing learning and monitoring. Will have Zoom meetings with focal persons weekly for the first two months and thereafter monthly to discuss progress and challenges.

By organizing the training in this manner, we aimed to ensure that participants not only understood the theoretical concepts but also acquired practical skills through hands-on application and real-life scenarios. Dr. Nakakeeto addressed their technical questions, guiding participants on effectively utilizing NoviGuide to screen and assess babies while maintaining the highest quality of care. It was consistently emphasized during the training that NoviGuide does not replace professional judgment.

TRAINING CONTENT:

- 01 Introduction to NoviGuide:**
Introduced NoviGuide, providing an overview of its role as a clinical decision support platform and emphasizing its significance in healthcare settings.
- 02 Key Features:**
Highlighted NoviGuide's capabilities and benefits in supporting healthcare professionals.
- 03 NoviGuide Tablet Usage:**
Provided guidelines on the general use and care of NoviGuide tablets, ensuring optimal performance and longevity.
- 04 NoviGuide Main Menu:**
Overviewed the NoviGuide main menu, emphasizing the four key sections: Resuscitation, My Patient, My Progress, and Emergency Button.
- 05 Resuscitation Section:**
Explored the Resuscitation section, showcasing the 3-D instructional animation video for neonatal resuscitation and its real-time application.
- 06 My Patient Section:**
Explained the My Patient section in detail, covering point-of-care assessments for different scenarios, spot checks, and discharge procedures.
- 07 My Progress Section:**
Provided insight into the My Progress section, highlighting educational videos and the acknowledgment of achievements through badges based on NoviGuide usage.
- 08 Emergency Button Usage:**
Conducted training on the purpose and usage of the Emergency Button, with a specific focus on reporting and responding to emergencies like seizures, abdominal emergencies, and resuscitation issues.

This comprehensive training equipped participants with the necessary knowledge and skills to effectively utilize NoviGuide in their daily practices.



Participant Information:

The NoviGuide training program successfully engaged participants from diverse backgrounds across 15 health facilities in the West Nile region.

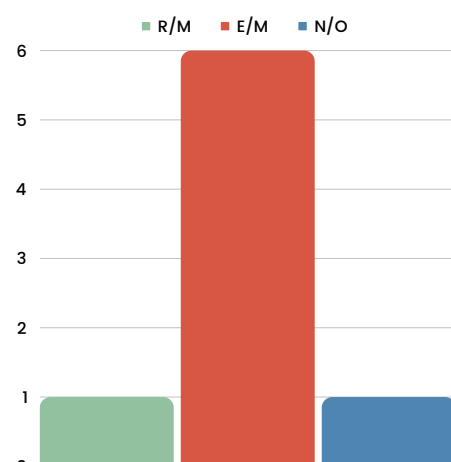


PAKWACH HCIV

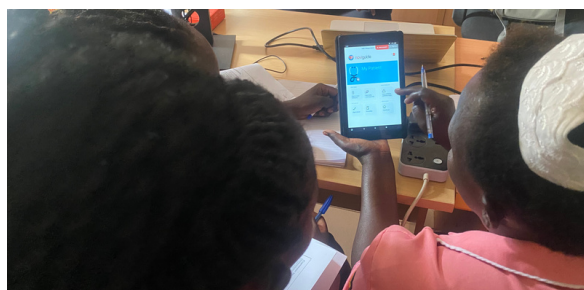
The NoviGuide training session at Pakwach HCIV took place in the hospital boardroom, where a total of eight healthcare workers participated, all of whom were females. During the training, both trainers and trainees collectively selected **Acio Roseline**, a registered midwife, to serve as the designated NoviGuide focal person at Pakwach HCIV. In recognition of her role, she was provided with a tablet along with a MiFi device to ensure internet connectivity for optimal use of the NoviGuide platform.

Name	Sex	Cadre	Email
Acio Roseline	F	R/M	roselineacio240@gmail.com
Amongi Semmy	F	E/M	amongisemmy28@gmail.com
Paramungu Vivian	F	E/M	
Afoyorwoth Filda	F	E/M	afoyorwothfilda@gmail.com
Ajidiru Freda	F	E/M	ajidirufreda23@gmail.com
Giramia Joan E	F	E/M	giramiajoan32o@gmail.com
Akumu Mary	F	N/O	
Aliker Vivian	F	E/M	vivianaliker9@gmail.com

Figure 1. Showing distribution of participants by CADRE.



A total of 8 health workers were trained. Majority 75% (6) of the participants were Enrolled Midwives, 12.5% (1) was a Registered Midwife and 12.5% (1) was a Nursing Officer



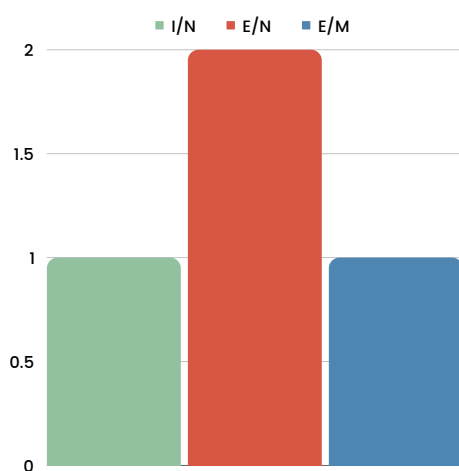


NEBBI GENERAL HOSPITAL

The NoviGuide training at Nebbi General Hospital transpired in the hospital boardroom, engaging a group of four dedicated healthcare workers, all of whom were female. In a collaborative decision-making process between trainers and trainees, **Dhugira Bridget**, a qualified registered midwife, was chosen as the designated NoviGuide focal person at Nebbi General Hospital. In acknowledgment of her pivotal role, she was equipped with a tablet and a MiFi device, ensuring seamless internet connectivity to enhance the optimal utilization of the NoviGuide platform.

Name	Sex	Cadre	Email
Asiimwe Mary Gorretti	F	Intern Nurse	asiimwemarygorretti@gmail.com
Ayesiga Rosemary	F	E/N	ayesigarosemary@gmail.com
Auma Vicky	F	E/N	aumavicky1993@gmail.com
Dhugira Bridget	F	E/M	bridgetdhugira@gmail.com

Figure 1. Showing distribution of participants by CADRE.



