The Central Organization Structure of Ministry of Health

[Diagram showing the structure with the Public Health Institute of Turkey highlighted]

- **Affiliated Agencies**
  - Public Hospitals Agency of Turkey
  - Public Health Institute of Turkey
  - Pharmaceuticals and Medical Devices Agency of Turkey
  - General Directorate of Health for the Borders and Coastal Areas of Turkey

- **Service Units**
  - General Directorate of Health Services
  - General Directorate of Emergency Health Services
  - General Directorate of Health Promotion
  - General Directorate of Health Research
  - General Directorate of Health Information Systems
  - Presidency of Strategy Development
  - General Directorate of Health Investments
  - General Directorate of EU and Foreign Relations
  - General Directorate of Administrative Services
  - Audit Services Unit
  - Office of Legal Consultants
  - Office of Press and Public Relations
Organizational Structure of Public Health Directorates
Tuberculosis Department

• Tuberculosis Department is the central unit of tuberculosis control in Turkey. Tuberculosis Department is structured under The Public Health Institute Vice Presidency of Communicable Disease Control Programmes and responsible from the creation and implementation of National Tuberculosis Control Program

• The Units of Tuberculosis Department
  ✓ Epidemiological Surveillance and Statistics Section
  ✓ Monitoring, Evaluation and Projects
  ✓ Intersectoral Collaboration and Education
  ✓ Field Services and Drug Supply
  ✓ Multi-Drug Resistant Tuberculosis Patient Management
Components of the National Tuberculosis Control Programme

• Political commitment
• Quality controlled bacteriological examination to find cases
• Supervised practice and patient-centered Directly Observed Treatment (DOT)
• Effective drug supply and management system
• Monitoring and evaluation with reporting system
• Multi-Drug Resistant TB, TB / HIV association and highlighting the problems of other risk groups
• To ensure the participation of the all parties of health service providers to fight TB
• To increase the participation of tuberculosis patients and society in TB fight
• To support the scientific researches related to tuberculosis
Estimated TB Incidence Rates, 2012
(WHO 2013 Global TB Control Report)

Estimated TB incidence rates, 2012

Incidence Rate of Turkey: **22 per 100 000 population**
### “WHO Global TB Report 2013” Data

#### Estimated TB Disease Burdens, 2012 (in one hundred thousand population)

<table>
<thead>
<tr>
<th>REGION</th>
<th>Mortality Rate</th>
<th>Prevalence Rate</th>
<th>Incidence Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>26</td>
<td>303</td>
<td>255</td>
</tr>
<tr>
<td>Americas</td>
<td>1.9</td>
<td>40</td>
<td>29</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>16</td>
<td>180</td>
<td>109</td>
</tr>
<tr>
<td>Europe</td>
<td>3.9</td>
<td>56</td>
<td>40</td>
</tr>
<tr>
<td>* TURKEY</td>
<td>0.52</td>
<td>23</td>
<td>22</td>
</tr>
<tr>
<td>South East Asia</td>
<td>25</td>
<td>264</td>
<td>187</td>
</tr>
<tr>
<td>Western Pacific</td>
<td>5.8</td>
<td>128</td>
<td>87</td>
</tr>
<tr>
<td><strong>GLOBAL</strong></td>
<td><strong>13</strong></td>
<td><strong>169</strong></td>
<td><strong>122</strong></td>
</tr>
</tbody>
</table>
### “WHO Global TB Report 2013” Data

**TB Case Detection Rates and Treatment Success Rates**

<table>
<thead>
<tr>
<th>REGION</th>
<th>Case Detection Rate (%) (2012)</th>
<th>Treatment Success Rate in New Smear (+) Pulmonary Cases (%) (2011)</th>
<th>Treatment Success Rate in Retreatment Cases (%) (2011)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>59</td>
<td>82</td>
<td>68</td>
</tr>
<tr>
<td>Americas</td>
<td>79</td>
<td>78</td>
<td>51</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>63</td>
<td>88</td>
<td>74</td>
</tr>
<tr>
<td>Europe</td>
<td>79</td>
<td>66</td>
<td>47</td>
</tr>
<tr>
<td>* TURKEY</td>
<td>87</td>
<td>90</td>
<td>68</td>
</tr>
<tr>
<td>South East Asia</td>
<td>62</td>
<td>89</td>
<td>75</td>
</tr>
<tr>
<td>Western Pacific</td>
<td>85</td>
<td>94</td>
<td>86</td>
</tr>
<tr>
<td><strong>GLOBAL</strong></td>
<td>67</td>
<td>87</td>
<td>72</td>
</tr>
</tbody>
</table>
**TB Data of Turkey for 2012 year, Patient Numbers**

