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Enabling SLFs/ SHGs



Mobilizing Communities

Project MARPU



Increasing Awareness



Reducing Gender Barriers



Influencing Behaviors

APMAS- MARPU

A comparison between mid and end-line data proves the efficacy of the interventions. In less than 8 months, MARPU brought about the following changes in the interventional areas



Summary
The MARPU Project



The intervention was conducted across slums in Hyderabad, Ongole and Tirupati.

Over 2700 pregnant and lactating women were interviewed across the baseline, mid-line and end-line studies to validate the effectiveness of the interventions.

63 FGD were also conducted across all three cities to understand the qualitative aspects.

Increased Coverage



Home visits in the interventional areas – 73% SHG coverage

Coverage in non-interventional areas Almost 0% support from SHGs

Improved Dietary Diversity



3% more women have a better understanding of what to eat

1.5% more women achieve the dietary diversity necessary

Sleep and Rest



more women slept for at least 8 hours per day

more women rested for at least 2 hours during the day

Reduced Gender Barriers



9.5% more women in interventional areas could make health related decisions
7.8% more women were empowered in choosing what to eat

Exclusive Breastfeeding

18.3%



more women practice exclusive breastfeeding

Interventions to promote early initiation showed positive but insignificant results

Availing ICDS Services

-4%



more women avail supplementary nutrition from AWCs

Increased knowledge about nutrition, reduced gender barriers and early registration have paved the way for better utilization of AWC services

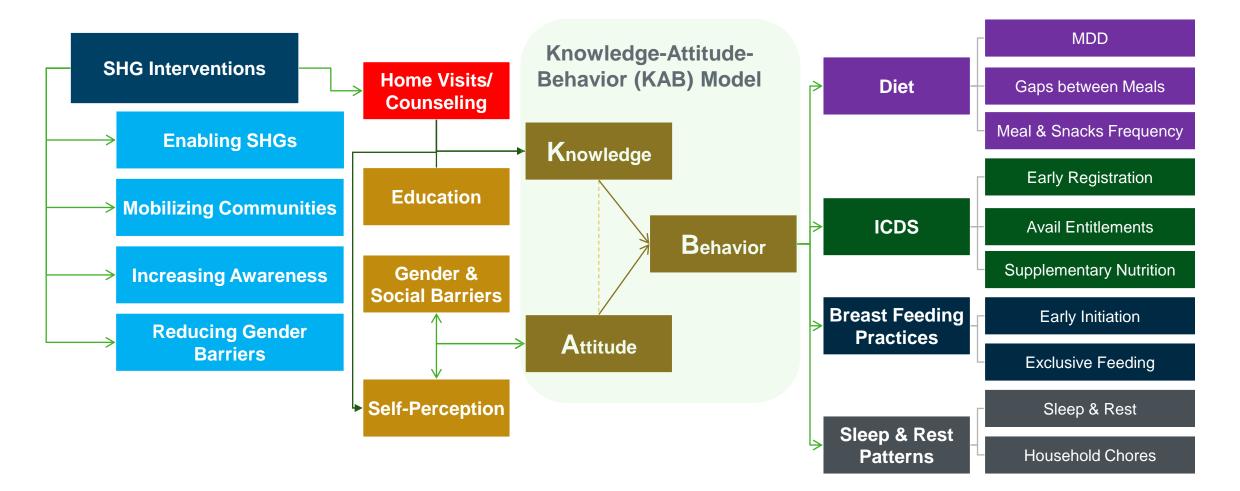




SHG Impact through the KAB Model

The Knowledge-Attitude-Behavior model was tested to verify causal relationships between interventions and outcomes





