MDR TB: ITS IMPACT ON THE COMMUNITY

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Current situation in Peru

- 3329 MDR TB patients in treatment
  - 941 cases started MDR treatment in first half of 2007
  - 7.7 per 100,000 people
- 3.3% of MDR cases are co-infected
  - 85% of MDR patients receive HIV test
- 153 cases of XDR 1997-2007
- 10% of XDR have never been treated for TB
- 90% of XDR, 86% of MDR cases are in Metropolitan Lima
What is community based treatment?
• 1996: Socios En Salud (SES) warns about unusual numbers of MDR-TB cases in Carabayllo, Lima.

• MDR-TB considered by international community as not treatable in resource limited countries

• SES and the Peruvian NTP successfully developed and implemented the first community-based model for MDR-TB management.

**SES’s Community-based model for MDR-TB Management**

**TEAM:**
- MOH, SES
- Patient
- Family and
- Community
Impact on Health

- Malnutrition
- Side effects from medication
- HIV co-infection
- Other illnesses
Economic Impact
Socio-economic issues affecting patients

- Poverty
- Stigma & discrimination
- Alcohol & drug addiction
- Overcrowding
- Unemployment
- Migration
Economic Impact

- Direct costs
  - Diagnostic tests
  - Treatment
  - Transportation
  - Housing
  - Specialized foods
Economic Impact

- Indirect costs
  - Lost days of work
  - Loss of job altogether
  - Decreased economic investment in community

But it is more expensive NOT to treat the disease!
Combatting the economic effects with community support
Social Impact

- Isolation
- Despair
- Discrimination/Stigma

- Disruption of family life
- Treatment abandonment
- Mental health issues
  - Suicide
Community based care to the rescue!

- Better access to care
- Faster/more accurate diagnoses
- Better coping mechanisms
- Better communication within families and communities
Benefits of community based model
Better overall health programming

- Increased health education
- Increased health literacy
Job training and economic development
Increased opportunities for staff and CHWs

The first group of community health workers, 1995

Ten years later, Alicia supervises all of Caraballyo’s hundreds of CHW
## International impact

<table>
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<tr>
<th>Drug</th>
<th>Formulation</th>
<th>1997 price</th>
<th>1999 price</th>
<th>Decline</th>
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<tr>
<td>Amikacin</td>
<td>1 gm vial</td>
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<tr>
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<td>Kanamycin</td>
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The silver lining...

- Community based care MINIMIZES the negative health, economic and social effects of MDR TB
- Can result in POSITIVE change for the community
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