Developing national plan in Uzbekistan

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Uzbekistan: General Information

Capital: Tashkent

Population: more than 31,5 million people

Administrative and Territorial Structure: Autonomous Republic of Karakalpakistan, 12 regions, 226 cities and districts.
Deep restructuring the entire health system.

Stage of development of structural reforms (2003-2007)

Beginning of the reform of the system of specialized medical care.

The initial stage 1998-2003

Reforming the system of specialized medical care at the national, regional and district levels;

Further development of the system of higher and secondary medical education, including the training of management personnel in the management of medical institutions;

Restructuring the health management system;

The stage of further development and deepening of structural reforms (2008 - present)
8.1% of the population was HBsAg+ in 2015 (RIV)

12% of the HBsAg+ have a viral load over 2,000 IU/mL

*Total population: more than 31.5 million people

Table 1. Seroprevalence of HBsAg, anti-HCV, and anti-HIV among various groups in Uzbekistan

<table>
<thead>
<tr>
<th>Category</th>
<th>n</th>
<th>M:F</th>
<th>Age, years</th>
<th>HBsAg positive</th>
<th>Anti-HCV positive</th>
<th>Anti-HIV positive</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>range</td>
<td>mean ± SD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low-risk group</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General population</td>
<td>929</td>
<td>513:416</td>
<td>15–64</td>
<td>42.1±3.6</td>
<td>124 (13.3)</td>
<td></td>
</tr>
<tr>
<td>Blood donor (paid)</td>
<td>346</td>
<td>294:52</td>
<td>21–49</td>
<td>34.3±1.6</td>
<td>18 (5.2)</td>
<td></td>
</tr>
<tr>
<td>Tashkent</td>
<td>211</td>
<td>174:37</td>
<td>18–53</td>
<td>37.6±2.1</td>
<td>12 (5.7)</td>
<td></td>
</tr>
<tr>
<td>Fergana</td>
<td>135</td>
<td>120:15</td>
<td>21–49</td>
<td>32.4±1.8</td>
<td>6 (4.4)</td>
<td></td>
</tr>
</tbody>
</table>

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Diagnosis of the General Population

• In 2015, it is assumed that 233,700 individuals have been diagnosed with chronic hepatitis B (WHO EURO)

• Based on data from 2013, it is assumed that 10,000 individuals are diagnosed annually (Expert Consensus)

> Based on pregnant women screening and blood donor screening

WHO EURO. European health for all database (HFA-DB). July 2016. Available at: http://data.euro.who.int/hfadb/
HDV

- No current data on HDV
HCV Prevalence

• Anti-HCV Prevalence

<table>
<thead>
<tr>
<th>Year of estimate</th>
<th>anti-HCV Prevalence</th>
<th>Total Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-64 age group (RIV dates)</td>
<td>6.2%</td>
<td></td>
</tr>
<tr>
<td>2015 – all ages</td>
<td>4.5%</td>
<td>1,328,800</td>
</tr>
</tbody>
</table>

• Viremic Rate – 70% (Regional Analog)

<table>
<thead>
<tr>
<th>Year of estimate</th>
<th>Viremic Prevalence</th>
<th>Total Cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>all ages (RIV)</td>
<td>4.34%</td>
<td>930,000</td>
</tr>
</tbody>
</table>
Genotype Distribution – Utilized the data from RIV

<table>
<thead>
<tr>
<th></th>
<th>G1a</th>
<th>G1b</th>
<th>G1 Total</th>
<th>G2</th>
<th>G3</th>
<th>G4</th>
<th>G5</th>
<th>G6</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIV 2016</td>
<td>77%</td>
<td>78%</td>
<td>4%</td>
<td>18%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![VHC Genotypes distribution](image)
Diagnosed and treated Patients

- Previously Diagnosed – 24,700
- 6.7% of viremic infections diagnosed
- Newly Diagnosed – 2,500 in 2015
  - 10% of total diagnosed are diagnosed annually

- How many were treated in 2017???
  - Anyone is eligible for treatment as it is all out of pocket and many are buying generic DAAs
  - Following SVR: G1 – 90%, G2 – 90%, G3 – 90%, G4 – 90%

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Analysis of health system reforms in the Republic of Uzbekistan

The initial stage 1998-2003
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The Decree of The Cabinet of Ministers 24 July 2017
On additional measures to prevent spread of infectious diseases in the Republic of Uzbekistan

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On additional measures to prevent spread of infectious diseases in the Republic of Uzbekistan
Main Goal

To prevent spread and to meet goals on elimination of viral hepatitis by 2030, to establish effective prophylaxis system, to introduce most up-to-date diagnostic methods and treatment approaches, to strengthen infrastructure/equipment as well as human resources, as well as to improve the structure of infectious diseases facilities.
24 July 2017 The Decree of The Cabinet of Ministers
“On additional measures to prevent spread of infectious diseases in the Republic of Uzbekistan”

4 Strategic Priority Areas

1. Improvement of regulatory framework on diagnostics, prophylaxis and treatment of infectious diseases.

2. Further improvements of measures on prophylaxis, diagnostics and treatment of chronic viral hepatitis.

3. Further development and modernization of equipment and technical basis of infectious diseases facilities of the Republic.

## Totally additional expenses for Action Plan implementation

<table>
<thead>
<tr>
<th>Source of Funds</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government budget:</td>
<td>4.95 (for treatment HCV)</td>
</tr>
<tr>
<td>Government program funds</td>
<td>9.76</td>
</tr>
<tr>
<td>International entities, financial institutes and grants</td>
<td>4.87</td>
</tr>
</tbody>
</table>
Thank you for attention!