

STORYTELLING WITH DATA

Organized by: USAID's Research for Decision Makers (RDM) Activity, icddr,b & D4I Date: 3 February, 2021



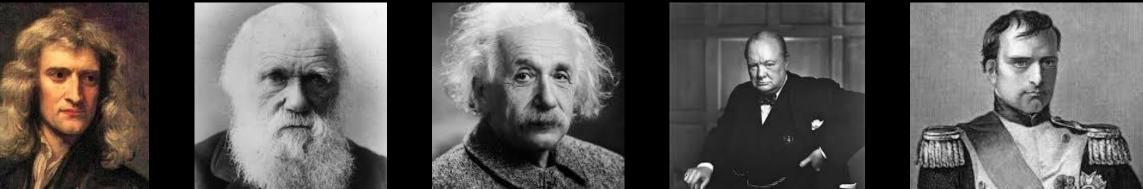




Prematurity in Bangladesh where we are and what we need to do

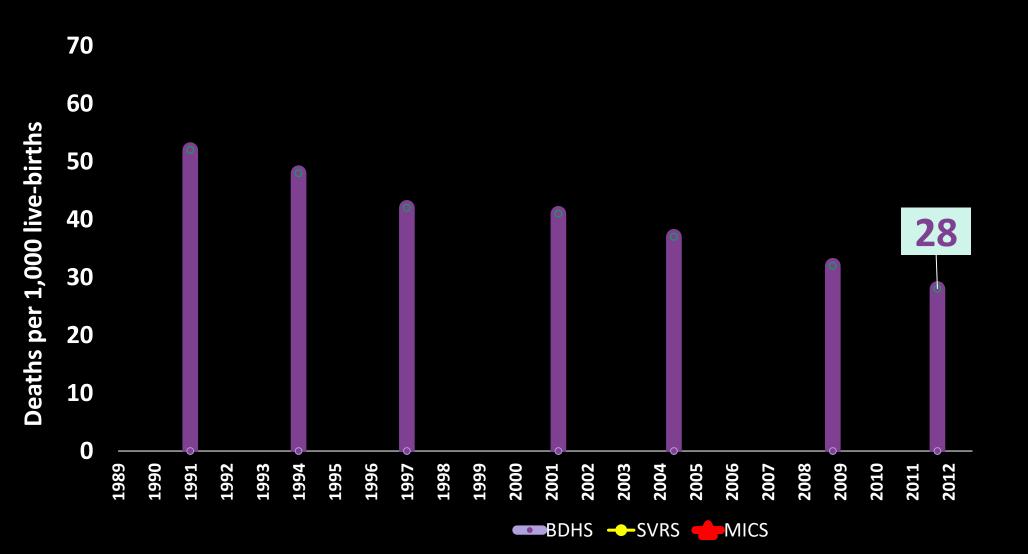
Famous people who were born too soon...



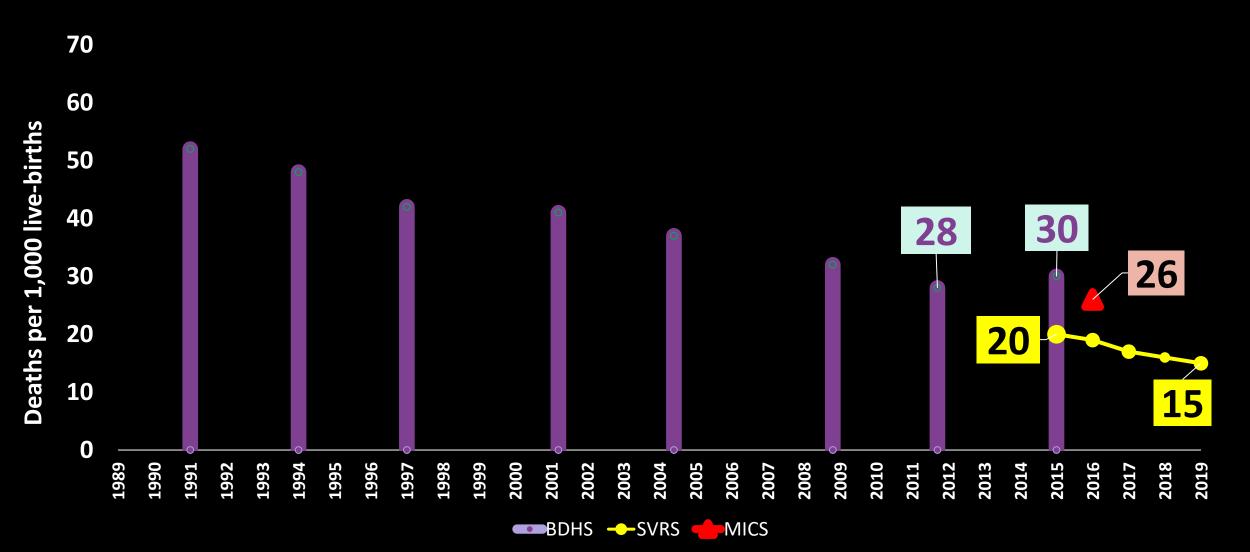


What is the neonatal mortality rate in Bangladesh?

Neonatal Mortality in Bangladesh: rate and trend by different data source



Neonatal Mortality in Bangladesh: rate and trend by different data source



Newborns

90,0000

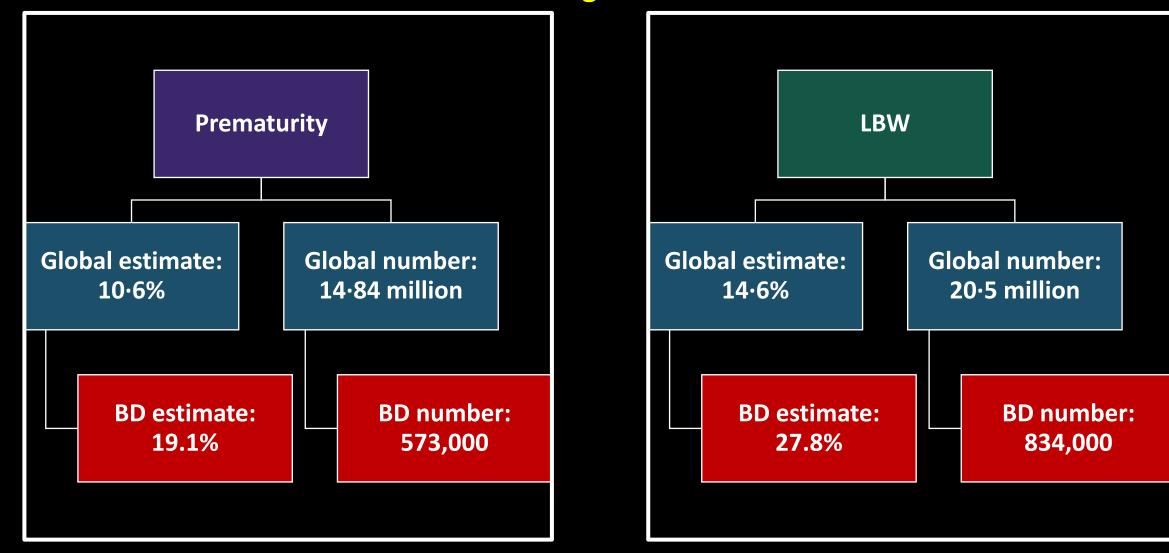
What is Prematurity and LBW?

