

## STORYTELLING WITH DATA

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



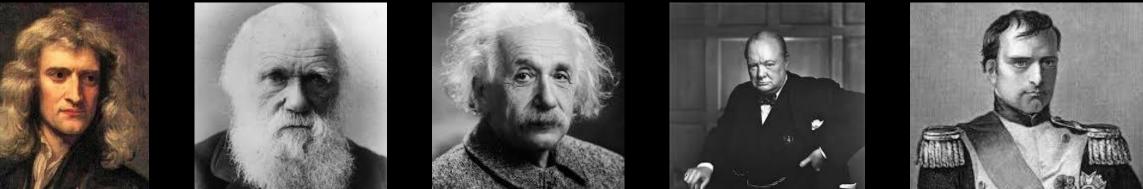




## Prematurity in Bangladesh where we are and what we need to do

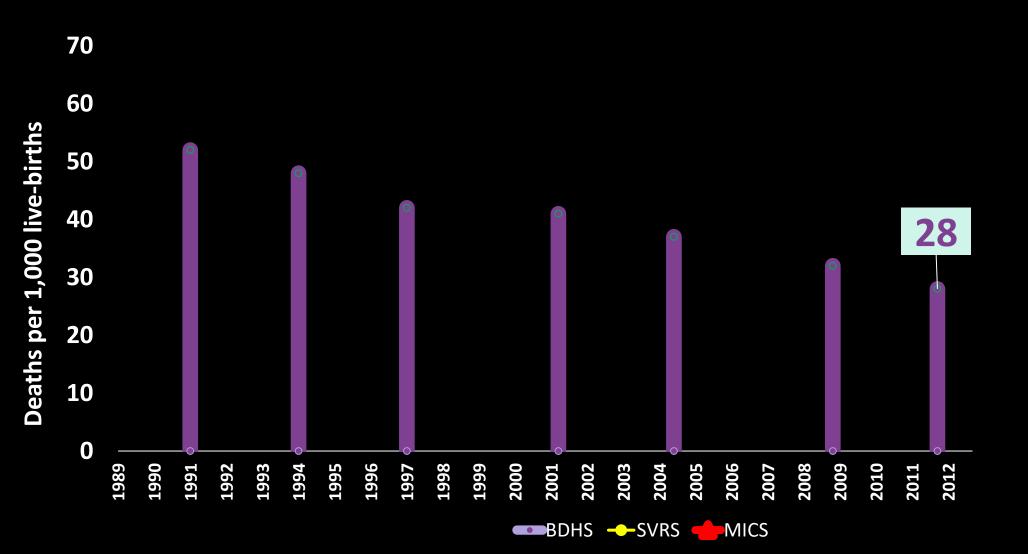
## Famous people who were born too soon...



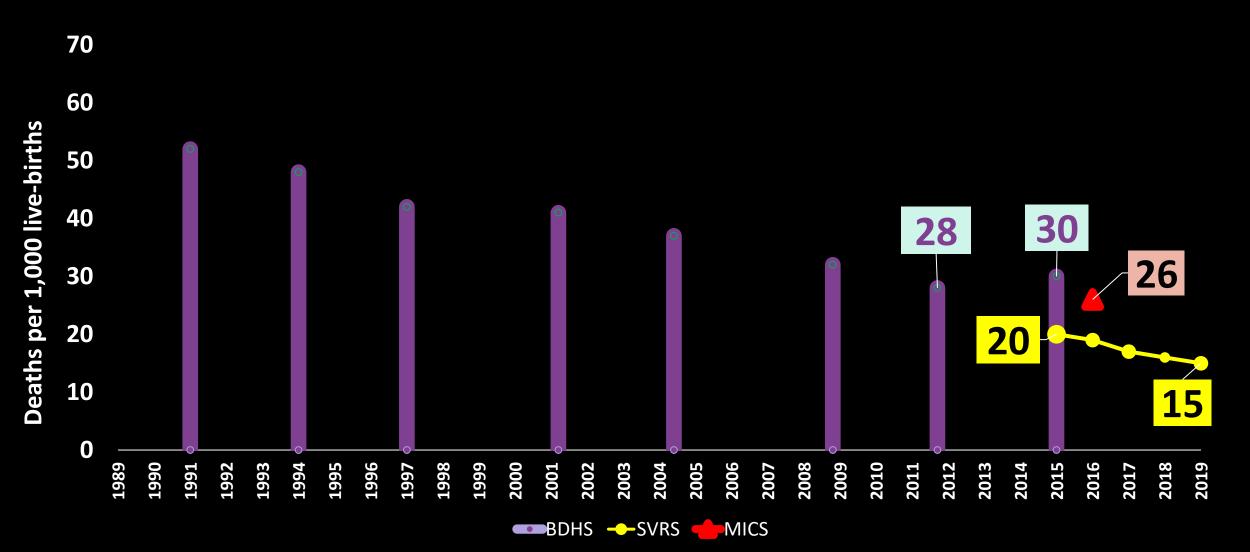


## What is the neonatal mortality rate in Bangladesh?

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

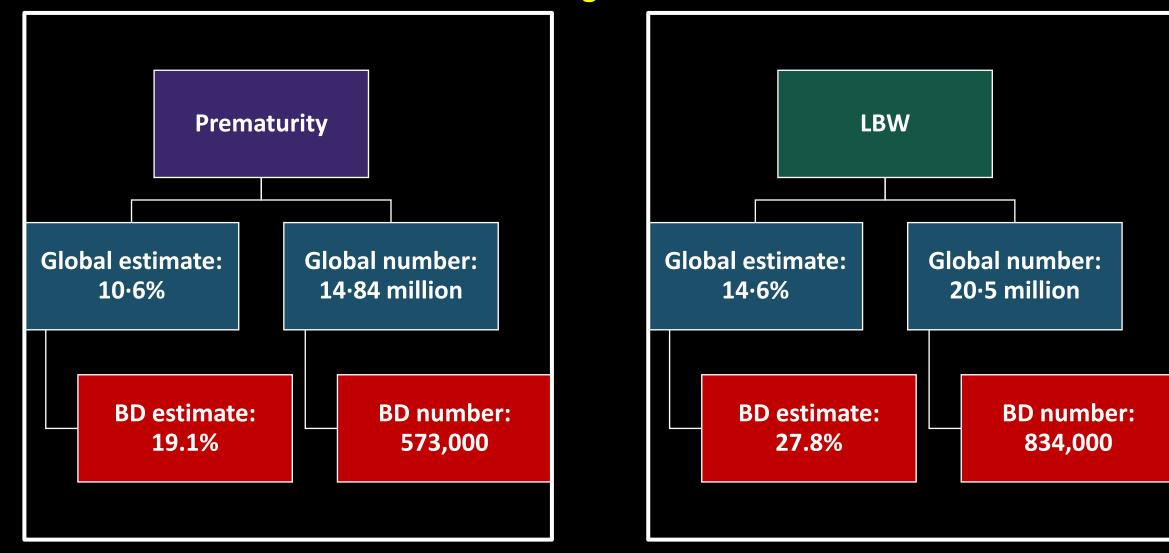
## What is Prematurity and LBW?