The number of all TB cases: 14.691

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>New cases</td>
<td>13.535</td>
<td>%92</td>
</tr>
<tr>
<td>Retreatment cases</td>
<td>1.156</td>
<td>%8</td>
</tr>
<tr>
<td>Total cases</td>
<td>14.691</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Male</th>
<th>%59</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Female</td>
<td>%41</td>
</tr>
</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulmonary TB cases</td>
<td>9.391</td>
<td>%64</td>
</tr>
<tr>
<td>Extrapulmonary TB cases</td>
<td>5.300</td>
<td>%36</td>
</tr>
</tbody>
</table>
TB Dispensaries (December 2013)

TB Dispensaries: 177
Mobile Screening Teams
## Distribution of TB Laboratories

<table>
<thead>
<tr>
<th>Laboratory Level</th>
<th>Number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB Dispensary Lab</td>
<td>97</td>
<td>25,1</td>
</tr>
<tr>
<td>State Hospital</td>
<td>87</td>
<td>22,5</td>
</tr>
<tr>
<td>Faculty of Medicine</td>
<td>60</td>
<td>15,5</td>
</tr>
<tr>
<td>Private Hospital</td>
<td>41</td>
<td>10,6</td>
</tr>
<tr>
<td>Training Hospitals</td>
<td>36</td>
<td>9,3</td>
</tr>
<tr>
<td>Private Lab</td>
<td>22</td>
<td>5,7</td>
</tr>
<tr>
<td>Regional TB Lab</td>
<td>20</td>
<td>5,2</td>
</tr>
<tr>
<td>Chest Diseases Hospital</td>
<td>10</td>
<td>2,6</td>
</tr>
<tr>
<td>Private Medical Center</td>
<td>3</td>
<td>0,8</td>
</tr>
<tr>
<td>Public Health Laboratory</td>
<td>2</td>
<td>0,5</td>
</tr>
<tr>
<td>NTRL</td>
<td>1</td>
<td>0,3</td>
</tr>
<tr>
<td>Other</td>
<td>7</td>
<td>1,8</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>386</td>
<td>100,0</td>
</tr>
</tbody>
</table>
Multi-Drug Resistant TB Cases

Numbers of MDR-TB Cases, 2005-2012

- New Cases
- Retreatment Cases
- All Cases

Year
- 2005
- 2006
- 2007
- 2008
- 2009
- 2010
- 2011
- 2012

Numbers of cases
- 0
- 50
- 100
- 150
- 200
- 250
- 300
- 350
Multi-Drug Resistant TB Cases, 2012
Electronic Tuberculosis Management System

• By the aim of improving data quality and integrity, ensuring the real-time monitoring and evaluation of the program and so in order to strengthen the National Tuberculosis Control Program, Electronic Tuberculosis Management System has been established

• The diagnosis, treatment, monitoring and reporting procedures of TB patients can be followed up using the internet with this system until March 2012
Drug Supply Activities

• Antituberculosis medicines of TB patients registered in TB dispensaries are purchased and distributed free by the Ministry

• The distribution of antituberculosis drugs of MDR-TB patients (2nd choice tuberculosis medication) are carried out by The Ministry from January 2008 in a continuous, safe and quick way

• Antituberculosis drugs were started to be distributed via purchasing by the Presidency to I, II. and III. level health care institutions and organizations for TB patients and contacts whether or not they have any social security in accordance with the decision of Cabinet published in the 05/08/2010 dated Official Journal. So the scope and nature of the distribution of tuberculosis drugs are expanded

• Social Security Institution does not pay the bill of prescriptions diagnosed with TB no longer in Turkey
Drug Supply Activities

• Maintenance of Drugs
  – Standard TB Drugs (FREE)
    • ISONIAZID 100 Mg TABLET
    • ISONIAZID 300 Mg TABLET
    • PYRAZINAMIDE 500 Mg TABLET
    • ETHAMBUTOL 500 Mg TABLET
    • RIFAMPICIN 150 Mg KAPSÜL
    • RIFAMPICIN 300 Mg KAPSÜL
    • RIFAMPICIN SÜSPANSİYON
    • STREPTOMYCIN FLAKON
  – MDR-TB Drugs (FREE)
    • OFLOXACIN 200 Mg. TABLET
    • MOXIFLOXACIN 400 Mg TABLET
    • PARAAMİNOSALICYLIC ACID 1 Gr
    • THIOACETAZONE 150 MG TABLET
    • CAPREOMYSIN 1 GR.FLAKON
    • CLOFAZIMINE 100 MG. KAPSÜL
    • CYCLOSERINE 250 MG KAPSÜL
    • PROTIONAMIDE 250 Mg. TABLET
    • AMIKACIN 500 Mg. FLAKON
    • LINEZOLID 600 Mg TABLET
    • LINEZOLID 2 Mg/ml 300 ml inf. solution
Drug Supply Services

• General Distribution
  The demands of public health directorates are sent in quarterly.

• Patient-Based Distribution
  – Second option drugs in patients who have received a diagnosis of MDR/XDR TB when requested by the Agency regarding dispensaries are sent by courier from the Presidency.
  – In demand that do qualify as specialized agencies of the Ministry; chest diseases and thoracic surgery training and research hospitals, the university hospitals report issued by the drug use must have.
Thanks