Hepatitis B Overview

Chari Cohen, DrPH, MPH
Director of Public Health
Hepatitis B Foundation

May 19, 2015
Hepatitis A, B and C are all distinct viruses that infect the liver and cause separate illnesses!

<table>
<thead>
<tr>
<th>Source of Virus</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feces</td>
<td>Feces</td>
<td>Blood, infected body fluids</td>
<td>Blood, infected body fluids</td>
</tr>
<tr>
<td>Transmission Route</td>
<td>Fecal-oral</td>
<td>Direct contact with infected body fluids (blood contact, sexual contact)</td>
<td>Direct contact with infected body fluids (blood contact, sometimes sexual contact)</td>
</tr>
<tr>
<td>Chronic Infection?</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Vaccine-Preventable?</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
Hepatitis B Virus

Definition
- HBV is the most common, serious liver infection in the world
  - Acute vs. chronic infection

Transmission
- Direct blood contact
- Sexual transmission
- From mother to child
  - During the labor and delivery process
  - Most common route worldwide

Prevention
- Safe and effective vaccine, the world’s 1st anti-cancer vaccine!
- 3-doses offers lifelong protection

Outcomes of Chronic Infection
- Up to 25% will die prematurely from cirrhosis, primary liver cancer
  (Hepatocellular Carcinoma (HCC)), liver failure
Hepatitis B Statistics

**Worldwide:**
- 2 billion infections (1/3 of all people)
- 350 million chronic infections
- 67% in Asia and Pacific Islands
- Up to 600,000 deaths per year

**In the U.S.:**
- 2 million Americans chronically infected
- 50,000-70,000 new infections annually
- Up to 1,000 perinatal infections annually
Hepatitis B Health Disparities

Chronic HBV & HCC represent the #1 health disparities for Asians and Pacific Islanders (API) in the U.S.

- 50% of U.S. HBV burden occurs in APIs
- Around 10% of APIs in the U.S. are infected with HBV
- Primary liver cancer (HCC) is the 8th leading cause of cancer death in Caucasians, but the 3rd leading cause of cancer death among APIs
- HCC rates in API men:
  - 13x higher in Vietnamese men
  - 8x higher in Korean men
  - 6x higher in Chinese men
- HBV also disproportionately affects African immigrants
Hepatitis B in the U.S.: Critical Gaps

- Only 30% of infected individuals are diagnosed
- Only 15% of infected individuals enter care
- Less than 3% receive FDA-approved treatment
Barriers to Screening & Linkage to Care

- If a doctor recommends testing, a patient is 4 times more likely to be tested!
- If a doctor recommends testing AND a patient asks for it, they are 8 times more likely to be tested!
Federal & Community Response

- CDC Screening Guidelines: 2008
- IOM Report: 2010
- USPSTF Screening Recommendations: 2014
- Hep B United national coalition
- CDC’s Know Hepatitis B Campaign
Thank You

Chari.Cohen@hepb.org

Hepatitis B Foundation

Hep B United