

Ananya Baseline: Early Findings from Household Surveys

9 October 2012

Presentation to the Government of Bihar

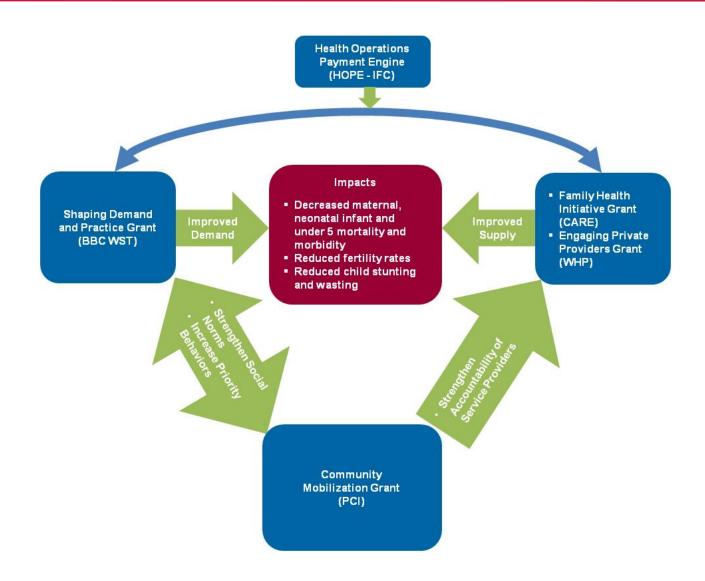








Integrated Package of Demand and Supply Activities









Ananya Districts and Scale-up Plan



Districts of Bihar

Eight focus districts, scale-up targeted by 2012

Remaining districts, scale-up targeted by 2015

Note: BBC-WST and CARE grants will scale up throughout the state of Bihar by 2015. WHP plans to scale up to 25 districts by 2012; these include the 8 focus districts and the 17 districts marked with diagonal lines.







Main Evaluation Components

Evaluation Component	Description	
Assess program implementation and scale-up	 Document and assess implementation progress, successes and failures Understand and assess process by which scale up occurred 	
Measure the contribution of Ananya in improving health outcomes in Bihar	 Assess the contribution of Ananya in the 8 focus districts at midline using a set of comparison districts (2013) Measure overall contribution of Ananya across the state at endline, by assessing whether targeted changes were achieved (2015) 	
Measure effectiveness of select, high-impact innovations	 Rigorous evaluation of effectiveness of highly-innovative solutions in improving coverage 	
Estimate cost and cost- effectiveness	 Estimate overall costs and cost-effectiveness of Ananya and of innovative solutions to inform replication and scale up decisions 	







Focus of Today's Presentation

- Goals and scope of the baseline data collection
 - Sample design and approach
- Preliminary descriptive findings from:
 - Household surveys
 - Frontline worker (ASHA, AWW and ANM) surveys
 - PHC facility and nurse/ANM surveys
- Seek input from Government officials and other stakeholders on areas of further interest for analysis







Sample Design and Approach for Household Surveys







Scope of Household Baseline Data Collection

- Baseline data used to update benchmarks and set targets
- Representative sample of women in the state who had a live birth in the last 12 months
 - Most interventions focus on the window between the last trimester of pregnancy and when the child is one year old
- Eligible women identified through a household listing in sampled communities
- Survey covers the continuum of care, including interactions with FLWs
 - ANC, delivery and newborn care, child nutrition and immunization, hygiene and sanitation, and contraception







Sampling Approach for Household Survey

Primary sampling unit

- 9 blocks sampled on average per district (Range 4 to 17)
- 342 PSUs selected, with variation by size of district

Secondary sampling unit

- Rural Village (Census 2001)
- Urban BL (NSSO 2007-10)
- Segmented large villages/combined small villages
- 772 rural SSUs and 245 urban SSUs

Final stage

- List all women in the selected segment
- Survey those who had a live birth in the last 12 months
- Target 13,000 completed interviews







Sample Size and Response Rates for Household Surveys

Household listing

- All residential households in 1,017 sampled SSUs eligible for listing
- 116,784 eligible households (excluding 2,843 migrated)
- 110,094 (94.3%) completed listing interview