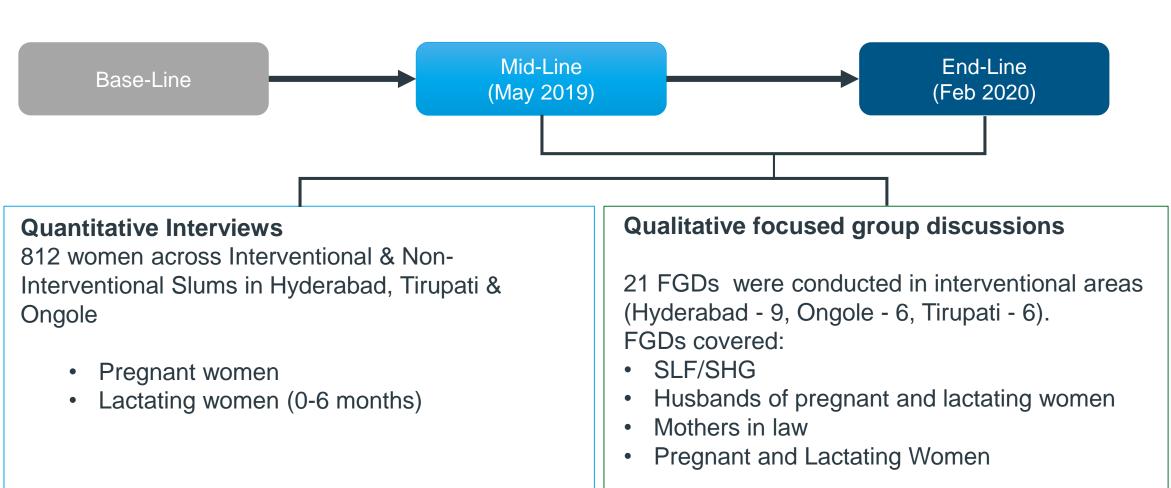


Project MARPU: End-line Report

FGDs covered: SLF/SHG ۲ ${}^{\bullet}$ Mothers in law

Study Design

812 Pregnant and Lactating women were interviewed across Hyderabad, Ongole and Tirupati in mid-line and end-line

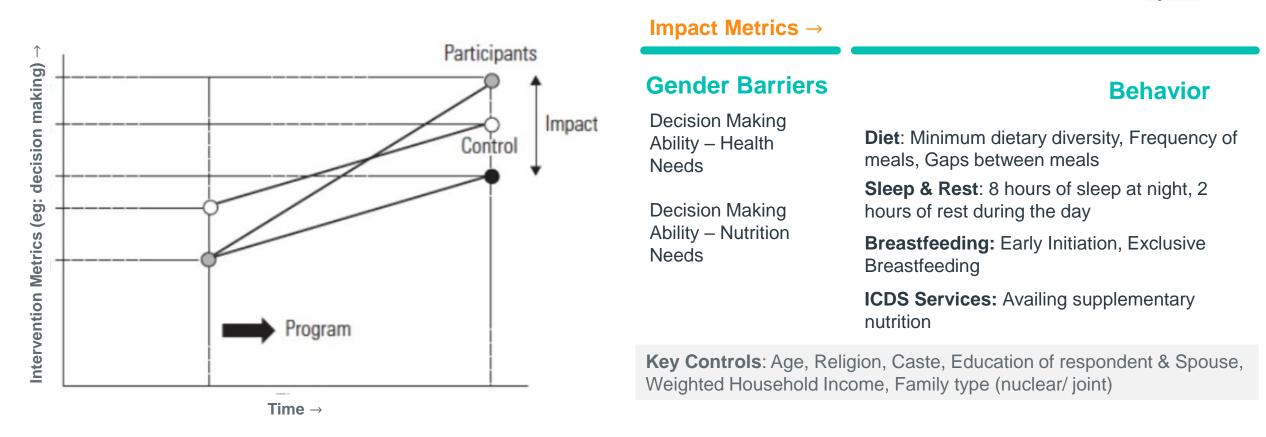




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Difference-in-Difference (DiD) Methodology

It is important to recognize that non-interventional areas were performing better than interventional areas in certain aspects. Also, the key demographics such as income and education are different between the two groups and will need to be controlled for.



Note: The KAB model clarifies the mechanism by which the interventions affect key outcomes. The end-line second order analysis focusses primarily on measuring the impact rather than explaining how the impact was achieved.

