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Background

- There have been significant national-level commitments and policies in maternal-newborn health in Uganda in the last decade.
- Translating these national commitments into sub-national level action is the present challenge facing Ministry of Health (MOH) and development partners.
- The Uganda MOH therefore expressed interest in the development of a Regional Learning Network (RLN) as a way to strengthen the health system and improve MNH care and outcomes.



Profile: Preterm Birth in Uganda

PRETERM BIRTHS AND DEATHS

Preterm birth rate (babies born <37 weeks): 14% Low birth weight rate (babies born <2,500g): 12%

Babies born preterm per year: 226,000

Ratio of boys to girls born preterm: 1.17

Babies born per year <28 weeks: 11,000

Impaired preterm survivors per year: 5,700

Direct preterm child deaths per year: 12,500

Source: http://www.everypreemie.org/wp-content/uploads/2016/02/Uganda.pdf



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What is the goal and the intervention?

- Goal: Improve MNH outcomes via achieving high quality MNH care in health facilities
- Intervention: the Regional Learning Network is a network of health facilities including and within the catchment of the regional referral hospital linked through QI collaborative and referral to provide quality newborn care services based on national standards and guidelines.





Objectives

- Employ quality improvement methodology using tools and methods adapted to the Uganda settings, to address critical gaps in providing high quality MNH care
- Through the use of the QI methods and tools, produce new knowledge and learning on the best approaches to improve MNH care, coherent with the Uganda national policies.
- To spread, share, and document learning and develop institutionalized mechanisms of spread



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What is the coverage?

- RLN is a cross-sectional slice of the public health system
- 14 facilities in 6 districts of 1 out 5 regions of the country
- Learning and documenting how to improve quality of MNH services and create meaningful learning networks is the priority
- Plan to influence spread vertically (within the region) and horizontally (across regions), to achieve high coverage.





Who are the partners?

- University Research Corporation (URC):
 - Implements Quality Improvement cycles , learning sessions and mentorship
- Saving Newborn Lives, Save the Children:
 - Focus on building functional network links among RLN facilities
 - Advocacy at district and National level.
- MOH /HRRH: Leadership and oversight
- District leadership: coordination, SCM, HR management, supervision



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Implementation Strategy



Network:

- Facilities organized in two levels of care, each level with clear clinical roles and tasks
- Facilities coordinated for referrals and follow-up

Learning:

- Clinical knowledge and skills improved through:
 - Training center at Hoima RRH
 - Mentoring activities at facilities

- Quality Improvement:

- QI teams at each facility supported by URC Team at Hoima
- Rapid improvement cycles and monitoring of indicators
- Quarterly Learning Sessions

Save the Children

PROFILE OF NEWBORNS CARED FOR,AT LEVELS OF CARE IN THE NETWORK

	Standard Newborn Care	Standard plus Special Newborn Care
	HCIV/HCIIIs and District Hospital	Regional Referral Hospital
Profile of newborns cared for	 All term newborns LBW > 1500g GA 32-36 weeks Birth asphyxia Meconium staining Possible infection 	- All term newborns - All LBW and preterms born at RRH or referred - Babies with complications:

CONTENT OF CARE, BY LEVELS OF CARE IN THE NETWORK

	Standard Newborn Care	Standard plus Special Newborn Care
	HCIV and District Hospital	Regional Referral Hospital
	Newborn:	Newborn:
	Essential Newborn Care	■ Essential & sick newborn
	Resuscitation (HBB)	care
	Oxygen administration	 Essential Obstetric Care
	Breastfeeding/tube feeding	Oxygen therapy
	• KMC	■ CPAP
Content of	IVF administration	Phototherapy
Care	Antibiotics	 Mgt of hypoglycemia
	Mother (Essential Obstetric Care):	 IV fluid and drugs
	Safe, clean delivery	administration
	Prolonged/obstructed labor	Tube feeding
	ACS for threatened preterm birth	 Selected surgical
	Mgt of fever/chorioamnionitis	interventions
	Mgt of PPROM	
	Mgt of severe Preeclampsia	

Indicators Monitored



Impact

- Early institutional newborn mortality rate (live births deaths before discharge)
- Fresh stillbirths rate
- Case-fatality rates

process

- % newborns receiving essential newborn care components (bundle indicator)
- % of mothers presenting threatened preterm birth (<34 weeks) who received ACS in accordance to WHO guidelines
- % deliveries in which labor was correctly monitored with a partograph



Indicators cont'd

Process indicators

- % prolonged labor cases in which a appropriate action was taken
- % newborns not breathing spontaneously successfully resuscitated
- % newborns either preterm or LBW who received KMC
- % newborns with suspected severe bacterial infection given indicated antibiotics

Input indicators

- Score of health care workers' knowledge on essential newborn care
- % key newborn care drugs available at facility
- % key newborn care supplies available at facility



