







Study Background ...

- Reduction in stunting over the last decade, but the progress has remained slow, (41%) is of continuing concern
- Progress not inclusive, disadvantage groups (DAG) lag behind
- There are increasing disparities by wealth quintiles and geographical areas;
 - Children in the poorest households are more than twice as like to be stunted (56%) than wealthiest households (26%)
 - Children in households with food security are less like to be stunted (33%) than children in in severe food insecurity households (49%)
 - -Women in the lowest wealth quintiles are more likely to be underweight (22%) than women the highest wealth quintiles (12%)

Source: NDHS 2011







Study Background (cond...)

- DAGs identified by the state as being vulnerable due to their social, economic, cultural, political and physical status
- Selected PFs in a participatory manner based on;
 - Live in a geographically remote area where FCHVs cannot reach frequently
 - Willingness to share experiences and works as a volunteer
 - Has at least **one child** under 2 years of age
 - Potential to demonstrate leadership in the community
 - Currently playing a supportive role in their family
- Capacity building modular approach







Study Background (cond...) Role of the PFs

Support FCHVs

- Create demand for MCH & nutrition services in their community.
- Regularize HMG's group meetings by attending them and encouraging other 1,000 days women to do so

Disseminate messages

- Frequently interact with 1,000 days women to improve health & nutrition behaviors in formal and informal setting
- Advocate for optimal nutrition behaviors with 1,000 days women and family members

Overcome barriers

- Help 1,000 days women identify barriers and solutions to overcoming those barriers.







Objective of the Study

General:

To assess the effect of mobilizing peers on improving the health and nutrition behaviors of women and children of disadvantage group (DAG)

Specific:

- improving practices of key MIYCF behaviors by mothers of children under 24 months of age from DAG
- Improving maternal practices of key behaviors during pregnancy and lactation











Study Area

Comparison

- MIYCN
- MCH/FP
- WASH
- Home gardens and poultry
- Bhanchhin Aama radio Program

Intervention

- MIYCN
- MCH/FP
- WASH
- Home gardens and poultry
- Bhanchhin Aama radio Program

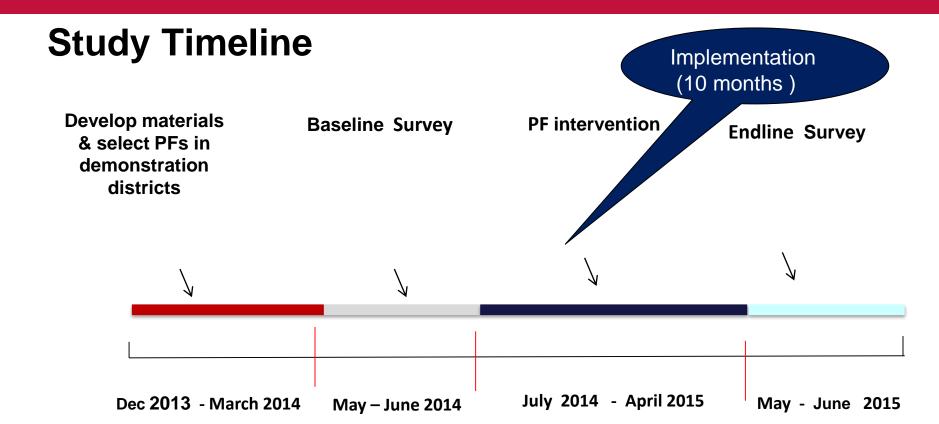
+ Peer Facilitators

Minimize the diffusion of the program effect, comparison VDCs selected that were not adjoined to the intervention VDCs (same DAG category)















Methodology

Study :

 Quasi-experimental design was used at two points of time (pre & post intervention)

Sampling Design :

 Multi – stage cluster sampling selected using probability proportional to size (PPS)