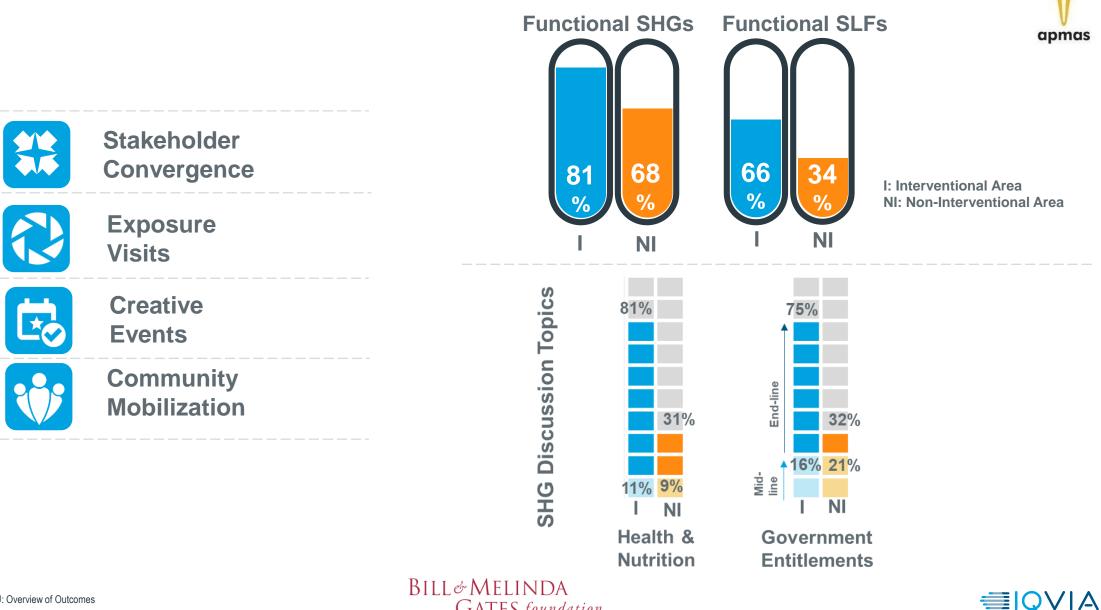


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SHG-SLF Revival (& Awareness)

Focused interventions in MARPU increased active SHGs and sensitized them on the importance of Health & Nutrition



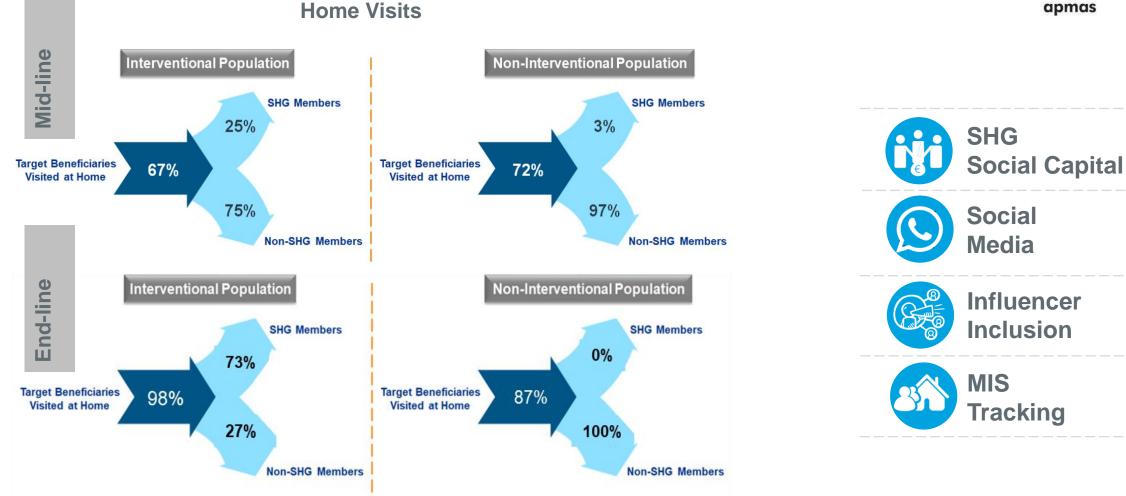
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Intervention Coverage

