Estimating gaps in HIV service provision.

Annette Gerritsen (Epi Result), Suzanne Johnson (FPD), Janine Mitchell and Brenda White (former FPD)
Compass project (2007-2011)

Provision and need for HIV/AIDS services within the CTMM.

The objective of the Compass project was to annually present data on the provision and need for HIV/AIDS services within the City of Tshwane Metropolitan Municipality (CTMM), as this information is scarce in municipal areas.
Methods

Survey among 447 [2010] and 484 [2011] providers of HIV/AIDS related services in the CTMM.

Data used:

- Questionnaire (service providers) with organisational information, HIV/AIDS services provided.

- Available data (e.g. ASSA2008 model, population estimates, ART data from mid-year population estimates, ANC survey) for estimates of the need for care (HCT, ART adults, PMTCT – HCT and ART, OVC).

- Calculating coverage of care and identifying gaps.
Results

Overall picture 2011 more positive compared to 2010 and especially 2009.

- Substantial increase in service coverage HCT (26.7%-31.4% 2010 to 31.1%-36.6% 2011) and ART adults (63% 2010 to 88.1% 2011). No data on PMTCT (HCT and ART) coverage available, but the number of service providers has increased. Coverage for OVC stayed the same (43.6% 2010, 43.3% 2011).

- Still inadequate number of services available (OVC, HCT, ART adults).

- Unique information on municipality level will facilitate planning of interventions.
Online calculator (2010-ongoing)

Practical application to calculate HIV/AIDS, TB, NCDs services needs at all levels in South Africa.

The objective of the online calculator is to make the ‘CTMM estimates’ – and additional estimates for HIV/AIDS, TB and NCDs - available for all provinces, districts and municipalities in South Africa.

Users can calculate the need for services in their area, compare it with the provision and identify gaps. It can also be used to set targets for service provision.

Updated annually with latest data routinely available (population estimates, births, ANC prevalence, number of orphans).

November 2013
This calculator gives estimates for the need of HIV/AIDS, TB, NCDs services for all provinces, districts and municipalities in South Africa. It is based on the most recent information available.

<table>
<thead>
<tr>
<th>Calculator</th>
<th>Vhembe</th>
<th>LIM344: Makhado</th>
<th>Generate Report</th>
<th>Print</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total need for ART adults 15+ (CD4 &lt; 200):</td>
<td>19243 (min)</td>
<td>23367 (max)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total need for ART adults 15+ (CD4 &lt; 350):</td>
<td>28696 (min)</td>
<td>35559 (max)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for new ART initiation adults 15+ (CD4 &lt; 200):</td>
<td>2887 (min)</td>
<td>7010 (max)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for new ART initiation adults 15+ (CD4 &lt; 350):</td>
<td>12339 (min)</td>
<td>19202 (max)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total need for ART children &lt;15:</td>
<td></td>
<td>3759</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for new initiation ART children &lt;15:</td>
<td>2244</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for PMTCT HIV test (1st visit):</td>
<td>10713</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for PMTCT HIV re-test (32 wk):</td>
<td>9149</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for PMTCT prophylaxis:</td>
<td>1564</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for HCT 15-64:</td>
<td>179418 (min)</td>
<td>338582 (max)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for FCR 6 wk:</td>
<td>1564</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Need for HIV test 18 mo:</td>
<td>1509</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Usage of the online calculator

The website statistics show that there was a large number of visitors, including returning visitors, in the last month.

From September 28 – October 28, 2013:

• 6,257 visits (2,971 unique visitors)
• 43% new visitor, 57% returning visitor
• 3,215 direct, 1,254 via search engines
Challenges with using available data

Example: calculating the need for ART among adults in the CTMM.

• Total ART need in the CTMM was calculated based on the total ART need among adults from national Spectrum estimates (reported in Statistics South Africa (SSA) mid-year population estimates).

• To calculate the need for ART initiation, the number already receiving ART was required (from national DoH data reported in SSA mid-year population estimates).

• Limitations: only public sector data (private added), underestimate coverage CTMM, limitations DoH data and Spectrum estimates → best available
Fig. 1. Estimated number of adults aged ≥15 years in need of ART and receiving ART according to (A) 2010 and (B) 2011 SSA mid-year population estimates.25
Different approach for online calculator

Data from other statistical modelling exercise.

- Article* that provides number of adults currently on ART (public and private) and coverage according to old threshold ($CD4 < 200$) and new ($<350$).

- Total ART need calculated (on ART/coverage) and need to be initiated on ART/unmet need (total need - on ART).

- Estimates for levels lower than national calculated by taking proportion of national population at these levels.

- Limitations: difference between e.g. provinces ignored, data from 2011 → best available

More information

Questions?

• Online calculator: [http://epicalc.foundation.co.za/](http://epicalc.foundation.co.za/)


• Dr. Annette Gerritsen, +27 (0)72-9640548 @epiresult annette.gerritsen@epiresult.com [www.epiresult.com](http://www.epiresult.com)

November 2013