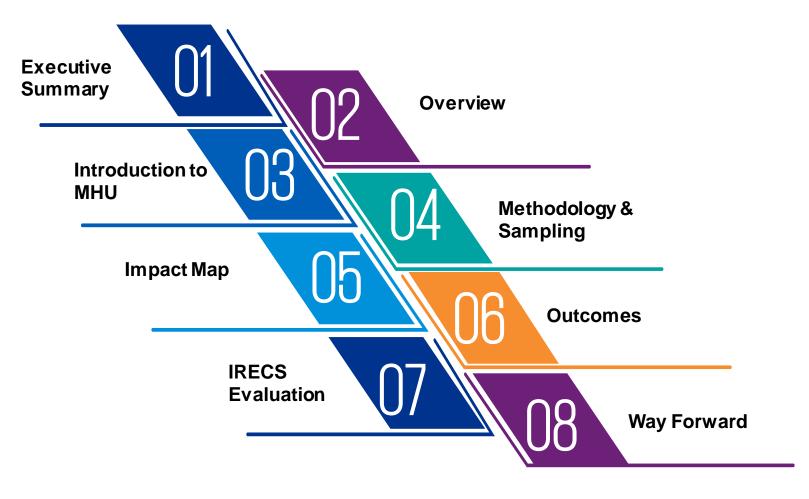


# Mobile Health Unit: Primary Health care at Doorstep

NAM India - Deepak Foundation

Assessing the impact on prime key parameter January 2023

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## Executive Summary



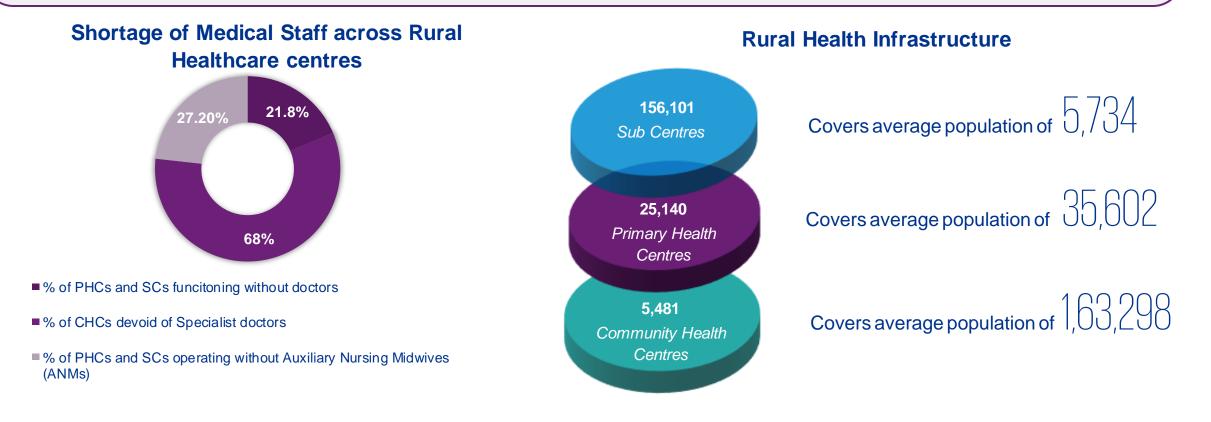
| Project Goals  |                                | Accessing diagnostic tests/consultation   | Accessing Medicines &<br>Immunisation                                  | Referral & Awareness<br>Generation   | Beneficiaries reported the following reasons for satisfaction –  |  |  |
|--|--------------------------------|---|--|--|--|--|--|
| to vulnerable sections of a<br>To address issues related<br>accessibility and knowled<br>healthcare, malnutrition, a<br>family planning. | society<br>I to poor<br>ge for | <b>80%</b><br>of the participants attribute<br>the credit to MHU for<br>preventive health measures<br>taken by them | <b>85%</b><br>respondents received<br>medication after<br>consultation | <b>59%</b><br>of respondents who were<br>referred for higher<br>treatment availed the<br>services                | <ul> <li>✓ Free medicines</li> <li>✓ Effective medicines</li> <li>✓ Accessibility of the medical services</li> <li>✓ Good consultation services</li> </ul> Key Recommendations |  |  |
| <ul> <li>To create awareness on disease prevention and behavioral change</li> <li>Total Beneficiaries: 26,749</li> </ul>                 |                                | <b>73%</b><br>respondents availed the<br>diagnostic tests provided by<br>MHU  | <b>100%</b><br>respondents who received<br>medicines got-it for free   | <b>93%</b><br>respondents were referred<br>for immunisation camps of<br>which <b>96%</b> participated in<br>them | <ul> <li>Continuance of the programme requested by the community</li> <li>Inclusion of health educational initiatives eg: on</li> </ul>  |  |  |
| Beneficiaries type   | Achieved                       |   |  |  | free of cost insurance<br>schemes available by   |  |  |
| Primary Healthcare   | 110                            | 97%   | 100%   | 68%  | Government of India/State<br>government etc. may be  |  |  |
| Anaemia Program8Community Mobilisers5Total123  |                                | respondents who received support were satisfied with  | respondents who received<br>medicines reported relief<br>due to them   | respondents participated in  | included   |  |  |
|  |                                | doctor consultation   |  | awareness generation & family planning camps   |  |  |  |
|  |                                |   |  |  |  |  |  |

#### Overview : Healthcare in Rural India

#### <u>02</u>

#### **Global Statistics**

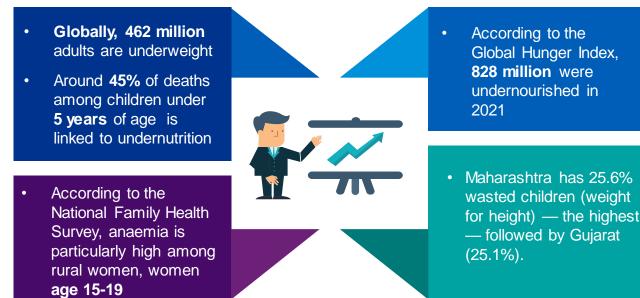
- **30%** of the world's population does not have access to essential health services
- Approximately **25 million** children under 5 years missed out on routine immunisation
- Among the Top 10 causes of death, **7** were caused due to non-communicable diseases
- □ In 2019, **74%** of deaths were due to non-communicable diseases