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?

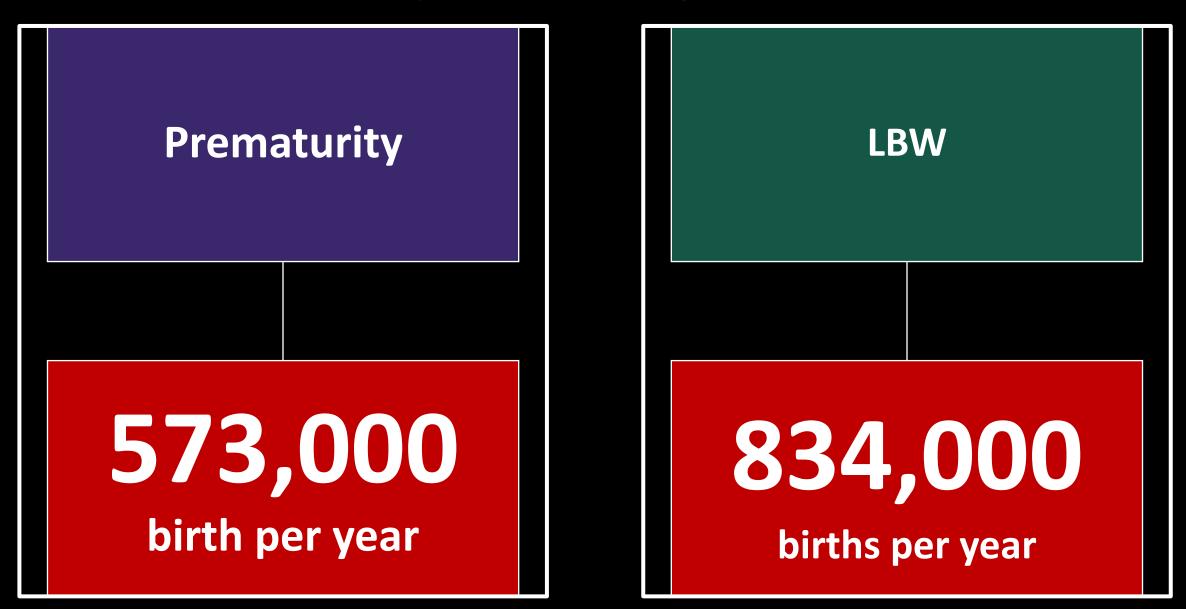
#### Prematurity and LBW: Global and Bangladesh estimates



Estimate directly extracted from:

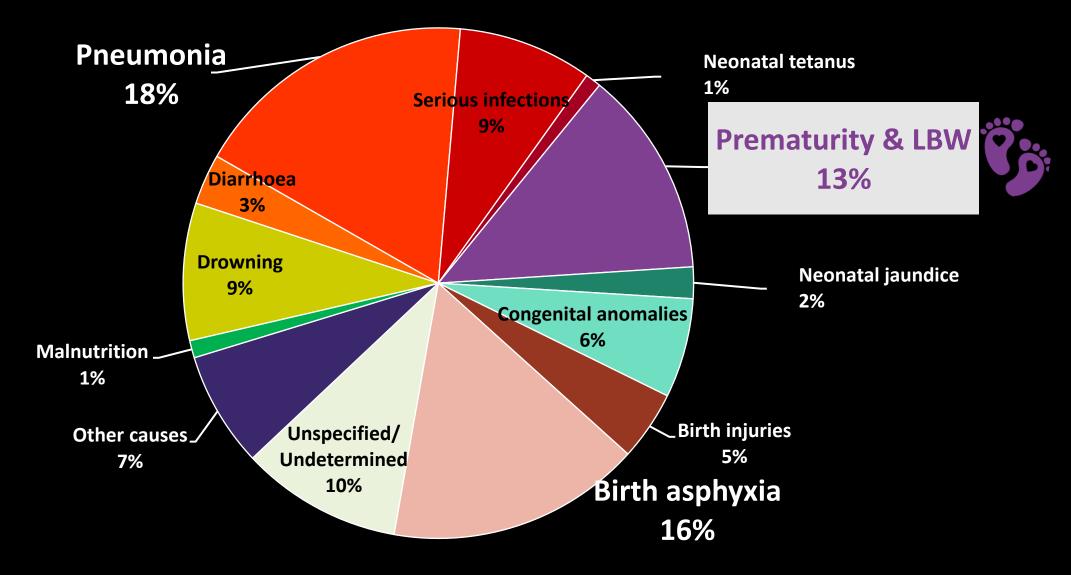
- The Lancet Global Health. 2019;7(1):e37-e46.
- The Lancet Global Health. 2019;7(7):e849-e60