Ethical approval: NHRC

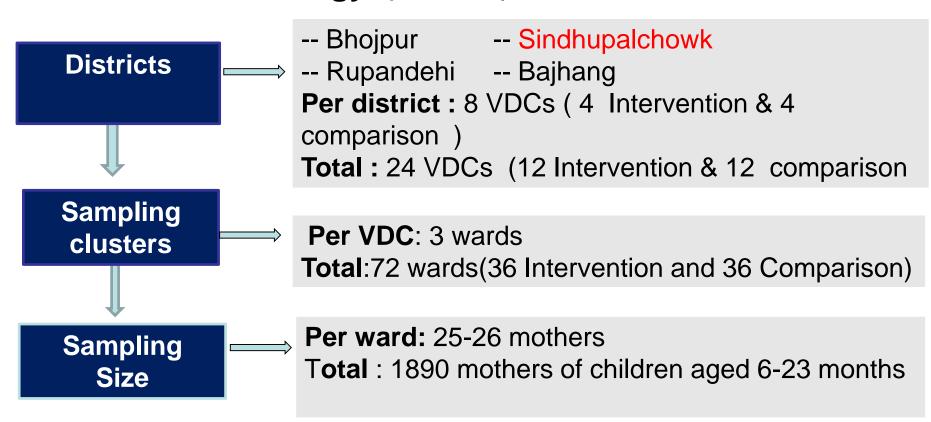
Data collected and analysis: Valley Research Group (VaRG)







Methodology (contd...)



Data was collected by using electronic device and t-test Chi square test done by SPSS (21)







Study Findings

Infant & Young Child Feeding (IYCF) Practices











IYCF Practices

| | PF Intervention | | Comparison | | Difference in |
|--|-----------------|----------|------------|--------------------|---|
| | BL | EL | BL | EL | Difference values (PF intervention – Comparison) |
| Breastfeeding | | | | | |
| Ever breastfed | 100.0 | 99.8 | 99.9 | 99.8 | - |
| Early breastfeeding (within 1 hour after birth | 63.1 | 73.8 *** | 61.5 | 63.0 ^{ns} | +9.2 |
| Minimum meal frequency | 82.6 | 84.7 | 77.4 | 82.4 | -2.9 |
| Minimum dietary diversity (≥4 food groups) | 32.1 | 46.5 | 37.6 | 45.0 | +7.4 |

p-values *** <0.01; ** <0.05; * <0.1; ns=not significant







Food groups consumed by children aged 6-23 months

| | PF Intervention | | Comparison | | Difference in Difference |
|--------------------------------------|-----------------|--------------------|------------|--------------------|---|
| | BL | EL | BL | EL | values (PF intervention – Comparison) |
| Individual dietary diversity | 3.0 | 3.4 | 3.1 | 3.3 | +0.2 |
| Food groups | | | | | |
| Dairy products | 46.9 | 52.6*** | 52.7 | 52.6 ^{ns} | +5.8 |
| Grains | 97.0 | 96.8 ^{ns} | 96.2 | 96.6 ^{ns} | -0.6 |
| Vitamin A rich fruits and vegetables | 31.0 | 49.5*** | 39.6 | 44.6** | +4.5 |
| Other fruits and vegetables | 14.9 | 18.5** | 14.3 | 24.3*** | -6.4 |
| Eggs | 11.6 | 19.3*** | 11.7 | 17.1*** | +2.3 |
| Meat, poultry and fish | 18.8 | 20.8 ^{ns} | 17.4 | 19.2 ^{ns} | +0.2 |
| Legumes and nuts | 83.2 | 86.2** | 76.3 | 79.6** | -0.3 |

p-values *** <0.01; ** <0.05; * <0.1; ns=not significant









Maternal Nutrition practices

| | PF Intervention | | Comparison | | Difference in Difference | |
|--|--------------------|----------------------|------------|---------------------|---|--|
| | BL | EL | BL | EL | values (PF intervention – Comparison) | |
| Individual dietary diversity | 3.3 | 3.7 | 3.5 | 3.6 | +0.3 | |
| Food groups | | | | | | |
| Dairy products | 38.2 | 40.4 ^{ns} | 41.1 | 37.0** | +6.3 | |
| Grains | 99.9 | I 00.0 ^{ns} | 99.8 | 100.0 ^{ns} | -0.1 | |
| Vitamin A rich fruits and vegetables | 9.2 | 20.5*** | 10.5 | 17.0*** | +4.8 | |
| Dark green leafy vegetables | 40.0 | 51.3*** | 55.3 | 52.8 ^{ns} | +13.8 | |
| Other fruits and vegetables | 13.5 | 25.8*** | 16.8 | 28.6*** | +0.5 | |
| Eggs | 10.1 | I3.9*** | 11.7 | II.4ns | +4.1 | |
| Meat, poultry and fish | 23.6 | 22.8 ^{ns} | 20.6 | 20.2 ^{ns} | -0.4 | |
| Fish | 3.8 | 4.2 ^{ns} | 5.5 | 3.5** | +2.4 | |
| Legumes and nuts | 89.4 | 92.I** | 86.1 | 89.2** | -0.4 | |
| p-values *** <0.01; ** <0.05; * <0.1; ns=not significant | | | | | | |