Household survey

- Women who gave birth in the past 12 months were eligible
- 14,706 eligible women identified from the listing
- 13,069 (88.9%) completed interview
- Overall response rate 83.8%; rural 86.8%, urban 75%







Household Characteristics Are Similar to Other Surveys in Bihar

- 11% of sampled women live in urban areas
- 82% are Hindu, and 18% are Muslim
- 26% are SC/ST, and 64% are from OBC
- The median age of respondent is 25 years
 - The average age at marriage was 18 years
 - 31% have one child
 - 41% have three or more children
- 61% have no formal education
 - 11% of sampled women are income earners,
 and 14% use a bank account







Mortality Rates







The State-Wide Neonatal Mortality Rate Is 32 per 1,000 Live Births

	Bihar	
Indicator	Estimate	95% CI
Neonatal Mortality (deaths within the first 28 days of life per 1,000 live births)	32.2	27.6 – 36.8
Stillbirths (dead births per 1,000 pregnancies of 7 months or longer)	20.0	15.6 – 24.5
Perinatal Mortality (dead births and deaths within the first 7 days of life per 1,000 pregnancies of 7 months or longer)	45.5	39.7 – 51.3







Antenatal Care, Delivery, and Immediate Newborn Care





Main Findings for Antenatal Care, Delivery, and Immediate Newborn Care

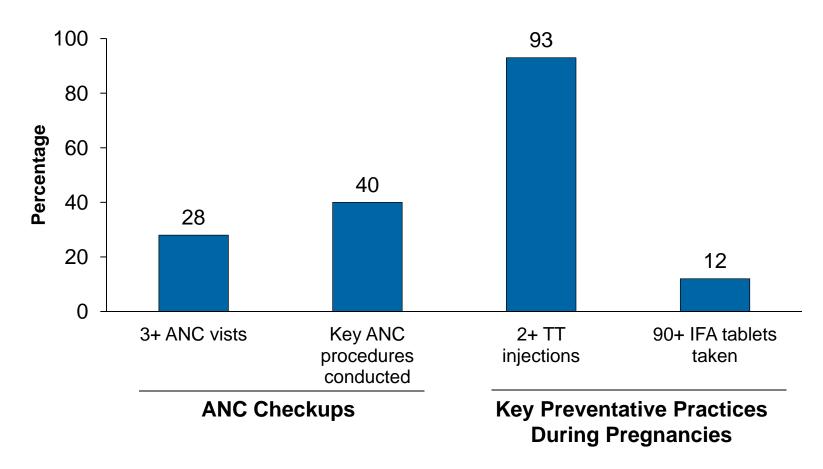
- There are gaps in care and practices across the entire continuum of care:
 - Many women do not receive adequate antenatal checkups
 - Although 62% of women deliver at facilities, care at facilities is not fully adequate
 - There are gaps in appropriate newborn care practices
- Interactions with FLWs are insufficient:
 - Fewer than half of women receive a home visit in the final trimester.
 - FLWs attend half of facility deliveries, but only 10% of home deliveries
 - Only 20% of women report any postpartum home visits
 - Discussion of relevant topics with FLWs may be limited







Many Women Do Not Receive Adequate Antenatal Care



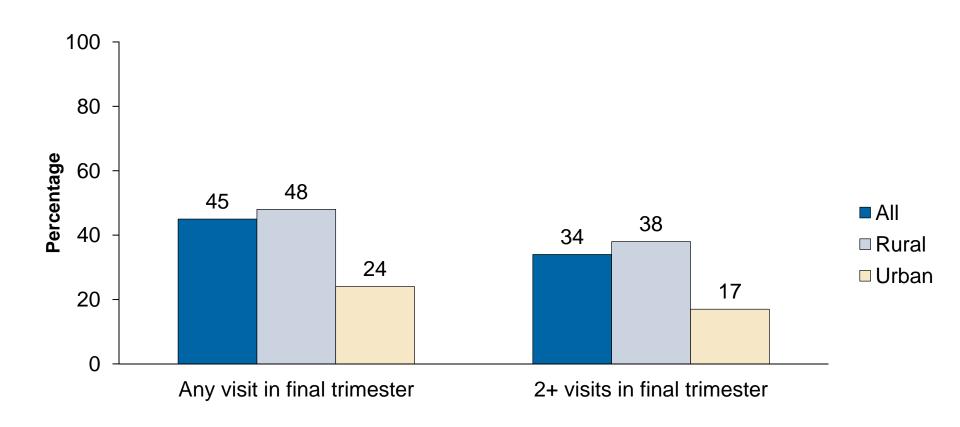
Note: Key ANC procedures are weight taken, BP measured, and abdomen checked at least once. **N=13,069**