### Prematurity and LBW: Bangladesh Estimate

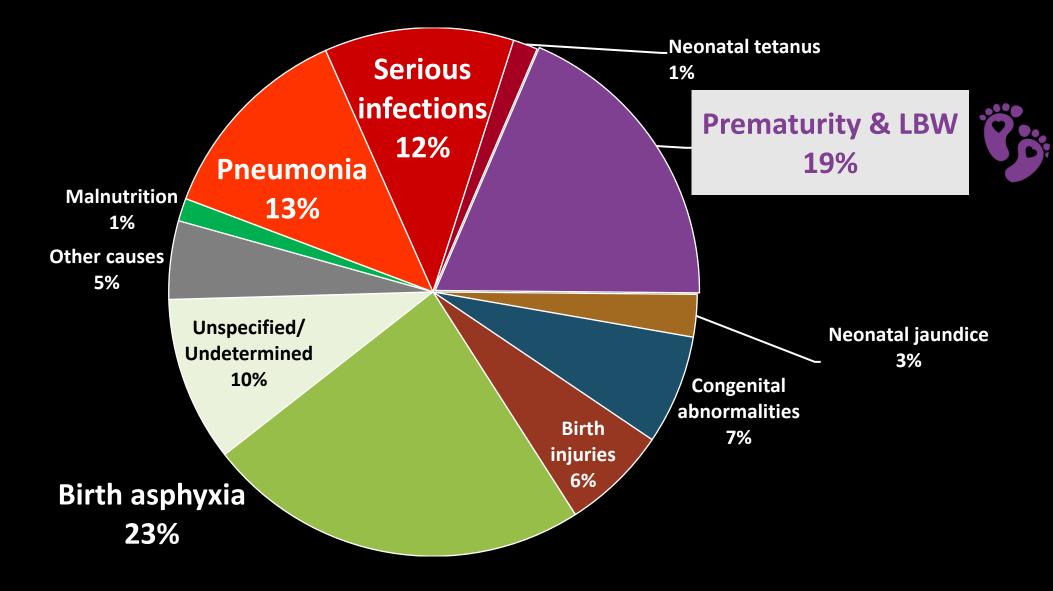


# What is the contribution of prematurity & LBW in neonatal deaths in Bangladesh?

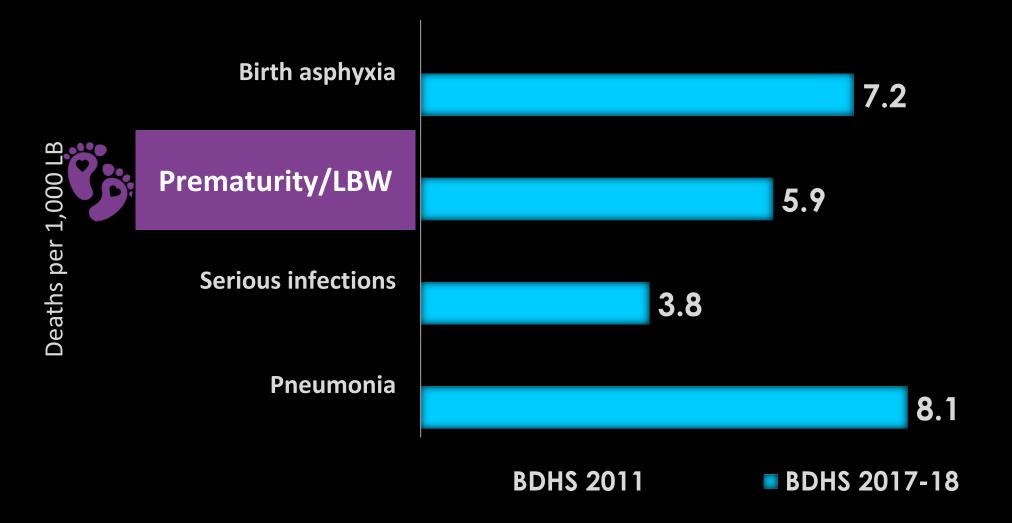
#### U-5 Mortality in Bangladesh: causes of deaths by percent distribution



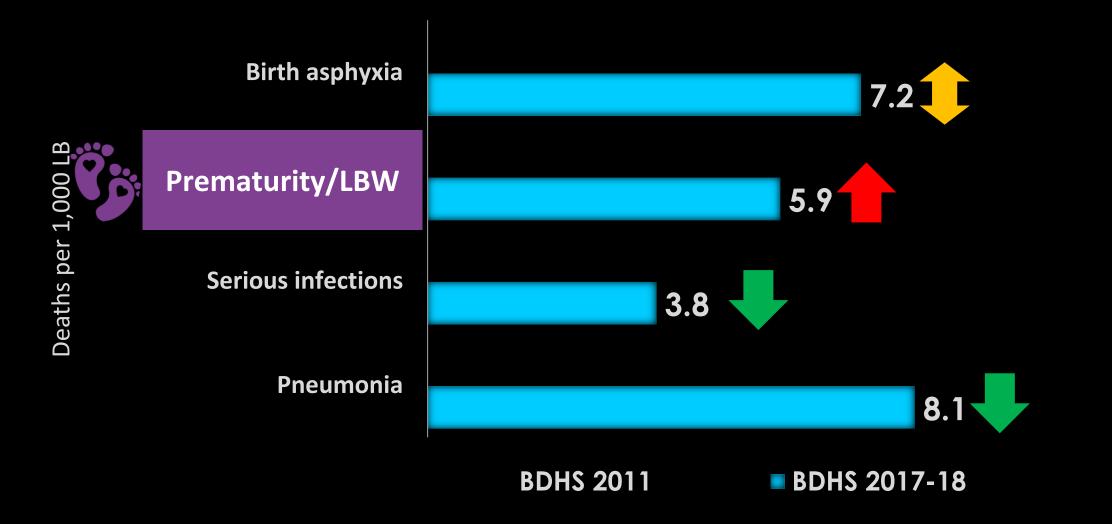
#### Newborn Mortality in Bangladesh: causes of deaths by percent distribution



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

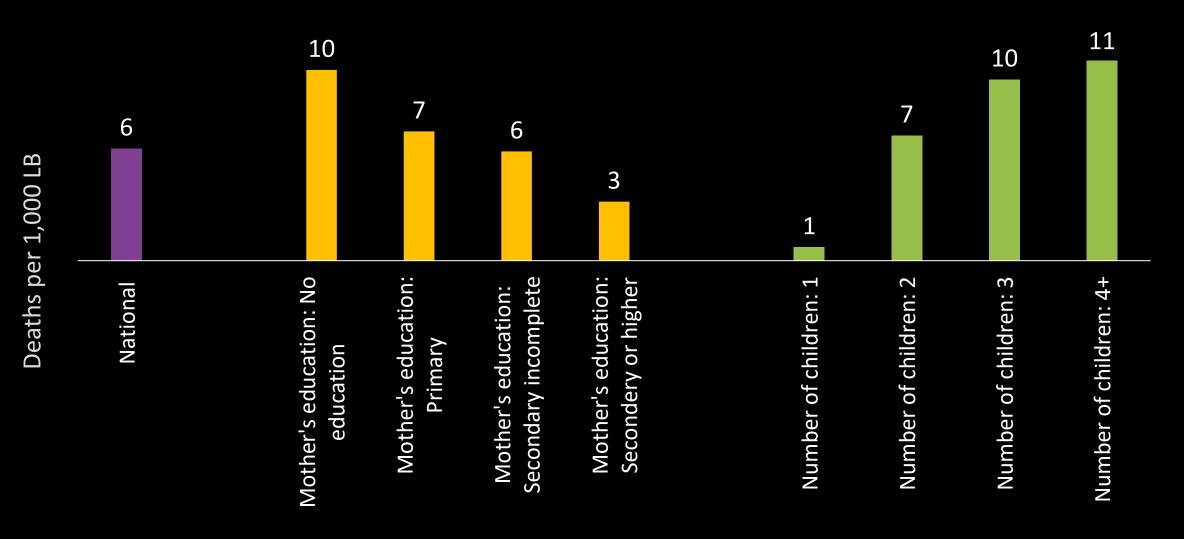
## LBW <2000 gm : 192,000 births per year

