Hepatitis B and the Opioid Epidemic: Policy and Practice Opportunities to Increase Adult Hepatitis B Vaccination

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United States Conference on AIDS
September 6, 2019
Chronic Hepatitis B Virus Infection in the U.S.

- Up to 2.2 million individuals living with chronic hepatitis B in the U.S.

- 2/3 of individuals with chronic hepatitis B are **unaware** of their infection in the U.S.

- Only 25% of adults in the U.S. are vaccinated against hepatitis B
  - Universal childhood hepatitis B vaccination in the U.S. began in the mid-1990s

- 1 in 4 individuals with unmanaged chronic hepatitis B develop liver cancer, liver failure and/or cirrhosis
  - Individuals with **chronic hepatitis B can develop liver cancer without cirrhosis**
Acute Hepatitis B Rate by State – 2016

- 729% increase in ME from ‘15-’17
- 114% increase in KY, TN, WV from ‘09-’13
- 78% increase in southeastern MA in 2017
- 62% increase in NC from ‘12-’16

Centers for Disease Control and Prevention
Hepatitis B Vaccination Coverage (≥3 Doses) among Adults Aged ≥ 19 Years* in the U.S.
National Health Interview Survey–US, 2016

National Foundation for Infectious Diseases
Vaccination Coverage Among Adults in the United States, National Health Interview Survey, 2016.
www.cdc.gov/vaccines/imz-managers/coverage/adultvaxview/NHIS-2016.html
Adults Who Should Be Screened for Hepatitis B

- HIV positive persons
- Persons who inject drugs
- Men who have sex with men
- Persons with chronic liver disease
- Persons with hepatitis C
- Persons with diabetes
- Persons with end stage renal disease and those on hemodialysis
- Pregnant women
- Persons requiring immunosuppressive therapy
- Persons from regions with a ≥2% prevalence of hepatitis B
- Incarcerated persons
- Healthcare personnel
- Household contacts or sex partners of persons with chronic hepatitis B

Vaccinate All Adults at Risk for Hepatitis B

AND

All Adults who Request Vaccination
<table>
<thead>
<tr>
<th>Region</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>All</td>
</tr>
<tr>
<td>Asia</td>
<td>All</td>
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<tr>
<td>Australia and South Pacific</td>
<td>All except Australia and New Zealand</td>
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<tr>
<td>Middle East</td>
<td>All except Cyprus and Israel</td>
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<tr>
<td>Eastern Europe</td>
<td>All except Hungary</td>
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<tr>
<td>Western Europe</td>
<td>Malta, Spain, and indigenous populations in Greenland</td>
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<tr>
<td>North America</td>
<td>Alaska natives and indigenous populations in northern Canada</td>
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<tr>
<td>Mexico and Central America</td>
<td>Guatemala and Honduras</td>
</tr>
<tr>
<td>South America</td>
<td>Ecuador; Guyana; Suriname; Venezuela; and Amazonian areas of Bolivia, Brazil, Colombia, and Peru</td>
</tr>
<tr>
<td>Caribbean</td>
<td>Antigua and Barbuda, Dominica, Grenada, Haiti, Jamaica, St. Kitts and Nevis, St. Lucia, and Turks and Caicos Islands</td>
</tr>
</tbody>
</table>
Hepatitis B Screening Tests

• Hepatitis B Surface Antigen
• Hepatitis B Core Antibody (IgG)
• Hepatitis B Surface Antibody (IgG)

*AVOID testing using the Acute Hepatitis Panel, as this is testing for IgM
CDC HBV Vaccination Implementation Guidelines

• Provide information to all adults regarding the benefits of hepatitis B vaccination

• Assess need for vaccination by obtaining a history that emphasizes risks for sexual or bloodborne transmission of hepatitis B

• Vaccinate all adults who report risk factors for hepatitis B infection

• Identify, counsel and vaccinate susceptible household, sex, and needle-sharing contacts of individuals with chronic hepatitis B infection

• Vaccinate anyone seeking protection from hepatitis B—identification of a specific risk factor is NOT required

https://www.cdc.gov/hepatitis/hbv/vaccadults.htm
ACIP Recommends Universal Adult Vaccination in the Following Settings:

• Sexually transmitted disease treatment facilities
• HIV testing and treatment facilities
• Facilities providing drug-abuse treatment and prevention services
• Health care settings targeting services to injection drug users
• Correctional facilities
• Health care settings targeting services to men who have sex with men
• Chronic hemodialysis facilities and end-stage renal disease programs
• Institutions and nonresidential day care facilities for developmentally disabled persons

https://www.cdc.gov/hepatitis/hbv/hbvfaq.htm#vaccFAQ
Adult Hepatitis B Vaccine Formulations

- Heplisav-B
  - 2 Doses at 0, 1 months

- Engerix-B
  - 3 Doses at 0, 1, and 6 months

- Recombivax-B
  - 3 Doses at 0, 1, and 6 months

- Twinrix
  - Combination hepatitis A and B vaccine
  - 3 Doses at 0, 1, and 6 months
Resolution to Designate April 30 as National Adult Hepatitis B Vaccination Awareness Day

116th CONGRESS
1st Session

H. RES. 331

Expressing support for the designation of April 30 as “National Adult Hepatitis B Vaccination Awareness Day”.

IN THE HOUSE OF REPRESENTATIVES
April 30, 2019

Mr. Johnson of Georgia (for himself, Mr. Meng, Mr. Fitzpatrick, Ms. Lieu of California, Mr. Lewis, Mr. Norton, Mr. Grijalva, Mrs. Watson Coleman, and Ms. Julia Chu of California) submitted the following resolution, which was referred to the Committee on Energy and Commerce.

RESOLUTION
Expressing support for the designation of April 30 as “National Adult Hepatitis B Vaccination Awareness Day”.

116th CONGRESS
1st Session

S. RES. 177

Expressing support for the designation of April 30, 2019, as “National Adult Hepatitis B Vaccination Awareness Day”.

IN THE SENATE OF THE UNITED STATES
April 30, 2019

Ms. Hirono (for herself and Mr. King) submitted the following resolution, which was referred to the Committee on Health, Education, Labor, and Pensions.

RESOLUTION
Expressing support for the designation of April 30, 2019, as “National Adult Hepatitis B Vaccination Awareness Day”.

Endorsed by over 75 organizations

American Medical Association
American College of Physicians
American Medical Women’s Association
National Medical Association
AAFP
ACOG
American College of Preventive Medicine
AASLD
APHA
Hepatitis B Foundation
AAPCHO
Association of Asian Pacific Community Health Organizations
References


Thank You!

• Acknowledgements:
  • Association of Asian Pacific Community Health Organizations