Fewer Than Half the Households Report Receiving a Visit by a FLW in the Final Trimester



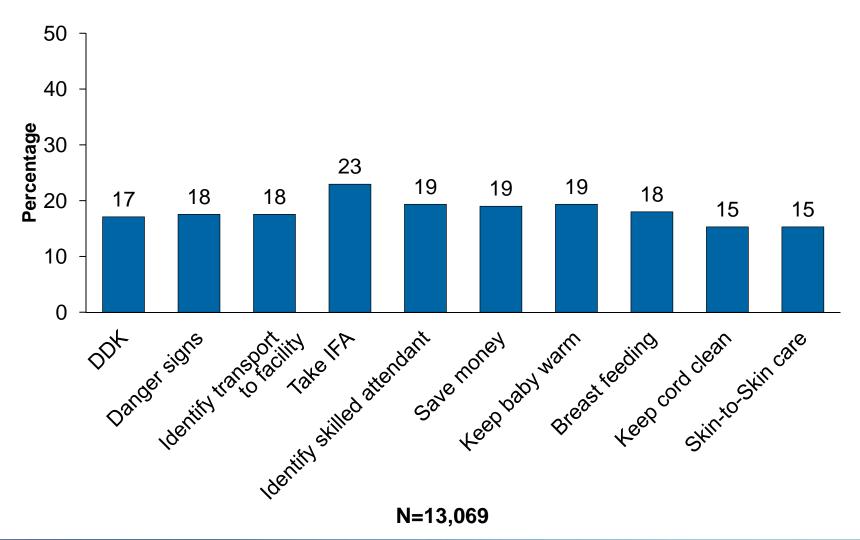
N=13,069







Discussion of Many Pregnancy and Delivery Topics Through FLW Final-Trimester Home Visits Is Limited

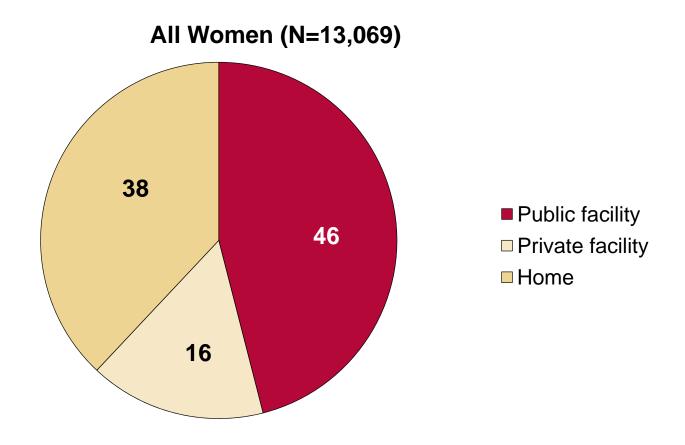








Over Half of Women Deliver at Facilities, Most of Which Are Public Facilities

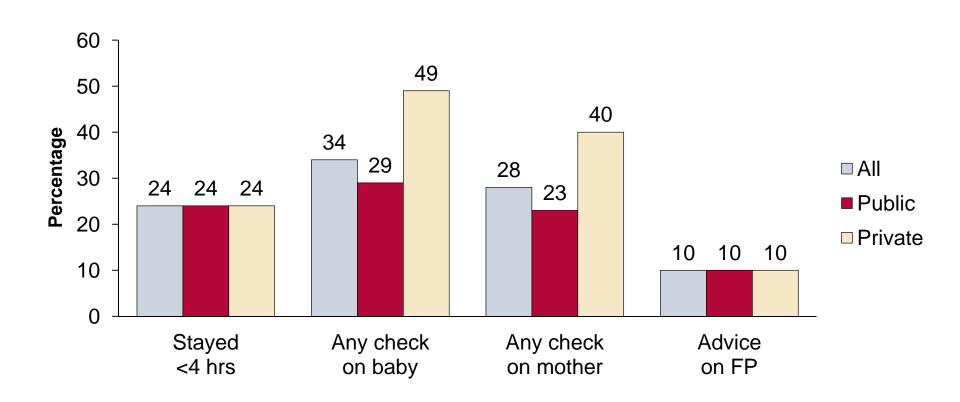








Most Women Who Deliver at a Facility Have Short Stays and Are Discharged with Minimal Follow-up