A total of 4 health workers were trained. Majority 50% (2) of the participants were Enrolled Nurses, 25% (1) were Registered Midwives and 25% (1) was an Enrolled Midwife



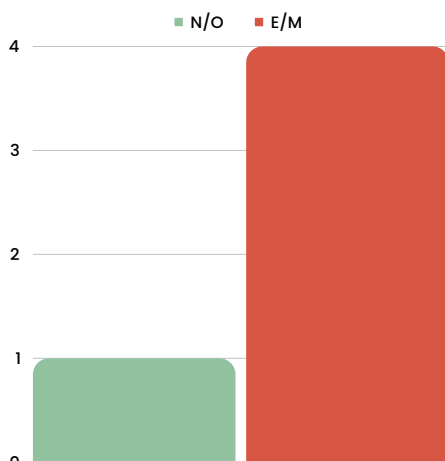


HOLY FAMILY NYAPEA HOSPITAL

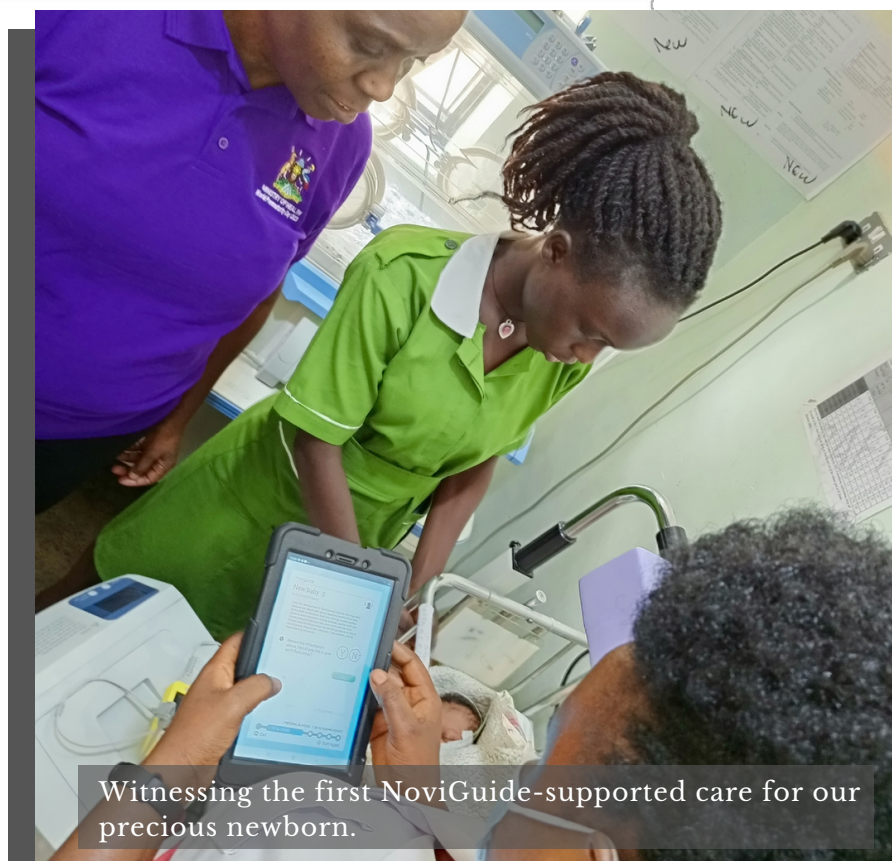
Five female health workers attended the NoviGuide training held in the hospital boardroom at Holy Family Nyapea Hospital. Among the participants, **Nyirangizwenimana Lucie** was selected as the NoviGuide focal lead at Holy Family Nyapea.

No.	Name	Sex	Cadre	Contact	Email
1	Nyirangizwenimana Lucie	F	N/O	0787549857	nyilucie1@gmail.com
2	Afoyomungu Ingrid	F	E/M	0759389018	afoyomunguingrid@gmail.com
3	Masende Lillian	F	E/M	0761518057	millian507@gmail.com
4	Nyamutoro Precious	F	E/M	0785250009	preciousnyamutoro@gmail.com
5	Esaburu Jemilly	F	E/M	0774081056	esaburujemilly8@gmail.com

Figure 1. Showing distribution of participants by CADRE.



A total of 5 health workers were trained. Majority 80% (4) of the participants were Enrolled Midwives and 20% (1) was a Nursing Officer



Witnessing the first NoviGuide-supported care for our precious newborn.

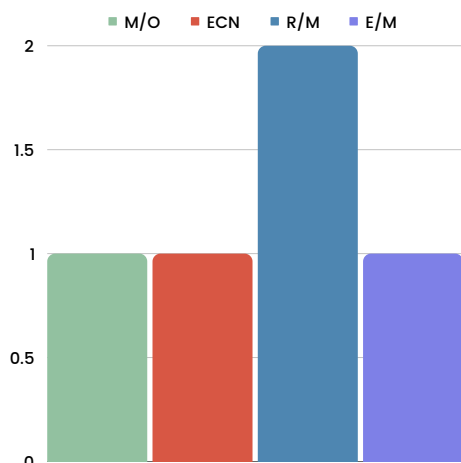


ST. LUKE ANGAL HOSPITAL

Four female and one male healthcare workers participated in the NoviGuide training conducted in the hospital boardroom at St. Luke Angal Hospital. **Sr. Adoch Stella**, the NICU incharge, was chosen as the designated NoviGuide focal lead among the participants.

No.	Name	Sex	Cadre	Contact	Email
1	Komakech Philip	M	MO	0783649344	pkomakech7@gmail.com
2	Adoch Stella	F	ECN	0787026741	okottneriadoch@gmail.com
3	Nafula Nuru	F	R/M	0781041620	nurunafula@gmail.com
4	Opolai Mary Niila Joyce	F	R/M	0785518325	opolimy@gmail.com
5	Opoka Nancy	F	E/M	0775967832	opoksnancy33@gmail.com

Figure 1. Showing distribution of participants by CADRE.



Five health workers were trained, including two Enrolled Midwives (40%), one Medical Officer (20%), one Enrolled Comprehensive Nurse (20%), and one additional Enrolled Midwife (20%).



Dr. Nakakeeto empowering healthcare heroes!
Training our dedicated health workers on the ins and outs of NoviGuide for enhanced patient care.



ARUA REGIONAL REFERRAL HOSPITAL

Arua RRH serves as the referral hospital for the districts of Pakwach, Nebbi, Zombo, Madi Okollo, and Maracha, holding a crucial role among the sixteen Regional Referral Hospitals in Uganda. During the training at Arua, we utilized one of the laboratory hospital offices due to the boardroom being occupied by another ongoing session. Seven healthcare workers participated in the training, and **Sr. Tibeita Mary Gorretti** was unanimously chosen as our dedicated NoviGuide focal person. The facility received two NoviGuide tablets to facilitate effective implementation.

No.	Name	Sex	Cadre	Contact	Email
1	Bako A Beatrice	F	ANO	0774583246	
2	Dr. Aleku Michael	M	MO	0772684427	alekumichael@gmail.com
3	Dr. Anguzu Alpha Moses Bayo	M	MO	0773066860	bayorance1990@gmail.com
4	Tibeita Mary Gorretti	F	R/N	0787941144	merygorretti17@gmail.com
5	Anicia Margaret	F	R/N	0782976337	aniciamargaret44@gmail.com
6	Ojok Bernard	M	ANO	0779993629	bernardojok1@gmail.com
7	Dr. Aniku Gilbert	M	Paed(M OSG)	0773283569	gilbert.aniku@gmail.com

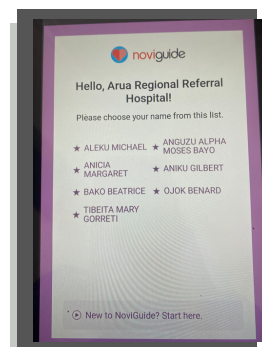
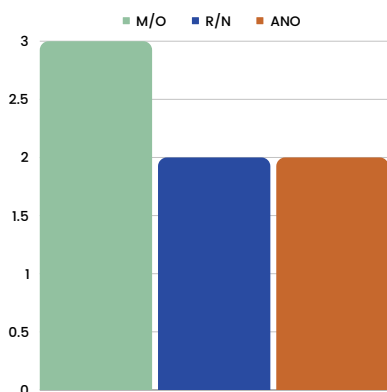
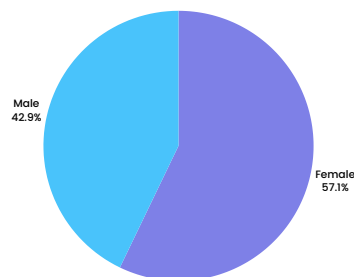


Figure 1. Showing distribution of participants by CADRE.