## **17,100** deaths per year

## What are the determinants?

## 17,100

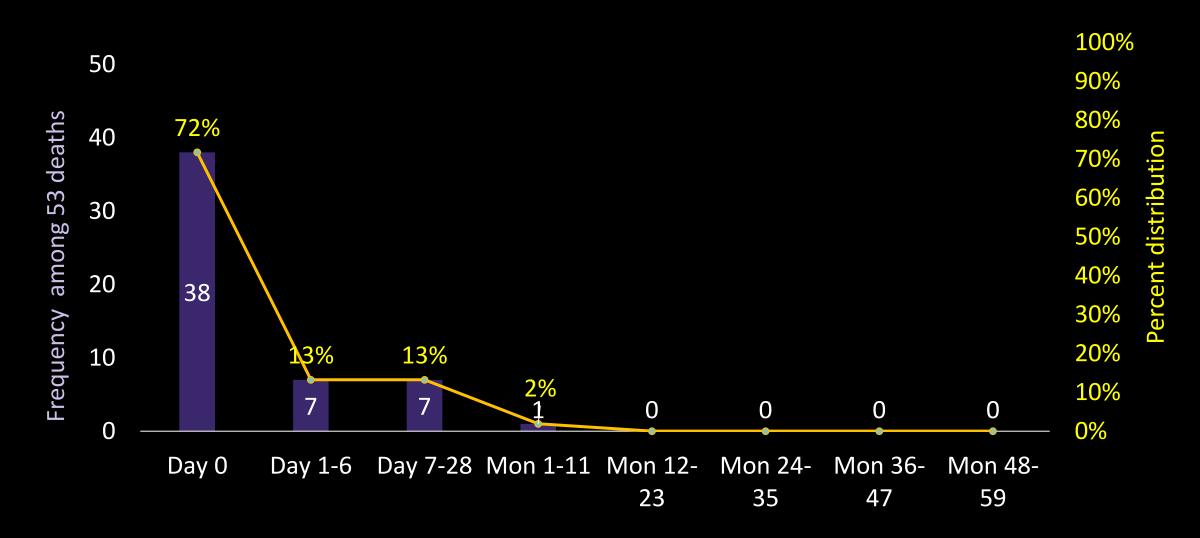
### Prematurity/LBW: determinants of mortality



## When do they die?

## 17,100

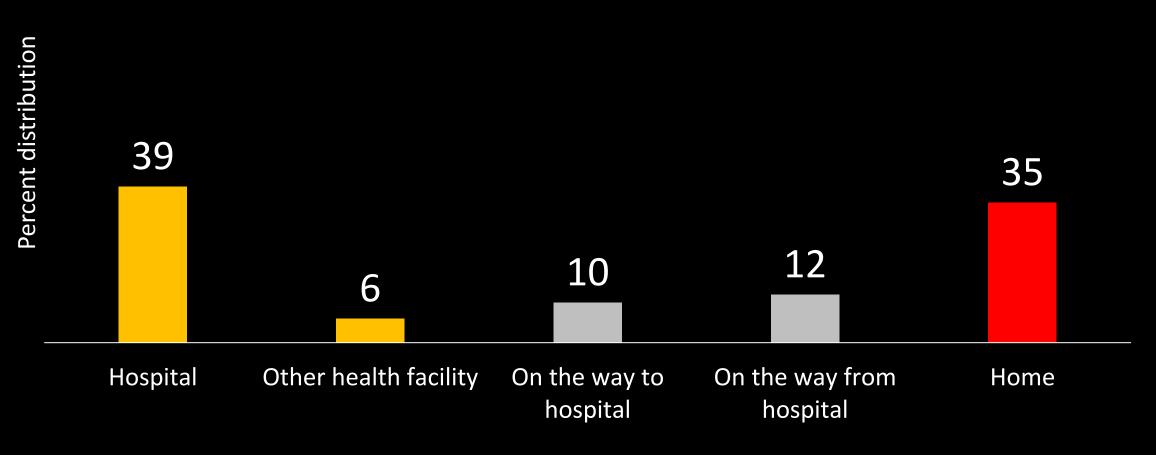
#### Prematurity/LBW Mortality in Bangladesh: timing of deaths



## Where do they die?

## 17,100

#### Prematurity/LBW Mortality in Bangladesh: places of deaths

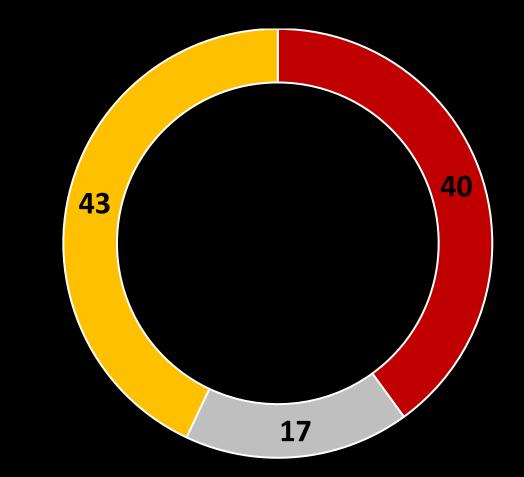


BDHS 2017-18

## 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)

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#### 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)



