# **RMNCHN** in Bihar

What did we learn? Summary of approaches and lessons across ten years

### OUTLINE

Focus of the intervention

**Domain Specific lessons** 

Choices in the implementation strategy

**Directional Scenarios** 



### **Partners**

- DFID
- NIPI
- UNICEF
- UNFPA
- Saving New Born Lives
- Emory University
- AMDD
- ABT Associates
- BBC Media Action
- Engender Health
- Janani
- Pronto
- IHI





### **DOMAIN FOCUS**

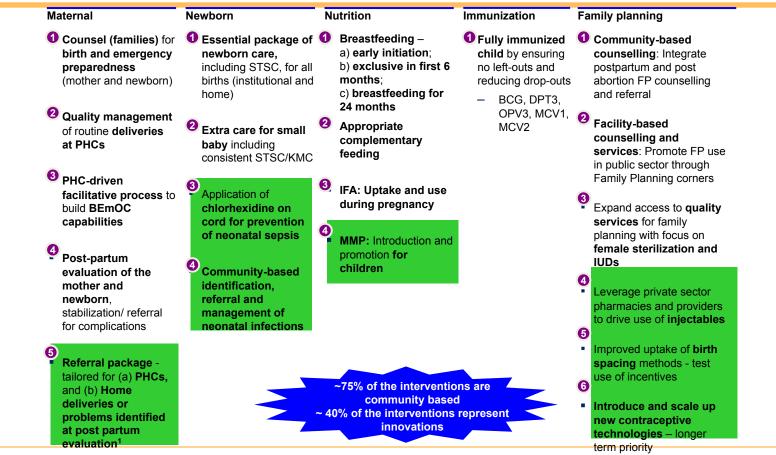
- Kicked off the intervention with focus on Neo natal Mortality Rate (NMR), Maternal Mortality Rate (MMR), Stunting, Contraceptive use
- Anaemia during pregnancy and PNMR were later added to the intervention

### **STRATEGIC FOCUS**

- Interventions with known efficacy were utilized
- Attempted to find and use strategies to ensure implementation with reasonable fidelity and within contextual realities
- Deep consultations with PSTs and technical partner to design and finalize "technical and strategic package"
- Implementation strategies were chosen to get to the impact using a combination of published and tacit know-how of effective operational approaches



## **Technical Intervention package – core and innovations**

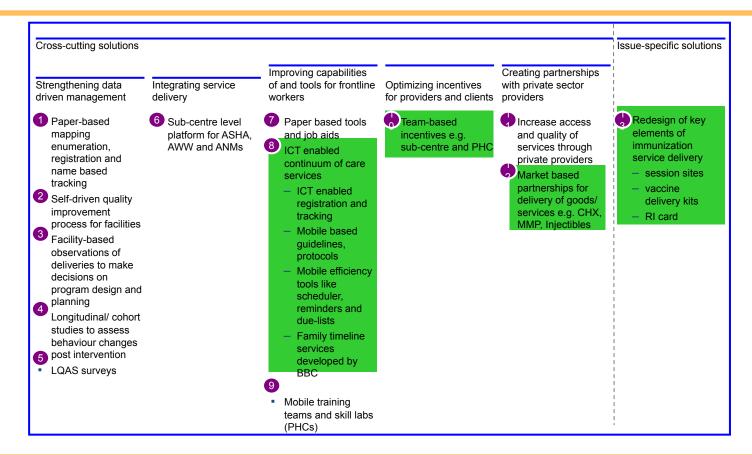


innovations

1: Referral package is to be used by the ANMs and doctors at PHC to refer up to district hospitals; and for home deliveries to refer up to PHCs



# **Core solutions and innovations**

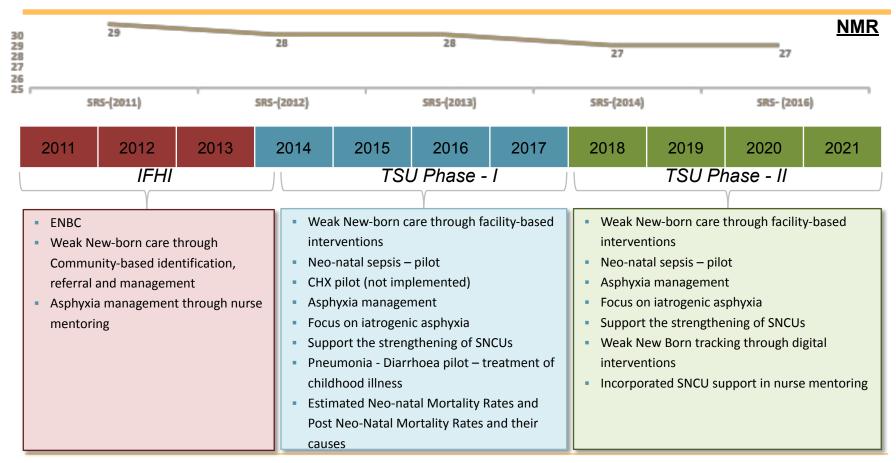




# **DOMAIN SPECIFIC LESSONS**



### **Newborn and Child Health**





### **DOMAIN SPECIFIC LESSONS**

- Bihar stands lowest among EAG states, close to national average
- Neonatal sepsis (< 6%), diarrhoea (<5%), pneumonia (<5%) are no longer dominant cause of death in rural Bihar
- Morbidity remains significant(55% children aged <5y had one episode of illness in the previous 3m\*), care-seeking is very high (93% sick children underwent treatment\*), effective treatments are available from private sector.
- Asphyxia (44%) and complications of preterm birth (30%) persists as main cause of death among neonatal whereas SIDS and complicated illnesses for post neonatal
- Strong emphasis in GoI policies, but need much sharpening to produce impact



\* Vulnerability Study CARE-BTSP-CML 2014-20

Neonatal

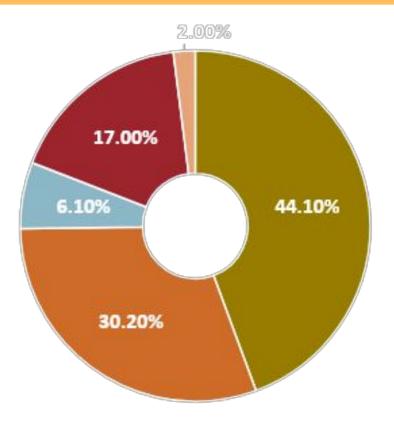
&

Child

Mortality

#### <u>Details</u>

### **CAUSES OF NEONATAL MORTALITY (N=340)**



Asphyxia
 Prematurity
 Pneumonia/Sepsis
 Others
 Indeterminate



\* Neonatal Mortality Study CARE-BTSP-CML 2016

# Supportive Care Saves Newborn Lives....

Saving lives of very low birth weigt babies by strengthening newborn care services: *Learnings from Bihar for potential scale-up* 



### India

- Contributes >1/4<sup>th</sup> of global neonatal deaths
- ~0.75 million neonatal deaths annually in India, the highest in the world.

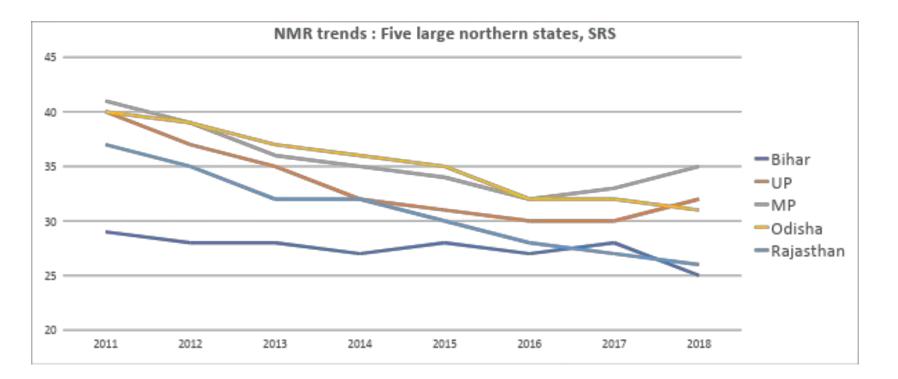
# States

Contribution of 4 states-Uttar Pradesh, Madhya Pradesh, Bihar and Rajasthan

- ~55% of total neonatal deaths in India
- ~15% of annual global neonatal deaths.
- Despite progress, pace of decline in Bihar was apparently quite slow in the decade between the last two NFHS rounds.
- However, according to SRS data, Bihar has had the lowest NMR among the large EAG states since 2011.



