Epidemiology and Prevention of Viral Hepatitis A to E: An Overview

Hepatitis Branch
Centers for Disease Control and Prevention
Viral Hepatitis - Historical Perspective

Viral hepatitis

“Infectious”

A

NANB

“Serum”

B

C

D

E

F, G, ? other

Parenterally transmitted

Enterically transmitted
# Viral Hepatitis - Overview

<table>
<thead>
<tr>
<th>Source of virus</th>
<th>Type of Hepatitis</th>
<th>Route of transmission</th>
<th>Chronic infection</th>
<th>Prevention</th>
</tr>
</thead>
<tbody>
<tr>
<td>feces</td>
<td>blood/ blood-derived body fluids</td>
<td>percutaneous permucosal</td>
<td>no</td>
<td>pre/post-exposure immunization</td>
</tr>
<tr>
<td>blood/ blood-derived body fluids</td>
<td>percutaneous permucosal</td>
<td>yes</td>
<td>post-exposure immunization</td>
<td></td>
</tr>
<tr>
<td>blood/ blood-derived body fluids</td>
<td>percutaneous permucosal</td>
<td>yes</td>
<td>blood donor screening; risk behavior modification</td>
<td></td>
</tr>
<tr>
<td>blood/ blood-derived body fluids</td>
<td>percutaneous permucosal</td>
<td>yes</td>
<td>pre/post-exposure immunization; risk behavior modification</td>
<td></td>
</tr>
<tr>
<td>feces</td>
<td>fecal-oral permucosal</td>
<td>yes</td>
<td>ensure safe drinking water</td>
<td></td>
</tr>
</tbody>
</table>

*Source: CDC*
Acute Viral Hepatitis by Type, United States, 1982-1993

Source: CDC Sentinel Counties Study on Viral Hepatitis
### Estimates of Acute and Chronic Disease Burden for Viral Hepatitis, United States

<table>
<thead>
<tr>
<th></th>
<th>HAV</th>
<th>HBV</th>
<th>HCV</th>
<th>HDV</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute infections</strong> (x 1000)/year*</td>
<td>125-200</td>
<td>140-320</td>
<td>35-180</td>
<td>6-13</td>
</tr>
<tr>
<td><strong>Fulminant deaths/year</strong></td>
<td>100</td>
<td>150</td>
<td>?</td>
<td>35</td>
</tr>
<tr>
<td><strong>Chronic infections</strong></td>
<td>0</td>
<td>1-1.25</td>
<td>3.5</td>
<td>70,000</td>
</tr>
<tr>
<td><strong>Chronic liver disease deaths/year</strong></td>
<td>0</td>
<td>5,000</td>
<td>8-10,000</td>
<td>1,000</td>
</tr>
</tbody>
</table>