

#### **Background**

- Prematurity-related death is a leading cause of under-5 mortality in Ethiopia
  - Unfinished agenda for MCH as Ethiopia enters the era of the SDG
- Kangaroo Mother Care (KMC) can reduce mortality among low birthweight and premature babies by up to 40% when implemented appropriately
- National Newborn Child Survival Strategy calls for a national scale-up of facility-based KMC services as part of a package of high-impact interventions for low birthweight babies

Save the Children

#### **Objectives**

- Determine facility readiness to provide KMC and other services for preterm/low birthweight (LBW) babies including availability of knowledgeable and skilled staff, supplies and space, and supervision.
- Assess services available to manage preterm labor and preterm/LBW newborns
- Determine caseload of preterm/LBW
- Assess provider attitudes regarding preterm/LBW management
- Assess provider perspectives on barriers to use of services



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Souther

South Gonder Ving Him/a

Zone 4

Afar

Zone 1

Alfary

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Amazan

Zone 5

Asosa

Metekel West Goldin

South Wollschoolia

Beneshkingul Gulkur

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Zone 6

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Hereri, Jijiga

Kelem Welleala

South Nest Shewa

Addis Abriha

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#### **Methodology**

- Cross-sectional survey; qualitative and quantitative techniques
- ALL hospitals and 19 randomly-sampled health centers assessed in:
  - East Shoa
  - Sidama
  - Gurage

No	Zone	# of Hospitals	# of Health centers
1	East Shoa	2	52
2	Sidama	3	126
3	Gurage	I	61



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### Methodology, cont.

- Qualitative data collection
  - Purposive sampling
  - 6 interviews: 5 providers in NICU, one head of MNH/delivery

No	Zone	District	Type of facility	Profession of interviewee
I	East Shoa	Adama	Health center	Midwife nurse
2	East Shoa	Adama	Referral hospital	Midwife nurse
3	East Shoa	Bishoftu	Referral hospital	Midwife nurse
4	Sidama	Shabedino	District hospital	Midwife nurse
5	Sidama	Dale	Referral Hospital	Midwife nurse
6	Gurage	Meskan	District hospital	Midwife nurse



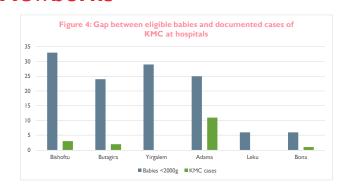
### **Results: Identification of Eligible Newborns**

	Hospital births (N=4466)		HC births (N=1975)		Total births (N=6441)	
	#	%	#	%	#	%
Total LBW	319	7.1%	П	0.6%	330	5.1%
<1500gm	38	0.9%	2	0.1%	40	0.6%
1500-1999gm	85	1.9%	3	0.2%	88	1.4%
2000-2499gm	196	4.4%	6	0.3%	202	3.1%
Missing Birth weight	69	1.6%	4	0.2%	73	1.1%

- 5.1% of births at surveyed facilities were LBW.
- 2% were <2000g, which is the national cut-off for KMC
- · These volumes are lower than expected per global estimates



Results: Identification of Eligible Newborns



- Only 14% of eligible babies were enrolled in KMC
- Despite the small number of LBW newborns, there is still large unmet need for KMC



### **Results: Equipment & Supplies**

	Hospital (N=6)		Health Centers (N=19)		
	n	%	n	%	
Supplies available					
Nasogastric tubes	5	83%	0	-	
Oxygen	6	100%	I	5%	
IV fluids	6	100%	14	74%	

- Equipment and supplies for the care of low birthweight newborns are lacking particularly at the health center level.
- Most HCs had IV fluids, but no oxygen or nasogastric tubes.



Results: Equipment & Supplies

able 9: Hospital		Health		
	(N=6)		Centers	
			(N=9)	
	n	%	n	%
Space for KMC				
Separated	2	33%	1	11%
Integrated	4	67%	8	89%
Beds available for KMC				
1-2	1	17%	6	67%
3-4	3	50%	3	33%
5+	2	33%	0	-
Equipment to increase comfort				
Low beds	3	50%	6	67%
Head rest/pillow	1	17%	5	56%
Chairs	5	83%	2	22%
TV	1	17%	0	-
KMC guidelines (observed)	1	17%	0	-
KMC register available	1	17%	0	-
KMC register up to date	1	17%	0	-

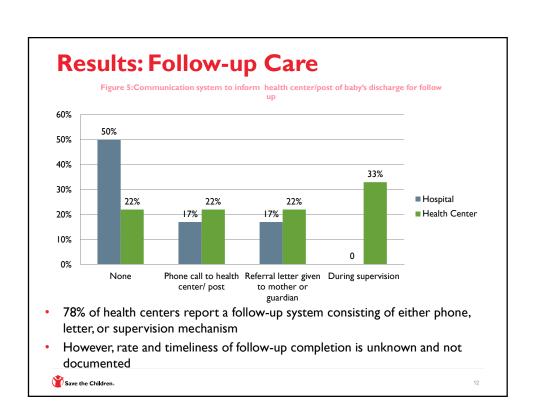
- Approximately half of facilities had amenities in place to make families comfortable for an extended stay in KMC.
- Many hospitals had no place to record what care was given to babies in KMC.

