SAFE MOTHERHOOD NEEDS ASSESSMENT

Chikhwawa District
August 2012

Outline

• Introduction
• Background
• Safe Motherhood Needs Assessment
• Survey Results
• Discussion
Interdisciplinary Team

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Background

• An assessment of maternal health utilization practices in the Chikhwawa district of Malawi.
• Students utilized the WHO’s Safe Motherhood Needs Assessment (SMNA) to survey health care providers, expectant mothers, and delivery records to better understand the delivery and utilization of maternal health care services.
SMNA Survey

- To describe the availability, use and quality of antenatal and delivery care provided to women and newborn babies at all levels within the health care system.¹
- To identify gaps in the provision of this care.¹

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**SMNA: Safe Motherhood Needs Assessment**

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**SMNA Survey Components**

<table>
<thead>
<tr>
<th>Survey Form</th>
<th>Planned</th>
<th>Planned #</th>
<th>Completed Surveys</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHT</td>
<td>District health team interview</td>
<td>1</td>
<td>1 X 1 = 1</td>
</tr>
<tr>
<td>FAC</td>
<td>Facility management</td>
<td>12</td>
<td>1 X 12 facilities = 12 surveys</td>
</tr>
<tr>
<td>NMW</td>
<td>Interview with midwife or maternity nurse</td>
<td>Up to 5 at each facility</td>
<td>5 (max) X 12 facilities = 60 surveys</td>
</tr>
<tr>
<td>ANC</td>
<td>Antenatal client exit interview</td>
<td>At least 15 at each facility</td>
<td>15 X 12 facilities = 180 surveys</td>
</tr>
<tr>
<td>ANR</td>
<td>Antenatal record review</td>
<td>At least 15 at each facility</td>
<td>15 X 12 facilities = 180 record reviews</td>
</tr>
<tr>
<td>DRR</td>
<td>Delivery record review</td>
<td>At least 15 at each facility, but ideally more at the 2 hospitals</td>
<td>15 X 12 facilities = 180 record reviews</td>
</tr>
</tbody>
</table>
District Health Team Survey

Delivery Record Review

Facility Management Survey

Nurse-Midwife Survey

Antenatal Client Exit Interview

Antenatal Passport Review

Survey Population

• 2 Hospitals
  • Chikhwawa
  • Ngabu
• 10 out of 11 health centers that provide maternity services
  • Chapananga
  • Chipwaila
  • Dolo
  • Gaga
  • Kakoma
  • Maphira
  • Mbera
  • Mchamaniza
  • Ndakwera
• Note: we only visited government facilities, not CHAM, hospitals and health centres.
Survey Results

- Family Planning
- Nurse-Midwife Perspectives
- Unsafe Abortion
- Record Keeping
- Antenatal Client Perspectives

Family Planning

A nurse midwife raised her hand and said:
“I have my implant in here and I am all for family planning.”
Family Planning

Family planning was provided over 6,000 times in the course of 3 months (April-June 2012).

- Injectable contraceptives were most popular (76%), followed by oral contraceptives at (16%).
- Impressive family planning educational programs as well.
Nurse-midwife (NMW) Perspectives:
Facility Issues

<table>
<thead>
<tr>
<th>Facility Issues</th>
<th>Chipwala</th>
<th>Ngabu</th>
<th>Chapananga</th>
<th>Chiwawa</th>
<th>Dolo</th>
<th>Daga</th>
<th>Kakoma</th>
<th>Malawi</th>
<th>Mbera</th>
<th>Mfera</th>
<th>Mkaunda</th>
<th>Nkasa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toilet Facilities</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delivery/Labour bed w/ lights</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Running water</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Telephone/Radio</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambulance/Emerg.</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Voices from the field:**
  - Poor water supply: One nurse midwife reported being “forced to use the river”
  - Need new water pumps
  - Space: Not enough room for moms who are waiting to deliver and post-natal moms sleep on floor with babies in arms.
  - No running water or electricity: One nurse midwife reported using torches at night because there was no electricity.

Nurse-midwife (NMW) Perspectives

"In your opinion, what are the two greatest problems facing this health facility right now?"

