Hepatitis In Review: Boston 2012
Hepatitis B Infection: Boston, 2010–2012
Reported Hepatitis B Cases by Year: Boston, 2010–2012 (n=1,090)
Incidence of Reported Hepatitis B Cases: Boston, 2010–2012

Rate per 100,000

Years

2010 2011 2012
Reported Hepatitis B Cases by Gender: Boston, 2011–2012

Female

Male

Percent of Total

2011 2012
Reported Hepatitis B Infection by Age Group: Boston, 2011–2012

Age (years)

Cases

<20 20–29 30–39 40–49 50–59 60–69 >69

2011 2012
Reported Hepatitis B Cases by Race/Ethnicity: Boston, 2011–2012

Percent of Reported Cases

- Asian: 2011 (40%), 2012 (50%)
- Black: 2011 (20%), 2012 (25%)
- Hispanic: 2011 (10%), 2012 (15%)
- Other: 2011 (5%), 2012 (7%)
- White: 2011 (15%), 2012 (20%)
- Unknown: 2011 (10%), 2012 (12%)
Hepatitis C Infection: Boston, 2004–2012
Definitions

• Laboratory criteria:
  • Anti-HCV positive (repeat reactive) by EIA
  • Anti-HCV positive by RIBA
  • HCV RNA positive

• Confirmed cases:
  • Anti-HCV positive (repeat reactive) by EIA with a positive signal to cut-off ratio
  • Anti-HCV positive by RIBA
  • HCV RNA positive

• Probable cases
  • Anti-HCV positive (repeat reactive) by EIA alone
Reported Hepatitis C Cases by Year: Boston, 2004–2012 (n=8,640)
Incidence of Reported Hepatitis C Cases: Boston, 2004–2012

![Bar chart showing the incidence of reported Hepatitis C cases in Boston from 2004 to 2012. The rate per 100,000 population is on the y-axis, and the years are on the x-axis. The rates peak in 2004 and show a general decline until 2012.](chart.png)
Reported Hepatitis C Cases by Gender: Boston, 2011–2012

Female

Male

Percent of Reported Cases

2011 2012
Reported Hepatitis C Infection by Age Group: Boston, 2011–2012

- 2011
- 2012
Reported Hepatitis C Cases by Race/Ethnicity: Boston, 2011–2012

- Asian
- Black
- Hispanic
- Other
- White
- Unknown

Percent of Reported Cases

2011 2012
Reported Hepatitis C Cases by Location at the Time of Diagnosis: Boston, 2011–2012

- Neighborhood: 68%
- Drug Treatment Program: 16%
- Correctional Facility: 4%
- Homeless Shelter: 12%
Incidence rate for Hepatitis C Cases including congregate settings: 2012

Incidence rate for Hepatitis C Cases excluding congregate settings: 2012

Rate per 100,000 Population

- 0.00 - 75.00
- 75.01 - 150.00
- 150.01 - 225.00
- 225.01 - 300.00
- > 300
# Risk Factors* in Reported Hepatitis C Cases:
Boston, 2011–2012

<table>
<thead>
<tr>
<th>Risk Factor</th>
<th>2011 (N=1,021)</th>
<th>2012 (n=1,052)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transfusion prior to 1992</td>
<td>4%</td>
<td>3%</td>
</tr>
<tr>
<td>Long term dialysis</td>
<td>1%</td>
<td>0.5%</td>
</tr>
<tr>
<td>IDU</td>
<td>54%</td>
<td>55%</td>
</tr>
<tr>
<td>Household contact</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Sexual partner</td>
<td>4%</td>
<td>3%</td>
</tr>
</tbody>
</table>

*Not mutually exclusive
Hepatitis C Infection in Adolescents and Young Adults: Boston, 2004–2012
Hepatitis C Infection: Boston 2004–2012

- Reported cases: 8,640
- Reported cases among 15–25 year olds: 911
- 15–25 years olds account for 10.5% of all cases
Reported Hepatitis C Cases in 15–25 Year Olds by Year: Boston, 2004–2012 (n=911)
Incidence of Reported Hepatitis C Cases in 15–25 Year Olds by Year: Boston, 2004–2012 (n=911)
Reported Hepatitis C Cases in 15–25 Year Olds by Gender: Boston, 2001–2012