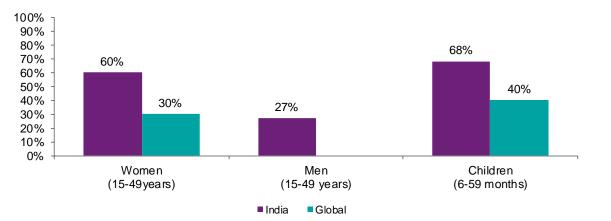
#### Overview : Anaemia



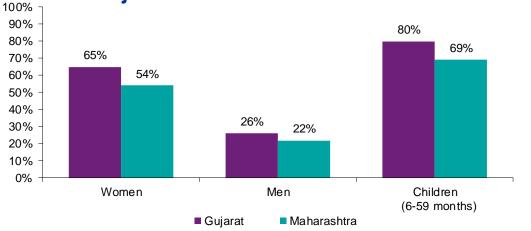
#### **Global Statistics**



#### Anaemia Rate: India and Global



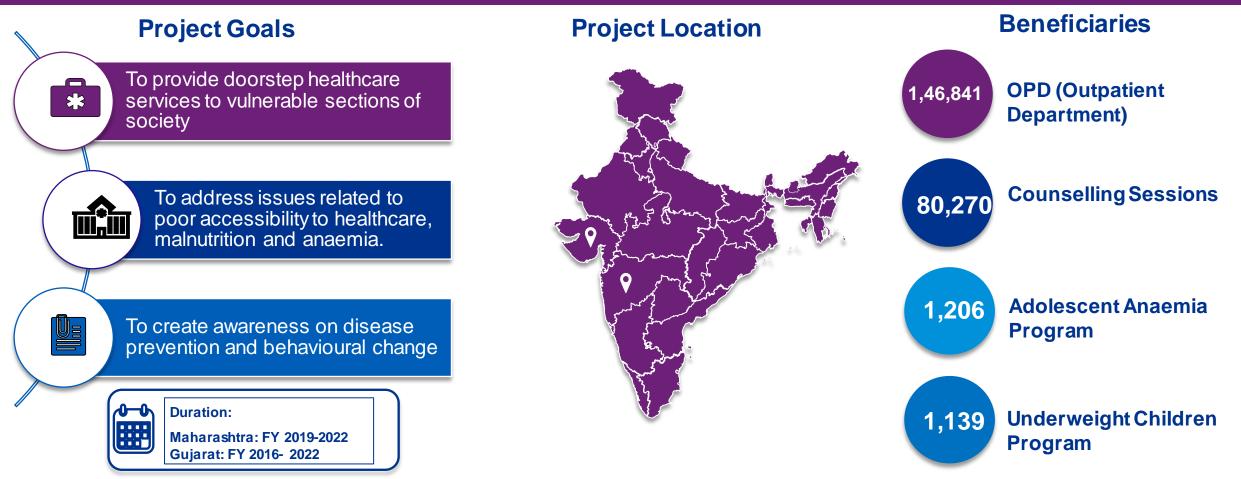
#### Prevalence of Anaemia (mild to severe) in Gujarat and Maharashtra



#### Interventions by government of India

- The government of India has launched the Anaemia Mukht Bharat programme under which Iron and Folic acid (IFA) supplements are given to children, adolescents and women of reproductive age and pregnant women irrespective of anemia.
- The government of India has implemented several schemes to improve nutritional outcomes in children such as Scheme for Adolescent Girls and Pradhan Mantri Matru Vandana Yojana (PMMVY), POSHAN Abhiyaan.

### Introduction to Mobile Health Unit: Primary Health care at Doorstep 03

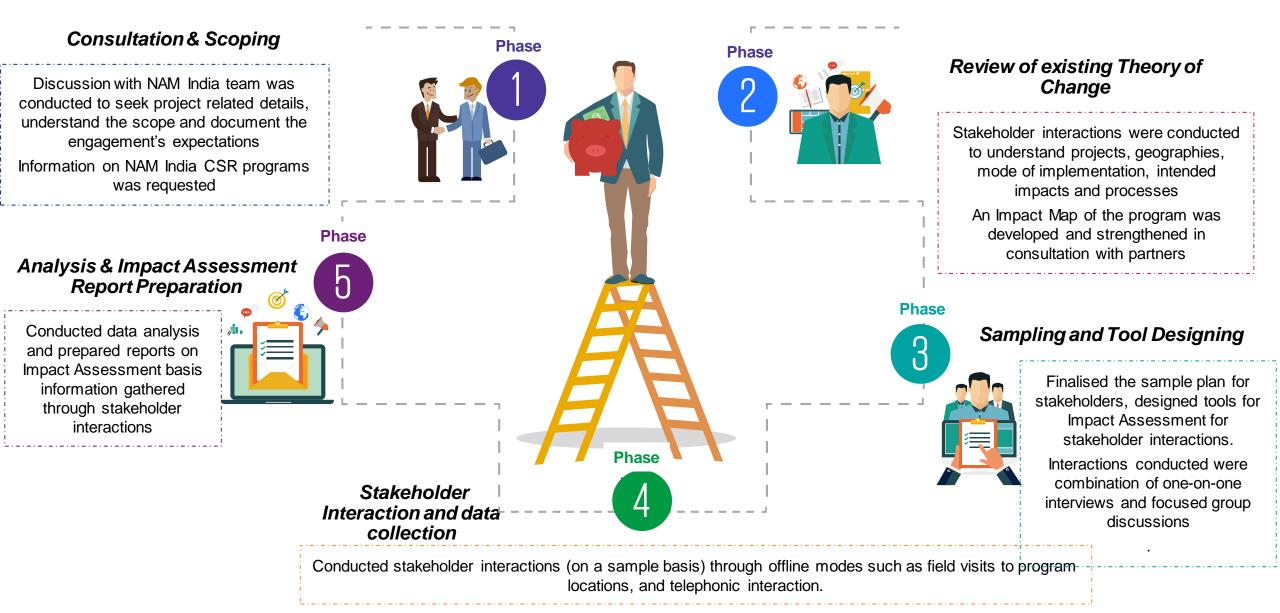


Mobile Health Unit (MHU) operates from 9 am to 5 pm for 5 days a week covering 30 - 35 villages in a month. The MHU staff has a Medical Officer, nurse, counsellor, data entry operator and a driver. Each day the MHU covered 2-3 villages in the blocks Kawant and Paithan in Gujarat and Maharashtra respectively.

The project on healthcare was implemented by the partner organisation with funding by NAM India. The impact assessment study aims to capture the overall impact of the programme on beneficiaries in the targeted geographies.

