Epidemiology of Hepatitis B & C in Latvia

Centre for Disease Prevention and Control of Latvia

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Content

• B/C hepatitis number of cases and incidence rates
• B/C hepatitis by age and gender
• Transmission route of acute hepatitis B/C
• B/C hepatitis in children
• Outbreaks of B/C hepatitis
• Conclusion
Surveillance of hepatitis B in Latvia

- Hepatitis B acute
- Hepatitis B chronic
- Hepatitis B chronic asymptomatic
Hepatitis B acute and chronic in 2015 I-IX

Hepatitis B acute

Hepatitis B chronic
Hepatitis B acute and chronic
Incidence rate per 100 000 population
by age group and sex, 2010-2014

Hepatitis B acute

Hepatitis B chronic

2010-2014 in children under 1 year hepatitis B acute – one case, chronic – five cases
Hepatitis B
Incidence rate per 100 000 population in regions, 2010–2014 (average)

Hepatitis B acute
(388)

Hepatitis B chronic*
(332)

*{B18.0-18.1}
Hepatitis B acute by date of notification in 1992 - 2014
Hepatitis B acute, 2006-2014
Prevalence of risk factors by gender,

N=980

Female

Male

IDU Sex NOSO Household Other Unknown
Hepatitis B acute, 2006-2014
Prevalence of risk factors in age group
Hepatitis B acute
Risk factors trends from 2006 to 2014

Nosocomial transmission 165 case of 980 or 16.5%
Surveillance of hepatitis C in Latvia

Hepatitis C acute  Hepatitis C chronic

Hepatitis C, 2015 Jan-Oct

Hepatitis C acute

Hepatitis C chronic
Hepatitis C acute and chronic
Incidence rate per 100 000 population

Cases per 100 000 population

- Hepatitis C acute
- Hepatitis C chronic

Graph showing the incidence rate of Hepatitis C acute and chronic per 100,000 population from 1992 to 2014.
Hepatitis C acute and chronic
Incidence rate per 100 000 population by regions in 2010-2014

Hepatitis C acute
(288)

Hepatitis C chronic
(6609)
Hepatitis C acute and chronic
Incidence rate per 100 000 population
by age group, 2010-2014

Hepatitis C acute

Hepatitis C chronic

2010 -2014 in children under 1 year hepatitis C acute – two cases
Hepatitis C incidence rate in males by age groups from 2008 to 2014
Hepatitis C incidence rate in females by age groups from 2008 to 2014
Hepatitis C in children aged 0-17 years
Hepatitis C acute in 1992 - 2014
Hepatitis C acute, 2006-2014

Prevalence of risk factors by gender

N=694

Female

Male

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

IDU  Noso  Sex  Occupational  Mother to child  Other  Unknown
Hepatitis C acute, 2006-2014
Prevalence of risk factors in age group
Hepatitis C acute
Risk factors trends in 2006-2014

Nosocomial transmission 166 cases of 694 or 23.9% average
Hepatitis B and C outbreaks, 2008 - 2015 (Jan-Sep)

- **Hepatitis B acute (24 outbreaks, 79 cases):**
  - 10 sexual contacts - 21 cases
  - 7 nosocomial - 39 cases in 6 hospitals
  - 3 household contacts - 11 cases (in one social care setting and house)
  - 3 IDU - 6 cases
  - 1 homosexual contacts – 2 cases

- **Hepatitis C acute (6 outbreaks, 16 cases):**
  - 4 nosocomial - 12 cases in 3 hospitals and in 1 outpatients clinic
  - 1 sexual contacts - 2 cases
  - 1 injecting drug use - 2 cases
Guidance for infection control in healthcare setting for VHB/VHC/HIV

# HBV/HCV prevalence in different groups of population

<table>
<thead>
<tr>
<th>Iedzīvotāju</th>
<th>% HBsAg + (gads)</th>
<th>% Anti-HCV + (gads)</th>
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<tbody>
<tr>
<td>General population</td>
<td>-</td>
<td>2.4 % (2011)¹</td>
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<td>Blood donors (first donation)</td>
<td>0.5 % (2013)²</td>
<td>1.5% (2013)²</td>
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<td>Risk group:</td>
<td></td>
<td></td>
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<tr>
<td>Injecting drug users</td>
<td>3.0% (2013)⁴</td>
<td>83.7% (2013)⁴</td>
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<tr>
<td>MSM</td>
<td>8.8% (2013)⁵</td>
<td>2.0% (2013)⁵</td>
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<tr>
<td>Prisoners</td>
<td>7% (2014)⁶</td>
<td>34% (2014)⁶</td>
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Conclusion

- Increasing incidence rate of chronic hepatitis C among 18-39 age group
- The main risk factors for younger people - IDU, sexual route, for the elderly – nosocomial
- Significant risk in the healthcare setting
- About 30% risk factors are unknown
Challenges

- Screening programs among risk groups
- Confirmatory testing free of charge
- Infection control measures in healthcare setting
- Education measures of hepatitis B/C prevention issues
- Vaccination against hepatitis B/A for chronic hepatitis C patients, risk groups
- Epidemiological surveillance of liver cirrhosis and HCC
- Implementing of the HIV / AIDS, STI and hepatitis B/C, prevention plan
Thank you

If you have the flu, your work is through.