# These are the SRS trends in NMR over time, showing Bihar NMR has been low since a long time, and signs of a late dip at the last measurement.





**NITI** presentation

# Rationale and Evidence: Focus on preterm and very low birth weight babies

- In India, and in Bihar, around a third of all neonatal deaths are from complications of prematurity. In addition, low birth weight and premature birth underlie deaths due to asphyxia, sepsis and other causes as well.
- In the SEARCH studies
  - 67.5% of all neonatal deaths at the baseline came from the babies with birthweight < 2000 gm.</li>
  - The interventions reduced NMR by 70%. The total reduction in neonatal mortality during intervention (1996 to 2003) ascribed to sepsis management, was 36%; reduction ascribed to supportive care of low birth weight (LBW) neonates, 34%.
  - In the subgroup preterm-LBW, the mortality impact was the greatest (82%). For this group, supportive care was deemed responsible for 75% of the mortality impact, not antibiotics.



# **Current Newborn Care Programmes**

### Main programs that emphasize preterm-LBW interventions:

- Facility Based Newborn Care (FBNC)
- Home-Based Newborn Care (HBNC)
- ASHA (Module 7)

# Known Gaps:

- Last mile implementation coverage and quality
- Oversight and support from supervisors
- Outcomes based monitoring

Challenge: how to achieve sufficient intensity to get impact at scale under Bihar conditions?



# **Current Protocols**

- ASHA module 7 identifies two kinds of 'high-risk' neonates:
  - 1. Preterm/LBW (< 2000 g, < 37 weeks, not feeding from Day 1)
  - 2. PSBI/Neonatal sepsis (lost interest in feeding, reduced activity / limp, cold to touch)
- Both are generally referred to as 'high-risk', but the two types require completely different approaches to prevent death:
  - 1. **Preterm/vLBW (but not sick):** Supportive care for at least the first week after birth (sepsis prevention, warmth, exclusive breastfeeding)
  - 2. Sick (PSBI) neonates (whether or not preterm/vLBW): Clinical management, including parenteral antibiotics

These are detailed in the ASHA module as well as HBNC guidelines.



# **Adaptations in Bihar**

- To make it operationally simpler and clearer to differentiate, describe and initiate the right action, two discrete terms have been used:
  - 1. Preterm/vLBW:'Weak' newbornकमज़ोर शिशु2. PSBI/Sepsis:'Sick' newbornबीमार शिशु
- Given the circumstances, the same criteria for identification of preterm / vLBW as used for HBNC are applied for use by labor room ANM/GNM (< 2000 g, < 37 weeks, not feeding from Day 1) for identifying and initiating action and using adequacy of breastfeeding as an indicator for referral decisions.
- However, it is recognized that determination of gestational age is not easy to ensure in all facilities, and **birthweight using digital scales is a good proxy**.
- Immediate assessment emphasized for babies delivering in public institutions considering around 60% of all rural deliveries are in government hospitals currently.
- Strong insistence on ensuring first day home visits in all deliveries at home or in private institutions for identification of WNB.



# Weak Newborn Care Programme (WNBC): content

Launched in 2015 as a joint initiative of Government of Bihar and the TSU/CARE, WNBC program addresses mortality in the highest risk group of neonates (*birth-weight < 2000 gm, gestational age at birth < 37 completed weeks, or not feeding well from the day of birth*) termed Weak New-Born (WNB). Formal state guidelines were issued in 2016, covering babies born in public facilities as well as those born elsewhere. The main interventions for babies born in **public facilities** are:

#### 1. Identification of weak newborn babies born in public health facilities:

- Digital weighing scales for birthweight
- Digital application / printed calendar for estimation of gestational age
- Observation of breast feeding

# 2. Informing the family that the baby is weak and requires extra care:

- Initiation of breastfeeding, dry cord care and Kangaroo Mother Care (KMC) in the facility
- Pre-discharge counselling of mothers and families for:
  - KMC at home
  - delayed bathing x 1 wk
  - Frequent breastfeeding
  - Handwashing, dry cord care
  - Danger signs and referral
- Issuing a 'Passport' to the baby for extra care at home and follow-up & with counterfoil passed on to ANM for follow up.

#### 3. Tracking and supporting newborn care:

- Daily telephonic follow-up with family and ASHA during first week by PHC staff.
- Daily home visit by ASHA for first week.
- Referral of babies <1800 gm and not sucking well to SNCUs.
- Confirmation of status of baby at 1 month

The content for home or private sector delivered babies is similar, starts with first day home visit to screen and identify



# **Role of TSU/CARE**

Design, development **Capacity Building Technical Protocols** Medical Officers **Training Material** Front Line Workers **Monitoring formats** Supervisory Staff Weak Newborn Care Monitoring **Documentation of** Line-listing & lessons and follow-up refinements to strategy **Review Meetings** Annual Assessment SURVOVE



# Independent Assessments by CML Unit of TSU

#### Scope:

 'Weak' babies born in non-teaching government facilities of Bihar

#### **Objectives:**

- Assess survival of WNB at the end of the neonatal period
- Assess the coverage of services provided to WNB families during this period

#### Sampling for each round until 2019:

- 171 hospitals randomly selected (same facilities repeatedly assessed) – a third of all facilities
- All WNB listed during previous two months in the selected facility (based on birthweight and other criteria) followed up at home for in-depth interview of parents

#### Additional assessment in 2019:

- All 552 non-teaching government hospitals in the state included
- All WNB listed during previous <u>one</u> month in the selected facility (based on birthweight and other criteria) followed up at home for in dopth intensions of

	Facilities	Round	Assessment timing		vLBW Babies born during	Ν
	N=171	R-1	Pre-intervention		Feb-Apr 2015	1445
		R-2	Interval betwee n Interve ntion and assess ment (in months	6	Sep-Oct 2015	1705
		R-3		18	Sep-Oct 2016	1398
		R-4		30	Sep-Oct 2017	2722
		R-5		42	Sep-Oct 2018	2755
		R-6		54	Sep-Oct 2019	2767
<	N=55 2	Bihar	)	55	Nov 2019	4136



# **ASSESSMENT FINDINGS**



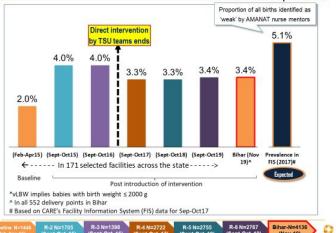
# Pathways of Risk Reduction

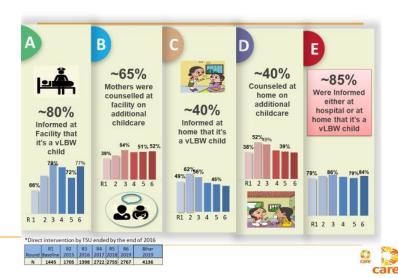
#### Identification of Weak Newborns:

- Proportion identified as weak: 2.1% to 3.4% (Expected @ < 2000 g: 5.1%)</li>
- Rounding errors in birthweight: 69% to 24%
- HMIS reporting of LBW has about doubled

