INFECTION CONTROL
of M. tuberculosis
IN KAZAKHSTAN

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Presentation objective

To describe the infection control situation in Kazakhstan:

- Problems and constraints
- Solutions
TB morbidity and mortality in Kazakhstan per 100,000 of population

[Translator's note: see notes below slide for table legend]
Actual number of MDR TB patients detected for the first time

- 2001: 454
- 2002: 947
- 2003: 753
- 2004: 817
- 2005: 700
- 2006: 561
- 2007: 898
- 2008: 1251
- 2009: 1344
Drug-resistance among screened patients in Kazakhstan [Translator's note: see notes below slide for table legend]
Recorded cases of TB/HIV among new cases in TB facilities in Kazakhstan

<table>
<thead>
<tr>
<th>Year</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB/HIV patients</td>
<td>187</td>
<td>198</td>
<td>265</td>
<td>213</td>
<td>407</td>
<td>249</td>
</tr>
</tbody>
</table>
Morbidity among health workers in TB facilities in Kazakhstan, per 100,000 of population [Translator's note: see notes below slide for table legend]
TB morbidity rates per 100 000 of population among different categories of health workers at TB facilities, 1998-2002. [Translator's note: see notes below slide for table legend]
Specialists attending international training seminars on infection control

- Murmansk, 2008: 3 specialists
- Bucharest, 2008: 1 specialist
- Almaty, 2009: 10 specialists
- Riga, 2009: 1 specialist
- Bishkek, 2009: 2 specialists
Restructuring of TB facilities

- For noninfectious TB patients and differential diagnosis
- Second-line drug treatment for MDR TB patients
- For MTB expectorators with non-drug-resistant forms
- For supportive treatment of chronic TB (widespread forms, MDR TB, XDR TB)
Engineering solutions

2008.

- Refurbishment of MDR TB facility in Almaty
  Equipped with mechanical ventilation system;
- Zoning of wards;
- Global Fund support
Engineering solutions

2009

Refurbishing of reference laboratory at the Kazakhstan National TB Centre, Almaty;
- Equipped with mechanical ventilation system;
- Zoning of work areas;
- Fitted with biosafety equipment
- Global Fund support
2009

- 22,506 respirators procured for health workers at national TB facilities;
- Global Fund support
Principal infection control issues in Kazakhstan

- Duration of inpatient treatment
- *Development of outpatient treatment*
- Strengthening the network of primary health-care facilities in the management of the national TB programme
- **CHRONIC MTB EXPECTORATOR CASES**
- **Prison settings**
Key concerns

Isolation

What case?
Where?
How?
For how long?
Mechanical ventilation

• Where needed
• Cost
• Proper service
Next step – ratification of national infection control plan [See note under slide for translation]
Thank you for your attention