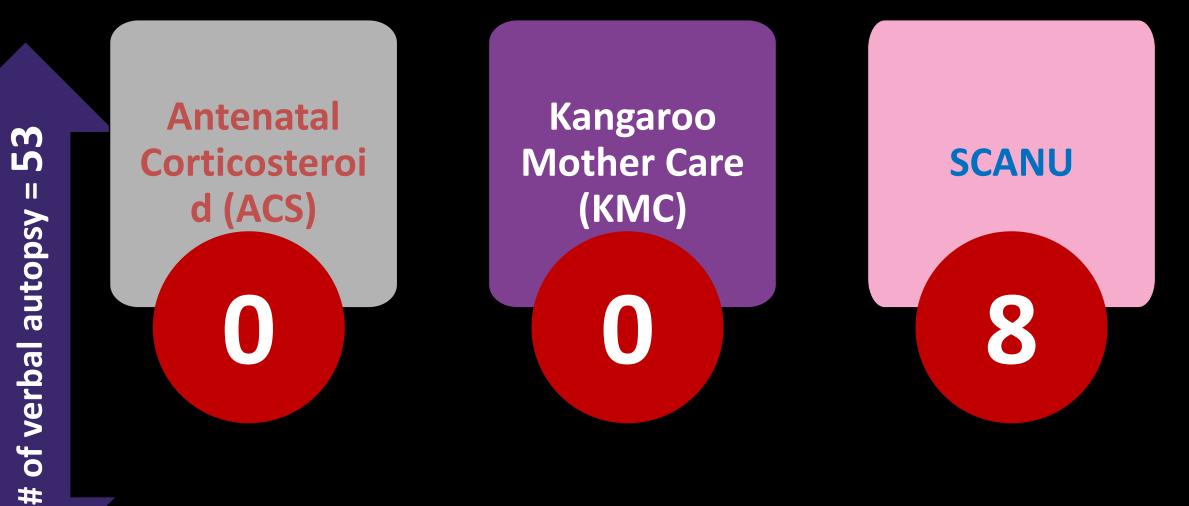


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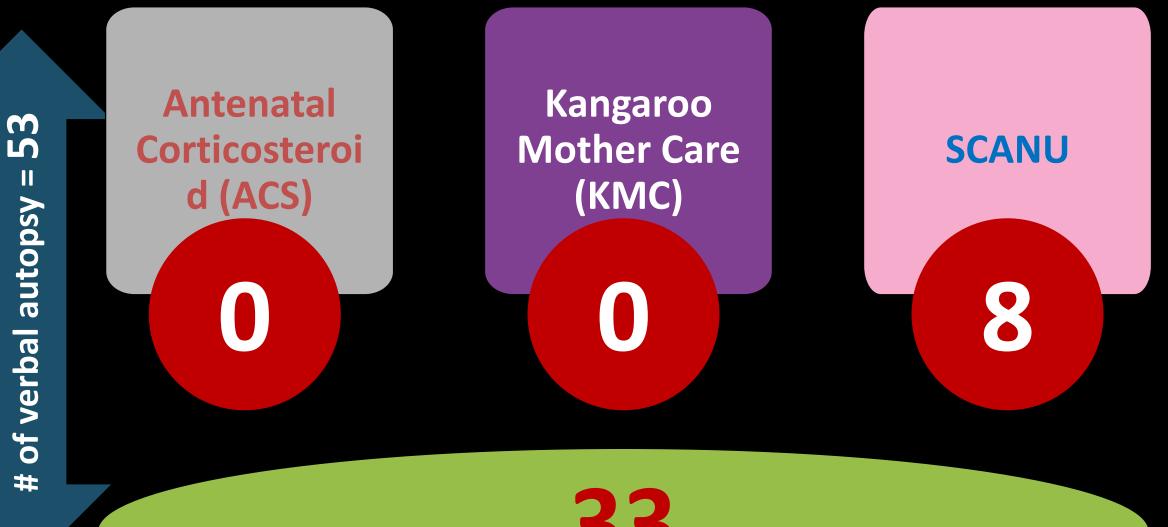
For Newborn Care Services At Primary and Secondary Level Hospitals



### Major interventions for prematurity/LBW: coverage among deaths

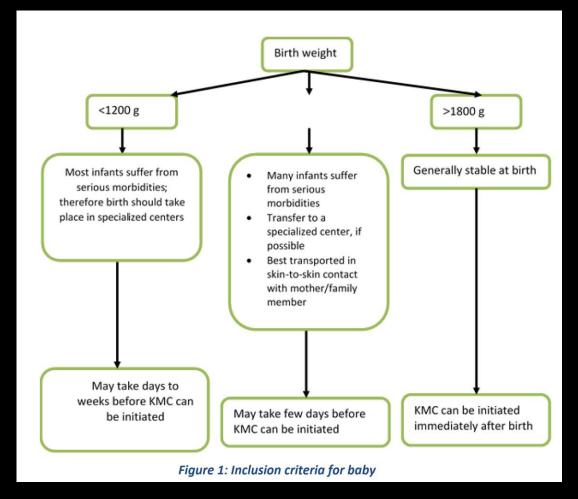


### Major interventions for prematurity/LBW: coverage among deaths



### Major interventions for prematurity/LBW: coverage among deaths

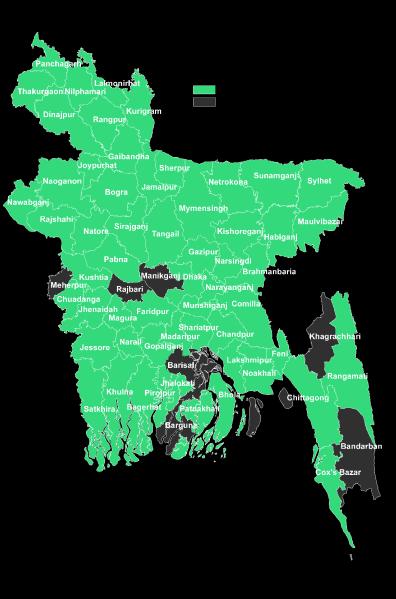




## What is the current status 17,100 services in Bangladesh?

### KMC in Bangladesh: availability of KMC corners

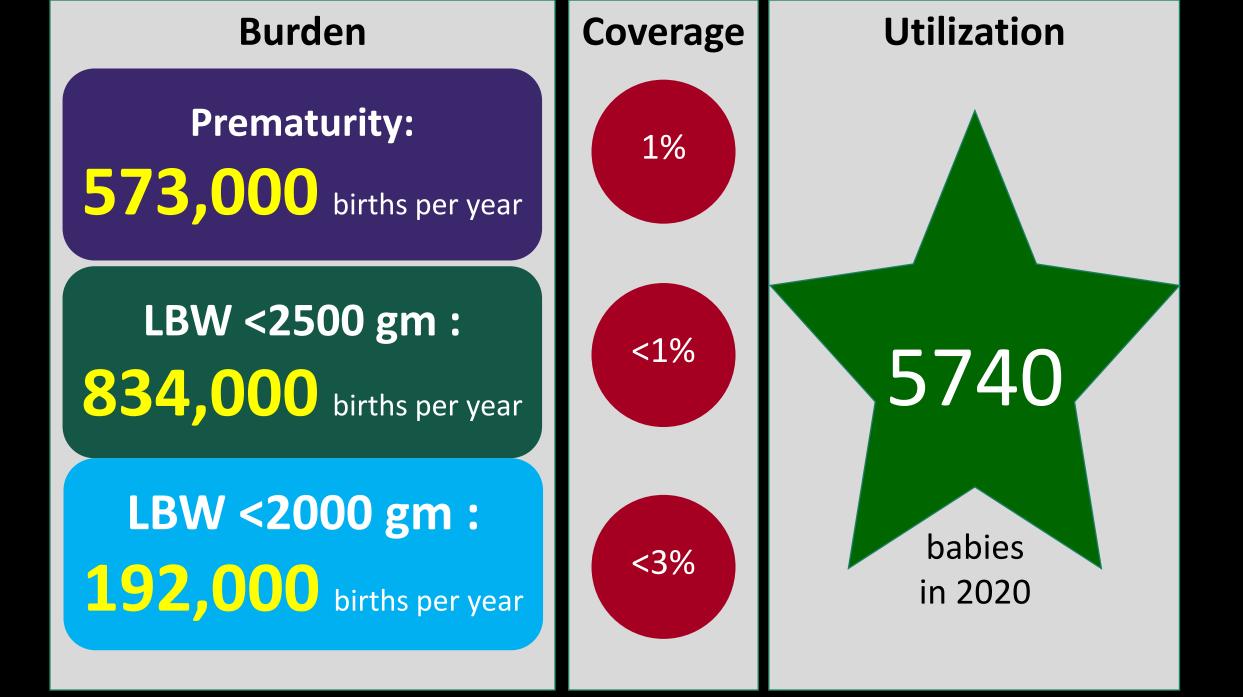
	DGHS	DGFP	Private	Total
Govt. Medical College Hospital	13			13
District Hospital	47			47
Upazila Health Complex	128			128
Specialized hospitals/national institute		4	1	5
Total	188	4	1	193