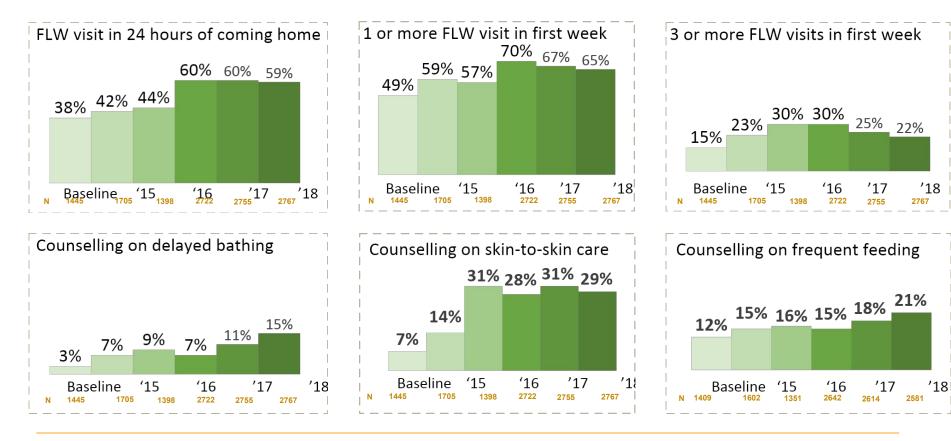
#### **Reach of intervention:**

- Informed in facility that weak at birth: 66% to 77%
- Counselled (facility) on additional care: 39% to 52%
- Weighed at least once after facility birth: 22%
- One or more 1<sup>st</sup> wk FLW home visit: 49% to 65%





## Coverage of home visits and counselling increased substantially



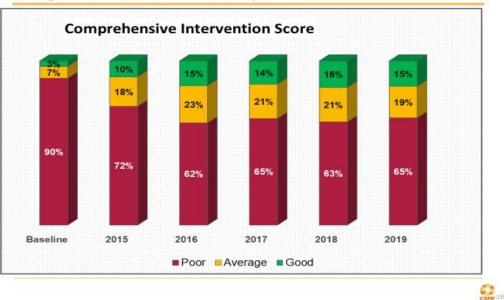


# Pathways of Risk Reduction (Cont.)

# Comprehensive Intervention Score (CIS):

- Comprising (as reported by mother):
  - Informed that baby was weak
  - Thermal care
  - Breastfeeding
  - Cord care
  - 3 or more visits at home

Comprehensive intervention scores: coverage of intervention services improved

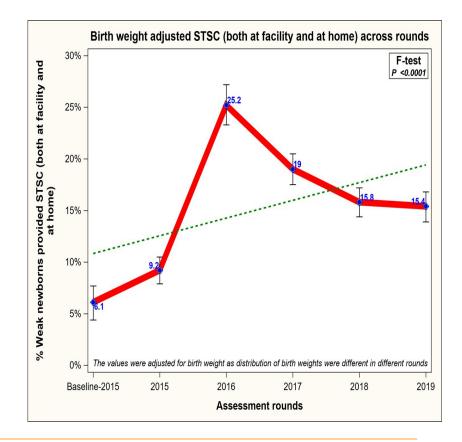


'Good' score: 5x improvement 'Average' score: 3x imporvement



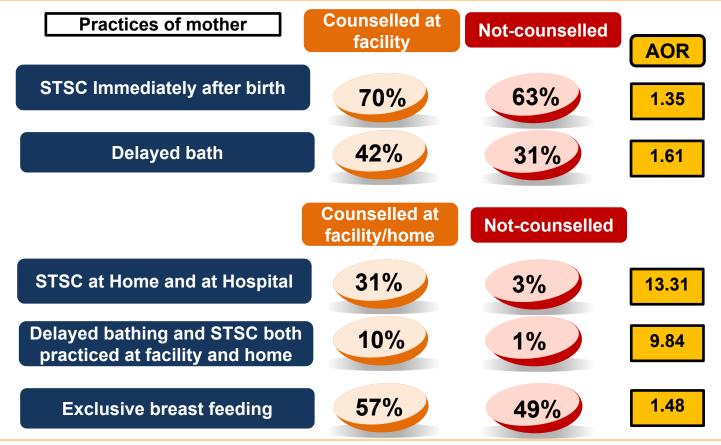
## **Practices improved**

- Skin-to-skin care:
  - At facility before discharge: 15% to 27%
  - At home after discharge: 10% to 23%
- Delayed bathing
  - 48 hours or more: 48% to 63%
  - 7 days or more: 10% to 27%
- Timely initiation of BF: 65% to 80%





#### Families counselled in hospital more likely to practice additional care Families counselled in hospital or home or both were even more likely to practice



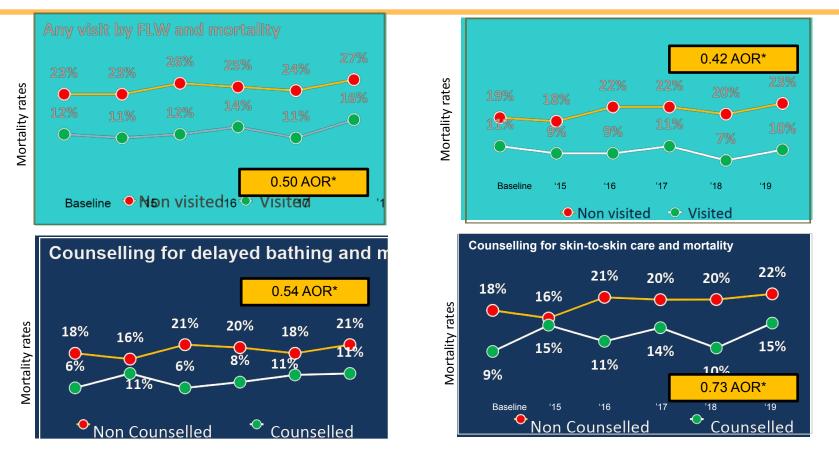
\*Adjusted for gender, religion, caste, mother age, mother's education, father occupation and wealth index P< 0.05



# COVERAGE AND OUTCOMES OF INTERVENTION COMPONENTS



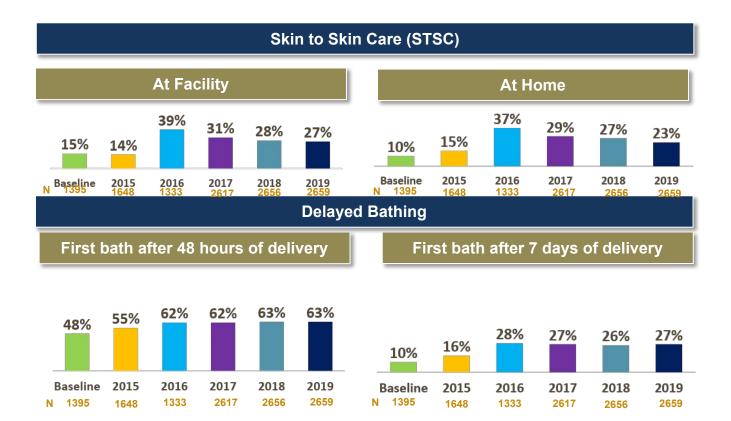
### Home visits and counselling strongly associated with better survival



\*Adjusted for gender, religion, caste, mother age, mother's education, father occupation and wealth index P< 0.05, Bihar 2019