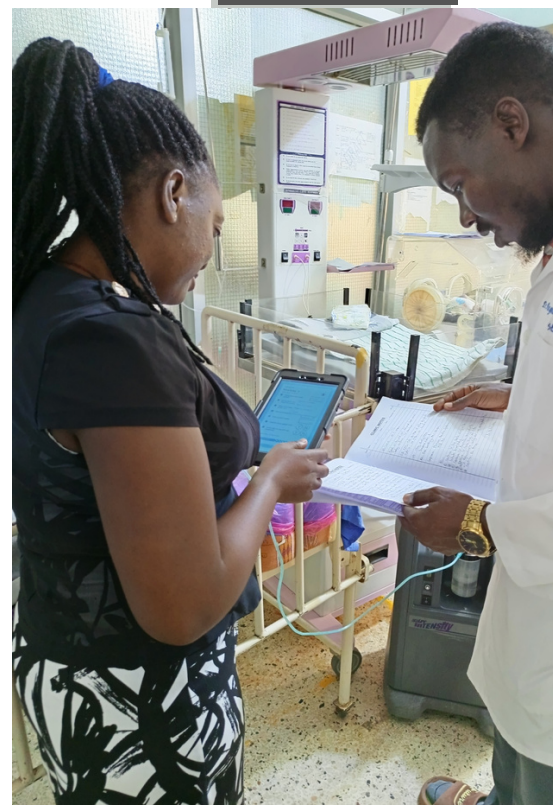


Seven health workers were trained, comprising 3 Medical Doctors (42.8%), 2 Registered Midwives (28.57%), and 2 Assistant Nursing Officers (28.57%).

Figure 2. Showing distribution of participants by Gender.



Team Breakdown: 4 males and 3 females.



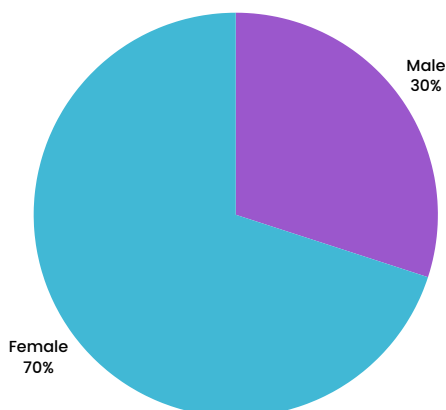


ST. JOSEPH'S MARACHA HOSPITAL

St. Joseph's Maracha Hospital, a private non-profit community hospital owned by the Roman Catholic Diocese of Arua and accredited by the Uganda Catholic Medical Bureau, hosted the NoviGuide training in its boardroom. Ten health workers participated in the training, and **Dr. Tinka Clovis** was selected as our dedicated NoviGuide focal person at this facility. The hospital was equipped with one NoviGuide tablet and a MiFi device for internet connectivity.

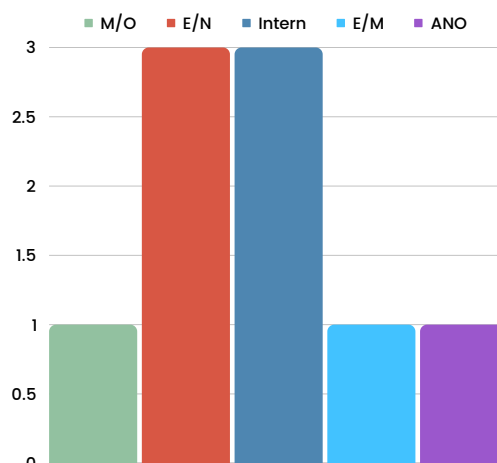
Name	Sex	Cadre	Contact	Email
Lotuk Emmanuel	M	Intern	0773229825	emmanuelotuk@gmail.com
Ajdiru Loyce	F	E/N	0787623820	
Sis. Dominic Bugaru	F	ANO	0774856952	
Amute Molly	F	ECN	0775990438	amutemolly@gmail.com
Amviko Judy	F	E/M	0787945838	judyamvik01@gmail.com
Namayanja Sumayiyah	F	Intern	0765507756	sumayiyahmayah@gmail.com
Kato Anuar	M	Intern	0780778251	katoanuar@gmail.com
Asinduru Scholarstica	F	E/N	0780213173	scholarsticaasinduru@gmail.com
Ondoru Scholar	F	E/N	0784572965	scholardesecolea@gmail.com
Tinka Clovis	M	Paed	0706738661	flotecas2@gmail.com

Figure 2. Showing distribution of participants by Gender.



A total of 10 health workers were trained. Majority 70% (7) of the participants were female and only 30% (3) were male.

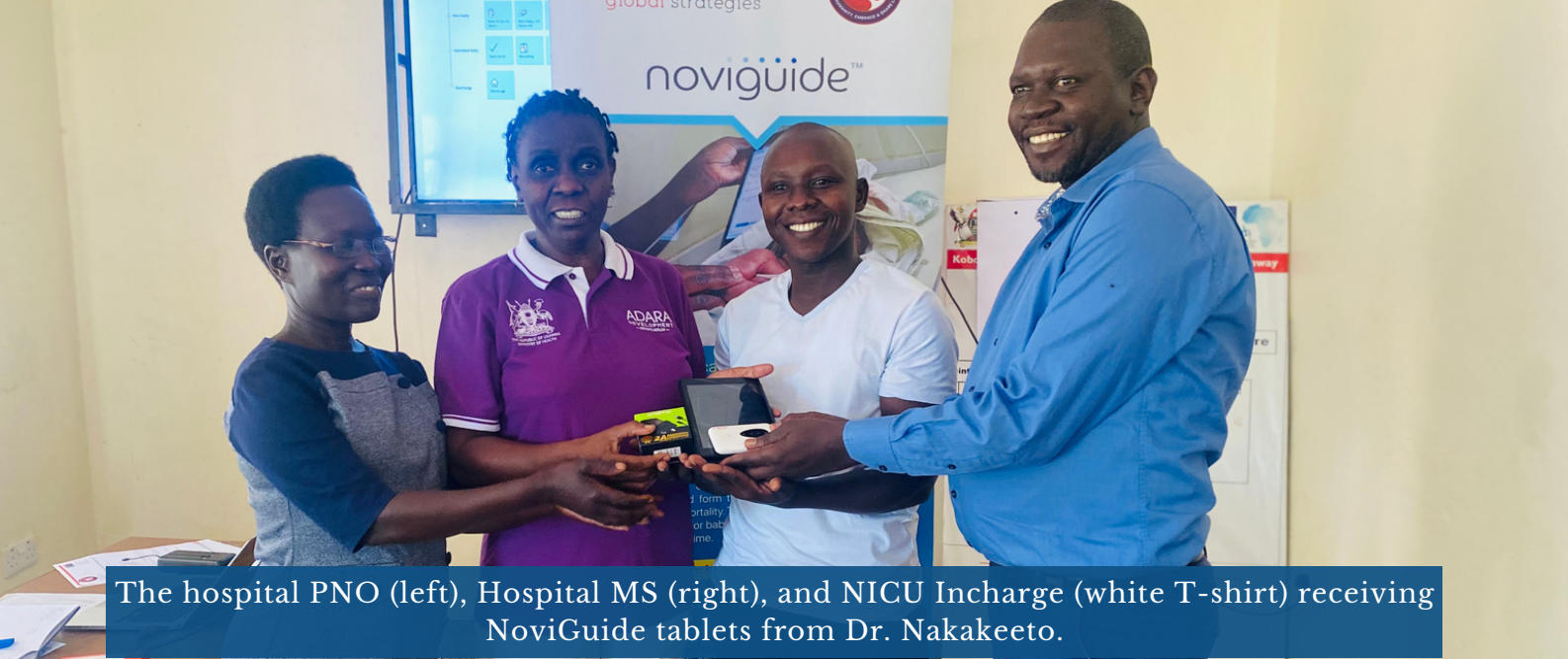
Figure 1. Showing distribution of participants by CADRE.



