HIV Testing and Expansion of ART for TB Patients: Bottlenecks, Challenges and Enablers for scale up in Guyana

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National Tuberculosis Programme
Ministry of Health
Guyana
Progress of the Americas towards achieving the indicators of the Global Plan to Stop TB, 2015

Countries which Account for >80% of the Burden, 2010

<table>
<thead>
<tr>
<th>#</th>
<th>Country</th>
<th>Incident TB Cases</th>
<th>%</th>
<th>Cumulative %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brazil</td>
<td>85,000</td>
<td>32%</td>
<td>32%</td>
</tr>
<tr>
<td>2</td>
<td>Peru</td>
<td>31,000</td>
<td>12%</td>
<td>43%</td>
</tr>
<tr>
<td>3</td>
<td>Haiti</td>
<td>23,000</td>
<td>8.6%</td>
<td>52%</td>
</tr>
<tr>
<td>4</td>
<td>Mexico</td>
<td>18,000</td>
<td>6.7%</td>
<td>59%</td>
</tr>
<tr>
<td>5</td>
<td>Colombia</td>
<td>16,000</td>
<td>6.0%</td>
<td>65%</td>
</tr>
<tr>
<td>6</td>
<td>Bolivia</td>
<td>13,000</td>
<td>4.9%</td>
<td>70%</td>
</tr>
<tr>
<td>7</td>
<td>United States</td>
<td>13,000</td>
<td>4.9%</td>
<td>75%</td>
</tr>
<tr>
<td>8</td>
<td>Argentina</td>
<td>11,000</td>
<td>4.1%</td>
<td>79%</td>
</tr>
<tr>
<td>9</td>
<td>Venezuela</td>
<td>9,700</td>
<td>3.6%</td>
<td>82%</td>
</tr>
<tr>
<td>10</td>
<td>Ecuador</td>
<td>9,400</td>
<td>3.5%</td>
<td>86%</td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td>37,880</td>
<td>14%</td>
<td>100%</td>
</tr>
</tbody>
</table>

Countries with the Highest Incidence Rates, 2010

Haiti: 230
Suriname: 145
Bolivia: 135
Guyana: 111
Peru: 106
Dominican Republic: 67
Ecuador: 65
Guatemala: 62
Honduras: 51
Panama: 48
(Others): 20
- Areas DOTS being expanded
- Areas DOTS Operational
- Areas to be further integrated into the PHS
Distribution of the HIV sites in Guyana
Number of TB cases per Region (2011)

New cases registered

<table>
<thead>
<tr>
<th>Region</th>
<th>Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>19</td>
</tr>
<tr>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>3</td>
<td>37</td>
</tr>
<tr>
<td>4</td>
<td>399</td>
</tr>
<tr>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>71</td>
</tr>
<tr>
<td>7</td>
<td>17</td>
</tr>
<tr>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>70</td>
</tr>
</tbody>
</table>
Number of Cases Registered in Prison (2000-2011)
TB/HIV Co-Infection Rate in Prisons 2007 - 2011

Years

2007 2008 2009 2010 2011

12 20.8 21.4 21.4 10

TB/HIV co-infected rate in prison
New TB Cases registered and tested for HIV (2007 – 2011)

Number of New TB cases registered

Number of New TB cases with a HIV result
TB/ HIV trends 2005 -2011

**Years**

- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011

**New cases**

- Total number of new TB cases
- Number of new TB cases tested for HIV
- Number of new TB cases coinfected with HIV

<table>
<thead>
<tr>
<th></th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB cases</td>
<td>656</td>
<td>691</td>
<td>701</td>
<td>623</td>
<td>629</td>
<td>614</td>
<td>683</td>
</tr>
<tr>
<td>HIV tested</td>
<td>456</td>
<td>566</td>
<td>562</td>
<td>516</td>
<td>562</td>
<td>614</td>
<td>633</td>
</tr>
<tr>
<td>Co-infected</td>
<td>163</td>
<td>159</td>
<td>198</td>
<td>123</td>
<td>156</td>
<td>161</td>
<td>147</td>
</tr>
</tbody>
</table>