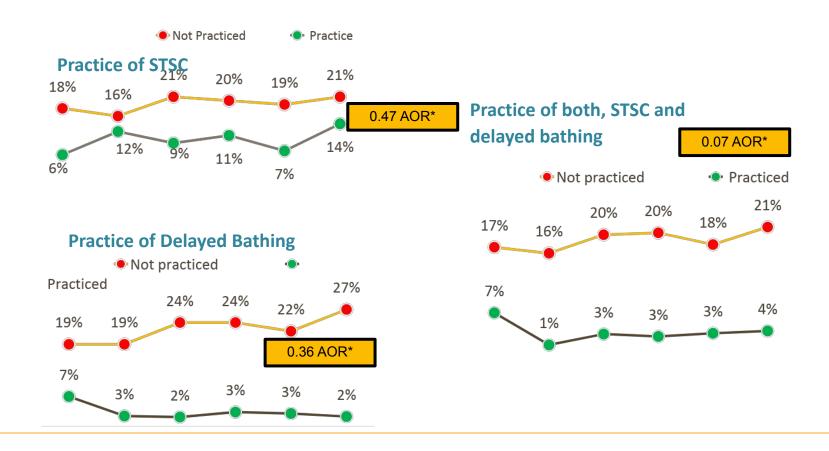


### Coverage of caring practices increased substantially from the baseline





# Caring practices are strongly associated with better survival





### What these assessments found:

- Early breastfeeding (first breastfed within an hour after birth) is significantly associated with <u>higher mortality</u> in this group (< 2000 g)</li>
- The lesser the birthweight, the greater the mortality difference between those breastfed or not breastfed early.
- This effect is limited to the 0-2 d period.

### Implications:

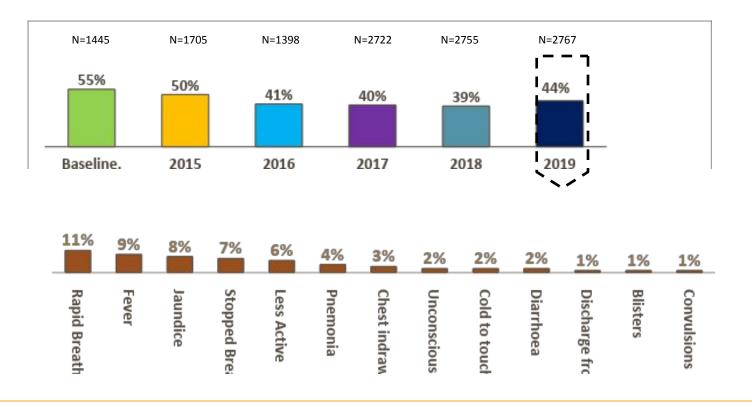
- This negative impact is most likely due to enthusiastic attempts to feed very small babies who are unable to suck and swallow well.
- While reliable gestational age data is not available in these assessments, it is likely that the babies most at risk are those born prematurely, at less than 34 weeks.
- Since sucking and swallowing reflexes are poorly developed in these babies, feeding them without adequate care is probably leading to death by choking and aspiration.
- Such babies die within the first few days, which explains why the increased death is limited to 0-2 days. Babies surviving beyond this age probably have well-developed sucking and swallowing reflexes are able to feed adequately.
- Programmatically, it re-emphasizes the need to observe the first few feeds carefully among WNB, and avoid feeding further if the baby is not taking feeds well. Such babies need to be referred to the SNCU or equivalent hospitals. This is already mentioned in the state guidelines and must be carefully followed.



# CHANGES IN OVERALL OUTCOMES (MORBIDITY AND MORTALITY)

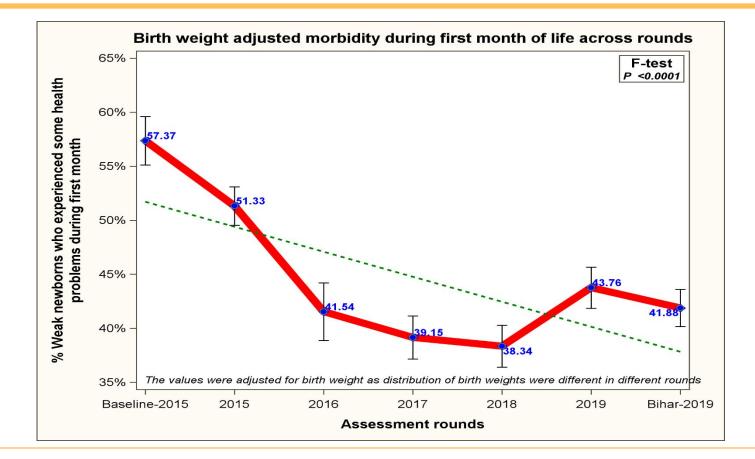


# Incidence of mother-reported illnesses, including PSBI, reduced substantially, but increased again during last year



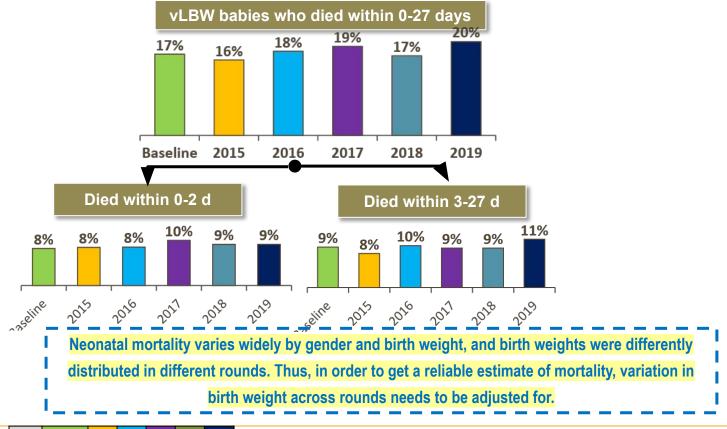


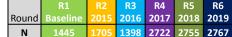
# Birthweight adjusted morbidity reduced over time





# Unadjusted mortality rates have remained constant

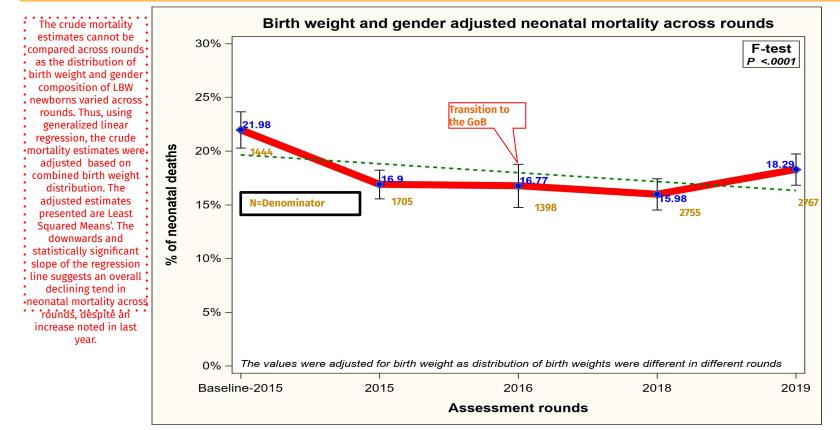




1 - vLBW implies babies with birth weight <= 2000 gms Caveat: Data not collected over 12 months, hence seasonal trends not identifiable