Prematurity and LBW: WHO classification

Prematurity		LBW		
Extremely preterm	<28 weeks	Low birthweight	<2,500 g	
Very preterm	28–<32 weeks			
Moderate or late preterm	32–<37 weeks	Very low birthweight	<1,500 g	
Term	37–<42 weeks	Extremely low		
Post-term	≥42 weeks	birthweight	<1,000 g	

What is the prematurity and LBW burden in Bangladesh?

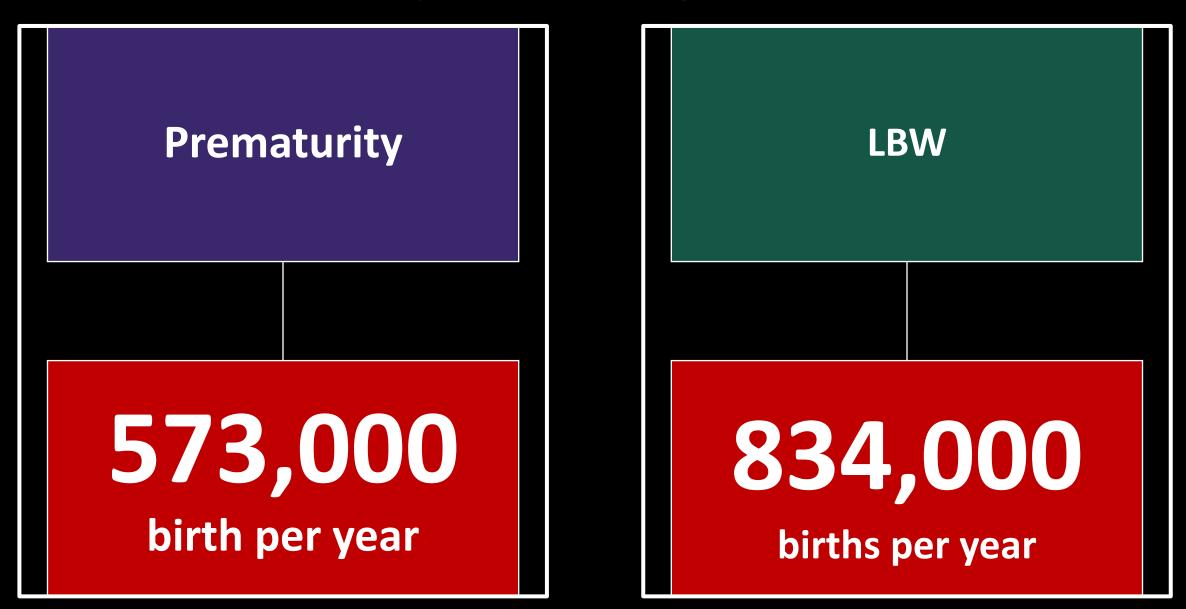
Prematurity and LBW: Global and Bangladesh estimates



Estimate directly extracted from:

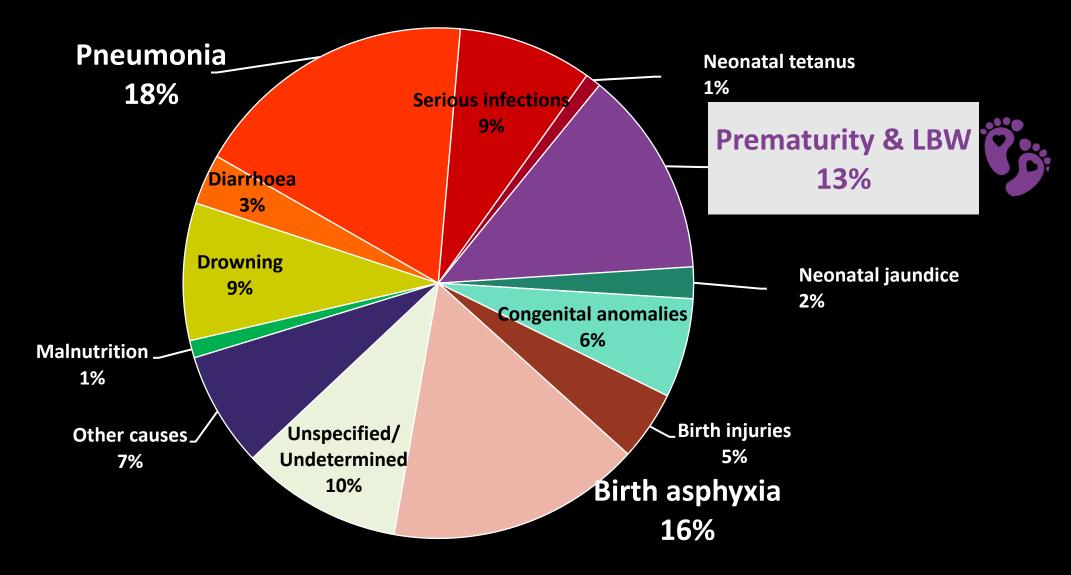
- The Lancet Global Health. 2019;7(1):e37-e46.
- The Lancet Global Health. 2019;7(7):e849-e60

Prematurity and LBW: Bangladesh Estimate

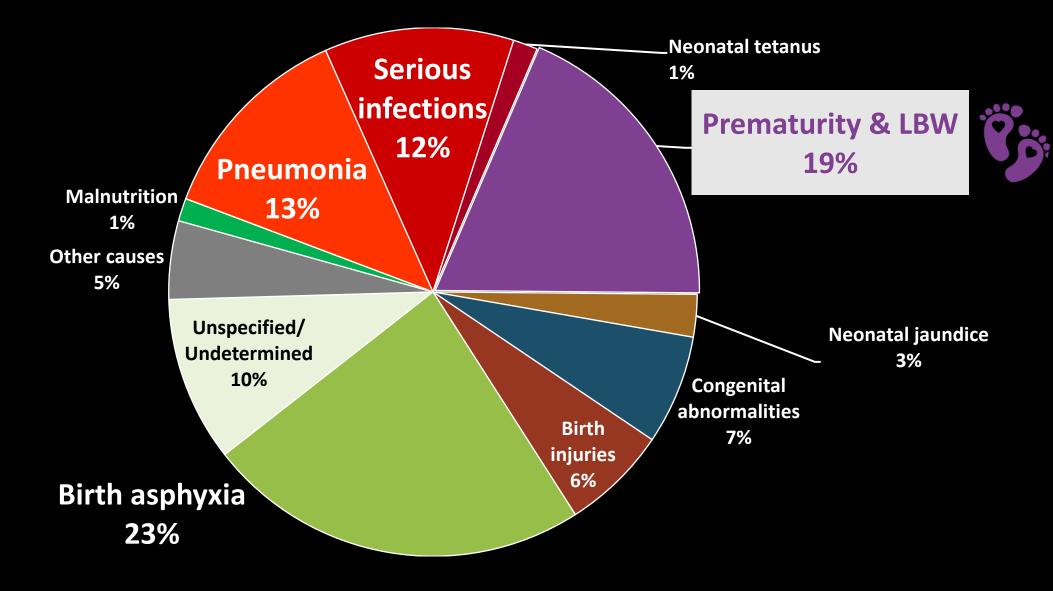


What is the contribution of prematurity & LBW in neonatal deaths in Bangladesh?

