Ethiopian Health & Nutrition Research Institute

Progress of the Ethiopian National TB Prevalence Survey

Amha Kebede (DDG, EHNIRI & PI)
5-8 October 2010 UNCC-AA
Rationale for TB Prevalence Survey

- TB prevalence (one of the indicators of MDGs)
- WHO estimate of SS+ TB increased from 152 to 168/100,000 (Between 2007&2008)
- The case detection rate 32-34 %
- Evidence based approach for plan & decision making
Primary objectives

1. Prevalence of smear positive TB
2. Prevalence of culture positive TB
3. Prevalence of symptoms suggestive of TB
4. Prevalence of radiological abnormalities suggestive of TB
Method/Survey Design

- Cross-sectional survey
- Multistage cluster sampling
- Stratified: Urban, rural & pastoral populations
- Sample size: 46,514 (aged ≥ 15)
- Clusters: 85 (Urban: 14; Rural: 63; Pastoral: 8)
- Cluster size: 550 subjects
Recruitment of the field team

1. Team leader
2. Receptionist
3. Interviewer 3 per team
4. X-ray reader
5. X-ray technician 2 Per team
6. Logistic Assistant
7. Laboratory Technicians and Technologists
8. Data clerks – 2
Training

- In-house training  CXR, lab, interview
- Integrated training
- Field test/ pilot testing
- Revise protocol
Time line

- Protocol development (Oct, 2009)
- Procurement (May, 2010)
- Staff recruitment (June-Aug, 2010)
- Selection of survey sites & 1st Pre visit and Protocol revision (August 2010)
- Staff training, finalization of survey schedule (July – Aug 2010)
- Sensitization workshop for regional and district people (Sept, 2010)
- Pilot Field (Sept, 2010)
# Source of Fund

<table>
<thead>
<tr>
<th>Source of fund</th>
<th>Mainly Budgeted for</th>
<th>Fund In USD</th>
<th>% from total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1</strong> Global Fund</td>
<td>Procurement, training, salary and field operation</td>
<td>2,625,519.60</td>
<td>92.7%</td>
</tr>
<tr>
<td><strong>2</strong> WHO</td>
<td>TA</td>
<td>106,900.00</td>
<td>3.8%</td>
</tr>
<tr>
<td><strong>3</strong> USAID/TBCAP</td>
<td>Salary</td>
<td>100,000</td>
<td>3.5%</td>
</tr>
</tbody>
</table>
Pre visits to Gende Gorba kebele

- Ganda Gorba is located in Adaa district, East Showa, Zone, Oromiy Region
- Nine kms from the town of Debre Zeit
- Total population 6786, Male= 3052, Female= 3734
- Population by age <15= 3851 , age≥15= 2935
- Household Blocks (Gares) = 45
- Each Block had 28-30 household on average
Processes in the survey site

- Group instruction
- Reception
- Interview
- X-ray reception
- Capturing
- Film development/out processor
Processes in the survey site

- X-reading
- Data checking
- Re interview/ team leader
- Sputum collection
Lessens Learned

- Census activity take more time than expected
- Participation is crucial/ community sensitization shall be intensified without affecting the result
- About 373 participants screened
- About 90 TB Suspects were identified
  - With symptom complex = 50
  - With x-ray abnormality = 20
  - Both = 20
- Tools have been revised after the pilot
Time line

- Start of Field Operation (Oct, 2010)
- Completion of Field Operation (Apr, 2011)
- Confirmation of Lab results (July 2011)
- Preliminary Results (Aug 2011)
- Final Results (Dec, 2011)
Thank you!