## Birthweight and gender adjusted mortality has declined since baseline

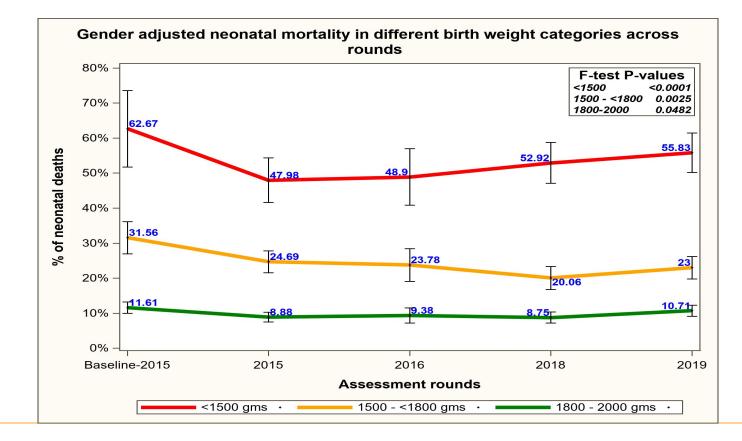




# (1500-1800 gm): This is similar to what was observed in SEARCH

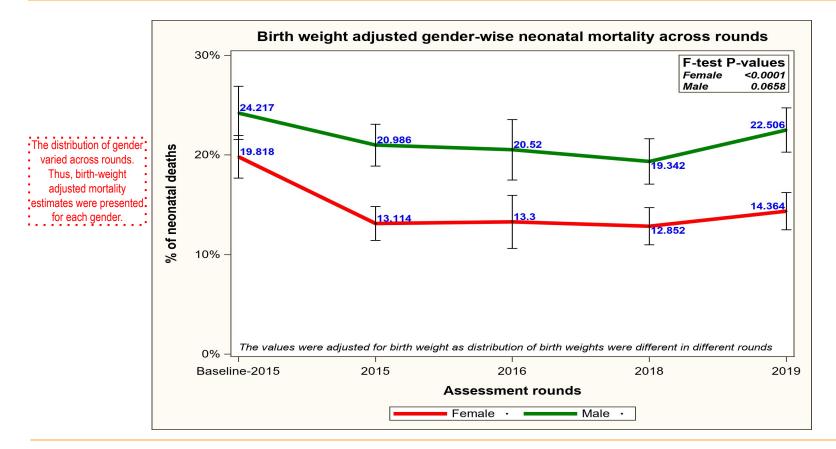
NITI presentation

#### studies



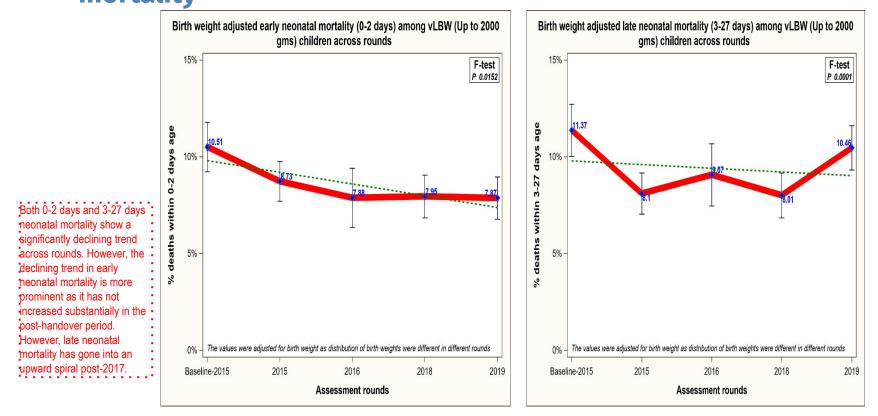


# In 2019, a WNB girl is around 50% more likely to survive than a WNB NITI presentation boy. The main mortality gains are also among WNB girls





## 0-2 days mortality reduced more consistently than 3-27 days mortality





# Summary : Improvements from baseline (2015) to 2019 and association of mortality with intervention components

NITI presentation

IDENTIFICATION	REACH OF INTERVENTION	QUALITY OF COUNSELLING	PRACTICES OF MOTHER
vLBW children identification increased from 2% to 4% after the initial phase of intervention and then has stabilised at around 3.4% - still an improvement of 70% over baseline Practice of rounding-up error in birth weight as 2000 gm declined from 69% to 24%	<ul> <li>Informing the mothers of identified weak newborns (that the child was of low birth weight) increased from 79% at baseline to 84%</li> <li>Counselling on additional care also improved – mostly at facilities, not much at baseline</li> <li>The above gains were achieved despite significant increase in workload as the number of identified vLBW newborns went up</li> </ul>	<ul> <li>Advice on thermal care- advices on both delayed bathing (3% at baseline to 15% in 2019) and KMC (7% to 19%) before discharge from facility increased substantially</li> <li>Similar advices from outreach FLWs showed lesser improvement</li> <li>Counselling on EBF showed improvement at facilities but not much in the outreach</li> </ul>	<ul> <li>Practice of STSC in 2019 (in facility as well as home) was higher than the baseline – 27% from 15% at facility and 23% from 10% after returning home</li> <li>Delayed bathing (after 7d) improved from baseline (10% to 27%)</li> <li>78% mothers reported early initiation of breastfeeding as against 65% at baseline</li> </ul>
CONTRIBUTION OF INTERVENTION COMPONENTS	<ul> <li>Among telephonically followed up, odds of death was 45% lower</li> <li>At least 1 visit by FLW, reduced odds of neonatal death by 50%</li> </ul>	Counselling for Thermal care, Early Breastfeeding and Cord care were impactful – reduced the odds of neonatal death by about 50%	<ul> <li>Odds of neonatal death was 93% lower among those who practiced Delayed bathing, STSC at birth &amp; followed it at home</li> </ul>

Birth-weight adjusted neonatal morbidity: Reduced by about 15% from the baseline (2015) to 2019. Birth-weight adjusted neonatal mortality: Reduced by about 15% from the baseline (2015) to 2019.



## **Summary of the Intervention**

- The WNB focus in Bihar derives from existing national guidelines for newborn care at home and in facilities.
- The guidelines for identification and care of 'high-risk' babies in ASHA Module 7 have been applied to the facility-to-home continuum in the state issued guidelines.
- Implementation on the ground has been much more intense for non-teaching government hospital births than for babies born elsewhere. Around 60% of all births in rural Bihar takes place in government facilities, most of them in non-teaching facilities. Around 1.8 million institutional deliveries are thus directly impacted by the interventions annually.
- Interventions consisted mainly of supportive care provided by the family, guided by counselling by hospital nurses and ASHAs, with oversight by ANMs.
- After initial intensive co-facilitation for about one year, the TSU withdrew to more distant facilitation roles, while implementation continued through staff in delivery points, ANMs and ASHAs.
- The equivalent interventions for babies delivered at home or in private facilities are not covered by these assessments.



## **Summary of Implications**

- In the SEARCH studies, 67.5% of all NMR at the baseline came from the babies with birthweight < 2000 gm, and a small additional portion from preterm babies with higher birthweight.
- The mortality impact in Bihar appears mainly in the 1500-1800 gm group of babies. This
  is very similar to what was observed in the SEARCH studies: most of the ~80% mortality
  reduction in a similar weight / gestational age group came from supportive care (similar
  to that implemented in Bihar), not from antibiotics.
- The major points of program interest in the presented assessments are the strong and consistent positive associations between several key components of the intervention (home visits, counselling about additional care) and caring practices by the family, and between practices and mortality.
- Overall coverage (reach) of these interventions increased substantially from the baseline, thus likely spreading mortality impact widely. However, coverage is still much less than universal. Increasing this coverage should therefore be expected to provide further substantial mortality gains.
- The mortality impact as measured is all-cause reduction within this group, not just in the 'complications of prematurity' component of neonatal mortality.