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

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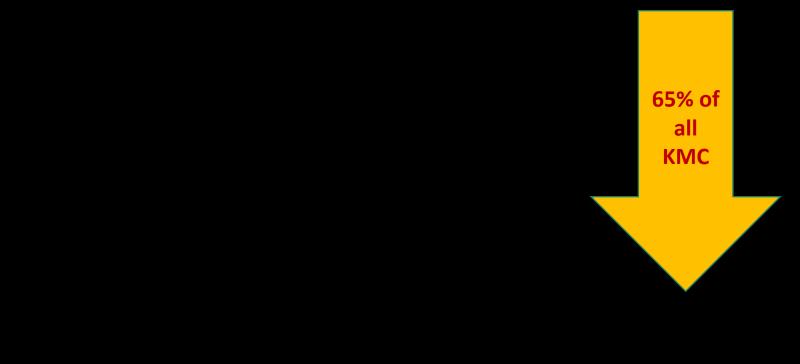




# What are the bottlenecks to receiving KMC?

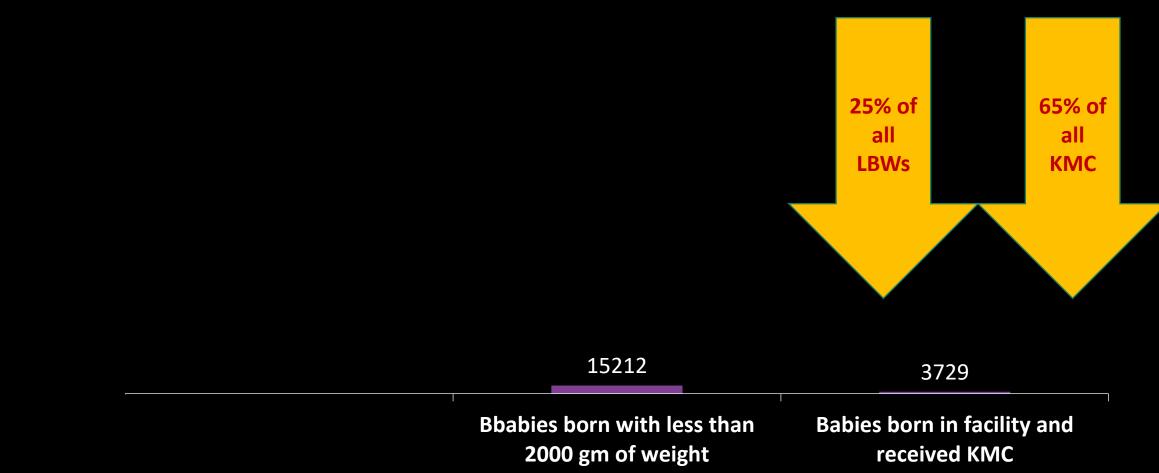
17,100

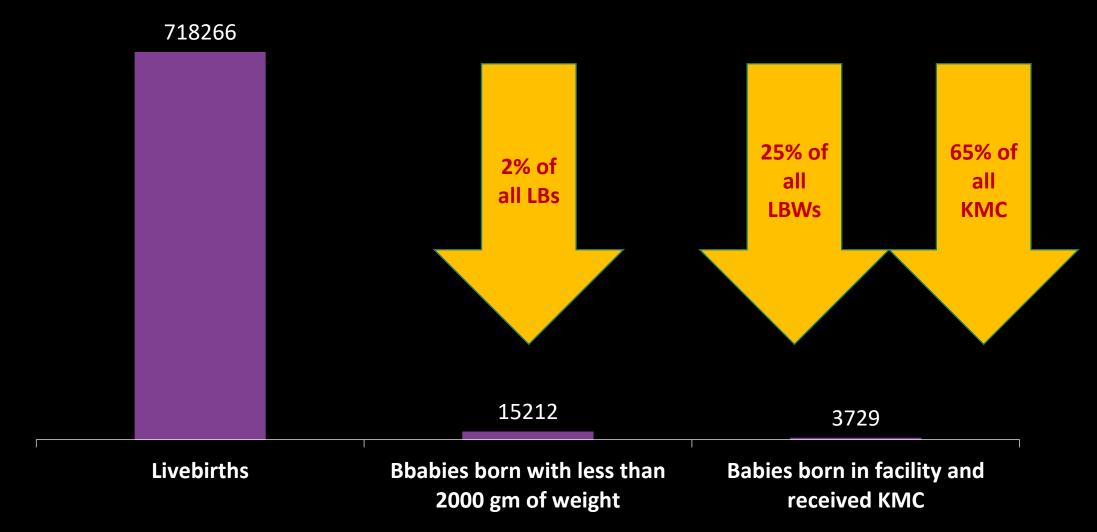
deaths per year