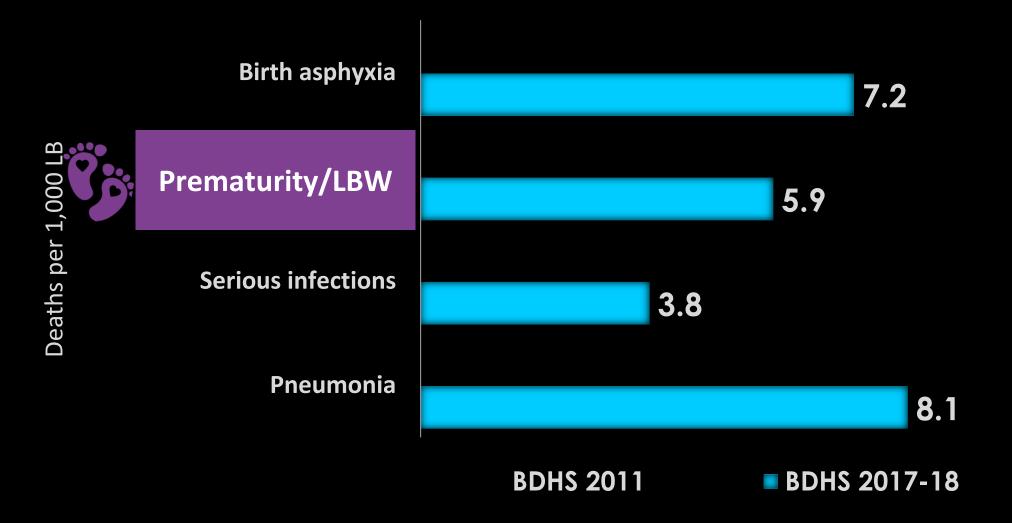
U-5 Mortality in Bangladesh: causes of deaths by percent distribution



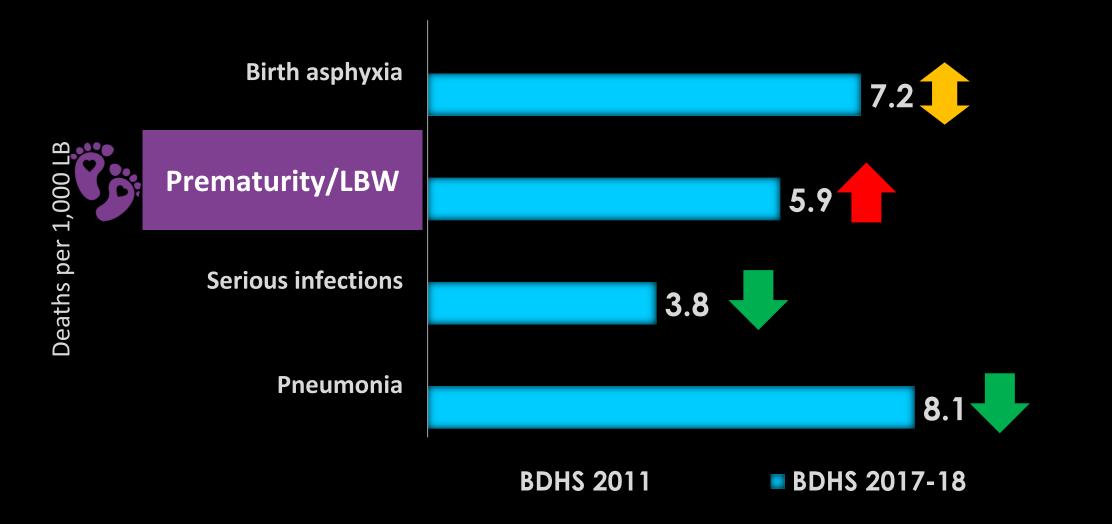
Newborn Mortality in Bangladesh: causes of deaths by percent distribution



Mortality due to prematurity/LBW in Bangladesh: cause specific mortality rates



Mortality due to prematurity/LBW in Bangladesh: cause specific mortality rates





What numbers should we keep in mind?

Prematurity: 573,000 births per year

LBW <2500 gm : 834,000 births per year

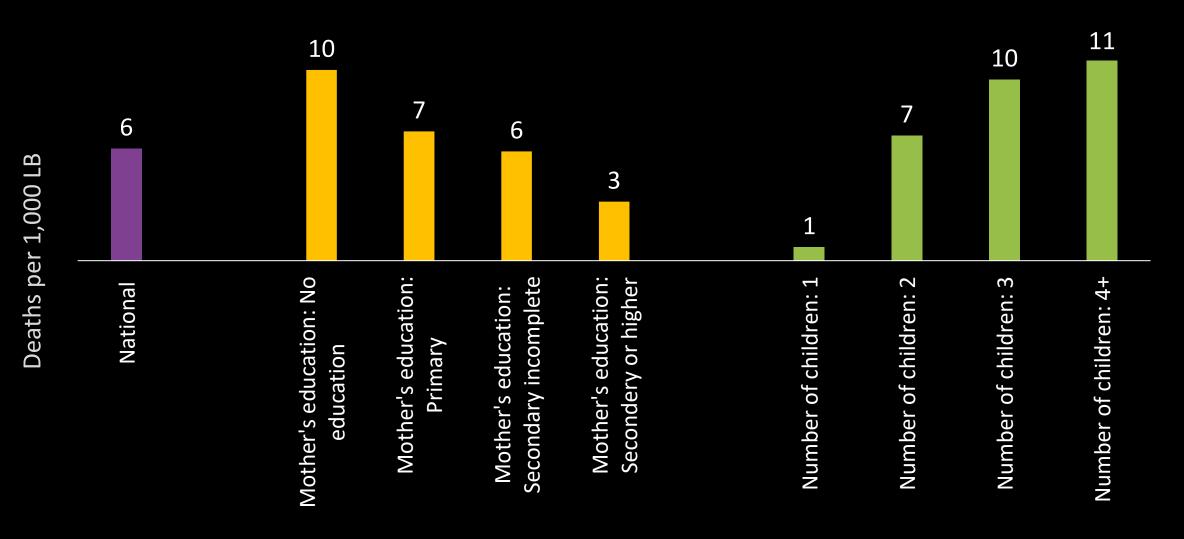
LBW <2000 gm : 192,000 births per year

17,100 deaths per year

What are the determinants?