SHGs social capital enabled them to reach the uncovered population





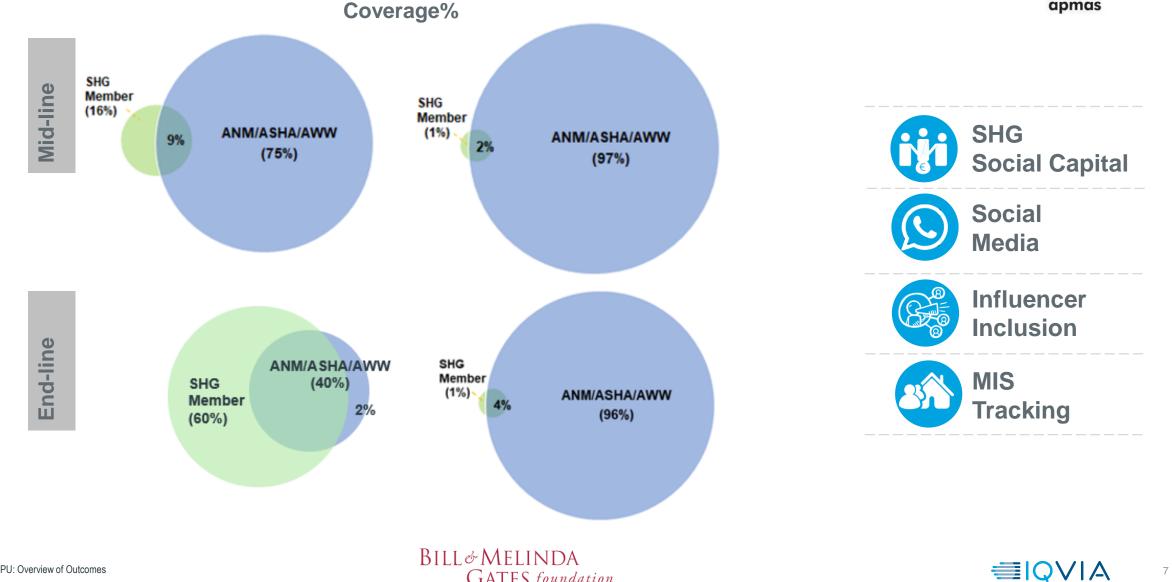
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Intervention Coverage

SHGs social capital enabled them to reach the uncovered population





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Self-Perception & Decision Making Autonomy

PLW now understand the importance of their health and wellness. MARPU interventions supplemented efforts of similar government interventions..





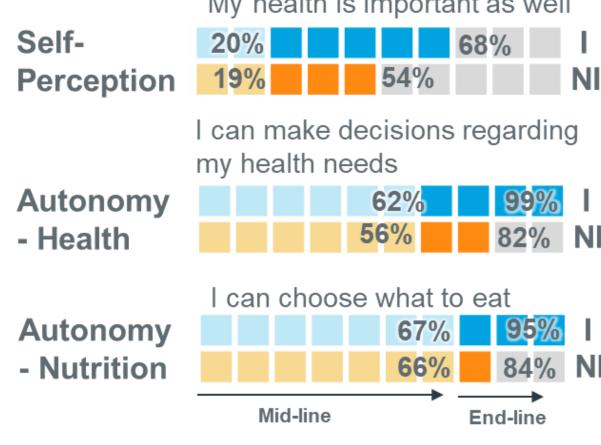
Gender Training

Family

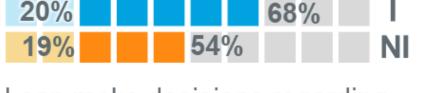
Support

Knowledge & Awareness

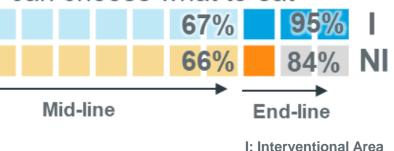
Innovative **Solutions**



My health is important as well



NI



NI: Non-Interventional Area



Self-Perception & Decision Making Autonomy

Diff-in-Diff

PLW now understand the importance of their health and wellness. MARPU interventions supplemented efforts of similar government interventions..