Maternal Nutrition practices (contd...)

| | PF Intervention | | Comparison | | Difference in Difference Values (PF Intervention – Comparison) |
|--|--------------------|---------|------------|------|---|
| | BL | EL | BL | EL | |
| Women receiving extra meals (>1 time)during last pregnancy | 58.5 | 70.1*** | 56.3 | 53.9 | +14.0 |
| Women receiving extra meals (>2 times) while breastfeeding | 23.3 | 45.1*** | 27.9 | 31.5 | +18.2 |
| Used Iron/ Folic tablets for 180 days or more | 39.5 | 57.1 | 31.8 | 43.5 | +5.9 |
| Taken Deworming tables during Pregnancy P-values ***<0.01 | 80.0 | 89.9 | 70.9 | 83.6 | -2.8 |









Meeting with peer facilitator

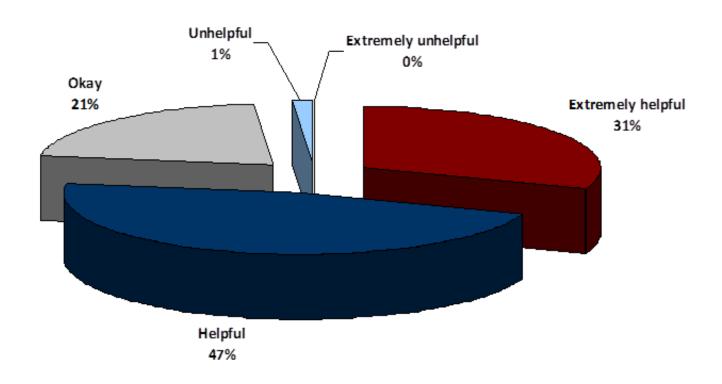
| % ever met PF | 71.6 (n=677) |
|--|--------------|
| Time of the last meeting | |
| Within a month | 15.1 |
| One month | 41.9 |
| Two months | 13.7 |
| Three months+ | 29.3 |
| | |
| Top 5 discussion topics during last meeting | |
| Advised on making child food/child feeding | 59.5 |
| Discussed child nutrition/ diets | 52.4 |
| Discussed child health/illnesses | 51.8 |
| Demonstrated making child food/child feeding | 45.2 |
| Discussed maternal nutrition/diet | 40.8 |







Mother's opinion on interaction with a PF









IYCF Practices by exposure to peer facilitator

| | PF Interve | Comparison | |
|---------------------------|--------------------|-------------------|--------------|
| | Ever met PF | Never met | area (N=945) |
| | (n=677) | PF (n=268) | |
| Minimum meal frequency | 87.9 ^{ab} | 76.5 ^b | 82.4 |
| Minimum dietary diversity | 48.3 | 41.8 | 45.0 |
| Consumption of eggs | 21.0 ab | 14.9 | 17.1 |
| Consumption of meat items | 21.4 | 19.4 | 19.2 |

Statistical test: a - Comparison with "Intervention but not exposed with PF" (p<.05);

b – Comparison with "comparison area" (p<.05)







Maternal Nutrition Practices (contd...)

| | Intervent | ion area | Comparison | |
|--|--------------------|-----------------|------------|--|
| | Ever met PF | Never met PF | area | |
| Receiving extra meal during pregnancy (≥1 times) | 72.7 ^{ab} | 63.4 b | 53.9 | |
| Receiving extra meals while breastfeeding (≥2 times) | 48.7 ^{ab} | 35.8 | 31.5 | |
| Used iron folic acid during pregnancy (180 days or more) | 59.5 ^{ab} | 51.1 b | 43.5 | |
| Taken Deworming Tablet during pregnancy | 92.0 ^{ab} | 84.7 | 83.6 | |
| Used iron folic acid after delivery (42 days or more) | 46.5 ^{ab} | 36.2 | 31.3 | |

Statistical test: ^a - Comparison with "Intervention but not exposed with PF" (p<.05);

b – Comparison with "comparison area" (p<.05)







Conclusions

- The overall findings revealed that there was significant improvement on the level of practice on maternal and child nutrition among the women of PF intervention area.
- Level of practice on nutrition was also higher among the women who had ever met PF than those who had never met them.
- The rate of improvement due to PF exposure in the intervention area was found to be higher even in a short period of one year indicating that the intervention has further added value to nutrition indicators concluding that the program is promising and scalable.







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