Technology model for
Mobile Eldercare Unit (MEU)
Pilot Project in Shimla District, Himachal Pradesh

GOVERNMENT OF INDIA
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www.helpageindia.org
Programme on Technology for Elderly

- Govt of India Programme
- Department of Science and Technology
- Funding of 100 million US $ promised by Govt
- Funding for incubating models available
Background work

- Survey by Ministry
- Assistive Devices available but of poor quality
- Medical Devices existant only in urban pockets
- Mobility Devices restricted to walking stick
A rubber disk on the bottom provides a non-slip surface. Measures 12" x 3 1/2" x 7" and is dishwasher safe.

Both canes feature a non-slip rubber foot. Weight capacity is 300 lbs.

A ratchet height adjustment setting of 30" to 38" and balanced to help insure stability.

Cane height adjusts in 1" increments from 29" to 38". Made of strong materials.


These amply padded covers add comfort to hard walker handles. Soft terry cloth wicks away moisture. Attach easily.

A heavy-duty folding walker offers a greater weight capacity and height adjustment that is ideal for taller or heavier people. It is easy to maneuver. Features contoured hand grips, double steel cross braces, and 1" reinforced aluminum tubing for maximum support.

Foldable pronged cleats attach to help prevent slipping on icy areas. Ice picks help build confidence and encourage exercise, even in cold weather climates. The steel tips on the standard model flip up out of the way when not in use. The tips on the retractable model are safely stored inside the hard rubber base when not in use.

The narrow basket can be attached inside or outside the walker frame with Velcro straps. It measures 16"w x 6"d x 7"h. Also available is the standard basket that can hold larger items. It measures 18"w x 7"d x 7"h and attaches to the outside of the walker with safe, vinyl-coated plastic clips.

A turning disk that prevents small items from falling through. The Narrow Basket (pictured) is less cumbersome than many larger baskets, and is easy to maneuver. Features contoured hand grips, double steel cross braces, and 1" reinforced aluminum tubing for maximum support.

A ratchet height adjustment setting of 30" to 38" and balanced to help insure stability. Both canes feature a non-slip rubber foot. Weight capacity is 300 lbs.

A dual position bedside tray can be pivoted toward and away from bed. Reversible can be placed on either side of the bed. Safety strap secures base to bed frame. Closed cell foam grip can be easily sanitized. Quality steel is used throughout.

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Multi facility Bed attachment

- MAINPROBLEMFORBEDRIDDENPERSONISBEDSORES. TO AVOID THAT PROBLEM CHANGING POSITION IS THE MOST IMPORTANT. MULTIFACILITY BED HELPS ATTENDANT TO HANG THE POSITION OF PATIENT AND IT ALSO PROVIDE ALL FACILITIES OF SEMI FOWL ERBED.

- DRAWERS ARE PROVIDED AT TWO SIDES OF BED TO STORE MEDICINES, BOOKS AND OTHER STUFF OF BED RIDDEN PERSON.
MEU Operational Area
HelpAge India | Fighting isolation, poverty, neglect

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New Delhi - 110016
Mobile Eldercare Unit

Objectives of the Project

- To provide preventive and curative health care through a combination of different systems of treatment.
- To provide material among target group to remain physically and mentally fit.
- Counseling services to the target groups.
- To provide information on elder-friendly policies, programmes and schemes of government and private organizations.
- Pilot and demonstrate low cost technology that can be replicated.
# Base Line Survey

<table>
<thead>
<tr>
<th>Sl no</th>
<th>Details</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Basantpur</td>
</tr>
<tr>
<td>1</td>
<td>Villages covered</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Total Households</td>
<td>600</td>
</tr>
<tr>
<td>3</td>
<td>Total no. elders</td>
<td>900</td>
</tr>
<tr>
<td>4</td>
<td>Total BPL/IRDP Families</td>
<td>117</td>
</tr>
<tr>
<td>5</td>
<td>Names of villages covered</td>
<td>Basantpur , Panehera, Naltu, Tarour, Ambri, kadug, Kalwi, Jhander, Mandayllu, Nadhukhar Majalu KamlaDungri</td>
</tr>
</tbody>
</table>
Functional Flow of MEU Operations

1. Patient Registration
   - Driver cum social worker

2. Patient Diagnosis & Treatment
   - Doctor

3. Basic Diagnostics and lab investigation
   - Lab Technician

4. Diagnosis, Treatment & Advice
   - Physiotherapist

5. Medicine disbursement & inventory control
   - Nurse / Pharmacist

6. Basic awareness & counseling
   - Social Protection Officer

7. Elders in the Community
Constraints faced while piloting the concept:

- Availability of customized health software where baseline could be integrated.
- Availability of Treatment protocols in geriatric care.
- MIS system to digitize Beneficiary baseline information.

How did we overcome?

- Enhancing in-house capacity to design and develop beneficiary baseline.
- Developed protocols for doctors module and Physiotherapy treatment.
- Worked with software developers “FourX4” on a day-to-day basis.
- Developed and field tested each module one by one and integrated the same with the beneficiary baseline.
- Developed multiple solutions viz. Windows based & web based.
Technology Model

Monitoring Delivery and Measuring Impact
Solution Architecture Layout for HelpAge India MMU Information Systems

Stage 1: Windows based offline solution for MMU field operation

Stage 2: Web-based solution to process and analyze data from the field (Health MIS software collates customized auto-reports for different stakeholders. viz. disease pattern, site specific data etc.)

Low Cost Health MIS Software
Capture field data:
- Baseline Information (Socio-Economic and Health profile)
- Patient Registration
- Diagnosis and Treatment data.

- Lab diagnoses / investigation details
- Medicine disbursement details (Inventory control)

HelpAge Data Centre Delhi

Firewall

Broadband

Internet Clouds

HI MMU Web Portal

MMU Base Office

Data Synchronisation

Laptop

MMU Site

Driver cum social worker

Doctor

Lab Technician

Physiotherapist

Nurse / Pharmacist

Social Protection Officer

HelpAge India Office(s)

Department of Science & Technology

Network Hospital(s)
<table>
<thead>
<tr>
<th><strong>Windows based solution</strong></th>
<th><strong>Web based solution</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Offline systems to capture</strong></td>
<td>Online system available on internet. The portal can be accessed using secured user id and password.</td>
</tr>
<tr>
<td>1. Beneficiary baseline</td>
<td></td>
</tr>
<tr>
<td>2. Generate Id cards for elder beneficiaries</td>
<td></td>
</tr>
<tr>
<td>3. Treatment records of beneficiaries</td>
<td>View Reports of</td>
</tr>
<tr>
<td>- Doctor diagnosis</td>
<td>- Beneficiary baseline</td>
</tr>
<tr>
<td>- Lab diagnostic reports</td>
<td>- Doctor treatment Reports</td>
</tr>
<tr>
<td>- Physiotherapy diagnosis and treatment information</td>
<td>- Physiotherapy treatment reports</td>
</tr>
<tr>
<td>- Medicine disbursement details</td>
<td>- Lab diagnostic reports</td>
</tr>
<tr>
<td>Solution developed on Microsoft Access (Backend) and Dot Net (Front end)</td>
<td>Solution developed on ASP.Net (Front end) and MY SQL (Backend)</td>
</tr>
<tr>
<td>No need of additional software licenses to operate.</td>
<td>Demo Available</td>
</tr>
<tr>
<td>This was be uploaded easily and synchronized with the web based solution</td>
<td><a href="http://www.meu.helpagemmu.org">www.meu.helpagemmu.org</a></td>
</tr>
</tbody>
</table>
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