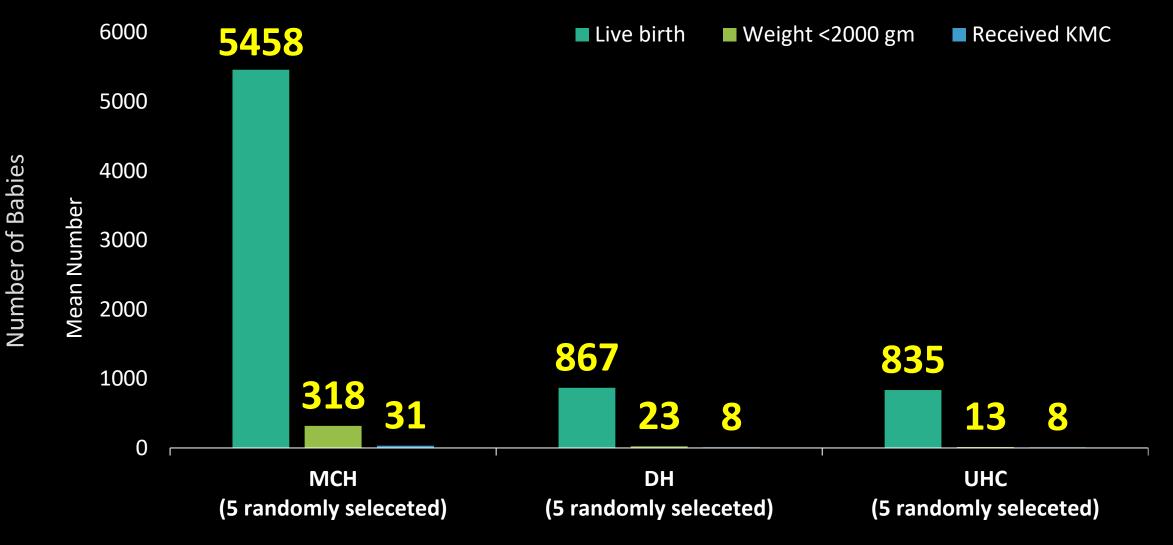
3729

Babies born in facility and received KMC



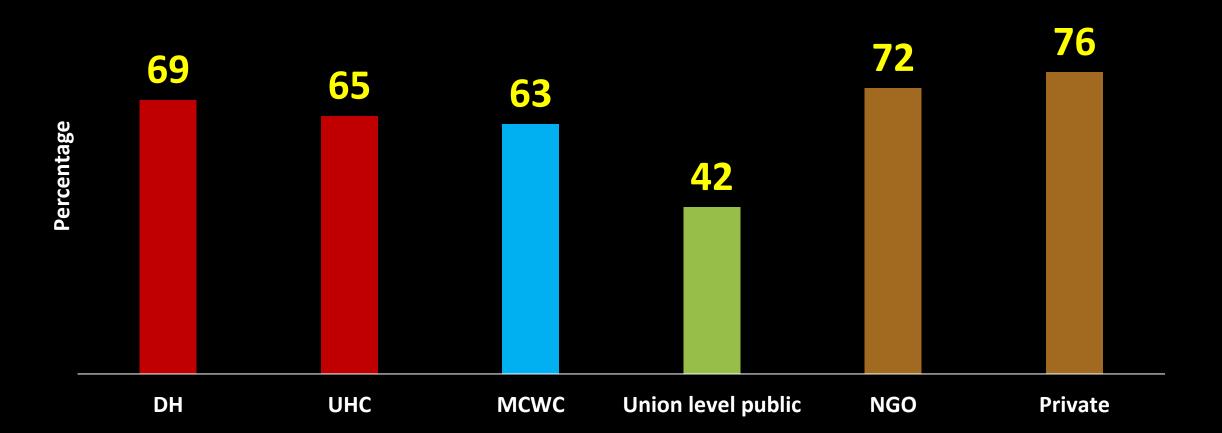


Number of Babies

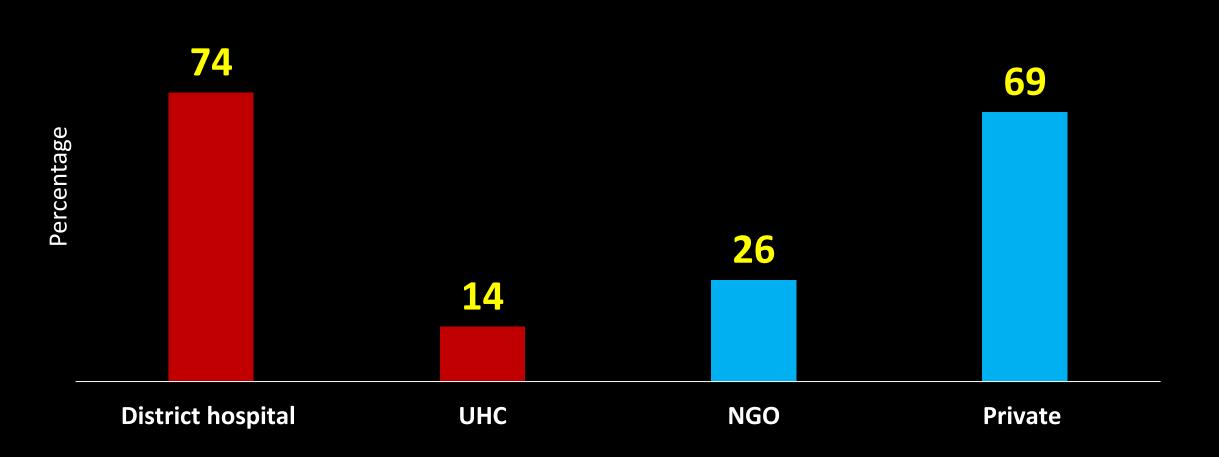


DHIS2

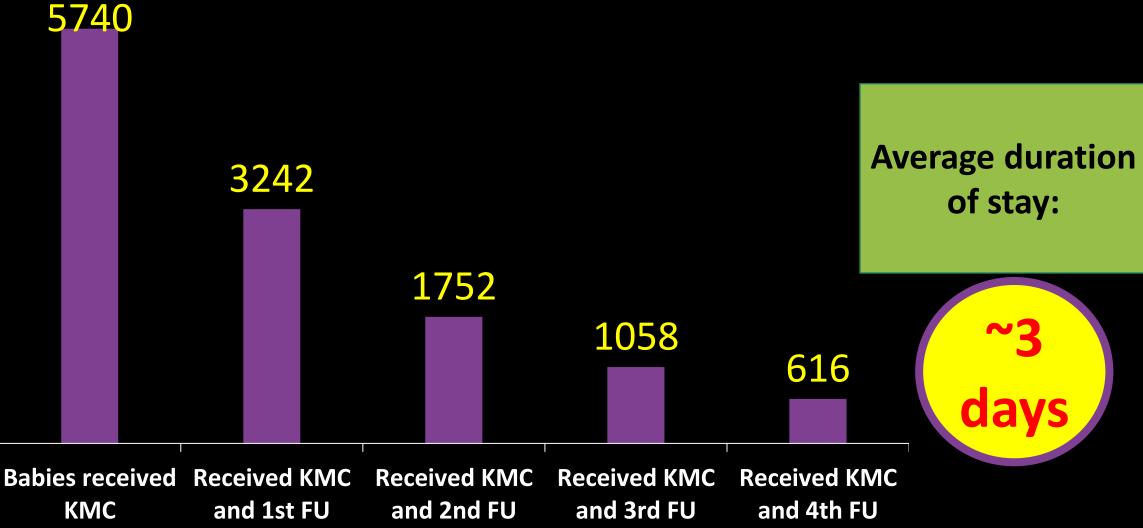
#### Birth Weighing Practice: availability of infant weighing scale by facility types



