EID in Mopani District, Limpopo, South Africa: Improving linkage to care through a mother and baby pair tracking tool

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PMTCT tracking tool
18 January 2018
### Background

<table>
<thead>
<tr>
<th>What was the Problem:</th>
<th>Intervention:</th>
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<tbody>
<tr>
<td>➢ No proper record/tool to track</td>
<td>➢ PMTCT tracking tool development and implementation at the request of the District Clinical Specialist Team:</td>
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<tr>
<td>• HIV-positive women during pregnancy, at delivery and breastfeeding</td>
<td>• To standardize and simplify PMTCT tracking at PHC level</td>
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<tr>
<td>• HIV testing of exposed babies</td>
<td>• To track mother and baby pair from 1st ANC visit to 18 month HIV testing</td>
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<tr>
<td>• Provision of prophylaxis (mother and child)</td>
<td>• Monitor VLC and VLS in pregnant and breastfeeding women</td>
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<tr>
<td>• Infant feeding option documentation</td>
<td>• Documentation of prophylaxis (mother and child)</td>
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<tr>
<td>• Underlying causes for MTCT</td>
<td>• Linkage to care for all HIV-positive babies</td>
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<td>➢ Facility staff had to review multiple records to track mother and baby pairs</td>
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PMTCT tracking tool
GUIDE ON COMPLETING THE TOOL:

MOTHER'S INFORMATION

- Mother's name
- Mother's ID number
- Mother's age
- Mother's weight
- Mother's marital status
- Mother's occupation

BABY'S INFORMATION

- Baby's name
- Baby's ID number
- Baby's date of birth
- Baby's sex
- Baby's weight
- Baby's length

ACCREVIATIONS

- ANC: Antenatal Care
- VL: Viral Load
- ART: Antiretroviral Therapy
- PMTCT: Prevention of Mother-to-Child Transmission

FEEDING OPTIONS: BF/TF

- BF: Breastfeeding
- TF: Tobacco Feeding

VIRAL LOAD COLLECTION IN PREGNANCY AND BREASTFEEDING

NB: Viral load is due on the 1st day of ANC booking and every 3 months. For the known HIV-positive on ART for more than 3 months. For the newly diagnosed pregnant women, viral load is due on the 3rd month of ART initiation and every 3 months.

<table>
<thead>
<tr>
<th>ANC BOOKING MONTH</th>
<th>1st VL due month</th>
<th>2nd VL due month</th>
<th>3rd VL due month</th>
<th>4th VL due month</th>
<th>5th VL due month</th>
</tr>
</thead>
<tbody>
<tr>
<td>JANUARY</td>
<td>April</td>
<td>July</td>
<td>January</td>
<td>July</td>
<td>January</td>
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<tr>
<td>FEBRUARY</td>
<td>May</td>
<td>August</td>
<td>February</td>
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<tr>
<td>MARCH</td>
<td>June</td>
<td>September</td>
<td>March</td>
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<td>March</td>
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<tr>
<td>APRIL</td>
<td>July</td>
<td>October</td>
<td>April</td>
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<tr>
<td>MAY</td>
<td>August</td>
<td>November</td>
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<tr>
<td>JUNE</td>
<td>September</td>
<td>December</td>
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<td>June</td>
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<tr>
<td>JULY</td>
<td>October</td>
<td>January</td>
<td>July</td>
<td>January</td>
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<tr>
<td>AUGUST</td>
<td>November</td>
<td>February</td>
<td>August</td>
<td>February</td>
<td>August</td>
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<tr>
<td>SEPTEMBER</td>
<td>December</td>
<td>March</td>
<td>September</td>
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<tr>
<td>OCTOBER</td>
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<td>April</td>
<td>October</td>
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<td>October</td>
</tr>
<tr>
<td>NOVEMBER</td>
<td>February</td>
<td>May</td>
<td>November</td>
<td>May</td>
<td>November</td>
</tr>
<tr>
<td>DECEMBER</td>
<td>March</td>
<td>June</td>
<td>December</td>
<td>June</td>
<td>December</td>
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Evaluation of PMTCT tool

• Implementation of the tool started in June 2017
• 5 PHC facilities in Mopani were selected to evaluate the implementation
• Period evaluated:
  – Baseline: Unable to collect retrospective data
  – PMTCT tracking tool evaluation: July – Nov 2017
Data Sources

• DHIS: Number of HIV-positive pregnant women booked between Jul - Nov 2017
• HCT register: identify newly diagnosed HIV-positive pregnant women
• PHC tick register: Identify known positive pregnant women
• PMTCT tracking tool:
  • Compare DHIS, HCT register and Tick register to PMTCT tracking tool
  • Longitudinal tracking of mother and baby pairs
Key Results

Tracking HIV + Pregnant women

- No. HIV+ women booked (DHIS): 181
- No. HIV+ women documented in the tracking tool: 103
- No. documented baseline VL: 85

VL suppression in Pregnant Women

- No. suppressed: 72%
- No. unsuppressed: 28%

No. suppressed: 24
No. unsuppressed: 61
### Key Results

#### Tracking the HIV exposed Infant: ART & CTX prophylaxis & Infant feeding

<table>
<thead>
<tr>
<th>Category</th>
<th>Documented</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. HIV+ women documented in the tracking tool</td>
<td>104</td>
</tr>
<tr>
<td>Delivery date documented</td>
<td>76</td>
</tr>
<tr>
<td>Infant ART prophylaxis</td>
<td>66</td>
</tr>
<tr>
<td>CTX prophylaxis</td>
<td>57</td>
</tr>
<tr>
<td>Infant feeding documented</td>
<td>62</td>
</tr>
</tbody>
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**Infant feeding within 6 days of delivery**

- EBF: 54 (87%)
- EFF: 5 (8%)
- Mixed: 3 (5%)

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Key Results

Tracking Early Infant Diagnosis and LTFU

- Eligible for Birth PCR: 76
- Birth PCR collected: 72
- Birth PCR result (Negative): 60
- Eligible for 10 week PCR: 67
- 10 week PCR collected: 56
- 10 week PCR result (negative): 45
- Eligible for 18 week PCR: 14
- 18 week PCR collected: 9
- 18 week PCR result documented: 0

Eligible for Birth PCR result (Negative) - 95%
10 week PCR result (negative) - 84%
18 week PCR result documented - 64%
Evaluation: PMTCT tool

Limitation:

- Tracking of babies beyond 18 weeks was not possible because the tool was recently introduced.
- Most deliveries are in hospitals, some clients are lost in between the hospitals and the PHC facilities.
- New tool, a lot of women were not documented.
Take home messages

• Easy and efficient tool that can be used by all healthcare workers in the facilities including non-clinical staff (e.g. lay counsellors and mother mentors)

• Tracking tool promotes continuity of care for both mom and baby pair in 1 register
  – Improved clinical care, hence low risk of HIV transmission to the baby
  – Improves guidelines to early infant diagnosis
Recommendations

• Development of electronic records: TIER.Net PMTCT module which links mother and baby pairs

• Implementation of the unique identifier for both mother and child to strengthen tracking
Acknowledgements

• USAID
• Limpopo provincial and district department of health
• Anova team