- Facility Issues: 32%
- Shortage of Staff: 16%
- Shortage of Drugs: 14%
- Lack of Supplies/Equipment: 14%
- Emergency Transport: 14%
- Other: 7%

n = 21

*Other includes: training, abortions, and general resources
Nurse-midwife (NMW) Perspectives:
Shortage of Staff

- Voices from the field:
  - According to the nurse midwives, attrition is an issue and the district health management team needs strategic ways to retain staff.
  - According to nurse midwives, there should be better housing for employees to help improve morale and encourage others to stay.
  - It is also important to have a diverse group of staff.
  - Nurse midwives would like the Chikhwawa district health management team to find better ways to keep employees local.

Nurse-midwife (NMW) Perspectives:
Lack of Drugs & Supplies

- Voices from the field*
- According to nurse midwives in the district:
  - There should be better procurement methods because they can no longer get private medication.
  - Central medical stores must have adequate supplies.
  - Need an adequate supply of drugs to last.
  - Provide essential equipment regularly.

*Responses compiled from all nurse-midwives in the district
## Lack of Drugs & Supplies: Effect on Provision of Healthcare

### Availability of Essential Care for Obstetric Complications: Postpartum Haemorrhage

<table>
<thead>
<tr>
<th></th>
<th>Chililwawa</th>
<th>Ngabu</th>
<th>Chapananga</th>
<th>Chipwaiwa</th>
<th>Dolo</th>
<th>Gaga</th>
<th>Kabwe</th>
<th>Malembeira</th>
<th>Mugerere</th>
<th>Mlima</th>
<th>Mkmumanza</th>
<th>Mkomba</th>
</tr>
</thead>
<tbody>
<tr>
<td>Services provided</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Ergometrine or oxytocin is available</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td></td>
</tr>
<tr>
<td>IV kit is available</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td></td>
</tr>
<tr>
<td>IV solution is available</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td></td>
</tr>
</tbody>
</table>

Complication has occurred and been managed within the past six months: Y Yes, N No

- Available & Satisfactory
- Available but not satisfactory
- Not available

### Lack of Drugs & Supplies: Effect on Provision of Healthcare

### Availability of Essential Care for Obstetric Complications: Severe Anaemia

<table>
<thead>
<tr>
<th></th>
<th>Chililwawa</th>
<th>Ngabu</th>
<th>Chapananga</th>
<th>Chipwaiwa</th>
<th>Dolo</th>
<th>Gaga</th>
<th>Kabwe</th>
<th>Malembeira</th>
<th>Mugerere</th>
<th>Mlima</th>
<th>Mkmumanza</th>
<th>Mkomba</th>
</tr>
</thead>
<tbody>
<tr>
<td>Services provided</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haemoglobin testing available</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td>Available &amp; Satisfactory</td>
<td></td>
</tr>
</tbody>
</table>

Complication has occurred and been managed within the past six months: Y Yes, N No

- Available & Satisfactory
- Available but not satisfactory
- Not available
Lack of Drugs & Supplies: Effect on Provision of Healthcare

Availability of Essential Care for Obstetric Complications:

### Eclampsia

<table>
<thead>
<tr>
<th></th>
<th>Chikhwawa</th>
<th>Ngaba</th>
<th>Chaparanga</th>
<th>Chirawala</th>
<th>Dolo</th>
<th>Gaga</th>
<th>Kabkoma</th>
<th>Makhwira</th>
<th>Magurena</th>
<th>Mfora</th>
<th>Mkwummera</th>
<th>Ndakwera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Services are provided</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Urine protein testing available</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium sulfate or diazepam is available</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydralazine is available</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Complication has occurred and been managed within the past six months

- [ ] Available & Satisfactory
- [ ] Available but not satisfactory
- [ ] Not available

### Obstructed or Prolonged Labour

<table>
<thead>
<tr>
<th></th>
<th>Chikhwawa</th>
<th>Ngaba</th>
<th>Chaparanga</th>
<th>Chirawala</th>
<th>Dolo</th>
<th>Gaga</th>
<th>Kabkoma</th>
<th>Makhwira</th>
<th>Magurena</th>
<th>Mfora</th>
<th>Mkwummera</th>
<th>Ndakwera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum extractor</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Caesarean section surgery is performed</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplies and equipment required for caesarean section are available</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