Ten health workers were trained, including 1 doctor, 2 nurses, 2 intern nurses, 1 midwife, and 1 assistant nurse. This breaks down to 10% doctors, 20% nurses, 20% intern nurses, 10% midwives, and 10% assistant nurses.



Transforming care at St. Joseph's Hospital Maracha NICU with NoviGuide – our first assessment in action!



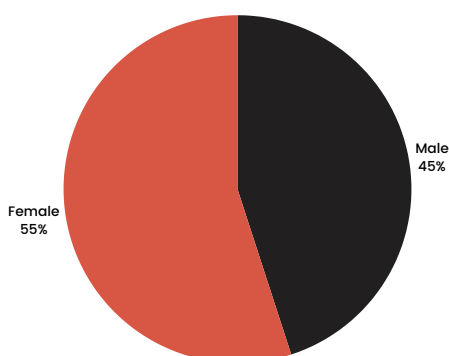
KOBOKO GENERAL HOSPITAL

Koboko General Hospital, is a government-owned healthcare facility in the West Nile region's district of Koboko, providing essential medical services at the hospital care level. In a significant move, the NoviGuide training was conducted in the hospital boardroom, drawing 20 enthusiastic participants.

Leading the way in adopting NoviGuide, **Amos Awusa**, the NICU Incharge, was rightfully chosen as the dedicated NoviGuide focal person for Koboko General Hospital. To support the smooth integration of NoviGuide into their healthcare practices, the facility received one NoviGuide tablet and a MiFi device. This marks a notable step forward in improving healthcare delivery and patient outcomes at Koboko Hospital

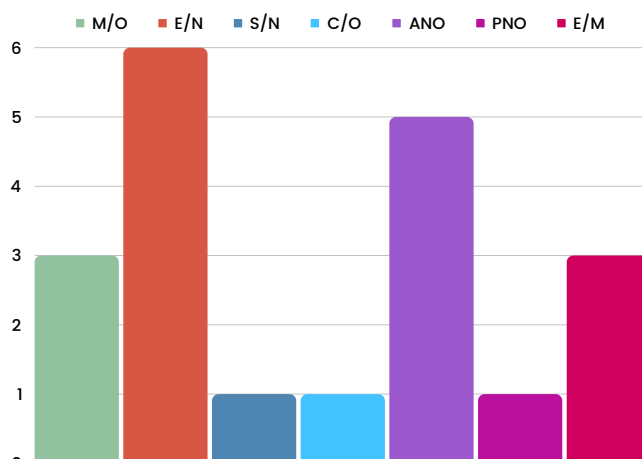
No.	Name	Sex	Cadre	Contact	Email
1	Abiria Florence	F	ANO	0779446775	florenceobiria@gmail.com
2	Kemeriga Moses	M	E/N	0772065606	kemirigamoses2021@gmail.com
3	Farny Robinah Dawa	F	S/N	0707586022	dawarobinah@gmail.com
4	Poni Peace	F	CO	0753556368	ponipeace20@gmail.com
5	Munduru Sharon	F	E/N	0778623147	sharonmunduru20@gmail.com
6	Afianum Dickson	M	ANO	0777476132	-
7	Ariye Favour Rebecca	F	E/M	0772174820	ariyefavourbecky@gmail.com
8	Dr. Omara Erick	M	MO	0777785558	ericwodpaco@gmail.com
9	Mungufen Patrick	M	E/N	0789295288	mungufenpatrick@gmail.com
10	Senema Annet	F	E/N	0786860335	senemaannet2022@gmail.com
11	Dr. Drate Simon A	M	MO	0772333739	adrongasimon@gmail.com
12	Dr. Jimmy Mungunira	M	MO	0785339923	jimmymungunira76@gmail.com
13	Lamiru Lois	F	ANO	0776030456	lamirulois2018@gmail.com
14	Witro Rachel	F	PNO	0782582531	rwitro@gmail.com
15	Obizuyo Marcy	F	E/M	0783400656	marcyobizuyo@gmail.com
16	Guma Wilfred	M	ANO	0785576557	gumawilfred@gmail.com
17	Oyee Cosmas	M	E/N	0771088422	oyeecosmas@gmail.com
18	Awusa Yole Amos	M	ANO	0786509810	amosawasay@gmail.com
19	Lekuru Beatrice	F	E/M	0774507532	lekurubeatrice7@gmail.com
20	Afakoru Alphanina	F	E/N	0778307102	alphaninaafakoru@gmail.com

Figure 1. Showing distribution of participants by Gender.



20 health workers underwent training, with 11 being female and 9 male participants. This represents 55% females and 45% males among the trained individuals.

Figure 1. Showing distribution of participants by CADRE.



The trained group consisted of 3 Medical Officers (15%), 6 Enrolled Nurses (30%), 1 Senior Nurse (5%), 1 Clinical Officer (5%), 5 Assistant Nursing Officers (25%), 1 Principal Nursing Officer (5%), and 3 Enrolled Midwives (15%)





YUMBE HC IV

Yumbe Health Center IV (HCIV) is a government-managed healthcare facility located in Yumbe town council within Yumbe district. As one of the four Health Center IVs in the district, Yumbe HCIV is instrumental in providing crucial services to our local community.

During our NoviGuide training held at the OPD, 7 dedicated health workers, all females and all were Enrolled Midwives, participated, showcasing our team's commitment.

Ayikoru Hellen was selected as our focal person to lead NoviGuide integration. The facility received 1 NoviGuide tablet and a MiFi device.