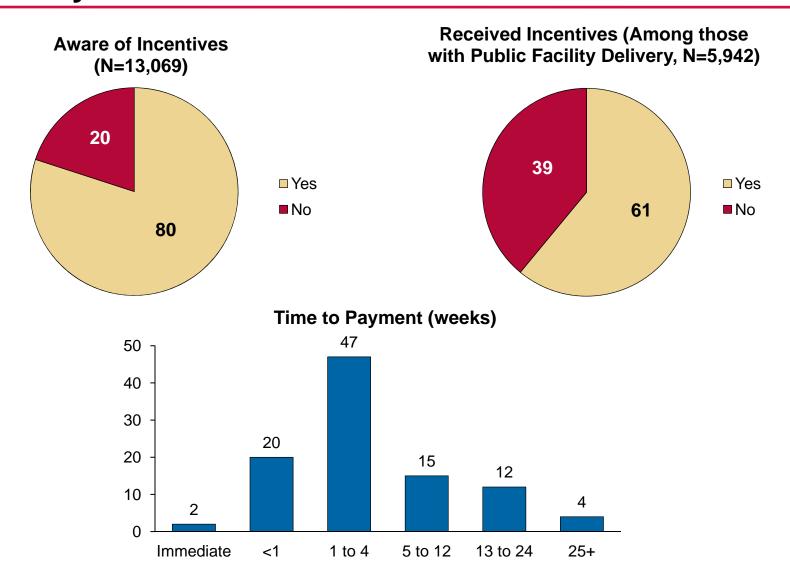
Among Women Delivering at a Facility (N=8,150)







Most Women Are Aware of JSY Incentives, but Many Do Not Receive Them

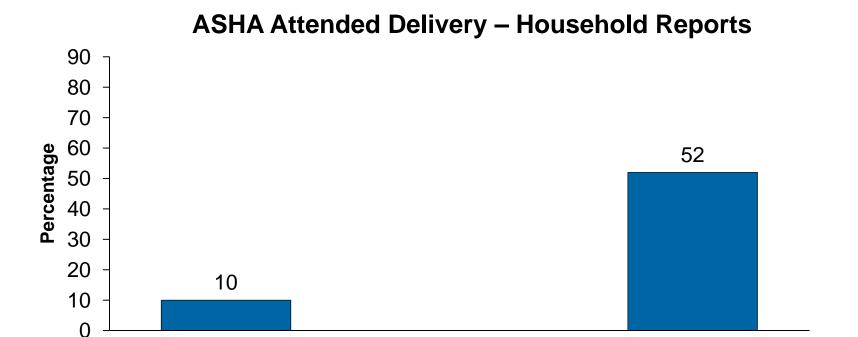








Households Report Low Rates of ASHA Attendance at Deliveries, Especially at Home Deliveries





Among home deliveries

(N=4,919)

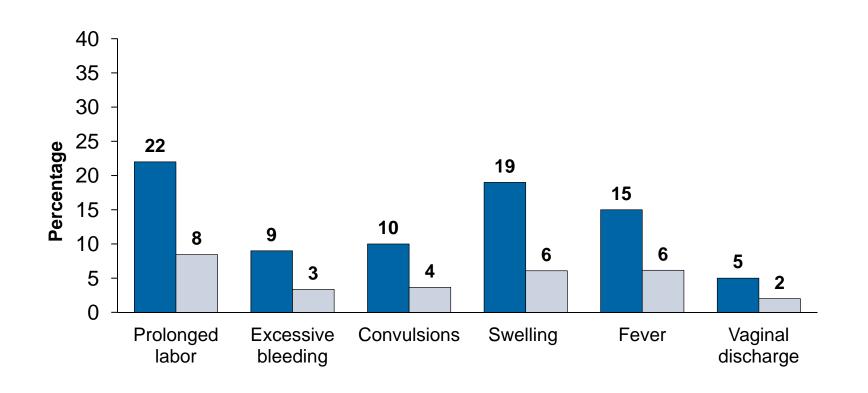


Among institutional

deliveries (N=8,150)