17,100

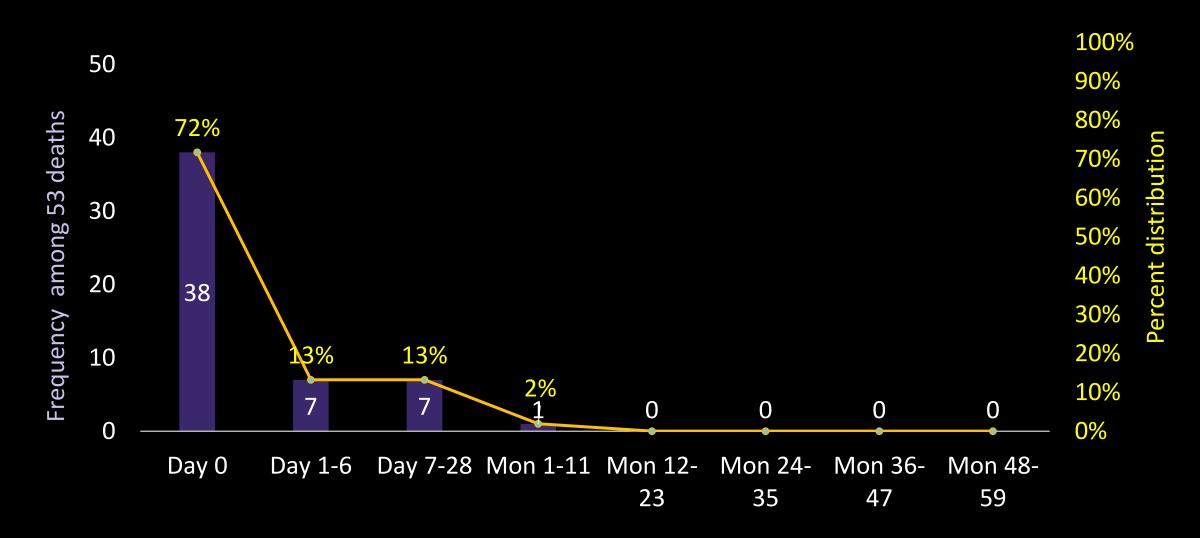
Prematurity/LBW: determinants of mortality



When do they die?

17,100

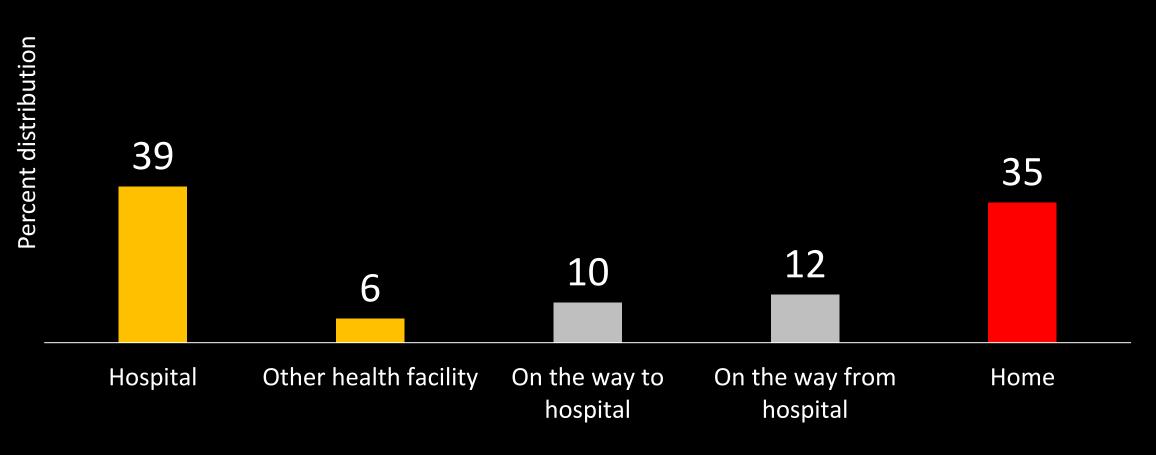
Prematurity/LBW Mortality in Bangladesh: timing of deaths



Where do they die?

17,100

Prematurity/LBW Mortality in Bangladesh: places of deaths

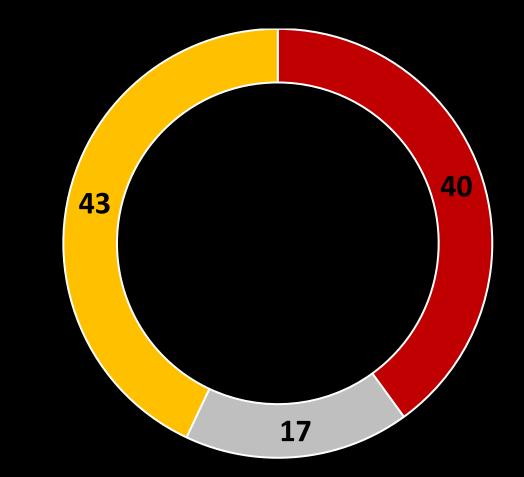


BDHS 2017-18

Did they seek care?

17,100

Prematurity/LBW Mortality in Bangladesh: care seeking before deaths



No Care Seeking and Home Death Care Seeking and Home Death

CareSeeking and Facility Death

BDHS 2017-18

Did they receive the required care?

17,100

Major interventions for prematurity/LBW

Antenatal Corticosteroi d (ACS)

Kangaroo Mother Care (KMC)

SCANU

2014

Use of Antenatal Corticosteroids (ACS) in Threatened Preterm Deliveries to Reduce Neonatal Mortality and Morbidities National Guidelines



National Guideline on Kangaroo Mother Care (KMC)