No.	Name	Sex	Cadre	Contact	Email
1	Yesko Fredah	F	E/M	0778779934	yeskofredah233@gmail.com
2	Ayozu Hidaya	F	E/M	0774461973	ayozuhidaya@gmail.com
3	Small Agnes	F	E/M	0786459086	agnessmall08@gmail.com
4	Ayikoru Hanuna Hope	F	E/M	0770626887	hanuna@gmail.com
5	Angaika Kalisum	F	E/M	0782821628	ngaikalsum1991@gmail.com
6	Ayikoru Hellen	F	E/M	0774034199	ayikoruhellen2@gmail.com
7	Zubeda Swaibu	F	E/M	0778115223	swaibuzubeda@gmail.com



NoviGuide in action as Nurse Hellen assesses her first newborn at the site.



global strategies

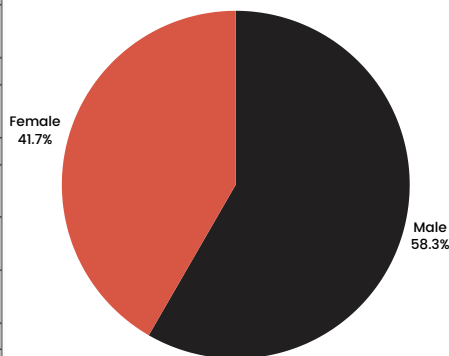


LODONGA HC IV

Lodonga HCIV, a government-managed healthcare facility in Lodonga subcounty, stands among the four HCIVs in Yumbe district. During our NoviGuide training, 12 participants attended, including the ADHO of Yumbe district **Sr. Maturu Irene**. The facility received a NoviGuide tablet and a MiFi. Dratiru Iren was appointed as our focal person to lead the integration of NoviGuide at Lodonga HCIV

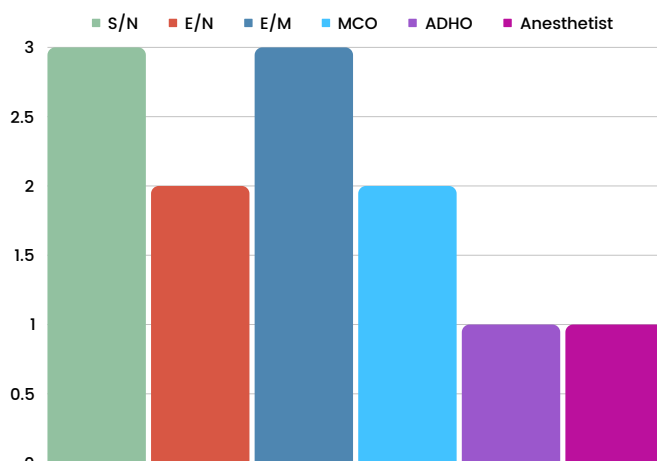
No.	Name	Sex	Cadre	Contact	Email
1	Maturu Irene	F	Ag. ADHO. MCHN	0772357792	maturairene2@gmail.com
2	Atum Francis	M	Anesthetist	0785844864	-
3	Olega Faustine	M	Student Nurse	0763542873	-
4	Alezoyo Molly	F	E/M	0785260694	alezoyomolly6@gmail.com
5	Gertrude Driwaru Aliasi	F	E/M	0786413182	gertrudedriwaru@gmail.com
6	Fikira Hindura	F	Student Nurse	0777873007	-
7	Edema Hakim	M	Student Nurse	0764634600	-
8	Afimani Gilbert	M	E/N	0780994639	-
9	Ayikonyakuayo Philip	M	MCO	0773701743	phillipayiko5@gmail.com
10	Avuga Habert	M	E/N	0784455296	habertavuga14@gmail.com
11	Econimorrish	M	MCO	0777540243	econimorrish@gmail.com
12	Dratiru Iren	F	M/W	0776769268	dratiruiren@gmail.com

Figure 1. Showing distribution of participants by Gender.



A total of 12 health workers underwent training, with 5 females (42%) and 7 males (58%) participating in the training.

Figure 2. Showing distribution of participants by CADRE.



The training consisted of 3 Student Nurses, 2 Enrolled Nurses, 3 Enrolled Midwives, 2 Medical Clinical Officers, 1 Anesthetist, and the ADHO of Yumbe district.





MIDIGO HC IV

Midigo HCIV, a key government-managed healthcare facility situated in Midigo sub county and 14kms from Yumbe town council, is one of the four HCIVs in Yumbe district. In our NoviGuide training took place in the Hospital boardroom, we had the participation of 13 dedicated individuals. The facility received a NoviGuide tablet and a MiFi. Taking charge of NoviGuide integration, **Driwaru Rose** was appointed as our focal person, contributing to the advancement of healthcare practices at Midigo HCIV.

No.	Name	Sex	Cadre	Contact	Email
1	Nyakuru Stella	F	E/M	0789436459	stellanyakuru09@gmail.com
2	Atizuyo Winnie	F	ECN	0775046535	atizuyowinnie8@gmail.com
3	Dr. Dramadri Alex	M	MCO	0779741635	alexamadri88@gmail.com
4	Acidriga Robert	M	MRA	0777766615	robertacidriga@gmail.com
5	Alupo Susan	F	RN	0784766316	susanalupoo@gmail.com
6	Bako Bibinu	F	NO	0771259591	
7	Faida Stella	F	EN	0775623374	faidastellatu@gmail.com
8	Driwaru Rose	F	EN	0782177460	dwiwarurose99@gmail.com
9	Ondo Fatuma	F	ANO	0774731610	ondofatuma007@gmail.com
10	Kharunda Modesta	F	EN	0782263058	modekharunda@gmail.com
11	Faida Esther Onziga	F	EM	0775900411	faidaesther237@gmail.com
12	Namatovu Annette	F	NO	0772571630	annetteenamatu@gmail.com
13	Mariam Shaban	F	EM	0781376311	mariamshaban612@gmail.com

Figure 2. Showing distribution of participants by CADRE.

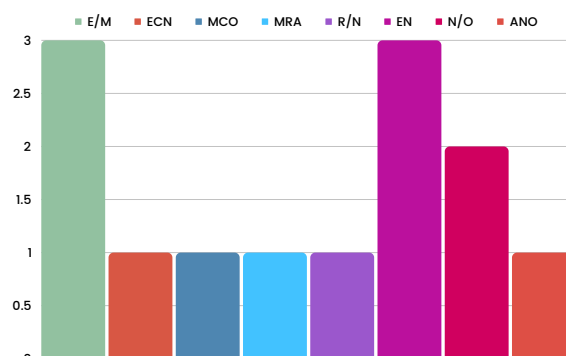
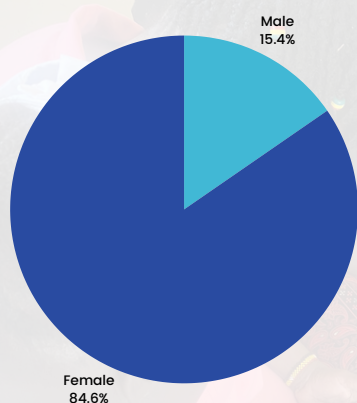


Figure 1. Showing distribution of participants by gender.



Females comprised the majority at 85%, with 11 participants, while males accounted for 15%, with 2 participants.