#### Methodology





### Sampling

- Primary research was conducted through a qualitative and quantitative online survey with target beneficiaries.
- Stratified Random sampling was utilized to select treatment group respondents for the survey. The objective was to ensure 95% confidence level with 7% margin of error.
- This approach along with sampling methodology helped guarantee optimum possible representation of the universe across geographies. All responses were captured through one-on-one surveys which included multiple choice questions along with couple of qualitative questions designed specific to the intended outcomes of the program.
- 124 beneficiaries were covered in the study through one-on-one interaction. Thus, a confidence level of 90% and margin of error of ~7% was achieved for the study.
- An interaction was conducted with Deepak Foundation to understand the benefits and areas of improvement evidenced by them.

| Beneficiary Interacted      |                      |  |  |  |  |
|-----------------------------|----------------------|--|--|--|--|
| Stakeholders                | Interviews Completed |  |  |  |  |
| Beneficiaries – General     | 110                  |  |  |  |  |
| Beneficiaries – Anaemia     | 8                    |  |  |  |  |
| Beneficiaries – Underweight | 2                    |  |  |  |  |
| Community Mobilisers        | 5                    |  |  |  |  |

| Location    | Beneficiary Count |  |  |  |  |
|-------------|-------------------|--|--|--|--|
| Bagaliya    | 8                 |  |  |  |  |
| Chanakwadi  | 10                |  |  |  |  |
| Ismailpur   | 16                |  |  |  |  |
| Khatiyavant | 10                |  |  |  |  |
| Naigaon     | 18                |  |  |  |  |
| Natkarwadi  | 12                |  |  |  |  |
| Saigaon     | 12                |  |  |  |  |
| Nandar      | 22                |  |  |  |  |



### Impact Map: Part 1

| Stakeholder<br>Contribution   | Input  | Output   | Outcome  | Impact   |
|---|--|--|--|--|
|   |  | Beneficiaries accessing diagnostic tests/consultation  |  |  |
|   | Outpatient Department (OPD)                                  | Beneficiaries availing medicines                       |  | Improved Healthcare access to                                  |
|   | Outpatient Department (OF D)                                 | Reduction in 'wage losses due to poor health'          |  | community  |
| Money & Physical Infrastructure<br>under Mobile Health Center project |  | Borrowing Avoidance                                    | Improved access to health services<br>or diagnostic services   |  |
|   | Immunisation Camps   | Improved immunisation among community                  |  | Improved health/ resistance of illness among beneficiaries     |
|   | Providing Referral services for health services              | Beneficiaries approaching health centers for treatment |  | Improved Healthcare access to community                        |
|   | Awareness generation: Information<br>Education Communication | Improved knowledge among community                     | Improvement in attitude towards healthcare among beneficiaries | Improvement in practies towards healthcare among beneficiaries |

Note : The above impact map has been prepared by third-party in consultation with Deepak Foundation

### Impact Map: Part 2

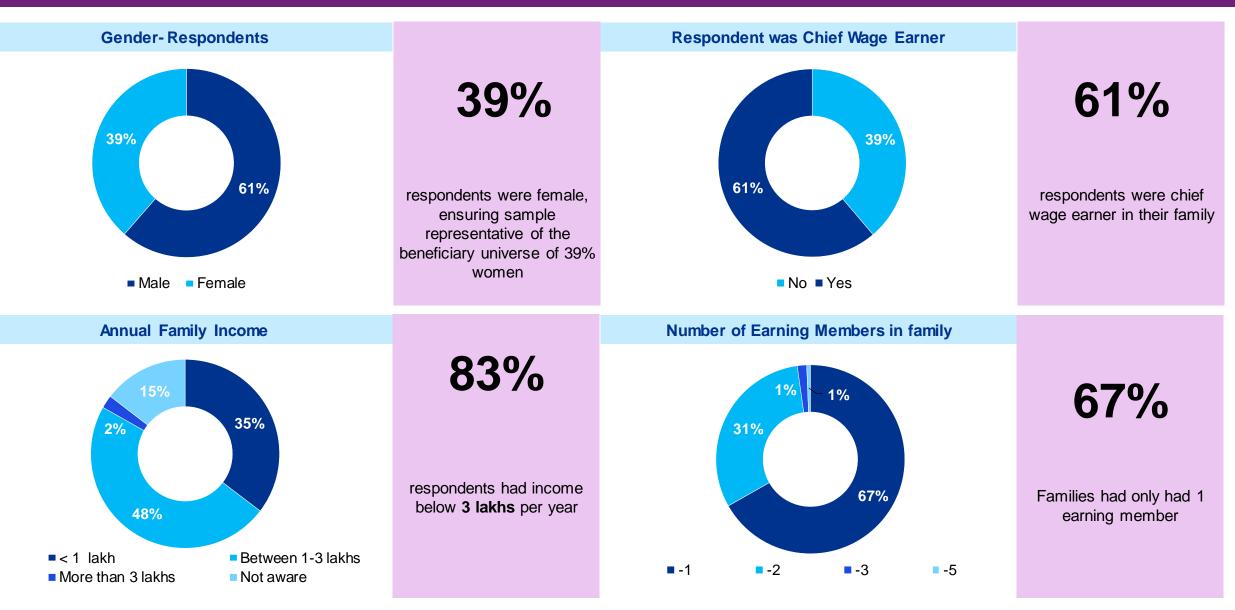


| Stakeholder<br>Contribution  | Input   | Output   | Outcome   | Impact  |  |
|--|---|--|---|---|--|
|  | Family planning services                      | Improved knowledge among community                       |   | Improvement in practices among<br>community regarding in family<br>planning         |  |
|  | Adoloscopt Apagmia Program                    | Reduction in number of anaemic population                | Improvement in attitude towards   | Improved health care practices<br>among adolescent children                         |  |
| Money & Physical Infrastructure<br>under Mobile Health Center<br>project | Adolescent Anaemia Program                    | Improved knowledge regarding<br>anaemia in beneficiaries | healthcare among beneficiaries  |   |  |
|  | Underweight Children Program<br>(SMN Program) | Improved knowledge among community                       |   | Improvement in practices among community regarding in nutrition and diet            |  |
|  | Capacity building of community mobilisers     | Enhancement of knowledge among community mobilisers      | Improvement in attitude towards<br>public health care among<br>community mobilisers | Improvement in desired public<br>healthcare practices among<br>community mobilisers |  |

Note : The above impact map has been prepared by third-party in consultation with Deepak Foundation