Many Women Do Not Seek Treatment for Maternal Danger Signs



■ Experienced (totals) □ Experienced - sought treatment

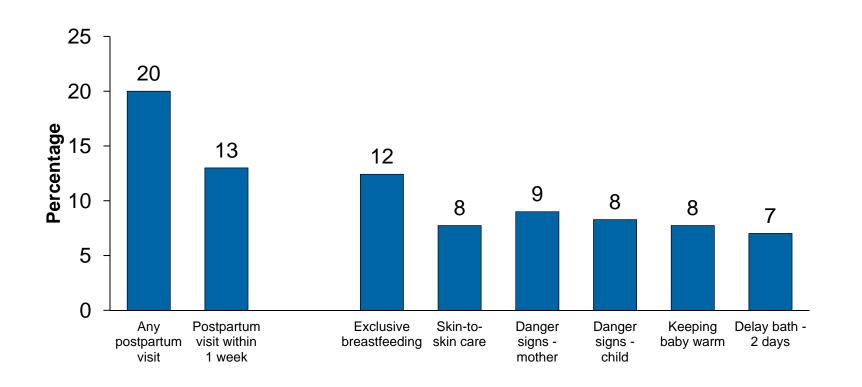
N=13,069







Postpartum Visits by FLWs Are Not Common; Most Get Little Newborn Care Advice from FLWs



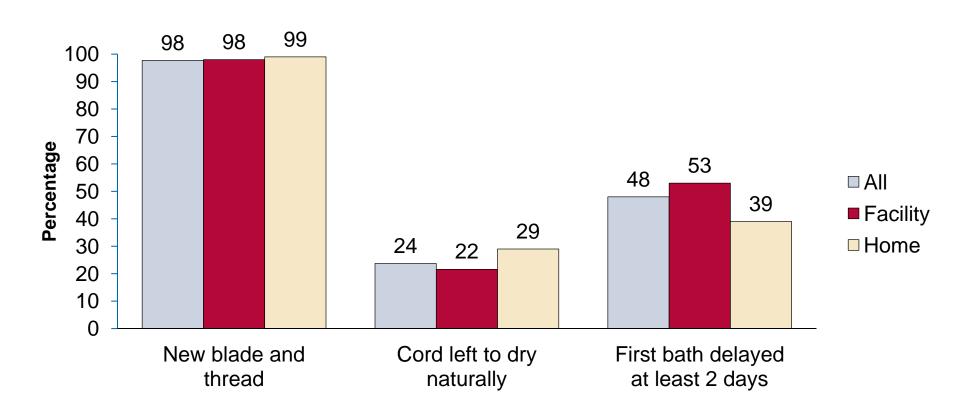
N=13,069







There Are Gaps in Appropriate Newborn Care Practices



N=13,069







Little Correlation Between Appropriate Newborn Practices and FLW Visits in Final Trimester

- Women visited by a FLW in their final trimester are:
 - Less likely to leave cord to dry naturally (more likely to apply gentian violet)
 - Just as likely to delay the first bath until at least 2 days
 - Slightly more likely to initiate breastfeeding within an hour of delivery
- Suggests that Ananya's focus on improving the quality of FLW interactions may be appropriate







Child Nutrition and Immunization







Main Findings for Nutrition and Immunization

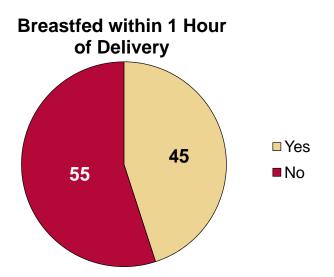
- There are gaps in appropriate feeding practices
 - Fewer than half of women report early and exclusive breastfeeding
 - Complementary feeding is often delayed beyond 6 months
- About one third of children aged 6-11 months are undernourished
- Early immunization rates for children in our sample are high, but drop off for later immunizations