The training consisted of 3 Enrolled Midwives, 1 Enrolled Clinical Nurse, 1 Clinical Officer, 1 Records Officer, 3 Registered Nurses, 2 Enrolled Nurses and 1 Assistant Nursing Officer





YUMBE REGIONAL REFERRAL HOSPITAL

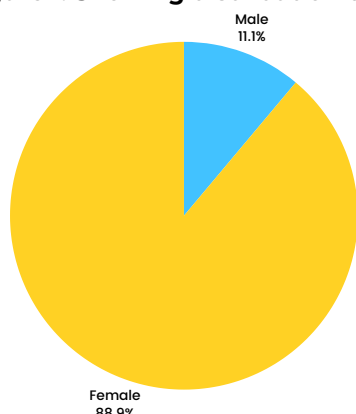
Yumbe Hospital, a prominent 300-bed public institution, serves as a regional referral hospital for districts including Koboko, Obongi, Moyo, Adjumani, and itself. Located in Yumbe District, Kuru Town Council, Omba Parish Gbalala Village along the Koboko-Moyo road, the hospital plays a pivotal role in healthcare provision.

Our NoviGuide training at Yumbe RRH was conducted in the hospital boardroom, bringing together staff from the two neonatal units. A total of 9 dedicated healthcare workers actively participated in the training. **Sr. Adong Judith**, Incharge of NICU, was appointed as the Focal Person, while **Sr. Drijaru Emily** assumed the role of Focal Person for the Neonatal Unit on the Pediatric ward. The facility has received a weighing scale, two NoviGuide tablets and one MiFi device to facilitate seamless integration.

Additionally, we are proud to announce that the esteemed Hospital Pediatrician, Dr. Mubarak, serves as our West Nile Region Coordinator, overseeing the coordination of NoviGuide implementation across the entire region for the facilities that underwent training.

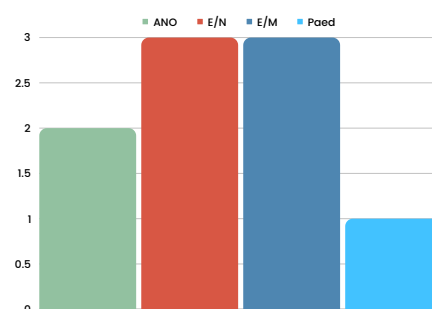
No.	Name	Sex	Cadre	Contact	Email
1	Drijaru Emily	F	PCHN	0772000462	emillydrijaru87@gmail.com
2	Anena Mastura Nba	F	ANO/midwife ry	0779740748	anenamastura@gmail.com
3	Adong Judith	F	ANO	0771420819	judithadong7@gmail.com
4	Asibazuyo Salama	F	E/N	0779247922	asibsalama@gmail.com
5	Sofia Hindum	F	E/M	0770908615	hindumsofia444@gmail.com
6	Asina Hawa	F	E/N	0780531610	asinahawa@gmail.com
7	Anguko Samira	F	E/M	0784693085	angukosamira43@gmail.com
8	Otua Zeinah Ibrahim	F	E/M	0782044485	lbrahimotua23@gmail.com
9	Dr. Mubarak Nasur	M	Paed	0785503100	mubaraknasur4@gmail.com

Figure 1. Showing distribution of participants by gender.



Nine healthcare workers actively participated in the training, comprising 88.9% females(8) and 11.1% males(1).

Figure 2. Showing distribution of participants by CADRE.



The training had 2 Assistant Nursing Officers, 3 Enrolled Nurses, 3 Enrolled Midwives, and 1 Paediatrician.





MOYO GENERAL HOSPITAL

Moyo General Hospital, situated in the heart of Moyo Town's central business district, holds the distinction of being one of the oldest hospitals in Northern Uganda, serving as a crucial lifeline for the local population and refugees. The NoviGuide training, conducted in the hospital boardroom, garnered the active participation of eight healthcare professionals. **Wasswa Christopher**, the NICU Incharge, was appointed as the focal lead, and the hospital received two tablets along with one MiFi device to facilitate seamless integration.

No.	Name	Sex	Cadre	Contact	Email
1	Emmanuel Vincent	M	MO	0701838081	levdpaul@gmail.com
2	Awor Brenda Okaka	F	E/N	0777809416	brendaokaka@gmail.com
3	Rijoo Rose Mystica	F	E/M	0763081305	-
4	Dranzoa Gladys	F	E/N	0785988053	dranzoagladys531@gmail.com
5	Tadriboyo Rosemary	F	E/N	0781620461	rosemaryta93@gmail.com
6	Wasswa Christopher	M	P/N	0771458855	watschris19@gmail.com
7	Musifa Samsa	F	E/M	0788207503	musifasamsa@gmail.com
8	Agasiru Gloria	F	E/N	0774507073	gloriaagasiruv1986@gmail.com

Figure 2. Showing distribution of participants by CADRE.

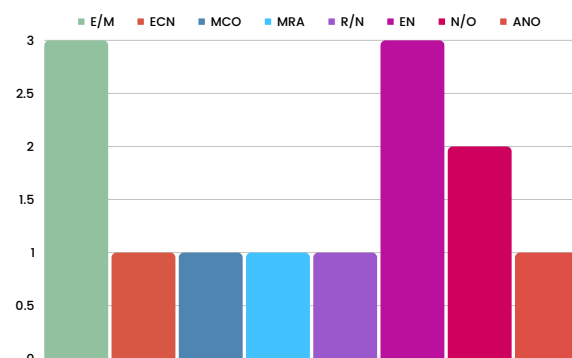
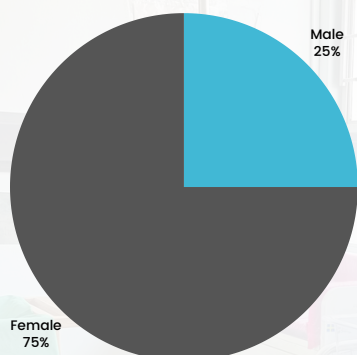


Figure 1. Showing distribution of participants by gender.



Females comprised the majority at 75%, with 6 participants, while males accounted for 25%, with 2 participants.

The training consisted of 3 Enrolled Midwives, 1 Enrolled Clinical Nurse, 1 Clinical Officer, 1 Records Officer, 3 Registered Nurses, 2 Enrolled Nurses and 1 Assistant Nursing Officer



Empowering healthcare professionals with NoviGuide on their smartphones

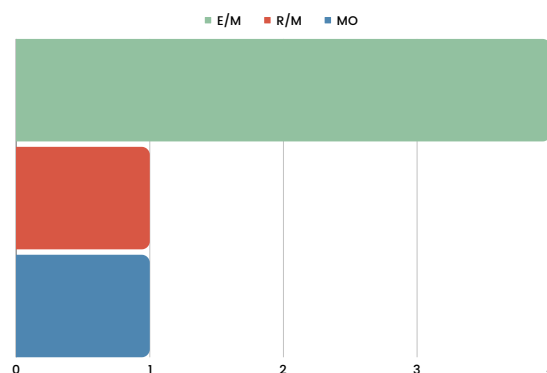


OBONGI HC IV

At Obongi HC IV in Obongi district, we had a NoviGuide training in the hospital boardroom. Six healthcare workers joined, and **Ojakuru Judith**, the NICU Incharge, is now our chosen person to lead NoviGuide at the hospital. The facility received 1 NoviGuide tablet and a MiFi.