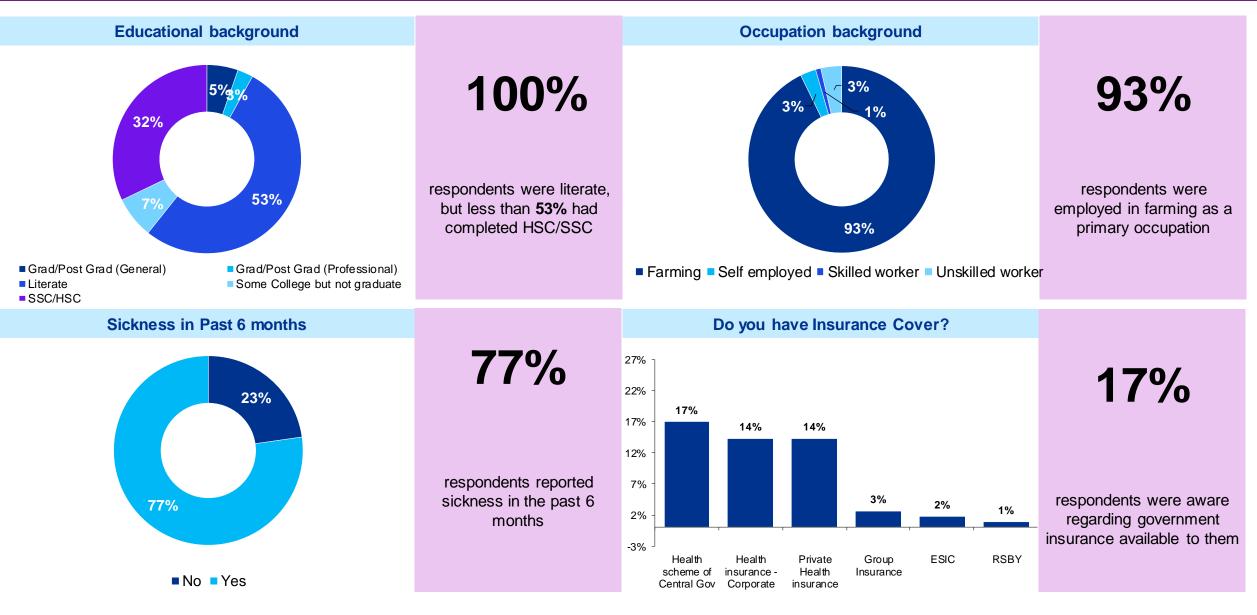
#### Respondent's Profile





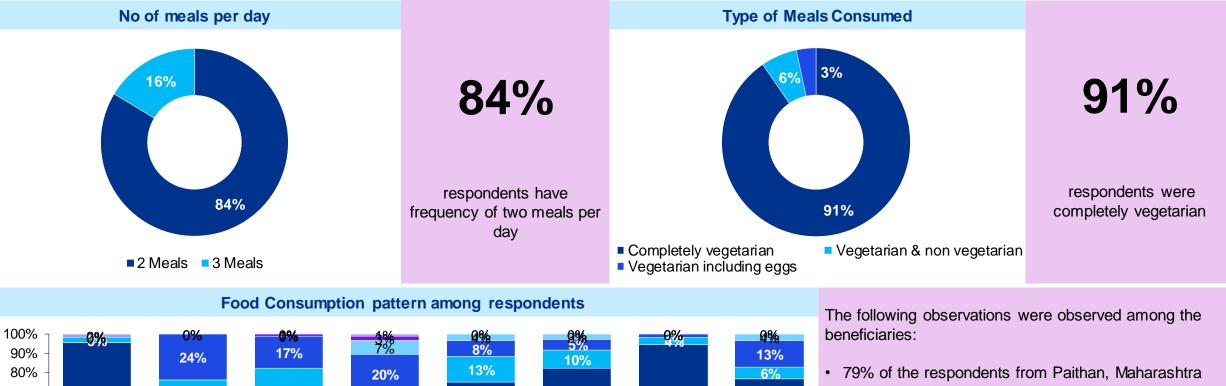
#### Respondent's Profile





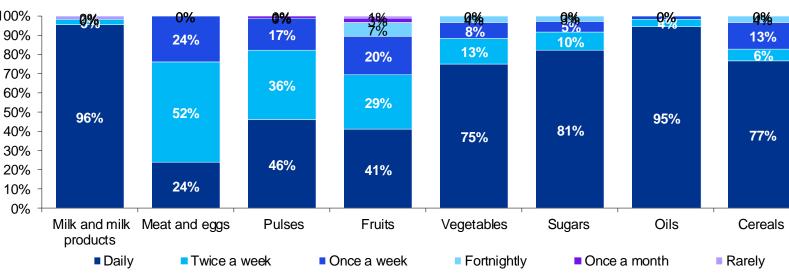
### Respondent's Profile : Food Consumption Patterns





- were vegetarian and 6.5% consumed eggs
- 99% of the respondents from Kawant, Gujarat were vegetarian
- 6% have eggs in their diet and 15 % have non-veg food in their diet.
- 82% respondents have pulse more than twice in their diet