- **Female**
  - 2011
  - 2012

- **Male**
  - 2011
  - 2012

**Percent of Reported Cases**

- **2011**
- **2012**
Reported Hepatitis C Infection in 15–25 Year Olds by Age: Boston, 2004–2012 (n=911)
Reported Hepatitis C Cases in 15–25 Year Olds by Birthplace: Boston, 2004–2012

- United States: 68%
- Caribbean: 23%
- Other: 4%
- Unknown: 5%
Drug Use as a Risk Factor* in Reported Hepatitis C Cases among 15–25 year olds: Boston, 2004–2012

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Route</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injection</td>
<td>61%</td>
<td>69%</td>
<td>68%</td>
</tr>
<tr>
<td>Intranasal</td>
<td>15%</td>
<td>10%</td>
<td>18%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drug Class</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opiates</td>
<td>48%</td>
<td>65%</td>
<td>55%</td>
</tr>
<tr>
<td>Cocaine</td>
<td>25%</td>
<td>29%</td>
<td>27%</td>
</tr>
<tr>
<td>Benzodiazepines</td>
<td>8%</td>
<td>14%</td>
<td>10%</td>
</tr>
</tbody>
</table>

*Not mutually exclusive
## Characteristics of Reported Hepatitis C Cases in 15–25 Year Olds by Age Group: Boston, 2004–2012 (n=911)

<table>
<thead>
<tr>
<th></th>
<th>Age 15–18 Years (N=53)</th>
<th>Age 19–25 Years (N=858)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>36%</td>
<td>49%</td>
</tr>
<tr>
<td>Race: White</td>
<td>68%</td>
<td>70%</td>
</tr>
<tr>
<td>Neighborhood</td>
<td>64%</td>
<td>66%</td>
</tr>
<tr>
<td>IDU</td>
<td>47%</td>
<td>64%</td>
</tr>
<tr>
<td>Opiates: any route</td>
<td>36%</td>
<td>52%</td>
</tr>
</tbody>
</table>
Reported Hepatitis C Cases in 15–25 Year Olds by Location at the Time of Diagnosis: Boston, 2004–2012

- 66% Neighborhood
- 21% Drug Treatment Program
- 9% Homeless Shelter
- 4% Correctional Facility
Hepatitis C Case Counts
Age 15-25 years including congregate settings: 2004-2012

Hepatitis C Case Counts
Age 15-25 years excluding congregate settings: 2004-2012
Incidence rate for Hepatitis C Cases
Age 15-25 years including congregate settings: 2004-2012

Incidence rate for Hepatitis C Cases
Age 15-25 years excluding congregate settings: 2004-2012

Rate per 100,000 Population
- 0.00 - 75.00
- 75.01 - 150.00
- 150.01 - 225.00
- 225.01 - 300.00
- > 300

Rate per 100,000 Population
- 0.00 - 75.00
- 75.01 - 150.00
- 150.01 - 225.00
- 225.01 - 300.00
- > 300
## Characteristics of Reported Hepatitis C Cases in 15–25 Year Olds by Location: Boston, 2004–2012 (n = 911)

<table>
<thead>
<tr>
<th></th>
<th>Homeless</th>
<th>Drug Treatment</th>
<th>Neighborhood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>48%</td>
<td>52%</td>
<td>45%</td>
</tr>
<tr>
<td>Age: 23–25 (years)</td>
<td>70%</td>
<td>41%</td>
<td>54%</td>
</tr>
<tr>
<td>Race: White</td>
<td>77%</td>
<td>77%</td>
<td>65%</td>
</tr>
<tr>
<td>IDU</td>
<td>73%</td>
<td>76%</td>
<td>55%</td>
</tr>
<tr>
<td>Opiates: any route</td>
<td>74%</td>
<td>58%</td>
<td>45%</td>
</tr>
</tbody>
</table>

**Acute Confirmed**
- n=35
- Genotype
- PCR +

**Confirmed Non-Acute**
- n=501
- Genotype
- PCR +
- Signal-to-cutoff ratio or RIBA (8 PCR-)

**Probable**
- n=375
- PCR -
- No Confirmatory Test
For More Information:

BOSTON PUBLIC HEALTH COMMISSION
Communicable Disease Control Division

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Boston, MA 02118
Phone: 617–534–5611
Fax: 617–534–5905

Website: www.bphc.org