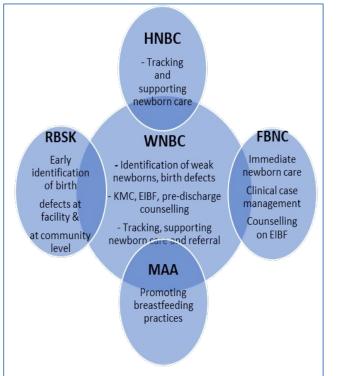
NITI presentation

## MAINSTREAMING



## **Mainstreaming Weak Newborn Care**

- **Integration:** WNBC protocols have the potential to be integrated with newborn care interventions- HBNC, FBNC, MAA and RBSK
- **Institutionalization:** WNBC can easily be institutionalised within the system and implemented through FLWs without upsetting the current operating structures and systems.
- **Strengthening:** By virtue of positioning of its components within the existing newborn care programmes, WNBC model strengthens and accelerates these programmes.
- **Addressing** systemic challenges that are barriers to the implementation of community-based newborn programmes:
  - lack of skilled personnel,
  - issues of logistics
  - weak supervision and monitoring systems





## Costing

- The annual cost for printing various registers and formats is estimated around Rs. 23 lakhs for the entire state of Bihar.
- No separate expenses were incurred for training staff nurses and FLWs; they were trained during their routine meetings. Incentives for home visits by ASHAs were met through existing HBNC provisions.
- By utilising the existing resources efficiently, the WNBC model proves to be highly cost-effective, does not entail extra costs for the government, makes it easy to replicate and sustained.
- Detailed formats for line listing of weak newborns, counselling formats for ASHAs and reporting formats for health facilities developed can easily be integrated with the health MIS to strengthen online monitoring and programmatic review by the implementation agencies.
- Technical support costs could be met through existing or external agencies.



## **Lessons Learnt and Conclusions**

- This collaborative effort has demonstrated a simple and cost-effective intervention that reduced neonatal deaths and morbidity by strengthening capacities of FLWs (ASHAs in outreach and Staff Nurses/ANMs in labour rooms) to identify and aptly respond to the immediate care needs of weak newborns.
- Improved mechanisms of reporting, mentoring and supportive supervision helped the FLWs to focus on delivering services and support equitably to all families through robust name-based tracking systems.
- WNBC is highly amenable to scale-up with no extra cost through existing government programmes.

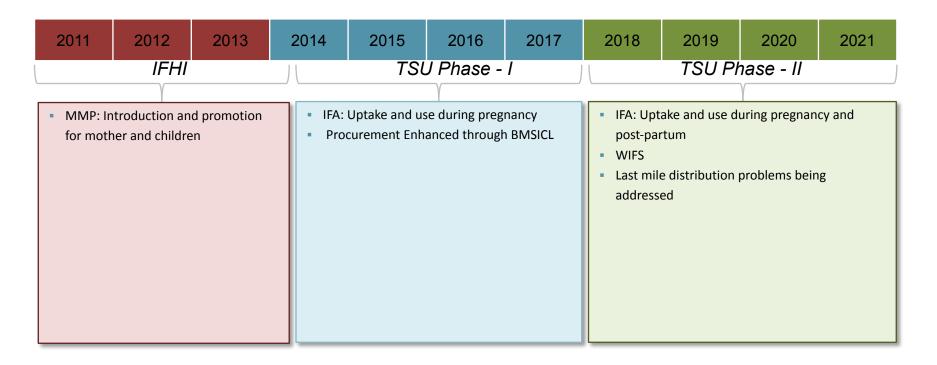


## **Recommendations**

- **Prioritize** preterm-lbw babies as they account for majority of all newborn deaths.
- Adapt evidence-based WNBC protocols for the care of preterm and or LBW babies born in facilities thus capitalizing on the rise in institutional deliveries.
- Scale-up capacity building to strengthen the counselling skills of FLWs as increased contact, improved counselling and message delivery by FLWs are likely to have contributed to changes in newborn care practices.
- **Support with MIS** appropriate to adapted protocol
- Institutionalise the above through focused technical assistance at district and sub-district levels.



### Anemia





#### **DOMAIN SPECIFIC LESSONS**

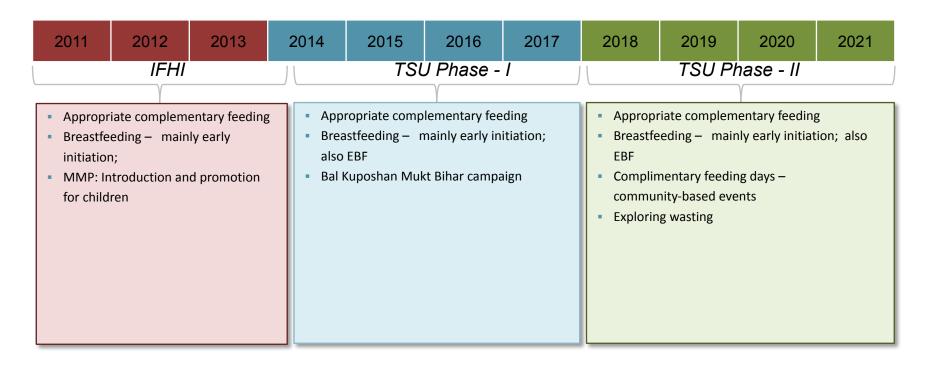
- Bihar has relatively lower level of anaemia in pregnancy (< 10% severe), but affects all groups, as elsewhere
- Life cycle approach in Gol guidelines for iron deficiency has enhanced efforts to tackle anaemia –
  especially WIFS, postpartum (24% consumed some IFA tab.\*\*), in addition to antenatal
  supplementation
- Consumption of IFA in pregnancy has been close to 70% of tablets distributed (mean no. of IFA received during pregnancy increased from 41 tab. to 51 tab. and Consumption increased from 29 tab. to 37 tab. between 2015-20\*\*)
- After long years of disruption in supplies, distribution of IFA has been increasing in last three years, with some disruption due to COVID



\* Vulnerability Study CARE-BTSP-CML 2014-20 \*\* Annual

Anaemia

### **Nutrition**





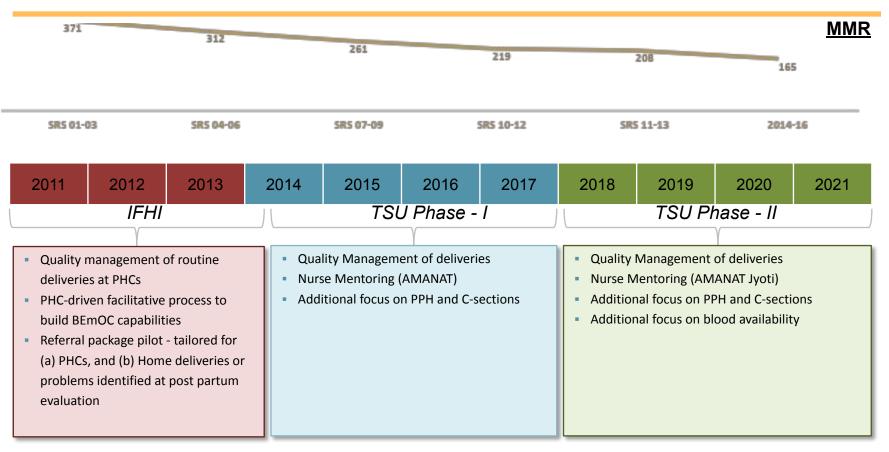
#### **DOMAIN SPECIFIC LESSONS**

- Major reduction could be seen from NFHS 4 to 5 (48.3% to 42.9%)
- Significant gains in sanitation (improved sanitation facility 21% to 46%#, and Handwashing has reached 60% in 2020\*), but CF rates stay low (Timely Initiation of CF remained on an average at ~55% between 2018-20 and Dietary Diversity among 9-11m children remains ~ 19% between 2017-20\*)
- Poshan Abhiyan made a promising start will need stronger focus on a few interventions to get ICDS and Health programs to start accelerating
- Other Gol programs (HBYC, MAA, etc) have strong intent, but fall short on the 'how' part of it.