96% have milk and its products daily in their diet



13

#### General Healthcare

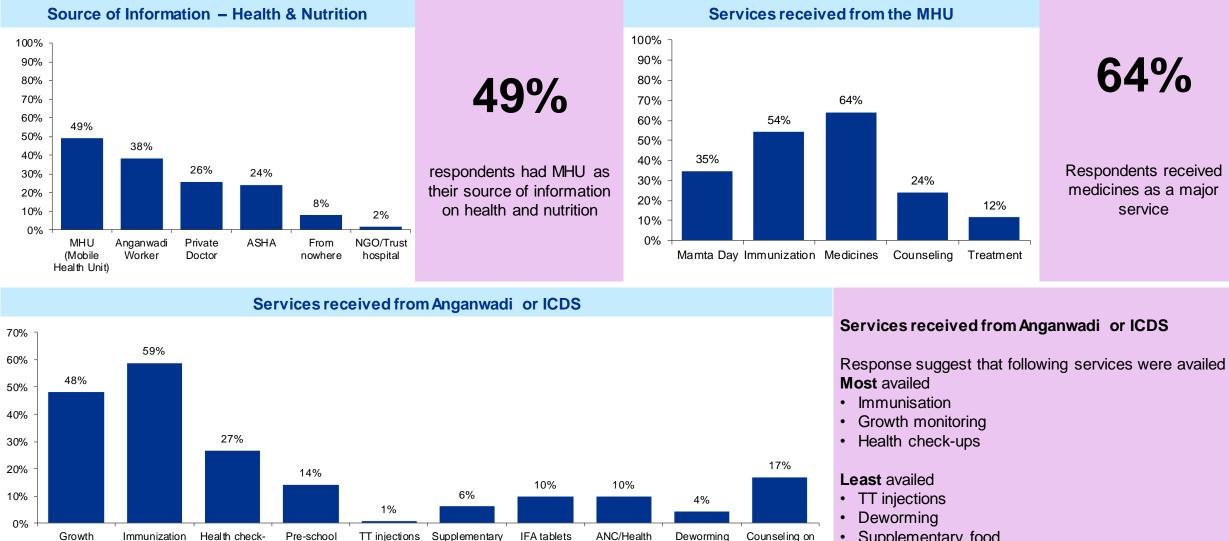
monitoring

education

ups

food





check up

Supplementary food

Health and

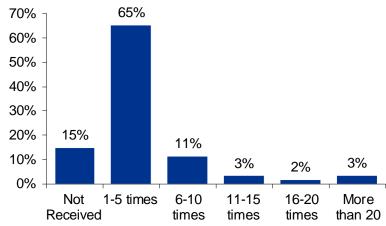
Nutrition education

### Outcome : Access to Healthcare

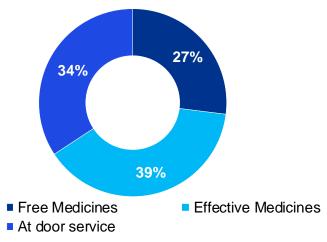


| <b>••</b> •   |   | Have you availed MHU Support?  | Num   |
|---|---|--------------------------------|---|
| 85%<br>respondents received<br>support from Deepak<br>foundation MHU  | <b>100%</b><br>respondents received<br>consultation for free  | 15%                            | 70% -<br>60% -<br>50% -                           |
| <b>85%</b><br>respondents were<br>satisfied with doctor<br>consultation provided                                  | <b>98%</b><br>respondents received<br>medicines after<br>consultation                               | 85%<br>• Yes • No              | 40% -<br>30% -<br>20% - 1<br>10% -<br>0% -<br>Red |
| <b>100%</b><br>respondents who<br>received medicines<br>reported relief   | <b>96%</b><br>respondents felt they<br>received proper<br>instructions for<br>medicines consumption | Satisfaction with Consultation |   |
| eneficiaries reported th<br>itisfaction –<br>Free medicines<br>Effective medicines,<br>Proximity to the medicines | e following reasons for   | 79%                            |   |

#### Number of time Services availed at MHU

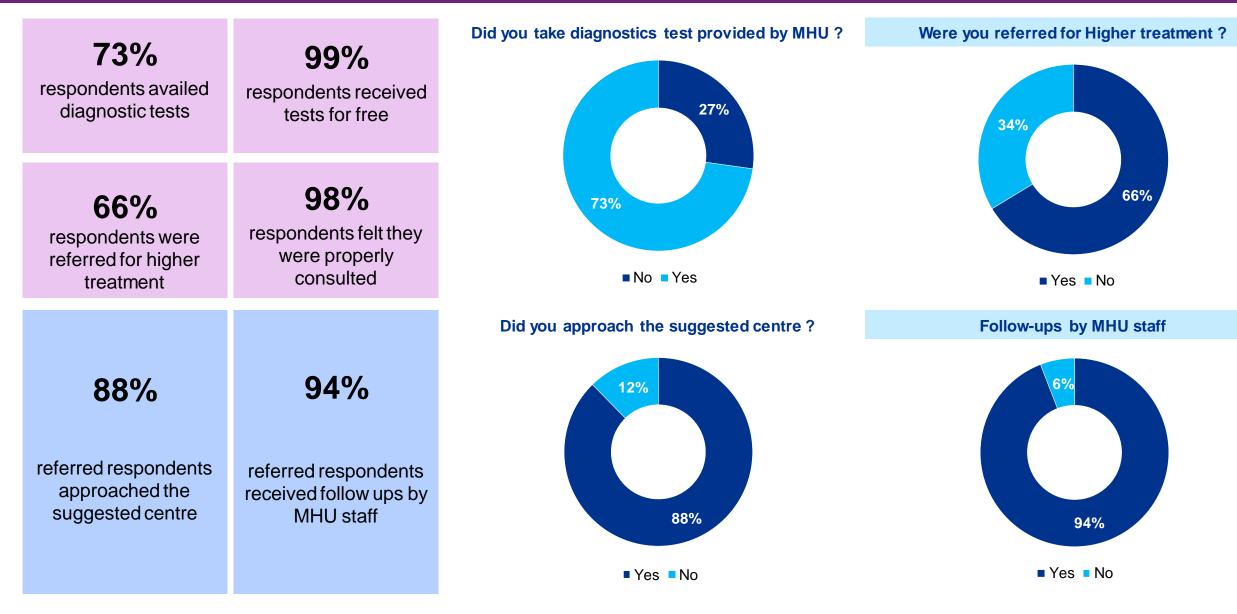


**Reason for Satisfaction** 



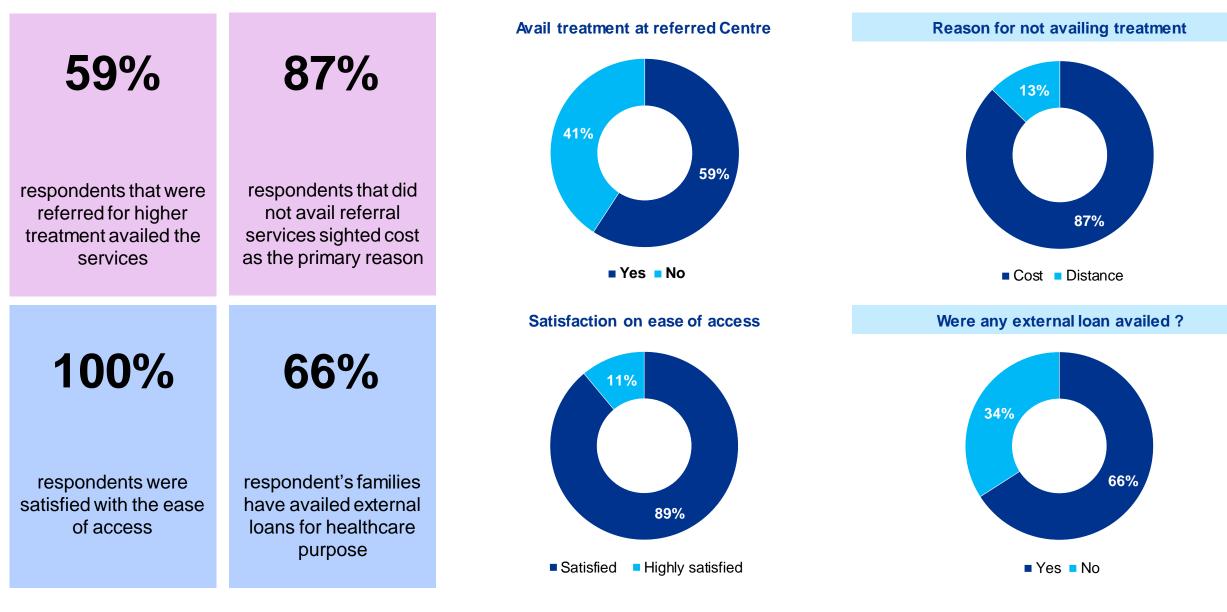
### Outcome : Referral for Higher Medical Services