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**Image Details**

- **Title:** TB/ HIV trends 2005 -2011
- **Graph:** Bar chart showing trends.
- **Data:**
  - Total number of new TB cases: 656, 691, 701, 623, 629, 614, 683
  - Number of new TB cases tested for HIV: 456, 566, 562, 516, 562, 614, 633
  - Number of new TB cases coinfected with HIV: 163, 159, 198, 123, 156, 161, 147

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HIV Seroprevalence among TB patients 2005 - 2011

- Proportion of new TB cases tested for HIV
- HIV Seroprevalence among TB patients
# New TB Cases by Region, Tested for HIV and HIV Positive (2011)

<table>
<thead>
<tr>
<th>Regions</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>New cases registered</td>
<td>19</td>
<td>40</td>
<td>37</td>
<td>399</td>
<td>15</td>
<td>71</td>
<td>17</td>
<td>10</td>
<td>5</td>
<td>70</td>
<td>683</td>
</tr>
<tr>
<td>New cases test for HIV</td>
<td>15</td>
<td>31</td>
<td>36</td>
<td>390</td>
<td>15</td>
<td>61</td>
<td>12</td>
<td>5</td>
<td>1</td>
<td>66</td>
<td>633</td>
</tr>
<tr>
<td></td>
<td>79%</td>
<td>76%</td>
<td>97%</td>
<td>98%</td>
<td>83%</td>
<td>88%</td>
<td>65%</td>
<td>50%</td>
<td>20%</td>
<td>94%</td>
<td>93%</td>
</tr>
<tr>
<td>New cases HIV +</td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>106</td>
<td>1</td>
<td>24</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>HIV + cases on ART</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>100</td>
<td>1</td>
<td>20</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>102</td>
<td>1</td>
<td>21</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
<tr>
<td>HIV + cases on CTX</td>
<td>0</td>
<td>1</td>
<td>5</td>
<td>102</td>
<td>1</td>
<td>21</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

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**www.aids2012.org**

Washington D.C., USA, 22-27 July 2012
Number of TB cases co-infected with HIV placed of ARVs (2007 – 2011)

- Number of Co-infected cases registered
- Number of co-infected cases placed on ARVs

Years:
- 2007: 198
- 2008: 123
- 2009: 73
- 2010: 156
- 2011: 161

Years:
- 2007: 69
- 2008: 73
- 2009: 75
- 2010: 94
- 2011: 135
Guidelines for TB/HIV Co-Infection

• All TB/HIV co-infected patients are managed by the TB programme until cured of TB then referred to HIV/AIDS care and treatment services.

• All TB/HIV co-infected patients are started on ART irrespective of the CD 4 count.

• ARV treatment are administered as per guidelines-monitoring of patients undertaken by TB program.

• Should Home Based Care be needed, HIV/AIDS care and treatment services are informed.
Bottleneck and Challenges

- High default rate.
- Low socio-economic status, homeless, unemployment
- Migrant population
- Substance abusers
- Slow decentralization of the TB/HIV services into primary health care system.
- Hard to reach population-hinterland with difficult terrain and sparse population.
DOT HAART Initiative

- DOT HAART Training module developed.
- DOT HAART Training ongoing.
- Incentives for outreach workers implementing DOT HAART initiative.
- Pilot project soon to be implemented – DOT HAART mobile reminders.
- PPM initiative with Private hospitals-HIV treatment care facilities.
- Active mobile teams boosted with Social worker, HIV & TB outreach workers.
Role of the Enabler Initiative

- Transportation reimbursement for the less fortunate TB/HIV co-infected patients.
- Hot meals daily during the initial phase of treatment.
- Food hampers/vouchers for all TB/HIV co-infected patients provided by the National AIDS Programme.
- Food supplement given to the TB/HIV co-infected patients who are incarcerated.
- Home based care provided by the National AIDS Programme.
- Skills training for co-infected patients in support group.
Thank You