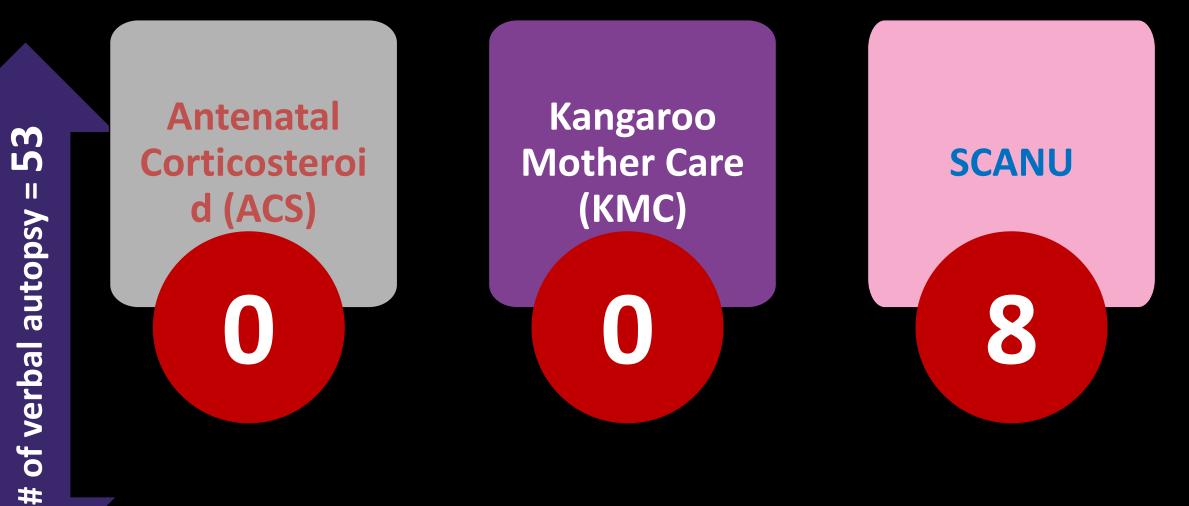


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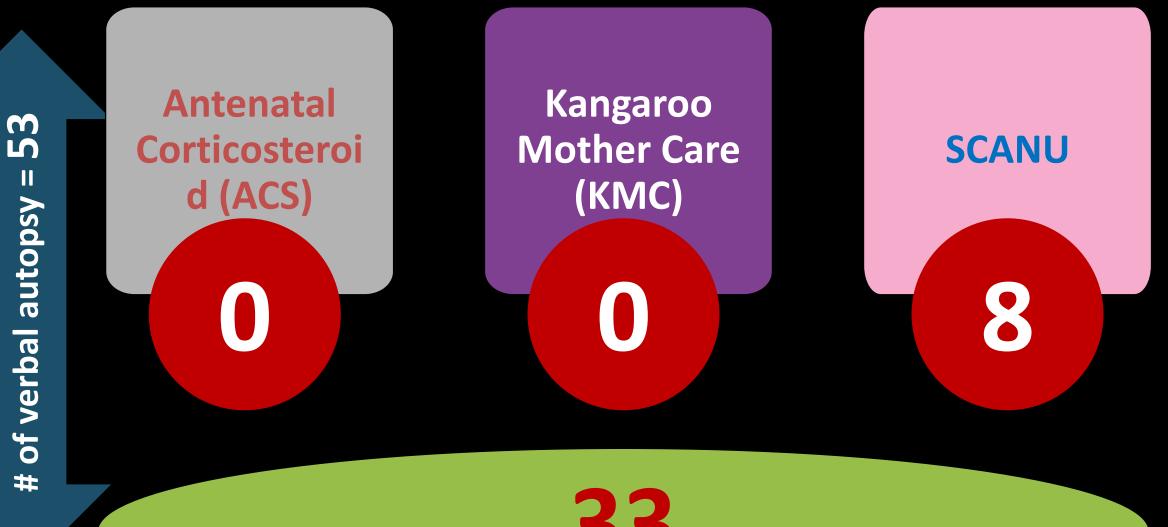
For Newborn Care Services At Primary and Secondary Level Hospitals



Major interventions for prematurity/LBW: coverage among deaths

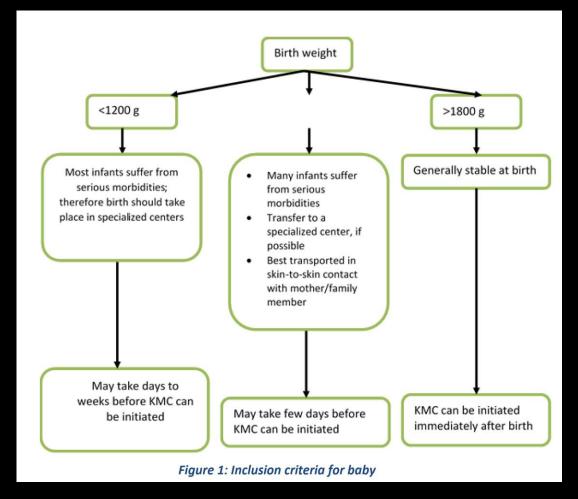


Major interventions for prematurity/LBW: coverage among deaths



Major interventions for prematurity/LBW: coverage among deaths

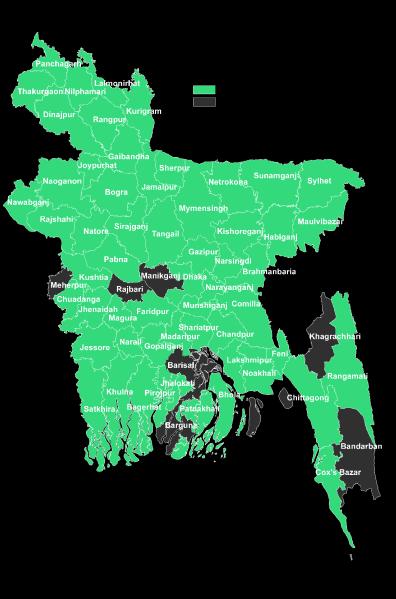




What is the current status 17,100 services in Bangladesh?

KMC in Bangladesh: availability of KMC corners

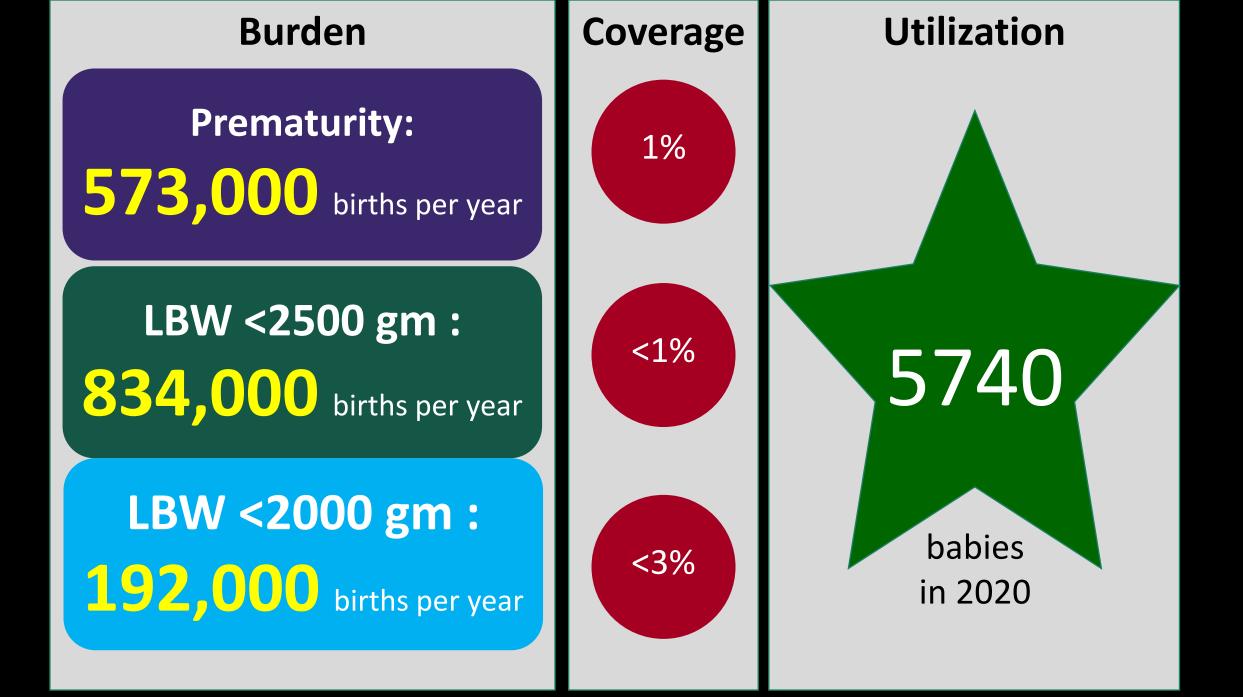
	DGHS	DGFP	Private	Total
Govt. Medical College Hospital	13			13
District Hospital	47			47
Upazila Health Complex	128			128
Specialized hospitals/national institute		4	1	5
Total	188	4	1	193