#### **Results: Staff Training**

	Hospital (N=6)	Health Centers (N=19)	Total (N=25)
KMC admission criteria mentioned n (%)			
<2000g	2 (33%)	9 (47%)	11 (44%)
Mother willing	2 (33%)	I (5%)	3 (12%)
Baby stable	2 (33%)	I (5%)	3 (12%)
Not in national training manual:			
<2500g	4 (67%)	4 (21%)	8 (32%)
Preterm	3 (50%)	5 (26%)	8 (32%)
Low Apgar	0	I (5%)	I (4%)
Hypothermic	I (17%)	2 (11%)	3 (12%)
Not breastfeeding	I (17%)	I (5%)	2 (8%)
Aspirating baby	0	I (5%)	I (4%)

- Less than 20% of delivery attendants, who are primarily responsible for timely initiation of KMC, are trained in KMC.
- Knowledge about admission criteria was a knowledge gap, despite inclusion in the Essential Newborn Care Training Manual.

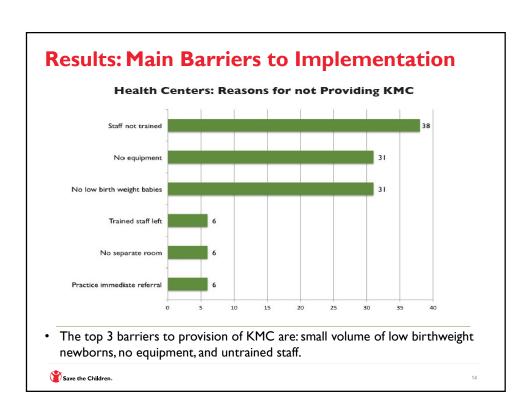




#### **Results: Supervision**

- 42% of health centers report no supervision for MNH
- 68% of health centers had no supervision for care of preterm/LBW newborns





### **Results: Perspectives on Barriers to Use of Services**

- "Babies are usually carried at the back not in front"
- "Small babies will not survive what so ever is done for them"
- "A lot of people enter this room and it is chaotic; had the room been separate and peaceful, they would have the chance to pay attention to their babies."





### Develop/review detailed national KMC guidelines

- Include admission criteria, inpatient management, discharge criteria, follow up, home care, referral, and transport at all levels of the health system.
- Consider forthcoming global guidance for KMC from the World Health Organization (early-2016) that can be adapted in consultation by a consortium of pediatric and neonatal professionals in Ethiopia.



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# Formalize and standardize the referral mechanism for babies discharged from KMC service

- Include a standard protocol for contacting the health facility and HEW with whom the baby will follow-up
- Include a standardized document used for tracking baby's growth, development, and clinical progress (i.e. health passport).



# Include KMC in pre-service training for all health workers involved in delivery and care for preterm/LBW babies

- Pre-service training is a longer pipeline to service delivery than in-service training, but is less dependent on donor support.
- Especially important for midwives, as they are the primary cadre in a position to immediately initiate KMC.
- Capacity-building needs to also address health workers' misconception that separate space is a pre-requisite for KMC or that KMC is a last option when incubator is not available.



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### Ensure that admission to KMC is reported in HMIS

- KMC admissions should be completely recorded in registers and reported through HMIS to assist with national tracking
- Consider selecting a standard denominator to produce a meaningful KMC indicator, rather than reporting numbers of admitted patients.



# Provide health education and anticipatory guidance for women at risk of preterm birth during antenatal care

- Provide targeted health education for high-risk pregnancies during ANC visits
- Leverage HDA platform for social norm change around skinto-skin contact and premature/LBW newborns



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# Begin by concentrating on expanding provision of quality KMC services in Type A Health Centers, and strengthening KMC services in hospitals

 Ultimate goal is quality KMC in ALL hospitals and health centers, but an accelerated phased approach will allow for simultaneous investment to improve referral, transport, and follow-up systems, development of national KMC guidelines and measurement mechanisms.



### Leverage resources from the global community

- The KMC Acceleration Partnership (KAP) is working with WHO to make available global guidance for implementation of KMC that can be adapted to Ethiopia context
- KAP has disseminated a set of 10 core KMC indicators that can be incorporated into routine health systems.