No.	Name	Sex	Cadre	Contact	Email
1	Ojakuru Judith	F	E/M	0781267481	judithojakuru@gmail.com
2	Serera Hamida	F	R/M	0772823910	sererahamida@gmail.com
3	Dr. Issa Stephen	M	MO	0772312818	issastephen@gmail.com
4	Ocitiro Annet	F	E/M	0779871409	ocitiruannet2@gmail.com
5	Night Kalsum	F	E/M	0777325992	kalsumnigh@gmail.com
6	Ayikoru Proscovia	F	E/M	0786751275	proscoviaayikoru@gmail.com

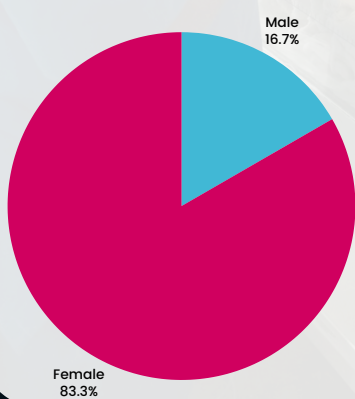
Figure 2. Showing distribution of participants by CADRE.



The training consisted of 3 Enrolled Midwives, 1 Registered Midwife and 1 Medical Officer.



Figure 1. Showing distribution of participants by gender.



Females comprised the majority at 83.3%, with 5 participants, while males accounted for 16.7%, with 1 participant.



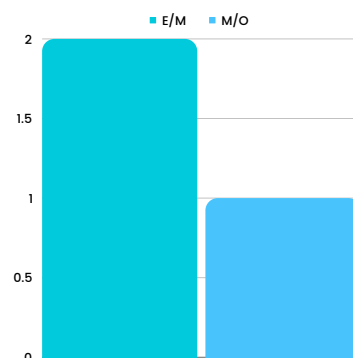


MUNGULA HCIV

Mungula HCIV, a Health Center 4 in Mungula Parish, Itirikwa Sub-county, Adjumani District. The NoviGuide training was held in the facility's Neonatal Care Unit (NCU), and three health workers participated. **Ayoo Mary**, the NCU Incharge, was selected as our site focal person. The facility received a NoviGuide tablet and a MiFi.

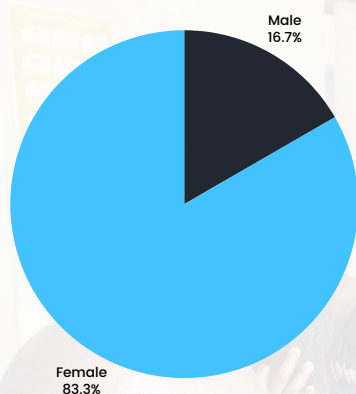
No.	Name	Sex	Cadre	Contact	Email
1	Ayoo Mary	F	E/M	0784130850	ayoomary850@gmail.com
2	Dr. Akuku James	M	MO	0773232903	akukuji@gmail.com
3	Likico Maureen	F	E/M	0774568276	maureenlikico@gmail.com

Figure 2. Showing distribution of participants by CADRE.



The training consisted of 2 Enrolled Midwives and 1 Medical Officer.

Figure 1. Showing distribution of participants by gender.



Females comprised the majority at 83.3%, with 5 participants, while males accounted for 16.7%, with 1 participant.





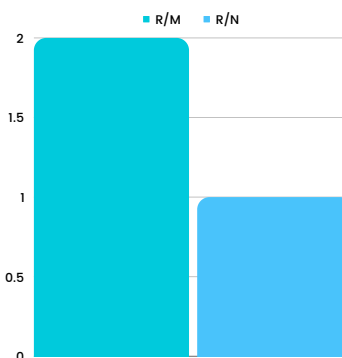
ADJUMANI GENERAL HOSPITAL

Situated in the busy center of Adjumani Town in Northern Uganda, Adjumani General Hospital stands as a vital public healthcare facility, owned by the Ugandan Government. Serving the communities of Adjumani and beyond, the hospital provides accessible and reliable healthcare services. Its strategic location in the central business district ensures easy access for patients from neighboring districts like Amuru and Moyo, as well as those from South Sudan.

The NoviGuide training took place in the hospital boardroom, having a participation of three healthcare workers. **Shaidia Amin** was appointed as the focal person at the site. The facility received one NoviGuide tablet.

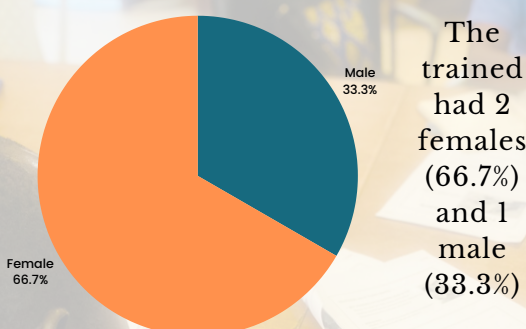
No.	Name	Sex	Cadre	Contact	Email
1	Shaidia Amin	F	R/M	0773072009	amin.shaidia@gmail.com
2	Driciru Joyce	F	R/M	0775040288	joycedriciru@gmail.com
3	Adebanku Francis	M	R/N	0778911631	afoozeda@gmail.com

Figure 2. Showing distribution of participants by CADRE.

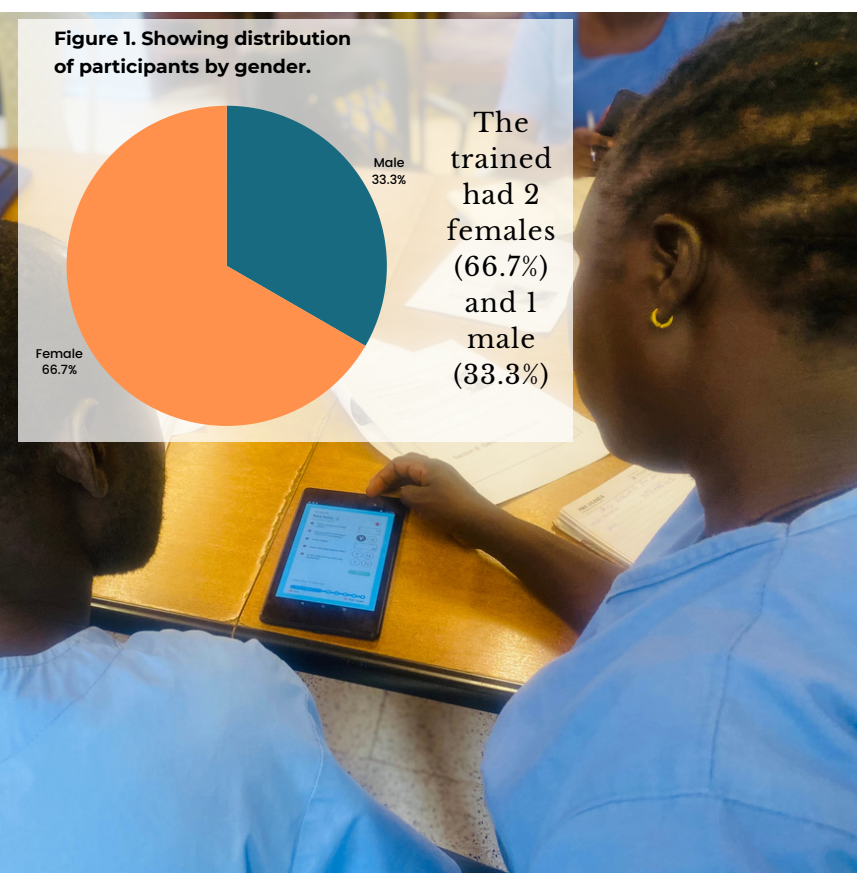


The training consisted of 2 Registered Midwives and 1 Registered Nurse.