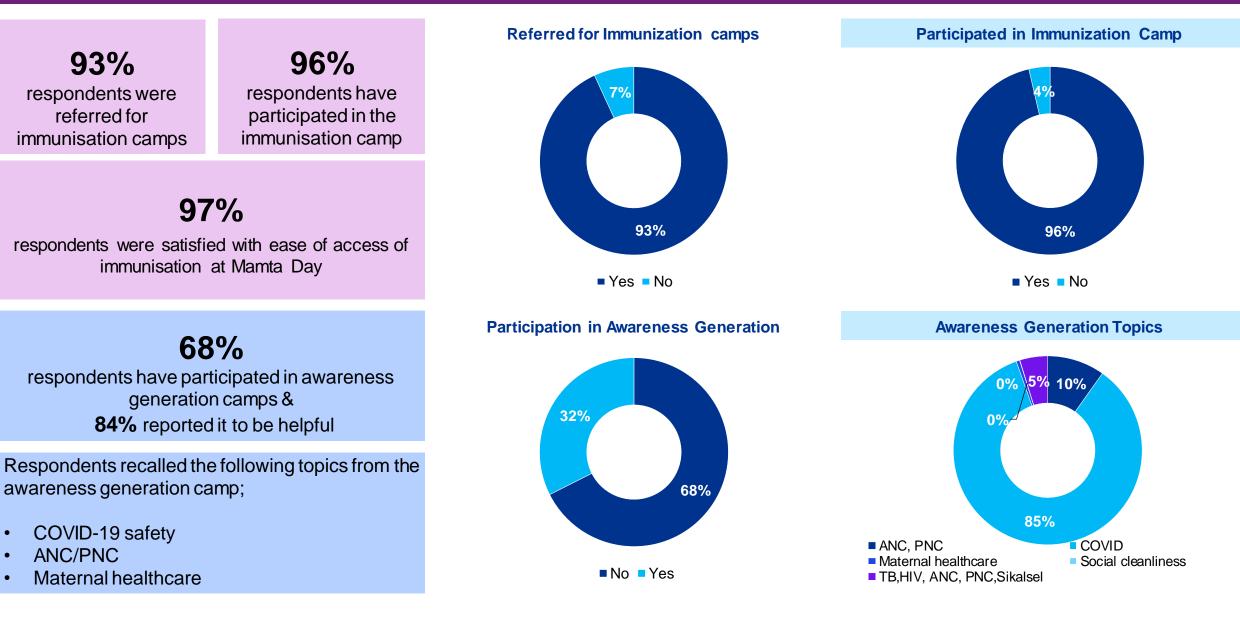
### Outcome : Referral & Ease of Access





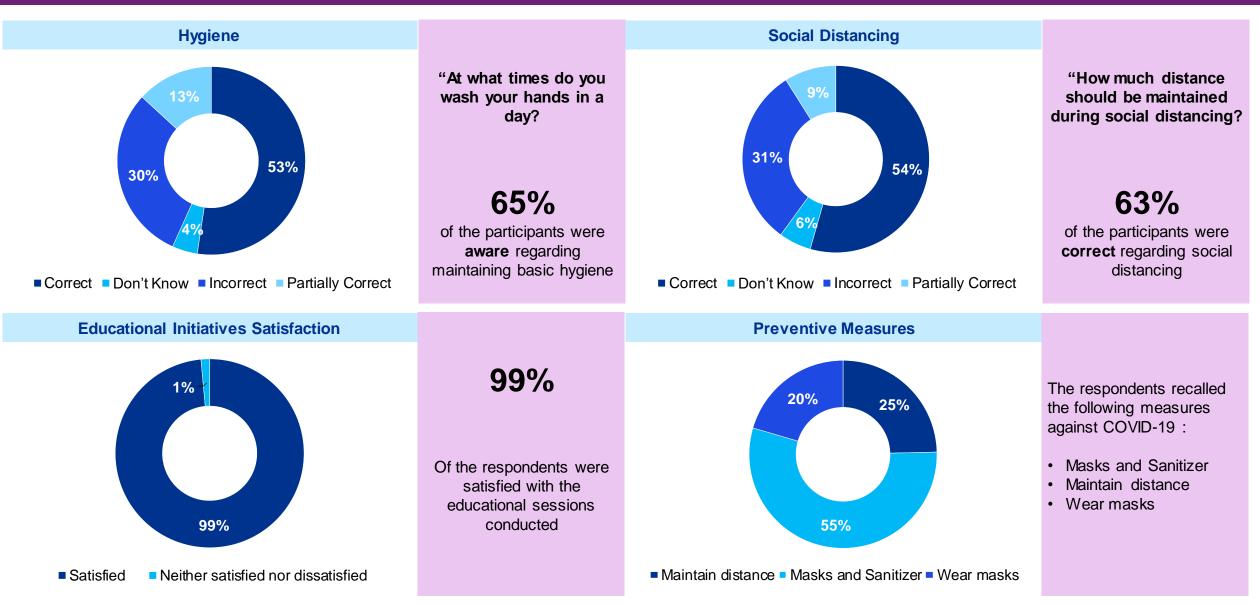
### Outcome : Immunization Camps





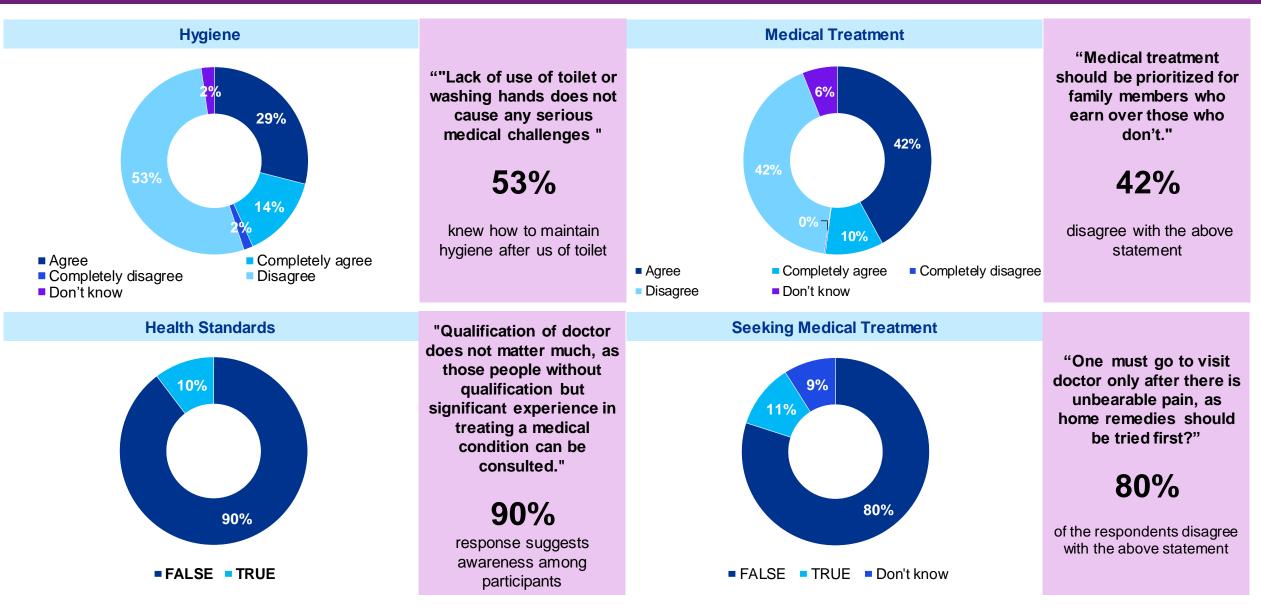
#### Outcome : Knowledge, Attitude and Practice