KMC in Bangladesh: availability of KMC corners and utilization of services

	DGHS	DGFP	Private	Total	
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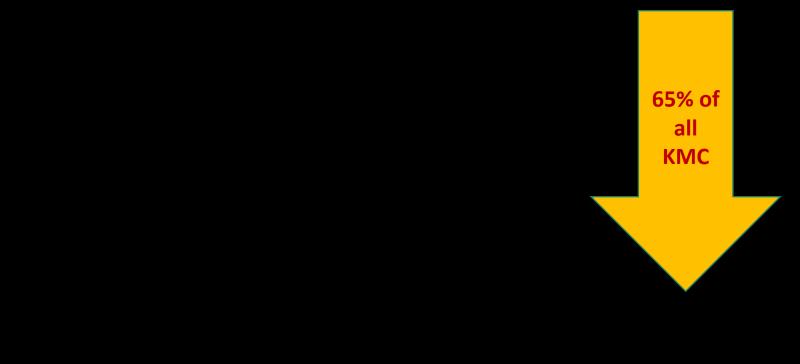




What are the bottlenecks to receiving KMC?

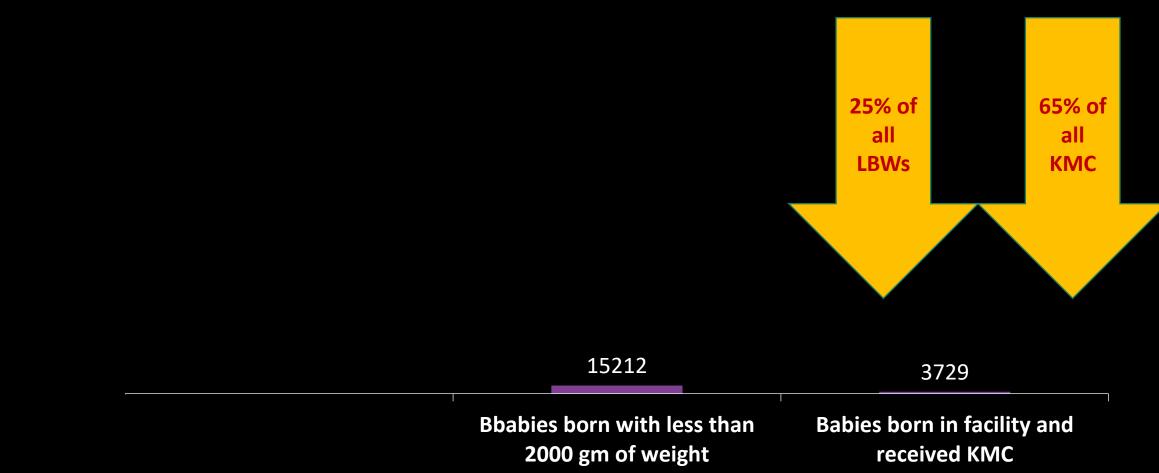
17,100

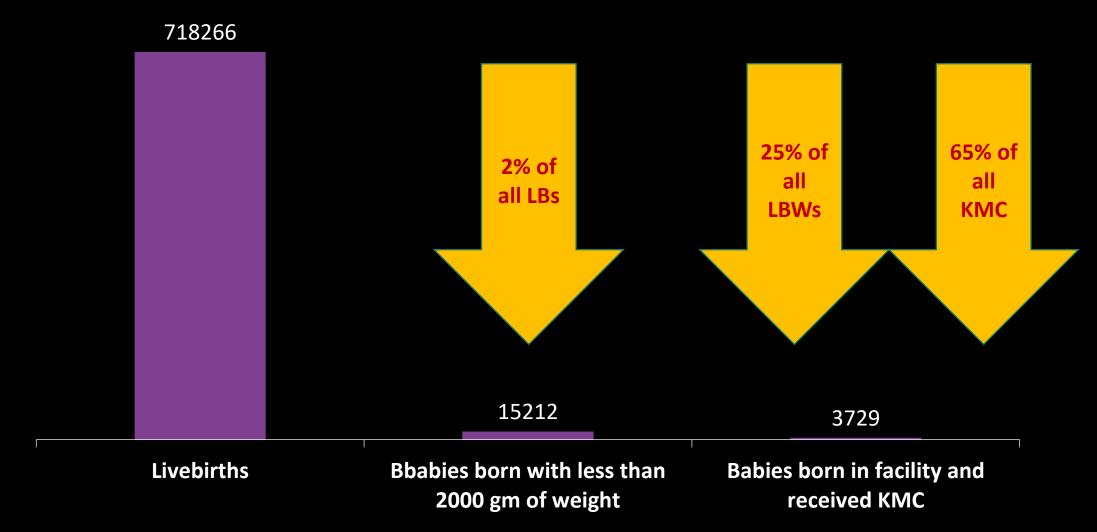
deaths per year



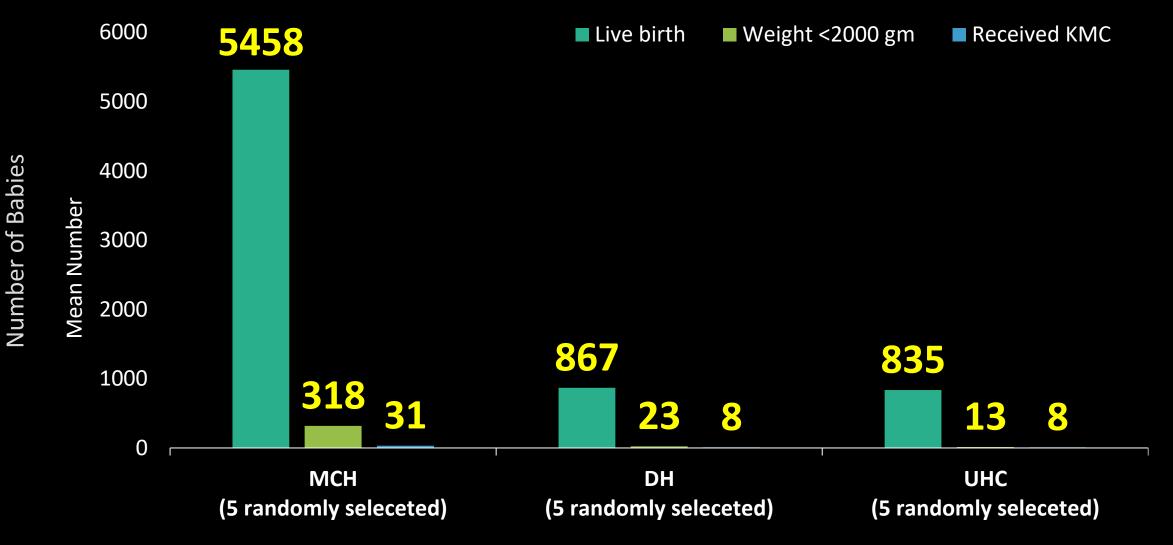
3729