Stunting

### **Maternal Health**





#### **DOMAIN SPECIFIC LESSONS**

- MMR is falling (<150) with probable significant contribution from AMANAT and private sector
- PPH is a dominant cause; mortality from puerperal sepsis is low and abortion yet an unknown. MDR is picking up but not uniform in capturing deaths.
- Barriers: Lack of CEMONC access is primary barrier (Unsupported doctors & nurses in CEMONC situation)
  - Lack of serious policy/program focus on all clinical emergencies
  - Lack of oversight on intrapartum care in labour rooms
- Delay in reaching the right hospital and getting definitive treatment are common
- Reforms in blood banking (27 DH & 10 Medical colleges have functional Blood banks covering all districts of Bihar\*) and referral transportation have brought these services to the threshold of effectiveness (98% of L2 facilities & all L3 facilities have ambulances; 886 ambulances present at 552 delivery points<sup>#</sup>)
- LaQshya boosted formal attention to QI, needs thoughtful implementation to prevent mechanisation

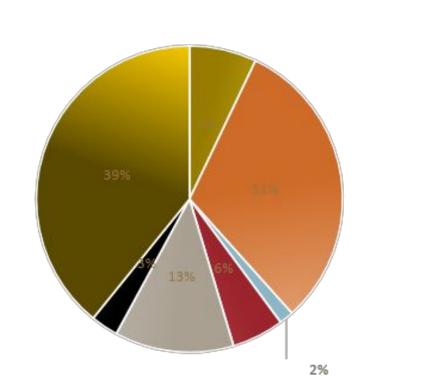
\*Blood bank Study CARE-BTSP-CML 2020 #Facility Assessment Study CARE-BTSP-CML 2019

Maternal

Mortality



### WHY DO PREGNANT WOMEN DIE IN BIHAR? (N=547)



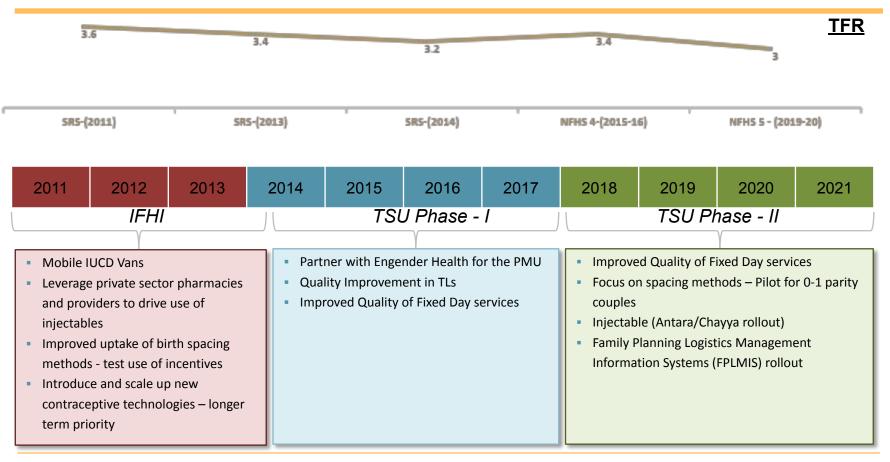




\* Maternal Mortality Study CARE-BTSP-CML 2018

 $\mathbf{N}$ 

## **Family Planning**





#### **DOMAIN SPECIFIC LESSONS**

• Major reduction in TFR from NFHS 4 to 5 (3.4 to 3), accompanied by improvements in mCPR.

#### **Ground Level**

- There has been a steady focus on improving access to contraception (45 facilities had fixed day services, PPIUCD and lately Antara)
- Studies have shown:
  - Surprisingly significant spacing between consecutive births (24 months [median] in 2016 as well as 2018\*)
  - Mistrust of modern contraceptives among young couples (most users prefer traditional methods- 60% of women aged 15-19 y \*)
  - Reduced but persistent son preference (number of preferred male children reduced between 2016-18 from median 2 and mean 1.6 to median 1 and mean 1.5)
  - Dependence of permanent methods (Female Sterilization around 77% among users of any FP methods)
  - These appear to be largely deliberate, thought-out choices by young couples who take their own decisions, much less influenced by the older generation than generally presumed.

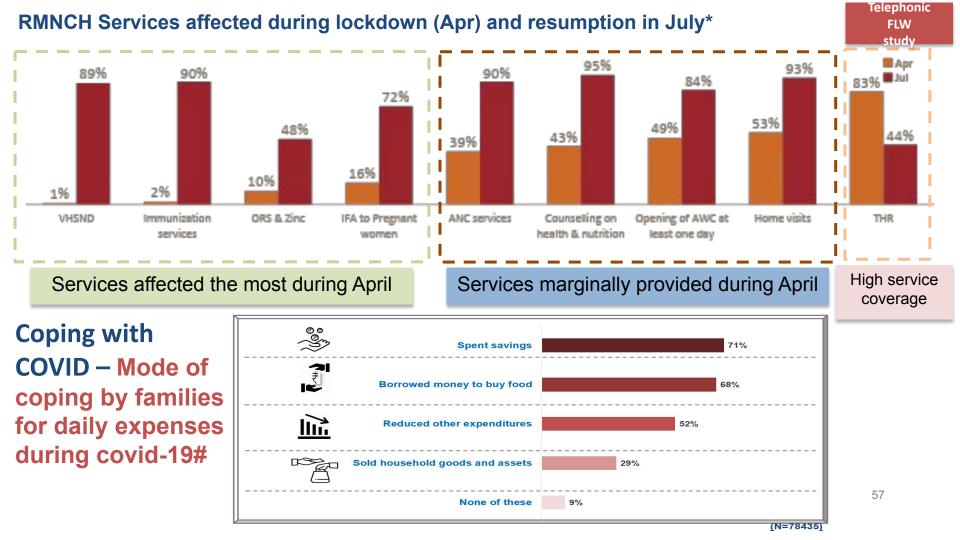


\* Currently Married Women of Reproductive Age Survey CARE-BTSP-CML 2016,2018 , # FP fortnight Study Jan-June'20

#### Family Planning

# **Response to COVID-19**





 $\Box$ 

#### Immunization services

## **Engagement** in VHSND

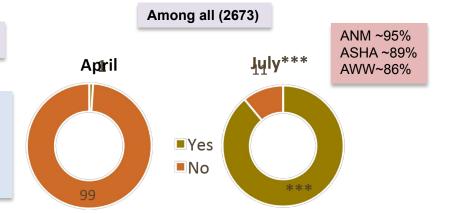
FLW study

Disrupted in April (2%)& reached 87% in July'20

N = 66

- 34 (52%) **reminded** (home visit > phone call)
- 17 (26%) teamed with other FLW to help in reaching venue
- 14 (21%) Couldn't help much

#### Adaptations to conduct VHSND



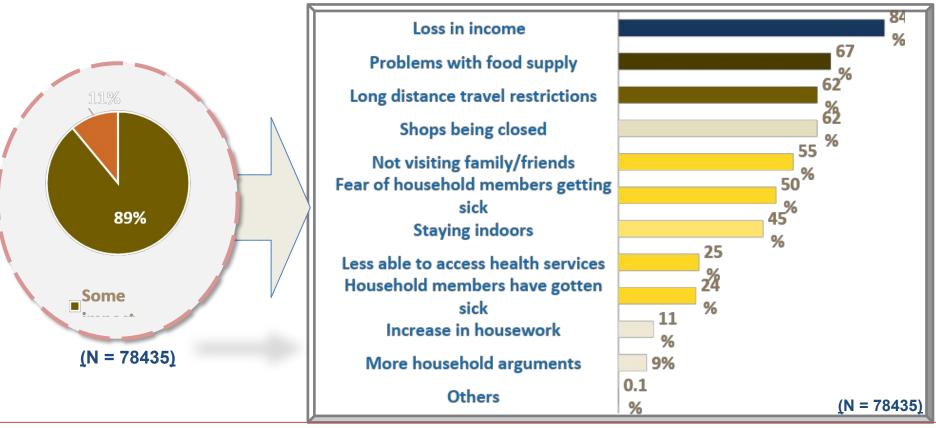
- By maintaining physical distance (76%)
  - By ensuring **self protection** (56%)
- Organising
  - □ in separate groups/timings (8-10%)
  - □ As usual (21%)