#### Outcome : KAP Healthcare

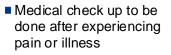




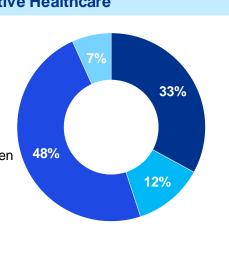
#### Outcome : KAP Preventive Healthcare







- Medical checkup after being recommended by doctor
- Medical checkup undertaken voluntarily to understand measures needed for disease prevention Don't know

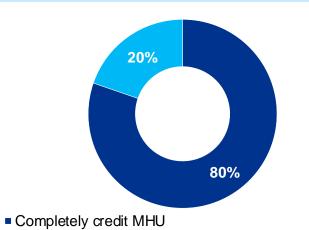


"What is preventive health check up?"

48%

have awareness regarding maintaining basic hygiene

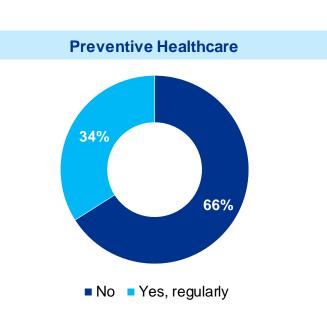




Partly to MHU and remaining to other education drives

80%

Of the participants attribute the credit to MHU for preventive health measures taken by them



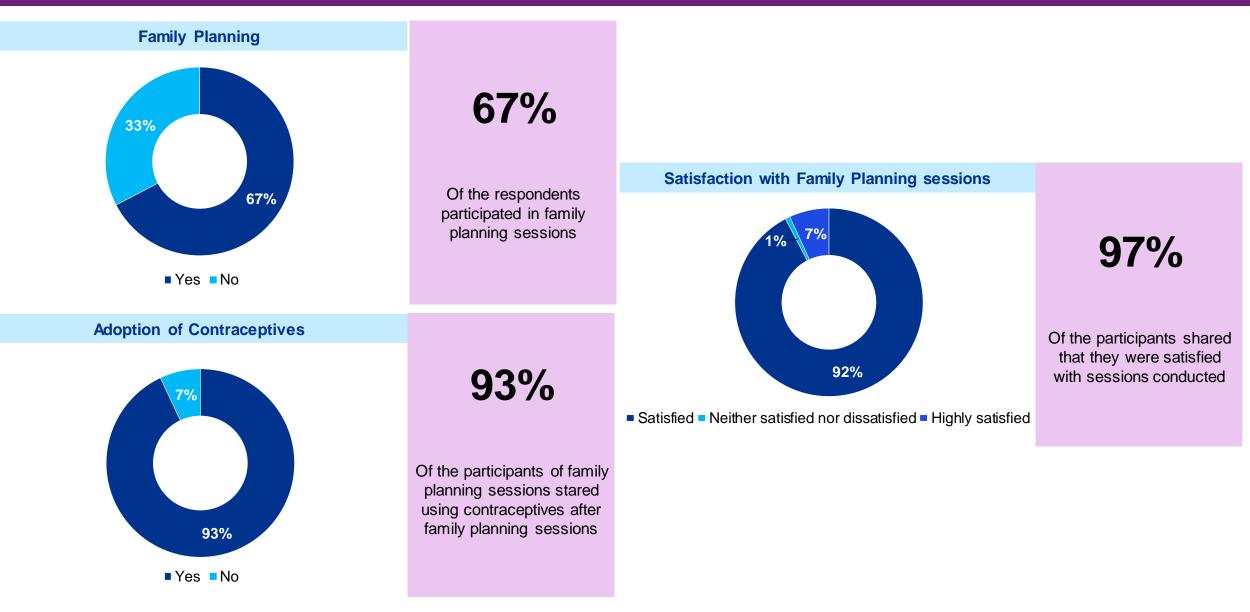
"Do you visit health centers for regular medical checkup as a preventive measure?"

#### 33%

Of the respondents regularly visit the healthcare centre for preventive care

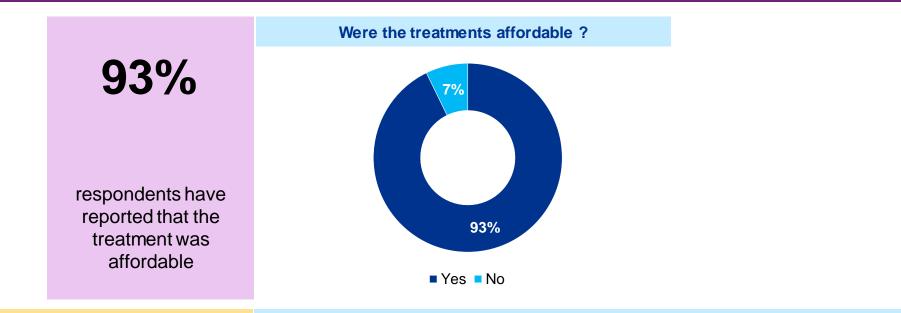
### Outcome : KAP Family Planning





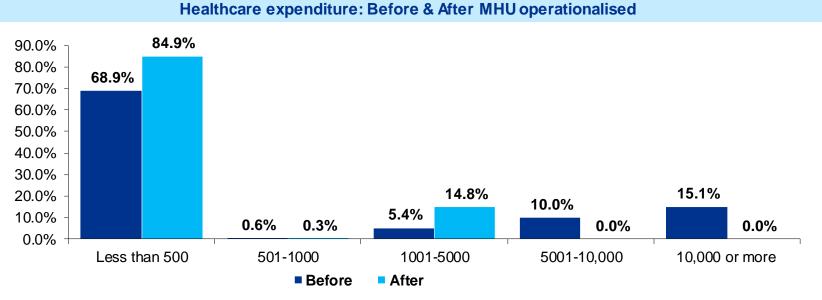
### Outcome : Healthcare Expenditure





The Healthcare expenditure of respondents before and after the MHU has operationalised in the villages:

- Significant reduction in healthcare spending is observed
- Reduced spending by 25% in INR 5000 or more category



### Community Mobiliser: Training & Perception



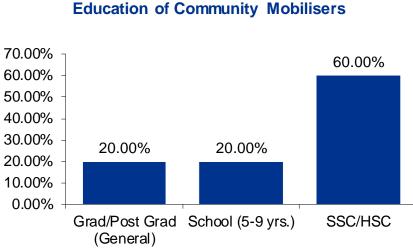


The following change in perception of community mobilisers was observed:

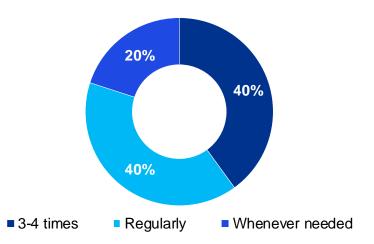
 40% had recall and understanding on information shared

The following topics were recalled on which training was conducted on:

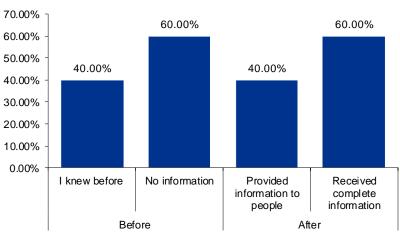
- Maternal care, ANC, PNC,
- COVID-19, Anemia, TB, HIV
- Siklecell disease



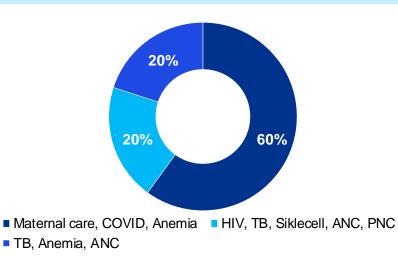
#### Hand Wash Frequency



#### Change in Perception regarding Family planning



How to improve iron status of our body?



### Community Mobiliser : Knowledge, Attitude and Practice



|  |   |   | Anemia training   |   |  |  |  | Who are at risk of iron deficiency?                                 |   |   |  |  |               |
|--|---|---|---|---|--|--|--|---|---|---|--|--|---------------|
|  | 59%.<br>respondents that were<br>referred for higher<br>treatment availed the<br>services | <b>87%</b><br>respondents that did<br>not avail services<br>sighted cost as the<br>primary reason   | 100% -<br>90% -<br>80% -<br>70% -<br>60% -<br>50% -<br>10% -<br>10% -<br>0% -<br>About<br>Anaemia | 100%<br>Causes of<br>Anaemia<br>■ Yes ■ N | 100%<br>Symptoms of<br>Anaemia                       | 40%<br>60%<br>Benefits of<br>taking IFA<br>tablets | 40%<br>60%<br>Side-effects of<br>IFA tablets | 70% -<br>60% -<br>50% -<br>30% -<br>20% -<br>10% -                  | 40%<br>Adolescent<br>boys   | 60%<br>Unmarried<br>Adolescent<br>Girls | 20%<br>Married<br>Adolescent<br>Girls<br>■ Yes | 20%<br>Adolescents                                 | 20%<br>Kids   |
|  |   |   |   | Symptoms                                  | of Iron De   | ficiency   |  |   | How to  | improve i                               | ron statu                                      | s of our bo  | dy?           |
|  | <b>60%</b><br>respondents were able<br>to identify symptoms of<br>iron deficiency with    | <b>100%</b><br>respondents were able<br>to recall ways to<br>improve the iron status<br>of the body | 100%<br>90%<br>80%<br>70%<br>60%<br>50%<br>40%<br>30%<br>20%<br>10%<br>0%                         | <b>20%</b><br>80%                         | 60%<br>40%   | <b>40%</b><br>60%                                  | 60%<br>40%                                   | 1009<br>909<br>809<br>709<br>609<br>509<br>409<br>309<br>209<br>109 | 6 - 60%<br>6 - 60 | 100%<br>Eating Ta<br>green leafy        | aking iron <sup>'</sup> Con:                   | 20% 20%  | -             |
|  | high accuracy   |   | Fatigue   | e Weakness                                | <ul><li>Shortness of breath</li><li>Yes No</li></ul> | Decreased<br>appetite /<br>hunger                  | All of the above                             |   | like orange,<br>amla,<br>tomatoes   | • •                                     |  | ggs and lenti<br>like chan<br>kala chan<br>soyabea | s<br>a,<br>a, |

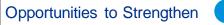


#### The following are the limitations of the study :

- The study is limited to the data of beneficiaries as shared by Deepak Foundation with respect to their privacy policy
- > The study is limited to recall of the participants
- Some beneficiaries were reached with support of Deepak Foundation team

### **IRECS Evaluation**

| Component      | Remark   |  |  |  |  |  |  |  |
|----------------|--|--|--|--|--|--|--|--|
| Inclusiveness  | •The programme covered all stakeholders critical for ensuring successful implementation community healthcare initiative in remote rural geographies  |  |  |  |  |  |  |  |
| Relevance      | •The programme has provided services to marginalized tribal community members, who have benefitted from village level healthcare services.   |  |  |  |  |  |  |  |
| Effectiveness  | <ul> <li>The feedback generated in consultation with multiple stakeholders have helped conclude that the programme has been effective in providing access to healthcare with consultation, medicines and follow-ups for secondary referral and awarnes of issues</li> <li>Addition of health awareness sessions to the existing program would build preventive and promotive health activities, thereby adoption of good health practices by the community members.</li> </ul> |  |  |  |  |  |  |  |
| Convergence    | <ul> <li>The project team has been able converge with PHC, Asha and Anganwadi workers to provide primary health services to the community members</li> <li>The project team needs to identify if there is an avenue to incorporate linkages to any government schemes, institutions or departments for scaling impact</li> </ul>   |  |  |  |  |  |  |  |
| Sustainability | • For the programme to be sustainable the programme needs to identify ways to implement and expand the program<br>further by searching alternate ways of funding and implementation as requested by community members  |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |  |





#### **Project Design**

- **Impact Map** should be finalised by partner organisation before project implementation.
- Frequency of the MHU is highly requested to be increased
- Inclusion of health educational initiatives regarding free of cost insurance schemes available by Government of India/ State government etc.
- It is requested by beneficiaries to restart the program.



#### **Project Scale-up**

Health awareness sessions and screening drives for NCDs, dental ailments, anemic status in the community for improvement in areas of service delivery of the program

#### **Sustainability**

For the programme to be sustainable the programme needs to identify ways to implement and expand the programme further by searching alternate ways of funding and implementation





#### References







# Mobile Health Unit: Primary Health care at Doorstep

**Deepak Foundation** 

Assessing the impact on prime key parameter