Babies born in facility and received KMC



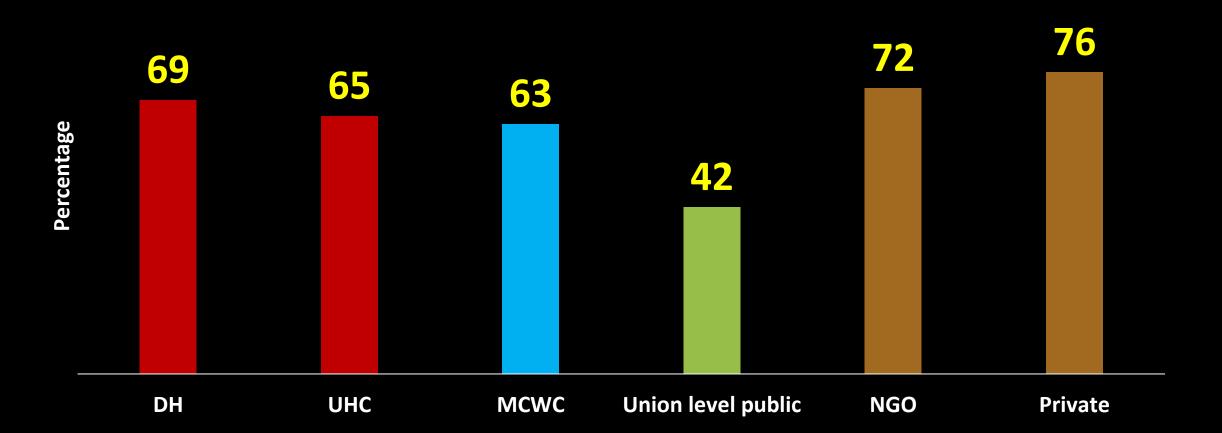


Number of Babies

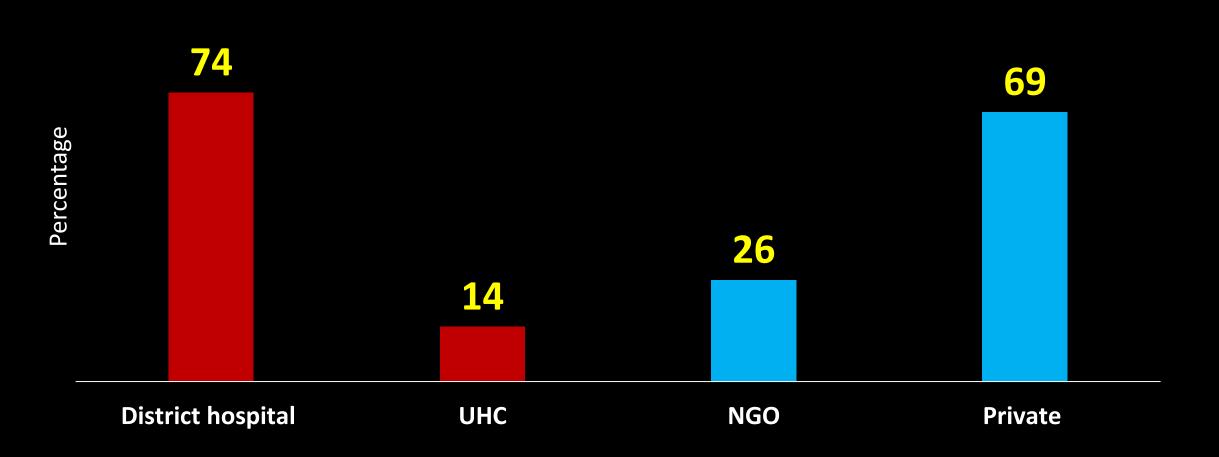


DHIS2

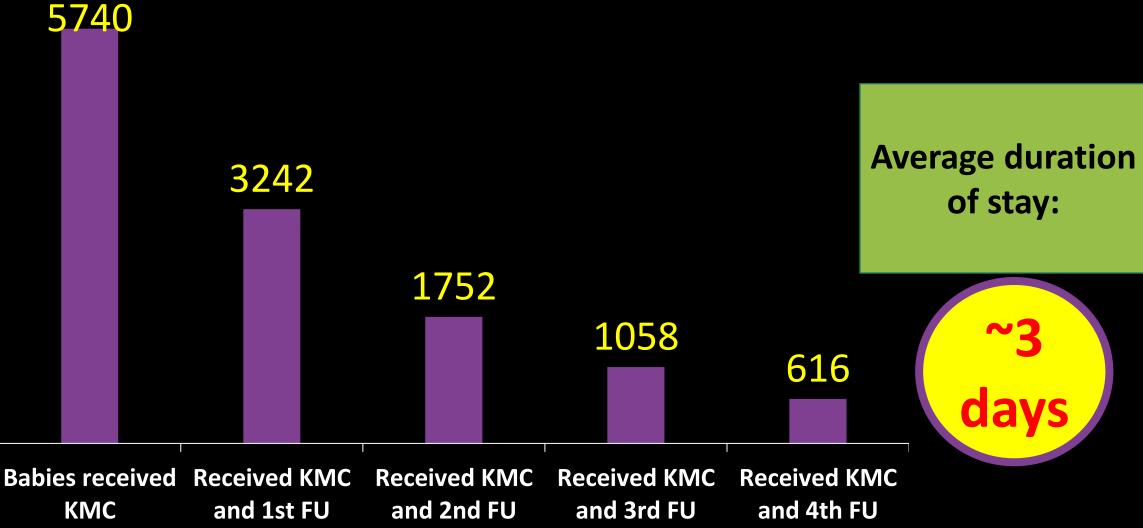
Birth Weighing Practice: availability of infant weighing scale by facility types



Gestational age assessment practice: availability of USG by facility types



KMC in Bangladesh: quality of care



What do we need to do?

