Improvement of the Information Management System by the Use of e-TB Manager in Managing, Planning, and Decision Making

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Ukraine
Structure of the TB Service in Ukraine

- 105 TB dispensaries, including 82 with in-patient facilities
- 39 TB hospitals for adults
- 21,457 TB beds for adults
- 3 TB hospitals for children and pediatric wards in the TB dispensaries
- 1,265 of pediatric TB beds
- 588 outpatient and polyclinic institutions, which have TB doctors’ offices
- 36 TB sanatoriums for adults and 53 for kids
Dynamics of TB Incidence, All Forms of Active TB, Ukraine, 1990-2013
Incidence of All Forms of Active TB, Ukraine, 2012
NTP Management Challenges

• In light of the shortage of funds, infrastructure of the TB facilities in the regions is huge and practically non-unified.

• M&E system requires radical improvement.

• Rates of drug-resistant TB and TB/HIV co-infection are increasing.

• The system of demand forecasting and pharmaceutical management needs improvement.

• TB service experiences a shortage of staff.
e-TB Manager – National Registry of TB Patients

• e-TB Manager: A comprehensive information system combining key components of the Ukrainian National TB Program on a single technical platform

• Maintenance of the registry is regulated by the Order of the Ministry of Health of Ukraine of October 19, 2012, No. 818, On the Procedure for Keeping the Registry of TB Patients
Main Sections of the e-TB Manager

TB Management Information System

Cases
Allows to search, notify, follow, close, transfer and validate cases

Medicines
Allows to record, search, follow and authorize medicines receiving, orders, transfers, dispensing, movements and stock position.

Management
Allows to generate, search and print reports, indicators, medicine forecasting and data exportation

Administration
Allows to manage the system in order to add, remove and change users, health system structure, medicines, treatment regimens and other features
Main Stages of the e-TB Manager Roll-Out

• Basic adaptation of e-TB Manager in accordance with the requirements of national legislation (including the issues of information security)

• Development of technical infrastructure at the national and regional levels (computers and Internet connection)

• Training of users and implementation of pilot projects at the national level and in some regions

• Enactment of the Order of the MH and transfer to industry at the national level and in all the regions
Current Situation with e-TB Manager in Ukraine

- More than 1,100 users in Ukraine
- All 27 regions work with e-TB Manager
- More than 700 TB facilities have been registered; updated information on the roll-out in the regions can be found at http://ucdc.gov.ua
- More than 95,000 TB cases have been already entered into the e-TB Manager database
- It is planned to enter 100% of TB cases in 2013
e-TB Manager’s Assistance in Decision Making

- e-TB Manager has been facilitating the control of TB treatment and detection of:
  - Cases of treatment default and repeated application for medical care
  - Major violations of TB treatment standards
  - Unjustified use of individualized TB chemotherapy regimens
  - Errors in keeping registration forms and reporting
Matching Data in the Paper Forms with the Data in e-TB Manager (2013)

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<thead>
<tr>
<th></th>
<th>Quarter 1</th>
<th>Quarter 2</th>
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<tbody>
<tr>
<td>Total number of patients (ICD-10 code)/paper report TB 07</td>
<td>11,331</td>
<td>11,271</td>
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<tr>
<td>Total number of patients (ICD-10 code)/TB 07 report generated in the registry</td>
<td>9,282</td>
<td>9,977</td>
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<td>% Cases in the registry report compared to the number of TB cases in paper TB 07 reports</td>
<td>77.84%</td>
<td>85.04%</td>
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Further Steps for Comprehensive Assistance in Decision Making (1)

• Generation of national and international statistical reports along with the analytical reports in e-TB Manager

• Introduction of the drugs module and functions of demand forecasting and TB drugs stock balance monitoring to strengthen the national system of pharmacological management

• Development and introduction of the laboratory module
Further Steps for Comprehensive Assistance in Decision Making (2)

• Finalization of the recording and reporting sections for cases of HIV/TB co-infection and adverse TB drugs reactions

• Implementation of e-TB Manager in all institutions engaged in the treatment of TB patients (AMS, State Penitentiary Service, National Institute of TB and Pulmonology)