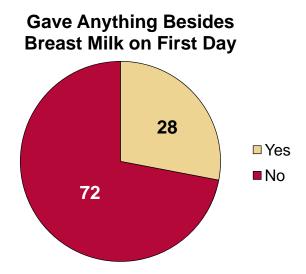




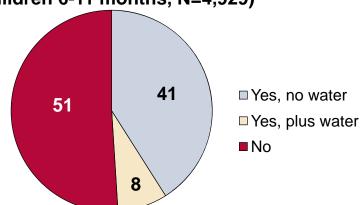


Fewer Than Half of Mothers Report Early and Exclusive Breastfeeding





Exclusive Breastfeeding for 6 Months (Children 6-11 months, N=4,929)



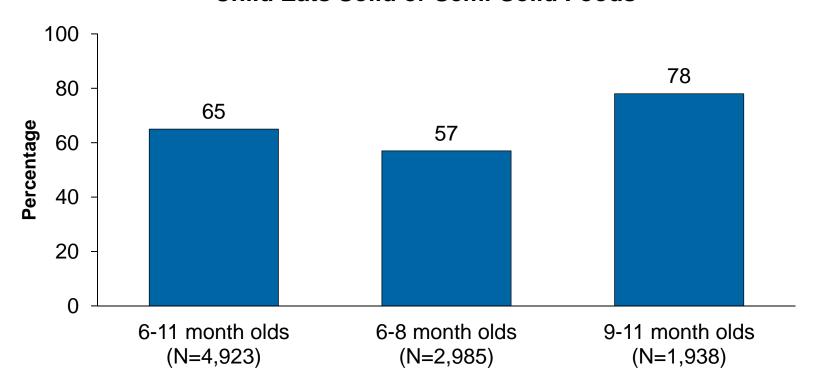






Feeding of Solid or Semi-Solid Foods for Children 6-11 Months Old Is Not Universal

Child Eats Solid or Semi-Solid Foods

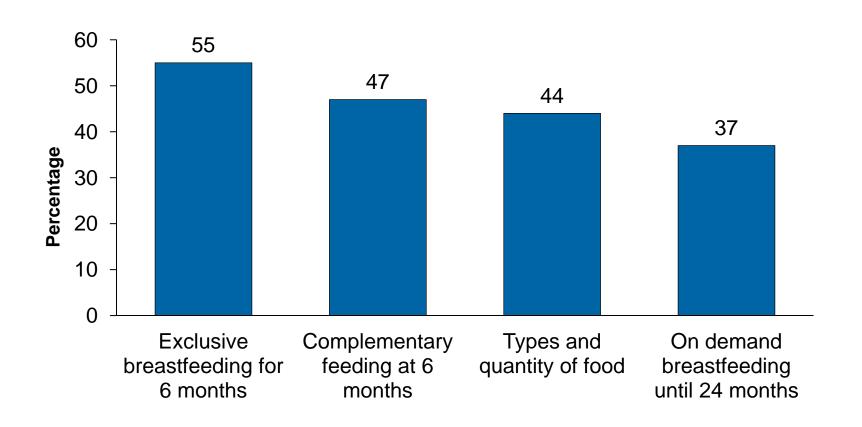








Discussion on Appropriate Infant Feeding with FLWs Is Limited



N=13,069







We Measured the Length and Weight for Children Age 6-11 Months

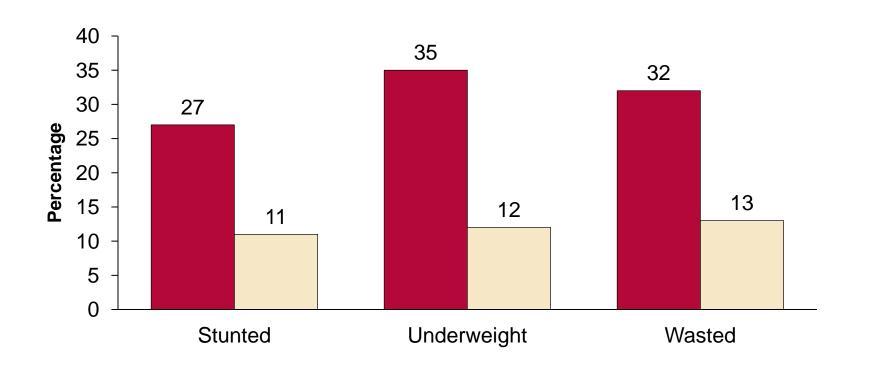
- Two length and two weight measurements were recorded for each child, and the average taken
- Computed z-scores based on WHO growth standards:
 - Compares length-for-age, weight-for-age, and weight-for-length to the distribution of a gender-specific reference population
- Categorized children as undernourished if z-score < -2 sd
 - Stunted: length-for-age z-score <-2 sd
 - Underweight: weight-for-age z-score <-2 sd
 - Wasted: weight-for-length z-score <-2 sd
- Children are severely undernourished if z-score < -3 sd</p>