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)

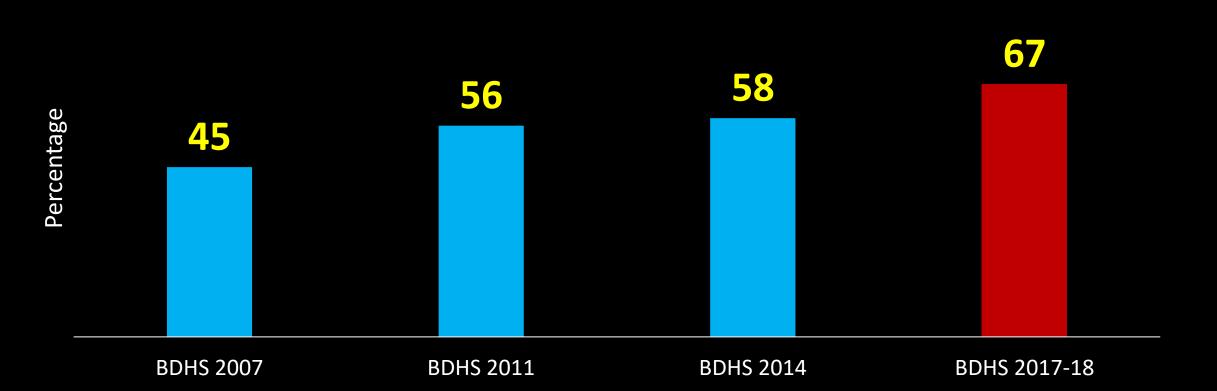
#### GA assessment

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

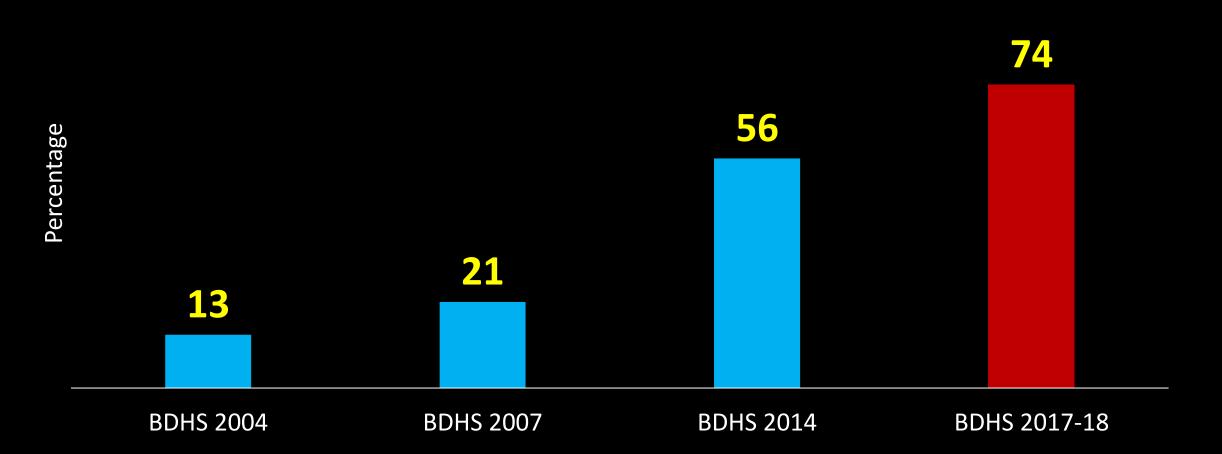
#### Coordination and continuation of care

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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

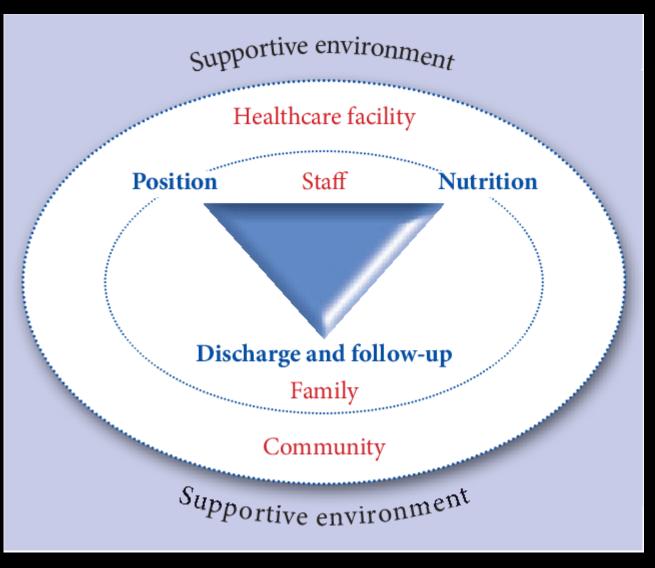


KMC Easy & Low-Cost Intervention



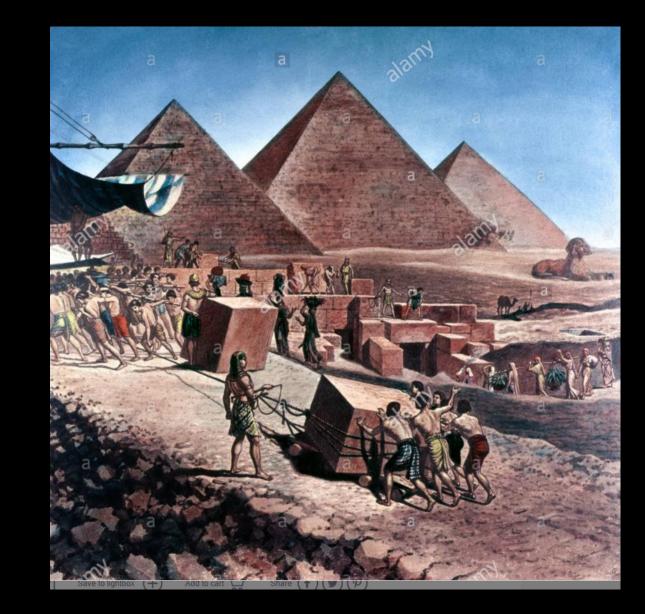
#### key features of KMC

- 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

