April 2023 | Page 1 of 3

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH FACT SHEET

Hepatitis A

What is hepatitis?

Hepatitis is inflammation of the liver. When the liver is inflamed, it can become swollen and painful. In severe cases of hepatitis, the liver can stop functioning, which can be life-threatening.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH FACT SHEET

**Hepatitis B**

Hepatitis has many causes, including viruses (a type of germ), drugs, chemicals, and alcohol. The body’s own immune system can even attack the liver. In the United States, the most common types of viral hepatitis are hepatitis A, hepatitis B, and hepatitis C. These viruses are very different from one another, but all are infectious and may cause similar symptoms. There are differences in how they are spread, how long the infection lasts, and how they are treated. A healthcare provider can test a person’s blood for infection with hepatitis A, B and C virus.

What is hepatitis B?

Hepatitis B is a liver infection caused by the hepatitis B virus. Most people who get the disease recover from it and can never get it again. However, about 10% of adults who get hepatitis B will go on to have chronic (long-term) infection and can spread it to others (be a carrier). When it is chronic, it can be a serious disease that can lead to cirrhosis (scarring of the liver) and/or liver cancer. The younger a person is when infected, the more likely he or she is to go on to have chronic infection and to develop serious liver disease. There is a vaccine to prevent hepatitis B infection.

**How is it spread?**

The hepatitis B virus is spread by direct contact with blood, semen, vaginal, and other body fluids of an infected person. The virus is very infectious and is transmitted easily through breaks in the skin or through mucous membranes (nose, mouth, eyes). This can happen through:

* Sexual contact with an infected person
* Direct contact with infected blood, including sharing needles to inject drugs or other drug injection equipment that has blood on it
* Sharing personal items, such as toothbrushes, razors, syringes, or glucose monitors that may have blood on them
* Direct contact with open sores of an infected person
* Pregnant people infected with the virus passing it to their babies at birth.

The hepatitis B virus is NOT spread by casual contact such as hugging, or by sneezing, coughing, or sharing food and drinks. Hepatitis B is also not spread by breast feeding.

April 2023 | Page 2 of 3

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH FACT SHEET

**Hepatitis B**

**What are the symptoms of hepatitis B?**

Many adults have few or no symptoms and do not know they are infected. When symptoms occur, they can include tiredness, loss of appetite, stomach pain, nausea, and diarrhea. Hepatitis B can also cause jaundice (which shows up as yellowing of the skin and eyes and dark urine) and clay or grey colored stools. Symptoms can begin as soon as six weeks to as long as six months after contact with the virus. Symptoms of chronic hepatitis B may begin to occur 20 to 30 years after infection occurred. Damage to the liver by hepatitis B virus causes symptoms similar to those of acute infection, and may indicate liver damage, scarring of the liver (cirrhosis), liver failure, and even liver cancer.

**How do I know if I have hepatitis B?**

Hepatitis B is diagnosed with blood tests. These blood tests can tell the difference between recent and chronic, and current and past infection. Everyone 18 years of age and older should be tested for hepatitis B infection at least once in their lifetime. Certain people should be tested more often.

**How is hepatitis B treated?**

Most people with acute or new hepatitis B infection get better without treatment. People with chronic hepatitis B infection can be treated with drugs that fight the virus and help them stay healthy. People with hepatitis B should avoid drinking alcohol or taking any medications or dietary supplements that are harmful to the liver. Hepatitis A vaccine may also be recommended. Ask your doctor about treatment options and steps you can take to protect your liver.

**How can I prevent hepatitis B?**

The best way to prevent hepatitis B infection is to get vaccinated. Everyone under the age of 60 should get the vaccine, as well as anyone 60 or older who has a risk factor for hepatitis B infection. Risk factors include**:**

* Chronic liver disease
* HIV infection
* Sexual exposure risk (e.g., sex partners of people with hepatitis B, people with multiple sex partners, men who have sex with men)
* Injection drug use
* Risk for exposure to blood (e.g., household contacts of people with hepatitis B, people who work in healthcare or public safety jobs who may be exposed to blood, people receiving dialysis)
* Incarceration
* Travel in countries where there are high rates of hepatitis B

April 2023 | Page 3 of 3

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH FACT SHEET

**Hepatitis B**

Hepatitis B vaccine is typically given as a 3-dose series, however a 2-dose series is also available for adults only.

**Is hepatitis B vaccine required for anyone?**

In Massachusetts, hepatitis B vaccination is required for all children attending licensed childcare or preschool, and kindergarten through grade 12. Vaccination is also required for full-time college and graduate students under age 30, as well as health science students attending college. Both the 3-dose series and the 2-dose series can fulfill these requirements. Private employers must offer the vaccine to employees (such as health care workers) who might come in contact with blood and body fluids on the job.

**What do I do if I am exposed to hepatitis B?**

Contact your healthcare provider as soon as possible after the exposure. If you have not been vaccinated or are incompletely vaccinated, it may make sense for you to get a shot of hepatitis B immune globulin (HBIG) as soon as possible (and to start or complete the vaccination series). HBIG provides short-term protection against the hepatitis B virus. When given shortly after an exposure (within seven days), HBIG is 70-75% effective in preventing hepatitis B infection. Hepatitis B vaccination can be given at the same time, for long-term protection.

**Where can you get more information?**

* Your doctor, nurse, or health care clinic
* The Centers for Disease Control and Prevention (CDC) website at: [www.cdc.gov/hepatitis](file:///C%3A%5CUsers%5Ccwperez%5CAppData%5CLocal%5CMicrosoft%5CWindows%5CINetCache%5CContent.Outlook%5CFM2QRM9I%5Cwww.cdc.gov%5Chepatitis)
* Your [local board of health](https://www.mass.gov/lists/massachusetts-city-and-town-websites)
* The Massachusetts Department of Public Health (DPH), Division of Epidemiology at (617) 983-6800