Gender Training

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Knowledge & Awareness

Family

Support

Innovative **Solutions**

Autonomy to make health related decisions increased by 9.5%

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| DIFFERENCE-IN-DI | FFERENCES I | STIMATION | RESULTS | |
|--|-------------------------|------------|---------|----------|
| Number of observ | ations in t | the DIFF-I | N-DIFF: | 1600 |
| Befo | re | After | | |
| Control: 380 | | 414 | 794 | |
| Treated: 412 | | 394 | 806 | |
| 792 | | 808 | | |
| Outcome var. | Health Autonomy | S. Err. | t | P> t |
| Mid-Line (Jun 2019) | | | | |
| Non-Interventional Areas (NI) Interventional Areas (I) Difference (I – NI) End-Line (Feb 2020) | 0.553 0.624 0.071 | 0.030 | 2.37 | 0.018** |
| Non-Interventional Areas (NI) Interventional Areas (I) Difference (I – NI) | 0.818 0.985 0.167 | 0.030 | 5.60 | 0.000*** |
| | | | | |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1

0.042

Autonomy to make nutrition related decisions increased by 7.8%

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| | Number of of | | | the DIFF-I | N-DIFF: 1 | 600 |
|----------|-------------------|--------|-----------------------|------------|-----------|----------|
| | | Befo: | re | After | | |
| | Control: | 380 | | 414 | 794 | |
| | Treated: | 412 | | 394 | 806 | |
| | | 792 | | 808 | | |
| | Outcome van | r. | Nutrition Autonomy | S. Err. | ltl | P> t |
| | Mid-Line (Jun 2 | 019) | | | | |
| Non-Inte | erventional Areas | (NI) | 0.641 | | | |
| | terventional Area | · / | 0.667 | | | |
| | Difference (I | · · / | 0.026 | 0.030 | 0.88 | 0.380 |
| | End-Line (Feb 2 | 020) | | | | |
| Non-Inte | erventional Areas | ; (NI) | 0.845 | | | |
| | terventional Area | · / | 0.950 | | | |
| | Difference (I | – NI) | 0.104 | 0.029 | 3.54 | 0.000*** |
| | 1 | | | | | |
| | | | | | | |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1



2.26

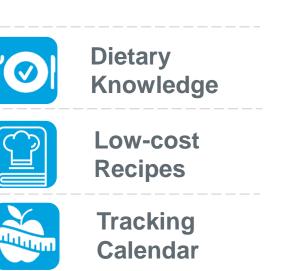
0.024**

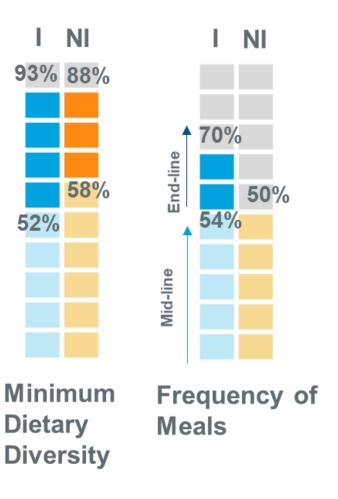


Dietary Diversity

Women ate more frequently and dietary diversity improved







Minimum dietary diversity increased by 11.5%

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | Dietary Diversity | S. Err. | 151 | P> t |
|--------------|----------------------|---------|------|---------|
| Diff-in-Diff | 0.115 | 0.047 | 2.44 | 0.015** |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1

13.7% more women ate at least 4 times a day (frequency)

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | Meal Frequency | S. Err. | t | P> t |
|--------------|-------------------|---------|------|---------|
| Diff-in-Diff | 0.137 | 0.056 | 2.46 | 0.014** |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1