- [ ] Available & Satisfactory
- [ ] Available but not satisfactory
- [ ] Not available
Lack of Drugs & Supplies: Effect on Provision of Healthcare

Availability of Essential Care for Obstetric Complications: Sepsis

<table>
<thead>
<tr>
<th>Services are provided</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzylpenicillin is available</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>Ampicillin is available</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

Complication has occurred and been managed within the past six months

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVAILABLE &amp; SATISFACTORY</td>
<td>AVAILABLE BUT NOT SATISFACTORY</td>
</tr>
</tbody>
</table>

Nurse-Midwife (NMW) Perspectives: Emergency Transport

- Voices from the field:
  - Nurse midwives stated that: “It takes too long to refer patients; there is no ambulance”
  - “Need a local ambulance”
Nurse-Midwife (NMW) Perspectives: Obstetric Complications

Recent experience with OB complications (within the past 6 months)

- Obstructed Labor: 86%
- Postpartum Haemorrhage: 76%
- Complications from Abortion: 57%
- Puerperal Sepsis: 52%
- Eclampsia: 48%

n=21

Nurse-Midwife (NMW) Perspectives: Unsafe Abortion

Do you think that unsafe abortions are a problem in this community?

- Yes: 86%
- No: 14%

n=21

- Voices from the field:
  - A nurse midwife stated that: “Unsafe abortions involve school girls inducing an abortion with a stick or tablets so it’s not visible. If they get pregnant, they can’t finish school.”
  - Nurse midwives would like better sex education in the community and schools.
Lack of Drugs & Supplies: Effect on Provision of Healthcare

Availability of Essential Care for Obstetric Complications: Abortion

<table>
<thead>
<tr>
<th></th>
<th>Chikhwava</th>
<th>Ngabu</th>
<th>Chapalunga</th>
<th>Chipawu</th>
<th>Dolo</th>
<th>Gaga</th>
<th>Kachena</th>
<th>Makwira</th>
<th>Mapeera</th>
<th>Mfira</th>
<th>Mlumina</th>
<th>Mlovakvo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voluntary termination of pregnancy services are provided</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Complications are managed</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manual vacuum aspiration available</td>
<td>Available &amp; Satisfactory</td>
<td>Available but not satisfactory</td>
<td>Not available</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Complication has occurred and been managed within the past six months

Yes: Available & Satisfactory
No: Not available

Nurse-midwife Supervision, Support & Training

When was the last time your supervisor provided support, advising and or counseling?

- According to the District Health Team Interview:
  - Nurse midwives are supervised on a quarterly basis.
  - However, most nurse midwives interviewed had received supervision, support and/or advising on their work within the past week.
Record Keeping

- Antenatal Passport Review
- Delivery Record Review
- Registers Review

Quality of the Antenatal Record (ANR) Review

<table>
<thead>
<tr>
<th>ANC Services</th>
<th>Hb recorded</th>
<th>Gravida recorded</th>
<th>Parity recorded</th>
<th>Results of a Hb recorded</th>
<th>Iron/folic acid supplementation recorded</th>
<th>Provision of malaria tx or prophylaxis recorded</th>
<th>HIV status recorded</th>
<th>Results of syphillis test recorded</th>
<th>Total Records</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0% 0% 0% 0%</td>
<td>100% 93% 38% 50%</td>
<td>71% 93% 88% 50%</td>
<td>0% 0% 0% 0%</td>
<td>100% 47% 100% 100%</td>
<td>100% 100% 100% 100%</td>
<td>36% 100%</td>
<td>21% 0% 0% 0%</td>
<td>14 15 8 16 12 12 15 9 2 12 13</td>
</tr>
</tbody>
</table>

[Legend: Recorded ≥ 75% of the time, Recorded < 75% of the time]
## Delivery Record Review (DRR)

