HCV screening in homosexual communities

Eszter Ujhelyi
Elimination of Viral Hepatitis in Hungary
Lesson learnt and the way forward
Budapest 30-31 October 2019
Hepatitis screening in roma population 2018 (n=101)

<table>
<thead>
<tr>
<th>screening</th>
<th>positive</th>
<th>%</th>
<th>interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBsAg/aHBc</td>
<td>2</td>
<td>1,38</td>
<td>Acute or chronic HBV infection</td>
</tr>
<tr>
<td>aHBs</td>
<td>78</td>
<td>54,00</td>
<td>HBV vaccinated</td>
</tr>
<tr>
<td>Only aHBc</td>
<td>4</td>
<td>3,00</td>
<td>occult hepatitis</td>
</tr>
<tr>
<td>aHBs/aHBc</td>
<td>4</td>
<td>3,00</td>
<td>Recovered HBV infection</td>
</tr>
<tr>
<td>HAV total</td>
<td>25</td>
<td>17,00</td>
<td>Recovered HAV infection</td>
</tr>
<tr>
<td>HCV</td>
<td>22</td>
<td>15,00</td>
<td>HCV infected</td>
</tr>
<tr>
<td>HIV</td>
<td>0</td>
<td>0,00</td>
<td>HIV infected</td>
</tr>
<tr>
<td>Lues</td>
<td>0</td>
<td>0,00</td>
<td>syphilis</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;18 years</td>
<td>37</td>
</tr>
<tr>
<td>18-25 years</td>
<td>18</td>
</tr>
<tr>
<td>25-30 years</td>
<td>14</td>
</tr>
<tr>
<td>30-40 years</td>
<td>34</td>
</tr>
<tr>
<td>&gt;40 years</td>
<td>38</td>
</tr>
<tr>
<td>Total</td>
<td>141</td>
</tr>
</tbody>
</table>
Hepatitis screening among pregnant women VIII district (2018) (n=392)

<table>
<thead>
<tr>
<th>screening</th>
<th>positive</th>
<th>%</th>
<th>interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HBsAg/aHBc</td>
<td>1</td>
<td>0,25</td>
<td>Acute or chronic HBV infection</td>
</tr>
<tr>
<td>aHBs</td>
<td>168</td>
<td>43,00</td>
<td>HBV vaccinated</td>
</tr>
<tr>
<td>Only aHBc</td>
<td>13</td>
<td>3,30</td>
<td>occult hepatitis</td>
</tr>
<tr>
<td>aHBs/aHBc</td>
<td>9</td>
<td>2,30</td>
<td>Recovered HBV infection</td>
</tr>
<tr>
<td>HAV total</td>
<td>105</td>
<td>27,00</td>
<td>Recovered HAV infection</td>
</tr>
<tr>
<td>HCV</td>
<td>10</td>
<td>2,60</td>
<td>HCV infected</td>
</tr>
<tr>
<td>HIV</td>
<td>3</td>
<td>0,77</td>
<td>HIV infected</td>
</tr>
<tr>
<td>Lues</td>
<td>7</td>
<td>1,80</td>
<td>syphilis</td>
</tr>
</tbody>
</table>

**Age**

<table>
<thead>
<tr>
<th>Age</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;18 years</td>
<td>12</td>
</tr>
<tr>
<td>18-25 years</td>
<td>108</td>
</tr>
<tr>
<td>25-30 years</td>
<td>127</td>
</tr>
<tr>
<td>30-40 years</td>
<td>131</td>
</tr>
<tr>
<td>&gt;40 years</td>
<td>14</td>
</tr>
<tr>
<td>Total</td>
<td>392</td>
</tr>
<tr>
<td>#</td>
<td>Age</td>
</tr>
<tr>
<td>----</td>
<td>--------</td>
</tr>
<tr>
<td>1.</td>
<td>&gt;50</td>
</tr>
<tr>
<td>2.</td>
<td>45-50</td>
</tr>
<tr>
<td>3.</td>
<td>40-45</td>
</tr>
<tr>
<td>4.</td>
<td>35-40</td>
</tr>
<tr>
<td>5.</td>
<td>30-35</td>
</tr>
<tr>
<td>6.</td>
<td>25-30</td>
</tr>
<tr>
<td>7.</td>
<td>20-25</td>
</tr>
<tr>
<td>8.</td>
<td>18-20</td>
</tr>
<tr>
<td>9.</td>
<td>&lt;18</td>
</tr>
<tr>
<td>10.</td>
<td>unknown</td>
</tr>
<tr>
<td></td>
<td>Total</td>
</tr>
</tbody>
</table>
## Results (n= 140)

<table>
<thead>
<tr>
<th></th>
<th>HIV</th>
<th>HBsAg</th>
<th>HCV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positive</td>
<td></td>
<td>4</td>
<td>35</td>
</tr>
<tr>
<td>Doubtful (haemolytic)</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>%</td>
<td></td>
<td>2,85</td>
<td>25</td>
</tr>
</tbody>
</table>
One year Prison HCV screening (2018-2019)