17,100

deaths per year

Major interventions for prematurity/LBW

Antenatal Corticosteroid (ACS)

Kangaroo Mother Care (KMC)

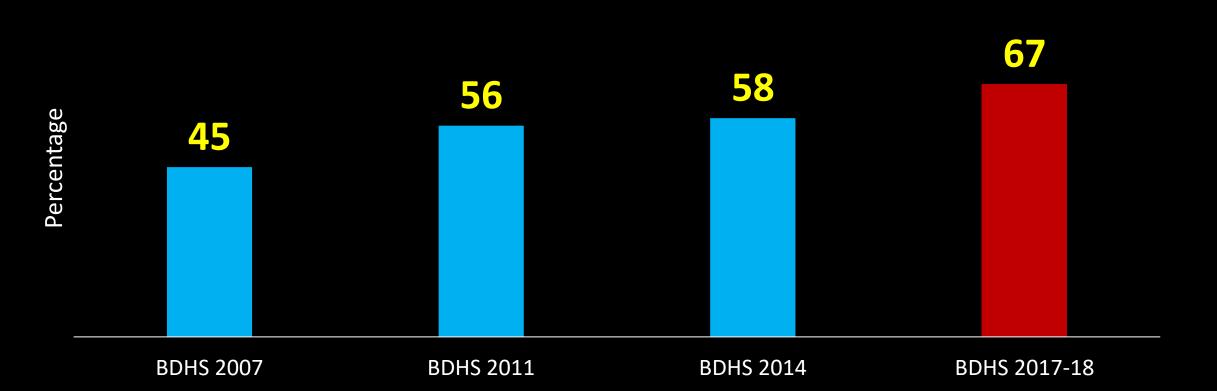
GA assessment

- BW measurement
- KMC awareness
- Number of KMC facility
- Quality of Care for KMC

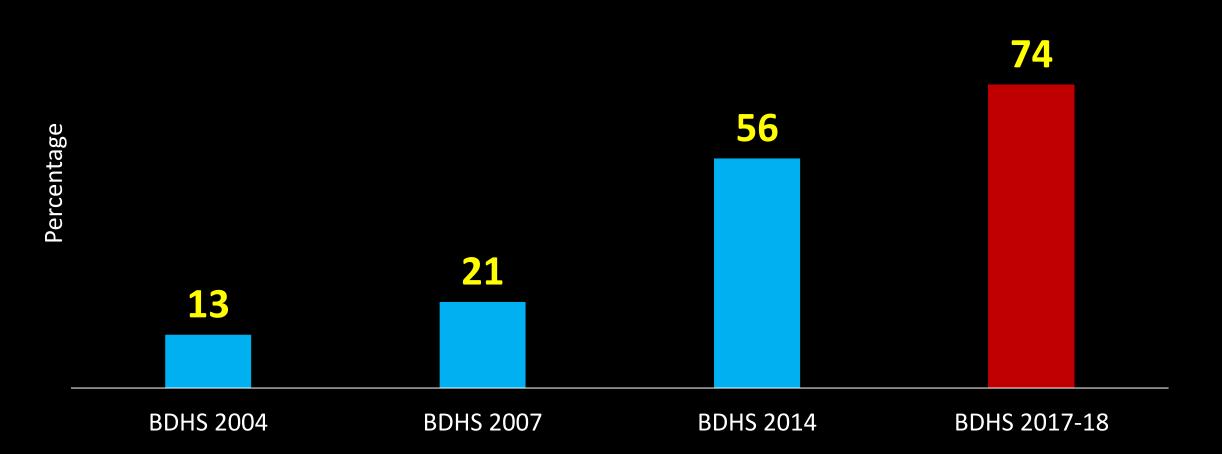
Coordination and continuation of care

SCANU

Birth Weighing Practice: coverage among all LB



Gestational age assessment practice: USG coverage among all LB



Innovations that can be tried

KMC Thermal Jacket



ThermoSpot



Colour	Temperature range	Manufacturer instructions
\odot	> 36.5 °C	Body temperature in 'safe zone'
\bigcirc	35.5-36.4 °C	Seek advice if the 'smiling face' begins to fade or reverts to black
0	< 35.5 °C	Seek advice if the 'smiling face' begins to fade or reverts to black

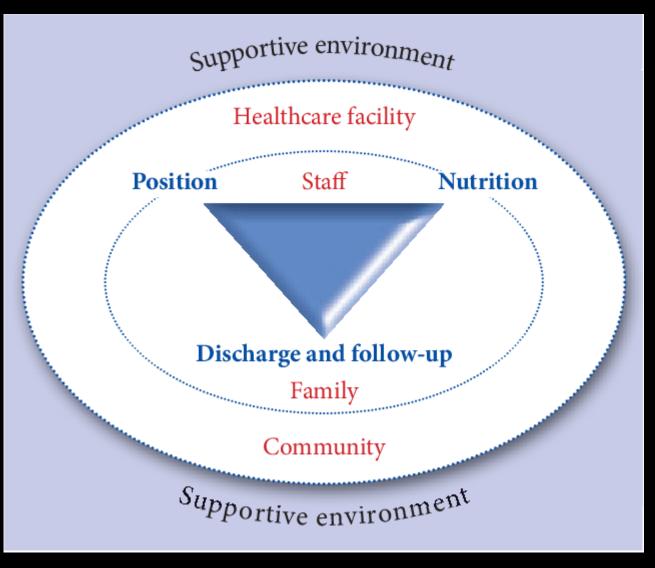


KMC Easy & Low-Cost Intervention



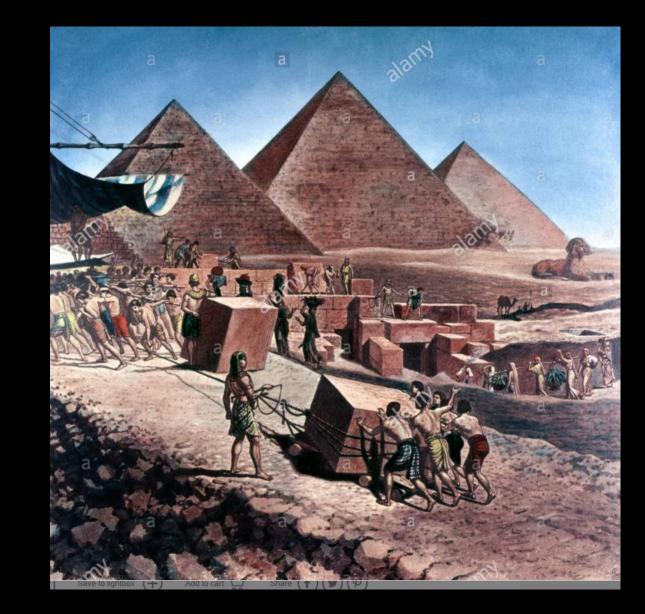
key features of KMC

- Early, continuous (>20 hours a day) and prolonged skin-to-skin contact between the mother/care givers and the newborn;
- Exclusive breastfeeding
- Early discharge
- Continuation at home
- Adequate support for mothers and family at facility and home;
- Follow-up at home.





KMC NOT Easy & NOT LOW-Cost Intervention



It is time to change our mindset

