Childhood TB prevention and control in Ethiopia

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Dec 3, 2015
Outline

• Epidemiology
• Childhood TB control situation in Ethiopia
• Gaps and challenges
• Childhood TB roadmap
• Achievement and way forward
Global TB report 2015

• An estimated 1 million children became ill with TB and 140 000 children died of TB in 2014

• In 2014, 359 000 new and relapse cases among children were reported, an increase of about 30% compared with 2013
Estimated number of incident cases of TB among children in 2014, globally and by WHO region

<table>
<thead>
<tr>
<th>WHO REGION</th>
<th>NUMBER OF TB CASE NOTIFICATIONS</th>
<th>ESTIMATED TB INCIDENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BEST ESTIMATE</td>
</tr>
<tr>
<td>AFR</td>
<td>90,523</td>
<td>330,000</td>
</tr>
<tr>
<td>AMR</td>
<td>10,489</td>
<td>27,000</td>
</tr>
<tr>
<td>EMR</td>
<td>42,028</td>
<td>80,000</td>
</tr>
<tr>
<td>EUR</td>
<td>9,898</td>
<td>31,000</td>
</tr>
<tr>
<td>SEAR</td>
<td>168,310</td>
<td>340,000</td>
</tr>
<tr>
<td>WPR</td>
<td>37,273</td>
<td>150,000</td>
</tr>
<tr>
<td>Global</td>
<td>358,521</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>
TB among Children in Ethiopia, 2014-2015

Number of Notified TB cases

- 0-4 yrs
- 5-14 yrs
- 0-14 yrs

Total TB cases notified in Ethiopia by Age. 2007 EFY (2014/2015)

- 0-4 yrs: 7386
- 5-14 yrs: 11058
- 15-24 yrs: 30388
- 25-34 yrs: 33574
- 35-44 yrs: 22861
- 45-54 yrs: 14715
- 55-64 yrs: 8647
- >65 yrs: 6046
- Not registered: 1276
Notified TB cases among Children by Type in Ethiopia, 2015

- Bacteriologically confirmed New PTB cases: 32.2%
- Clinically diagnosed New P/Negative TB cases: 32.9%
- Clinically diagnosed New EPTB cases: 31.6%
- Bacteriologically confirmed RELAPSE PTB cases: 3.2%
Notified TB cases among Children by Regions in Ethiopia, 2015

Number of Notified cases

- Tigray: 851
- Afar: 455
- Amhara: 2245
- Oromia: 6705
- Somali: 1024
- Ben GuM: 198
- SNNPR: 5867
- Gambella: 220
- Harar: 43
- AA: 541
- DD: 284
National Childhood TB activities

• Incorporated childhood TB initiative in NSP 2013-2020
• Developed/adapted guidance on the management of childhood TB
• Recommended Xpert MTB/RIF assay as primary test for screening and diagnosis of MTB and DR TB
• Procured paediatric anti-TB drugs formulations
• Started to capture childhood TB data on national integrated disease reporting system /HMIS
• Organized CME and capacity building activities for health care workers on childhood TB
Gaps and challenges

- Ineffective integration with other health programs

- IMNCI/ICCMI lacks focus on management of TB in children

- Inadequate participation of various key stakeholders

- Capacity building efforts usually does not address HCWs at key entry points

- Suboptimal implementation of preventive interventions

- Lack of tracking format for contact tracing activities in the community
Childhood TB Road map

• **Goal:**
  – Towards zero TB death in children

• **Objective:**
  – **Decentralize** comprehensive childhood TB services to Primary health care level
  – **Strengthen** hospital based childhood TB, TB/HIV and DR-TB services
  – **Establish** center of excellence for pediatric services
National strategies

I. Strengthen the program management capacity and local expertise

II. Strengthen the information flow and use for decision making on the burden of TB in children

III. Engage key stakeholders and promote partnership

IV. Community and Facility level integration of childhood TB service

V. Focus on critical opportunities for interventions

VI. Address children with special situation or risk factors for TB
Recommended platforms for Integration of childhood TB services
The Health System

- Specialized Hospitals (3.5 – 5.0 million)
- General Hospital (1.0 – 1.5 million)
  - Tertiary Level Health Care
  - Secondary Level Health Care
    - Primary Hospital (60,000 – 100,000)
    - Health center (15,000 – 25,000)
    - Health Post (3,000 – 5,000)
  - Primary Level Health Care
- Health Centers (40,000)
- Urban
- Rural
Platforms for Integration of childhood TB services

IMNCl/ICCM

- TB DOTS Clinic
- HIV/ART Clinic
- Nutritional Therapy Unit
- Private/NGO/FBO Clinics
- Maternal and Child Health Clinics

Sick Child
Achievements and way forward

• Established national childhood TB TWG

• Conducted consultative workshop

• Prepared training material for HCWs

• Training is planned to be conducted before end of December

• Mobilized required budget

• Integrated required algorithms into revised IMNCI

• Planned to conduct operational research