TB hospital: Current situation and role in drug-resistant TB in China

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TB Control Framework in China

MOH

CDC system

Medical system

TB Dispensary

TB hospital

General hospital
General information of TB hospital

203 TB hospitals
Human Resource

- All staff: 83,000
- TB staff: 19,000 (22.8%)
- No of Doctor is 6181 and nurse 8053 among TB staff
- Lab staff: 1300
TB Beds

Total of TB beds: 23,962
Average TB beds for every TB hospital: 118
Contribution to national TB case detection (2009)
No of TB Cases

Out-patient

In-patient
<table>
<thead>
<tr>
<th></th>
<th>1999 (*10000)</th>
<th>2004 (*10000)</th>
<th>2009 (*10000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smear</td>
<td>64.4</td>
<td>97.4</td>
<td>171.1</td>
</tr>
<tr>
<td>Culture</td>
<td>5.7</td>
<td>7.4</td>
<td>16.1</td>
</tr>
<tr>
<td>DST</td>
<td>1.5</td>
<td>2.4</td>
<td>5.4</td>
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</tbody>
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## Drug-resistance test

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of DR (%)</td>
<td>10229 (33.86)</td>
<td>12782 (34.86)</td>
<td>16,674 (33.84)</td>
</tr>
<tr>
<td>No of MDR (%)</td>
<td>5366 (17.76)</td>
<td>6816 (18.59)</td>
<td>8,769 (17.80)</td>
</tr>
</tbody>
</table>
TB hospital: What can do in prevention and treatment of drug-resistant TB in China?
Diagnosis and treatment of DR

- >60% TB hospitals are able to perform drug susceptibility tests
- >230,000 inpatients and >2 million outpatients every year
- Nearly 10,000 MDR-TB patients were detected every year
- Good clinical experts group
Clinical trials

- 8 TB hospitals have been authorized by SFDA to perform clinical trials.

- National TB Clinical Trials Consortium

- Supported by NIH
Basic and clinical science researches

- Good TB patients resource
- Good capacity both TB clinical and test
- Experts team
Evaluation and application of new technology on TB

Interferon Gamma Release Assays (IGRAs)

Liquid culture

GeneXpert MTB/RIF

Genechip

Line probe
Good cooperation

- National TB hospital Consortium
- National TB Telemedicine & Training Platform
Wish more cooperation between us in the future!