Under-Nutrition Is Common in Children Age 6-11 Months



z-score <-2 sd z-score <-3 sd

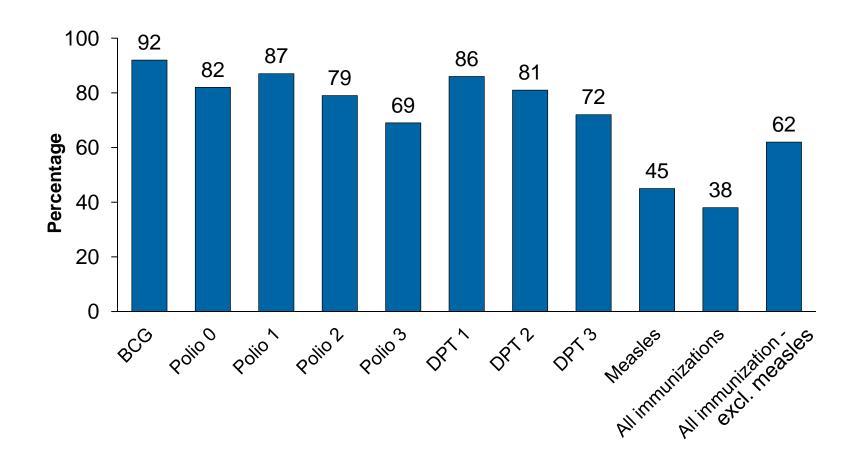
N=4,284







Over Half of Children Over 9 Months Old Received All Immunizations But Measles (All Reports)



N=1,911







Hygiene and Sanitation

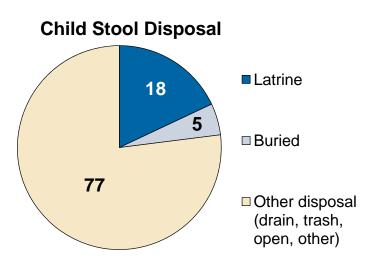


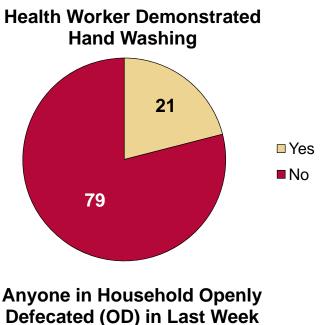


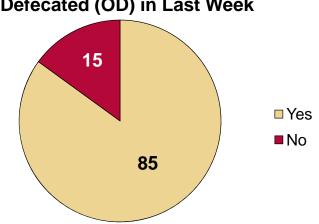


Hand Washing Rates Are High, But Disposal of Child Stools Is Not Hygienic and OD Is Common















Contraception







Main Findings for Contraception

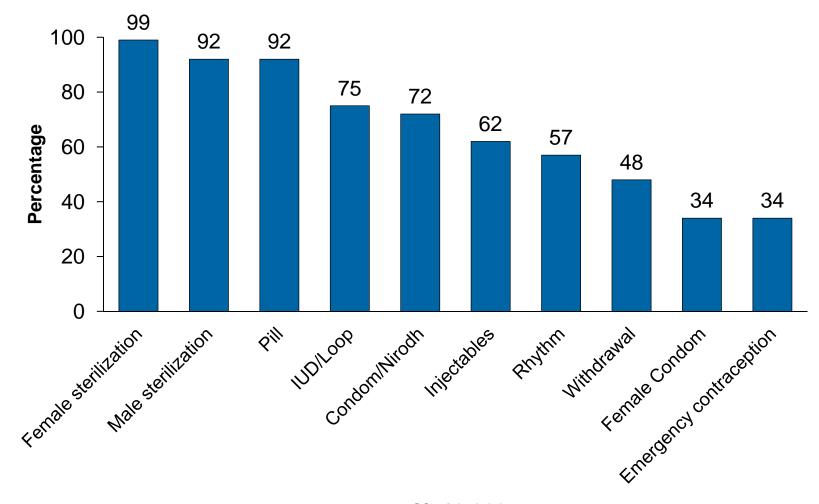
- About one quarter of women with children over 6 months are using some form of contraception
 - Only 17% are using permanent or other modern methods
 - Despite the fact that knowledge of modern methods is high
- Discussions with FLWs around contraception are limited
- Positive correlations between discussions with FLWs and contraceptive use
 - Also positive correlations between media exposure to messages and contraceptive use