Figure 1. Showing distribution of participants by gender.



The trained had 2 females (66.7%) and 1 male (33.3%)



TESTIMONIALS

Using NoviGuide will not just help us get better at technical stuff, but it will also make us feel more confident. The easy-to-use screen and clear guidance will be super helpful, especially for those who are just starting out in the field.
"Koboko Hospital"

The 'Emergency Button' is a fast lifeline for unexpected situations. It is reassuring for me to know that help is just a button away, making our ability to respond quickly even better.
"Adjumani GH"

NoviGuide will be a game-changer in our neonatal unit. The real-time instructional videos especially the resuscitation section is a fantastic refresher, making sure we never miss a step in critical moments. It will be like having a reliable mentor by our side.
"Nebbi GH"

The offline mode ensures we can provide quality care even in areas with poor network coverage. It's empowering to bring such advanced healthcare tools to communities that need it the most."
"Obongi HC IV"

NoviGuide will be super helpful with its 'My Patient' assessments. Quick and accurate checks will make it easy for me to plan care better.
"Holy Family Nyapea"

The tablet's easy accessibility allows us to quickly assess and share crucial information. It's like having a portable emergency toolkit at our fingertips.
"Moyo GH"

Challenges Faced:

Participants who were unfamiliar with connecting devices to Wi-Fi encountered difficulties with Fire Tablets, as they lacked SIM card slots, limiting access for those reliant on mobile networks.

It became evident that certain facilities, especially at the hospital level, required multiple tablets for various sections like maternity and postnatal ward. Providing only one tablet resulted in inefficiencies in workflow.

Throughout the training, facilities, particularly Health Center IVs in remote villages, faced challenges with poor network connectivity. This affected the timely receipt of data, prompting the scheduling of specific days to travel to locations with better network reception for data synchronization.

Some Neonatal Intensive Care Unit (NICU) workers were on leave during the training, resulting in their absence and missing out on the training. This could potentially impact the consistent and widespread adoption of the application.

Due to concerns about the poor management structure at Kuluva Hospital, the decision was made to exclude the facility from the NoviGuide training. This was done to avoid potential risks associated with inadequate staffing and management, ensuring the responsible use and safety of the NoviGuide tablets.



Recommendations



1

Re-evaluate the tablet allocation strategy, particularly for hospital-level facilities with diverse departments like maternity and postnatal care. Consider adjusting the allocation to better meet the specific needs of each department.

2

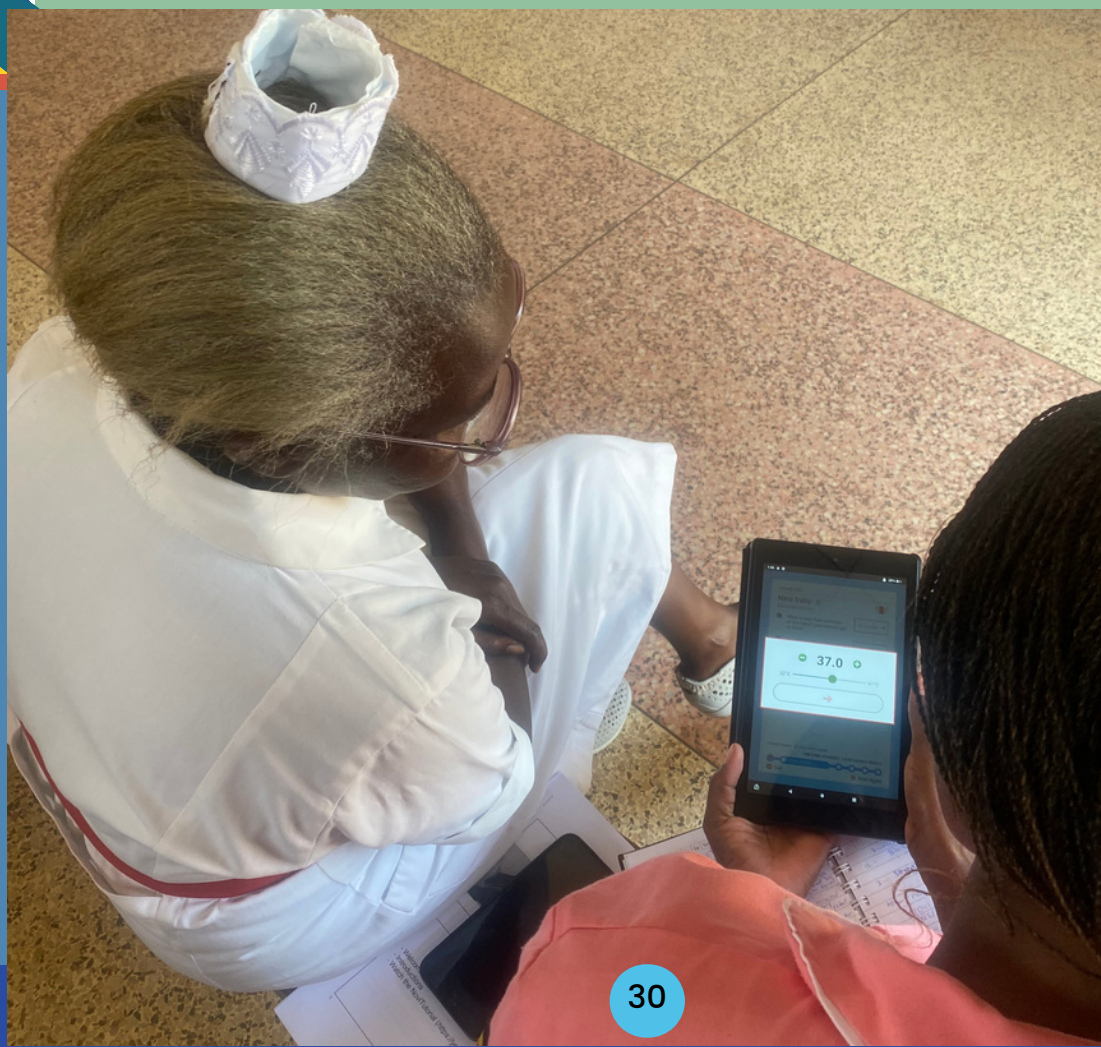
Consider acquiring tablets with SIM card slots to provide more flexible connectivity options. Tablets with cellular capabilities can enhance connectivity, particularly in areas where Wi-Fi is challenging.

3

NoviGuide should also be used as a screening tool and not only for assessment of babies.

NOVUS CONSULTATION

The NoviGuide training program in the West Nile region has not only been effectively implemented but has also been warmly embraced by frontline healthcare workers. This positive reception is particularly notable in the dedicated care provided to sick and small newborns, reflecting a transformative impact on the quality of healthcare delivery in the region.



Scaling Quality Healthcare

NoviGuide is a comprehensive clinical decision support platform that brings expertise to the bedside while gathering data to guide system-level interventions.



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