New frontiers: Innovation and Access

MODEL OF TB/HIV CO-INFECTION CARE
Tashkent City AIDS Centre

28 February — 1 March, 2019
The international humanitarian organisation “Médecins Sans Frontières” has been providing screening consultations to HIV patients at the Tashkent City AIDS Centre since October 2013.
Tashkent City AIDS Centre

Vertical model

- Reception nurse
- Infectiologist
- Blood collection nurse
- Laboratory

TB Dispensary

- TB Dispensary medical record administrator
- TB doctor
  - Radiotherapist
  - Laboratory technician
- TB doctor
  - TB positive
  - TB negative
- TCAC
- Refer to TB facility

Consultant

Pharmacist

Chief Medical Officer V.D. Barotova
TB/HIV medical services at TCAC in 2018

Number of HIV patients screened for TB
(7,688) 89.1%

Number of patients screened for TB with positive result
(230)

Number of patients who started ARV treatment
(147)

Number of patients screened for TB with negative result
(7,458)

Number of patients requiring Isoniazid preventive therapy
(1,243)

Number of patients receiving Isoniazid preventive therapy
(972) 78.1%

Chief Medical Officer V.D. Barotova
## Sputum examination using GeneXpert MTB/RIF

<table>
<thead>
<tr>
<th>Year</th>
<th>Total patients</th>
<th>MTB+</th>
<th>RIF-susceptible</th>
<th>RIF-resistant</th>
<th>RIF indeter.</th>
<th>Total</th>
<th>MTB+</th>
<th>RIF-susceptible</th>
<th>RIF-resistant</th>
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<th>Adults</th>
<th>Total</th>
<th>MTB+</th>
<th>RIF-resistant</th>
<th>RIF indeter.</th>
<th>Children</th>
<th>Total</th>
<th>MTB+</th>
<th>RIF-resistant</th>
<th>RIF indeter.</th>
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Chief Medical Officer V.D. Barotoga
All patients co-infected with HIV and TB are referred to a TB Dispensary for prevention and treatment. Since February 2016, all HIV patients tested for TB with negative results have been administered Isoniazid free of charge to prevent TB.

- 2016: 1 190 (47.6 %) patients;
- 2017: 898 (65.8 %) patients;
- 2018: 972 (78.1%) patients;
## Diagnostic laboratory tests to identify TB/HIV co-infection (2018)

<table>
<thead>
<tr>
<th>Metrics</th>
<th>Number of patients followed up as at the end of reporting period</th>
<th>Of them, number of new HIV cases referred to follow-up in the reporting period</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Adults</td>
</tr>
<tr>
<td>Number of HIV patients tested for TB</td>
<td>7,688</td>
<td>7,008</td>
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<tr>
<td>Number of patients with positive TB results</td>
<td>230</td>
<td>221</td>
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<tr>
<td>Number of patients with negative TB results</td>
<td>7,458</td>
<td>6,787</td>
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<tr>
<td>Number of HIV patients who started Isoniazid preventive therapy</td>
<td>972</td>
<td>898</td>
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<tr>
<td>Number of patients co-infected with HIV and TB who started or are receiving ARV treatment</td>
<td>147</td>
<td>138</td>
</tr>
</tbody>
</table>

Chief Medical Officer V.D. Barotova
Under a memorandum signed by MoH of Uzbekistan and “Médecins Sans Frontières”, digital X-ray equipment was purchased and installed at TCAC to enable early and timely detection of TB in HIV patients and to provide convenience to patients.
X-ray Room
HIV patients no longer need to go to regional TB facilities or central general hospitals for an X-ray examination as part of their initial or routine screening. The services will be provided at TCAC, thus reducing the risk of TB transmission to other HIV patients and their contacts and saving patients’ time and public transportation costs.

Chief Medical Officer V.D. Barotova
Achievements

- TB diagnostic tools available at TCAC
- UV light installed for infection control
- TB doctor at TCAC
- Laboratory personnel trained to perform GeneXpert
- Improved health education among TCAC medical staff and TB health awareness among HIV patients through distribution of TB brochures
- Increased rates of diagnosed TB cases among HIV patients
HIV/TB brochures

ЧТО ДОЛЖНЫ ЗНАТЬ ЛЮДИ, ЖИВУЩИЕ С ВИЧ, О ТУБЕРКУЛЕЗЕ (ТБ)

ОИВ/ОИТС БИЛАН ЯШОВЧИЛАР СИЛ ХАКИДА НИМА БИЛИШЛАРИ ЛОЗИМ

Chief Medical Officer V.D. Barotova
- Triage of patients presenting with cough
- Patients are unwilling to wear surgical masks
- Challenges with creating backups of digital X-ray equipment
THANK YOU FOR YOUR ATTENTION!