Activities implementated so far

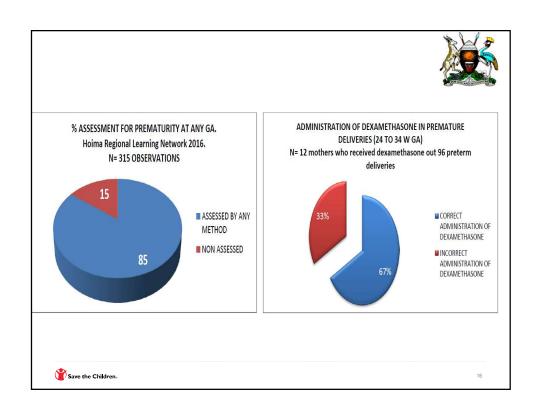
URC team

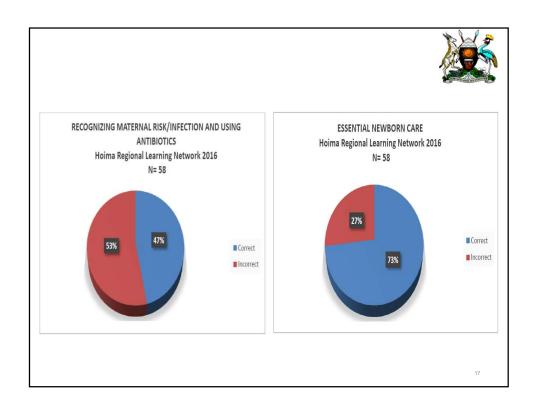
- Facility baseline assessment
- Setting up of fxnal skills lab
- 3 clinical trainings
- Formed trained QI teams
- Conducted 1st learning session and QI training
- mentorship to QI teams

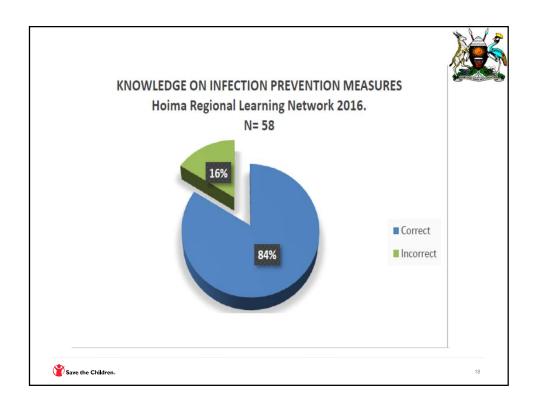
Save the children

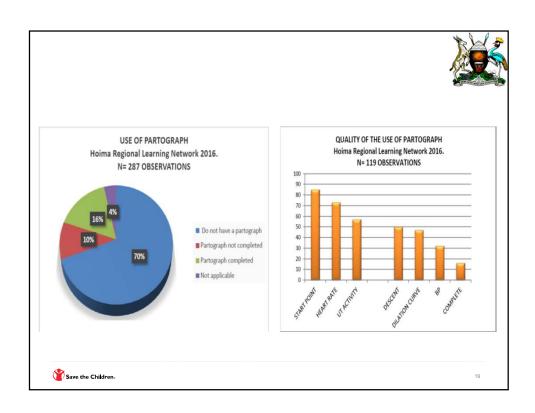
- Equip skills lab and facilities
- RMNCH Scorecard dissemination.
- District level MNCH working group
- Advocacy (media, political leaders, local leaders, CSOs, opinion leaders)
- MPDSR training, tools, structures.

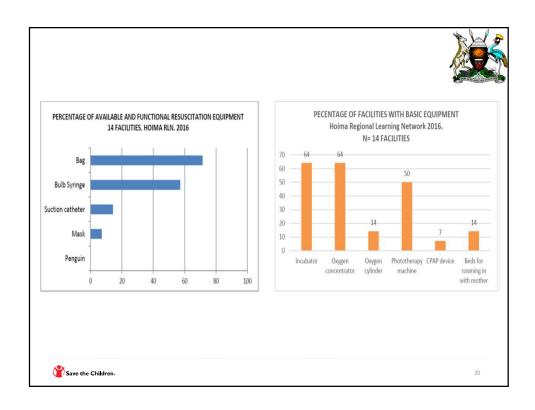
Baseline Assessment		
AIM	Quantitatively -status of the quality of newborn care	
Method	Defined quality standards and established indicators based on Uganda MoH and WHO guidelines.	
Data Source	Maternity registers, clinical records, direct observations using a checklist, and interviews	
Areas Assessed	 Knowledge of health workers about newborn care Infrastructure and personnel availability Availability of essential drugs and supplies Existing QI Activities Labour monitoring using Partograph Essential newborn care Infection control & prevention 	











What are we doing?



Training sessions







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Practicums at Hoima RRH skills lab

Practical session on NGT feeding

Neonatal resuscitation practicum





Demonstrations at skills lab cont'd

Breastfeeding support



Kangaroo Father Care



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Mentorship on ENC at Hoima RRH

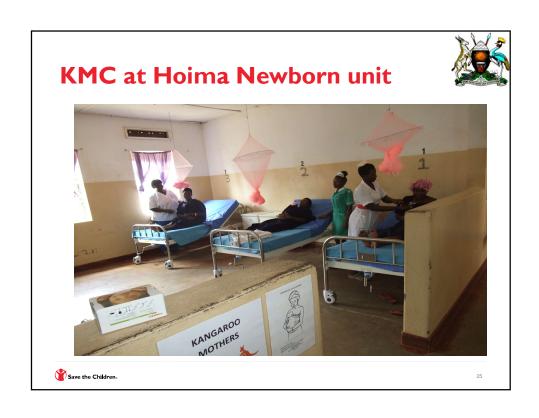
Trainee demonstrates TEO application in ENC







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Planned activities

- Start first rapid improvement cycle –Dec 2016
- Continuing activities- district coordination meetings, mentorship, learning sessions and QI cycles
- Distribution of procured equipment informed by Baseline.
- Continuous data quality assurance (DQA)- working with districts and regional performance monitoring Team-(RPMT)