Sterilization and Pill Most Commonly Known Contraceptive Methods



N=13,069

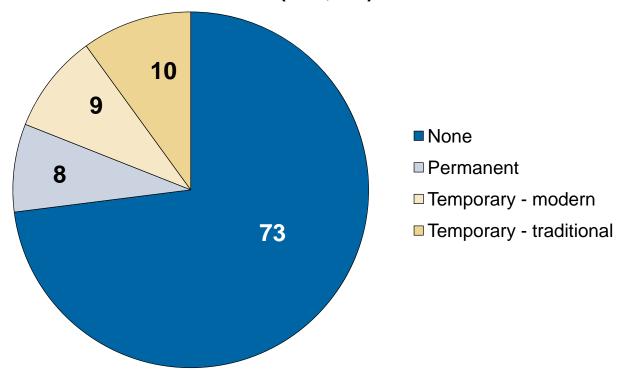






Use of Modern Contraceptive Methods Is Low

Among Women Who Are Not Pregnant and Have a Child Over 6 Months (N=5,458)









Other Findings on Contraception

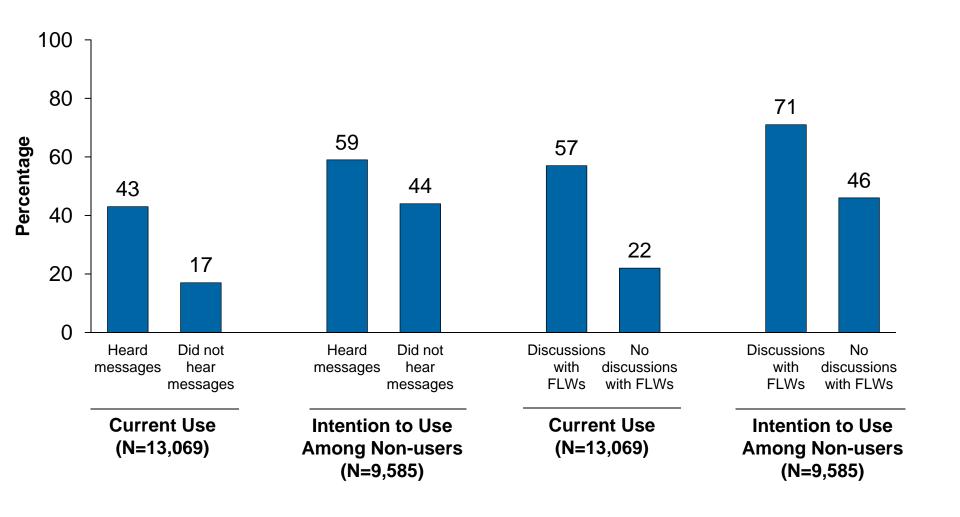
- Contraceptive use is higher for certain subgroups
 - Older women/women with more children
 - Women in higher SES households
 - Hindu women compared to Muslim women
- Almost half of non-users intend to use contraception in the next year
 - Female sterilization is the most common method planned (20% of nonusers)
- Only 12% of women discussed contraception with an FLW during pregnancy or after birth
 - Only 10% of women with a facility delivery had a family planning discussion at the facility after delivery







Association Between Media Exposure or FLW Discussions and Use of Contraception









Summary of Findings

- Certain behaviors/practices in the continuum of care are strong/show improvement, but there are still many gaps in coverage
 - One-third of young children under nourished
- Even though facility deliveries have increased, there remain quality gaps
- Home visits by FLWs are limited, particularly post-partum
- Some suggestive evidence that increased interactions with FLWs help improve contraceptive use
- Ananya's focus on improving quality of FLW interactions and quality of facilities can help improve coverage