N =2408



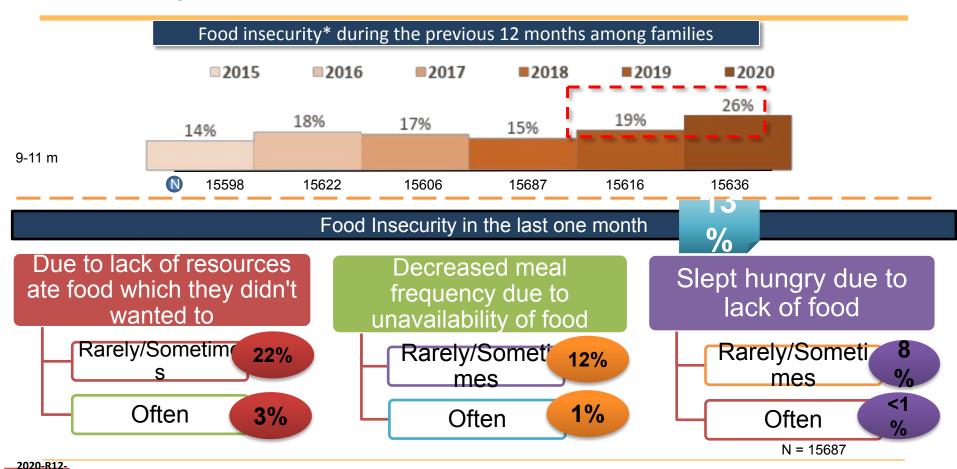
## **Impact of COVID**

#### Impact of COVID-19





#### Food insecurity: Increased



Sep-Nov'2 \*Some family members had to cut the size of meal/skip meal because of lack of availability of food/money



## Mothers in Households where any member suffered from COVID were

Household Survey

#### More likely to be...



Less likely to be...

# CHOICES IN THE IMPLEMENTATION STRATEGY



#### LAST MILE EFFECTIVENESS STRATEGIES

#### **STRATEGIES**

Direct 'horizontal' facilitation (IFHI) vs top-down 'vertical' (TSU)

As per guidelines Vs Despite/Beyond guidelines – almost always went beyond, at times against

First level hospitals Vs District Hospitals (DH) - - targeted CEmONC in DH

Doctors vs ANMs vs MAMTAS - chose to work with ANMs

Institutional birth vs quality of intrapartum care – focused on the latter until lately

Tweak tools vs invent tools – mostly the latter

Low focus on ANC, growth monitoring (~15-20% of children aged 3-23m were weighed\*), THR (10% of pregnant women received THR for at least 3 months, <5% women/children received complete THR\*)



#### SUPERVISION AND MONITORING

#### **STRATEGIES**

ASHA vs AWW vs ASHA + AWW - chose the latter, with ANMs as supervisors (!)

QI, Nurse Mentoring, ILA, CCS/CAS – a combination of delivery channels for TA, capacity/skill building, supervision, planning

Household surveys (LQAS), facility assessments, direct observations of deliveries – designed as monitoring mechanisms



### **STRATEGY/POLICY INTERVENTION CHOICES**

#### STRATEGIES

Coverage vs outcomes – primary focus remained on the latter

Facility-based (MMR, asphyxia, contraceptive services) vs outreach-based (preterm birth, anaemia, stunting)

HMIS vs independent measurements - (why 'vs'?) - mostly relied on the latter

Microsystems vs support systems – 'systems' work effectively began during IFHI

Opportunistic (BFHI, BKMB, Poshan Abhiyan, ASHA modules) vs proactive efforts (ILA, QI, NM, WNB) to leverage top-down change

Manual vs digital technology



### **Key Decisions**

- Building ground-up vs top-down
- Designing and implementing measurement strategy driven by ToC/ToA
- Strengthening domain-agnostic 'delivery channels' as the primary operational strategy
- Decision to burn bridges at the IFHI-TSU transition (esp. for outreach work)
- Embedding IT into the program
- The 70:30 rule
- Moving from flat structure to the vertical TSU organizational structures
- Not claiming credit or publishing the same.



# **Directional Scenario**



## WHAT COULD BE DONE DIFFERENTLY ? (WHAT IF..)

Assuming we have achieved less than what was feasible with the given resources: Should our focus have been different?

- Systems vs impact
- Morbidity vs mortality

#### Should our strategies have been different?

- cRCTs instead of scale interventions
- HMIS instead of independent measurements
- 'Preservice' kind of capacity building instead of on-the-job
- Leadership focus instead of workforce focus
- More vs less embedded in departments
- More vs less investment in ICDS

#### Could we have organized ourselves differently?

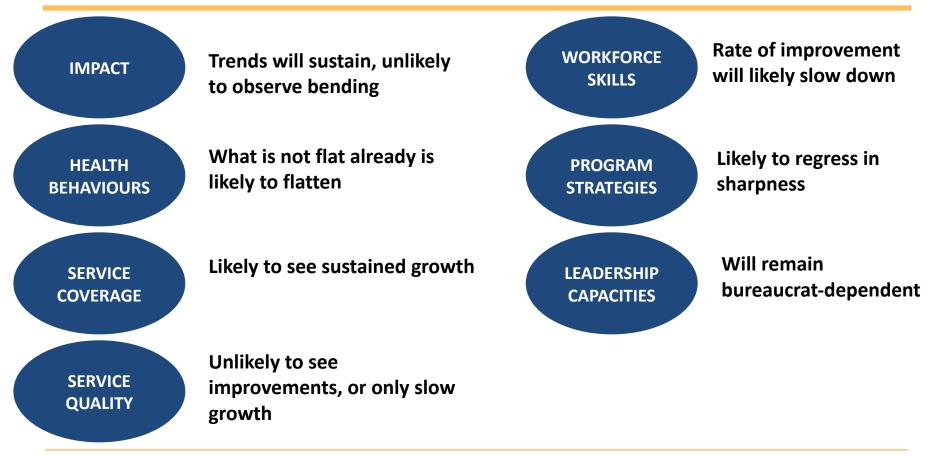
- Larger vs smaller TSU team
- More vs less of technical specialization
- More vs less of managerial interventions

#### Could we have found or made room for more effective facilitators?

• Self-evidently, yes. Why did it not happen?



## WHAT IS LIKELY TO SUSTAIN IF TSU INTERVENTIONS STOPPED?





#### Adequacy for impact vs feasibility at scale:

Don't attempt intervention intensity that is unlikely to be effective. Most programs fail to achieve impact because they lose intervention intensity at the last mile.

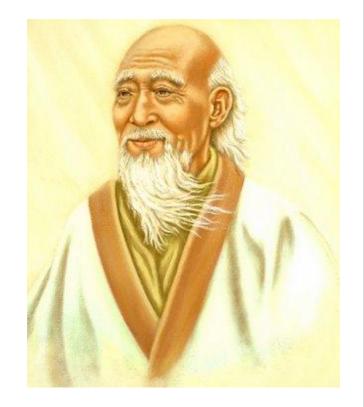
**Bend the curve when the bending can still be measured:** As mortality rates fall, the effectiveness of interventions becomes difficult to judge

Attempting to finish the business may give more bang for the buck than waiting for 'government' to do it: Some key interventions simply don't excite them, nor will they the private sector

**RMNCHN efforts need to be integrated and normalized** - quickly outgrowing the utility of a 'vertical'

**The very few, 'simple' interventions to get to impact are doable, but distractions abound** – and the fount is at the top. Overcoming these may be the primary intervention – conceivably, this would apply to all of health.





Go to the people. Live with them. Learn from them. Love them. Start with what they know. Build with what they have. But with the best leaders, When the work is done. The task accomplished, The people will say 'We have done this ourselves'.

- Lao-tse in 7th century B.C.