<table>
<thead>
<tr>
<th>Number of prisons</th>
<th>Sample</th>
<th>HCV antibody positive</th>
<th>PCR positive</th>
<th>VL &gt; 500 IU/ml</th>
<th>VL &lt; 500 IU/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>4,011</td>
<td>406</td>
<td>285</td>
<td>233</td>
<td>52</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10,12 %</td>
<td>7,1 %</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5,8 %</td>
<td>1,29 %</td>
</tr>
</tbody>
</table>
1 year HIV / HCV screening program
Joint Program of District VIII Drug Conciliation Forum and Positive Life Foundation
(2 times a week)

- HIV and HCV rapid test on fingertip blood
- In the case of positive serology, referral to a hepatologist or HIV outpatient clinic
- Fill in the questionnaire
  - Age
  - Nationality
  - Residence in Hungary
  - Sex
  - Sexual orientation
  - Number of Partners
  - Drug addiction
## Results

<table>
<thead>
<tr>
<th>Participants</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Men</td>
<td>67%</td>
</tr>
<tr>
<td>Women</td>
<td>33%</td>
</tr>
<tr>
<td>Foreigners living in Hungary</td>
<td>4%</td>
</tr>
</tbody>
</table>

- **Participants:** 320
<table>
<thead>
<tr>
<th>Residence</th>
<th>Participants</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>73</td>
<td>23</td>
</tr>
<tr>
<td>Budapest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. district</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>II. district</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>III. district</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>IV. district</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>V. district</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>VI. district</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>VII. district</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>VIII. district</td>
<td>131</td>
<td>41</td>
</tr>
<tr>
<td>IX. district</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>X. district</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>XI. district</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>XII. District</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>XIII. District</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>XIV. District</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>XV. District</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>XVI. District</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>XVII. District</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>XVIII. District</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>XIX. District</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>XX. District</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>XXI. district</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>XXII. district</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Age</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>---------------</td>
<td>----</td>
<td></td>
</tr>
<tr>
<td>&lt; 20 years old</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>20-25 years old</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>26-30 years old</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>31-35 years old</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>36-40 years old</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>&gt;40 years old</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>
### HCV positivity

<table>
<thead>
<tr>
<th></th>
<th>Number</th>
<th>Transmission</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCV positive</td>
<td>8</td>
<td>IDU</td>
<td>2,5%</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>MSM</td>
<td>0,6%</td>
</tr>
<tr>
<td>HCV/HIV coinfection</td>
<td>1</td>
<td>MSM</td>
<td>0,3%</td>
</tr>
</tbody>
</table>
## Harmful passion

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoking</td>
<td>40 %</td>
<td>60%</td>
</tr>
<tr>
<td>Alcohol consumption</td>
<td>61 %</td>
<td>39%</td>
</tr>
<tr>
<td>Drug use</td>
<td>10 %</td>
<td>90%</td>
</tr>
</tbody>
</table>
# Sexual orientation

<table>
<thead>
<tr>
<th>Orientation</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hetero</td>
<td>61</td>
</tr>
<tr>
<td>Homo</td>
<td>35</td>
</tr>
<tr>
<td>Bisexual</td>
<td>4</td>
</tr>
</tbody>
</table>
## Number of sexual partners

<table>
<thead>
<tr>
<th>Partner number - last year</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 partner</td>
<td>9</td>
</tr>
<tr>
<td>1 partner</td>
<td>43</td>
</tr>
<tr>
<td>5 partner</td>
<td>28</td>
</tr>
<tr>
<td>10 partner</td>
<td>9</td>
</tr>
<tr>
<td>10-50 partner</td>
<td>8</td>
</tr>
<tr>
<td>&gt;50 partner</td>
<td>1</td>
</tr>
</tbody>
</table>
## Condom use

<table>
<thead>
<tr>
<th>Condom use</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condom use with new partner</td>
<td>76</td>
</tr>
<tr>
<td>Never condom use with new partner</td>
<td>24</td>
</tr>
</tbody>
</table>
## HCV incidence in the HIV-infected MSM population

<table>
<thead>
<tr>
<th>Year</th>
<th>HIV infected MSM</th>
<th>HIV/HCV coinfection HCV PCR positive</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>260</td>
<td>20</td>
<td>7.69</td>
</tr>
<tr>
<td>2016</td>
<td>158</td>
<td>6</td>
<td>3.79</td>
</tr>
<tr>
<td>2017</td>
<td>48</td>
<td>3</td>
<td>6.25</td>
</tr>
<tr>
<td>2018</td>
<td>139</td>
<td>7</td>
<td>5.03</td>
</tr>
<tr>
<td>2019</td>
<td>245</td>
<td>8</td>
<td>3.26</td>
</tr>
</tbody>
</table>
Needs assessment for HCV screening in MSM population (Positive Life Foundation)

Written information for the Hungarian gay communities through facebook, gay saunas, gay bars, and dating websites (like Gay Romeo)

- availability of free of charge HCV screening (time, location)
- availability and effectiveness of interferon free treatment

Application deadline: end of october

Question: financing