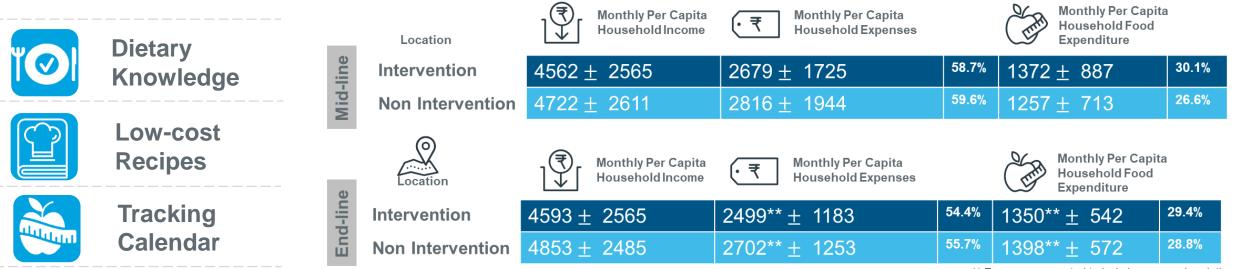




Dietary Diversity

Improved dietary diversity wasn't an outcome of increased expenses





** Expenses corrected to include seasonal variations

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Breastfeeding: Early Initiation & Exclusive

Respondents showed clear understanding of early initiation of breast feeding and significant improvements were seen in exclusive breastfeeding



97%

Increased Knowledge Improved exclusive breast-feeding practices



95% Ea

Early Initiation of Breastfeeding

Over 95% of lactating women in interventional areas identified the advantages of early initiation of breastfeeding. A 25% increase from the midline survey.

87% (20% more than the midline) of the respondents from Non-interventional areas also showed clear understanding

Exclusive Breast-feeding

97% of lactating women were advised on the importance of exclusive breastfeeding – almost a 60% increase from the mid-line.

Non interventional areas saw a similar increase in counselling as well.

18.3% more women practice exclusive breast-feeding

Almost 75% of women initiate breast-feeding early. There were no statistically significant differences between interventional and non interventional areas though w.r.t early initiation.

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | Exclusive Breact-Feeding | S. Err. | ItI | ₽> t |
|--------------|-----------------------------|---------|------|--------|
| Diff-in-Diff | 0.183 | 0.110 | 1.67 | 0.096* |





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Sleep, Rest & ICDS Services

Improvement in sleep, rest and availing ICDS services were due to consistent grassroots efforts



6.2% more women slept for at least 8 hours at night

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | 8-Hours Sleep | S. Err. | ltl | P> t |
|--------------|------------------|---------|------|---------|
| Diff-in-Diff | 0.062 | 0.029 | 2.14 | 0.032** |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1

8.9% more women rested for at least 2 hours during the day

DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | 2-Hours Rest | S. Err. | t | P> t |
|--------------|-----------------|---------|------|----------|
| Diff-in-Diff | 0.089 | 0.034 | 2.60 | 0.010*** |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1



Addressing Taboos



Stakeholder Convergence



Citizen Inspections





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Sleep, Rest & ICDS Services

ICDS services are availed by over 90% of the respondents. Both – public grassroots workers and SHGs have ensured 100% coverage.



DIFFERENCE-IN-DIFFERENCES WITH COVARIATES

| Outcome var. | ICDS Utilisation | S. Err. | 151 | P> t |
|--------------|---------------------|---------|------|---------|
| Diff-in-Diff | 0.074 | 0.034 | 2.19 | 0.028** |

* Means and Standard Errors are estimated by linear regression **Inference: *** p<0.01; ** p<0.05; * p<0.1



Addressing Taboos

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Stakeholder Convergence



Citizen Inspections



Family Support





What next?

Policy Briefs



- Utilising SHGs Social Capital
- Leveraging the Community Resource Person
- Counselling Influencers
- Convergence
- Technology

Public Dissemination



- Social Media
- Webinars & Online Conferences
- Presentations





- SHG impact on social change
- Decision Making Autonomy of Women
- Developing Community Leaders

Scale-Up



Will be discussed next





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Thank you