<table>
<thead>
<tr>
<th>Event</th>
<th>&quot;Norm&quot;</th>
<th>Chikhwawa District Hospital</th>
<th>Ngatu Rural Hospital</th>
<th>Chapananga</th>
<th>Dolo</th>
<th>Guga</th>
<th>Kukoma</th>
<th>Makhwira</th>
<th>Maperera</th>
<th>Mfere</th>
<th>Mzumanza</th>
<th>Ndakwera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaginal Exam</td>
<td>Once/4 hr</td>
<td>95%</td>
<td>79%</td>
<td>72%</td>
<td>73%</td>
<td>100%</td>
<td>80%</td>
<td>65%</td>
<td>87%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Fetal Heart Rate</td>
<td>Hourly</td>
<td>32%</td>
<td>39%</td>
<td>36%</td>
<td>82%</td>
<td>81%</td>
<td>60%</td>
<td>44%</td>
<td>60%</td>
<td>73%</td>
<td>20%</td>
<td>75%</td>
</tr>
<tr>
<td>Blood Pressure</td>
<td>Hourly</td>
<td>24%</td>
<td>4%</td>
<td>0%</td>
<td>36%</td>
<td>8%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>7%</td>
<td>0%</td>
</tr>
<tr>
<td>Birth Weight of Baby</td>
<td>Always</td>
<td>98%</td>
<td>100%</td>
<td>86%</td>
<td>95%</td>
<td>100%</td>
<td>81%</td>
<td>78%</td>
<td>87%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Apgar Recorded</td>
<td>Always</td>
<td>98%</td>
<td>100%</td>
<td>86%</td>
<td>55%</td>
<td>100%</td>
<td>80%</td>
<td>78%</td>
<td>87%</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Number of Records</td>
<td></td>
<td>100</td>
<td>230</td>
<td>14</td>
<td>11</td>
<td>36</td>
<td>10</td>
<td>9</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>7</td>
</tr>
</tbody>
</table>

For columns displaying percentages: | ≥ 75% Recorded | < 75% Recorded |

Total n = 442
Note: Chipwaila not included.

## Registers Review

- Registers included
  - Flow charts for maternal care
  - Delivery register
  - Antenatal care register
  - Family planning register
- Nearly all health centres reported that all of the registers were "Available and satisfactory"
- From our perspective:
  - We were extremely impressed with all the record keeping, especially since all records are maintained manually and on paper
Antenatal Client (ANC) Perspectives

- ANC survey
- ANC vs ANR
- Education

ANC Survey: Transport

Mode of Transportation to Clinic

- 56% Walked
- 42% Bicycle
- 2% Other

Time to Reach Facility

- 56% 1 hour or less
- 25% 2 hours
- 8% 3 hours
- 6% 4+ hours
- 6% Don't Know

n = 126
Timing of First ANC Visit

<table>
<thead>
<tr>
<th>Time of 1st ANC Visit</th>
<th>Chikhwawa</th>
<th>Mphwiyo</th>
<th>Chikanika</th>
<th>Chiradzulu</th>
<th>Chalombe</th>
<th>Maseka</th>
<th>Nkhata</th>
<th>Nkhaunda</th>
<th>Mkunkika</th>
<th>Phiri</th>
<th>Namalenga</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 3 months</td>
<td>11</td>
<td>16</td>
<td>15</td>
<td>14</td>
<td>15</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>14</td>
<td>16</td>
<td>14</td>
</tr>
<tr>
<td>3 - 6 months</td>
<td>12</td>
<td>15</td>
<td>16</td>
<td>11</td>
<td>10</td>
<td>16</td>
<td>14</td>
<td>16</td>
<td>14</td>
<td>18</td>
<td>12</td>
</tr>
<tr>
<td>&gt; 6 months</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Don’t Know</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total Records</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>14</td>
<td>15</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>14</td>
<td>18</td>
<td>14</td>
</tr>
</tbody>
</table>

n = 126
Note: Dolo not included.

Average Number of ANC visits Per Live Birth in a Health Facility

<table>
<thead>
<tr>
<th>Number of ANC Visits</th>
<th>SMNA 2012, Chikhwawa District*</th>
<th>Demographic and Health Survey 2010, Malawi**</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>-</td>
<td>2%</td>
</tr>
<tr>
<td>1</td>
<td>23%</td>
<td>3%</td>
</tr>
<tr>
<td>2-3</td>
<td>53%</td>
<td>50%</td>
</tr>
<tr>
<td>4+</td>
<td>21%</td>
<td>45%</td>
</tr>
<tr>
<td>Don’t Know/ Missing</td>
<td>3%</td>
<td>1%</td>
</tr>
</tbody>
</table>

* n = 126
** % distribution of women aged 15-49 who had a live birth 5 years preceding the survey by number of ANC visits for the most recent live birth, n = 13,443
Quality of ANC Visits

<table>
<thead>
<tr>
<th>During any of your ANC visits, did the staff....</th>
<th>SMNA Survey 2012, Chikhwawa District</th>
<th>Demographic Health Survey² 2010, Malawi</th>
</tr>
</thead>
<tbody>
<tr>
<td>..... Give iron supplements?</td>
<td>85%</td>
<td>91%</td>
</tr>
<tr>
<td>..... Take a blood sample?</td>
<td>71%</td>
<td>82%</td>
</tr>
<tr>
<td>... Take a urine sample?</td>
<td>12%</td>
<td>28%</td>
</tr>
<tr>
<td>... Give you advice on diet and nutrition?</td>
<td>75%</td>
<td>81%</td>
</tr>
<tr>
<td>... Advise you on what to do if there is a problem during your pregnancy?</td>
<td>73%</td>
<td>80%</td>
</tr>
<tr>
<td>... Give malaria medicine</td>
<td>88%</td>
<td>-</td>
</tr>
<tr>
<td>Total Records</td>
<td>126</td>
<td>13,443</td>
</tr>
</tbody>
</table>

Client vs. Record Data
Client vs. Record Data

Does gestational age in passport match the mother’s report of gestational age at the 1st ANC visit?

- Yes: 23%
- No: 77%

Of the women whose gestational age at first visit did not match, the degree of discrepancy of recorded answers.

- ≤ 1 month: 49%
- > 1 month: 51%

n = 126

Client vs. Record Data

% of Congruency between Fe/Fo supplementation and malaria medication provisions

- Fe/Fo Supplementation: 86%
- Malaria Meds: 84%

n = 126
Blood Pressure: Client information vs. BP apparatus availability

<table>
<thead>
<tr>
<th>Location</th>
<th># of Women Interviewed</th>
<th>% of Patients that believed a blood pressure was taken</th>
<th>Was a blood pressure apparatus available at the time of this interview?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chishwawa</td>
<td>14</td>
<td>0%</td>
<td>Yellow</td>
</tr>
<tr>
<td>Ngabu</td>
<td>15</td>
<td>20%</td>
<td>Yellow</td>
</tr>
<tr>
<td>Chipandu</td>
<td>8</td>
<td>0%</td>
<td>Red</td>
</tr>
<tr>
<td>Chipwela</td>
<td>15</td>
<td>7%</td>
<td>Yellow</td>
</tr>
<tr>
<td>Dolo</td>
<td>-</td>
<td>-</td>
<td>Green</td>
</tr>
<tr>
<td>Gaga</td>
<td>12</td>
<td>25%</td>
<td>Green</td>
</tr>
<tr>
<td>Kakoma</td>
<td>12</td>
<td>0%</td>
<td>Red</td>
</tr>
<tr>
<td>Makwara</td>
<td>15</td>
<td>93%</td>
<td>Green</td>
</tr>
<tr>
<td>Maperera</td>
<td>9</td>
<td>100%</td>
<td>Green</td>
</tr>
<tr>
<td>Mfura</td>
<td>2</td>
<td>0%</td>
<td>Red</td>
</tr>
<tr>
<td>Mwakatwa</td>
<td>12</td>
<td>52%</td>
<td>Green</td>
</tr>
<tr>
<td>Midakwera</td>
<td>11</td>
<td>43%</td>
<td>Red</td>
</tr>
</tbody>
</table>

Educational Materials

[Images of educational materials]
What We Learned

- Resourcefulness of health centres and hospital staff in the face of frequent shortages
- Exceptional family planning clinics
- Maximizing opportunities for health education
- Strong commitment to accurate record-keeping

Discussion
References


(2) National Statistical Office (NSO) and ICF Macro. (2011). *Malawi Demographic and Health Survey 2010.* Zomba, Malawi, Calverton, Maryland, USA: NSO and ICF Macro.

Zikomo Kwambiri!!!