



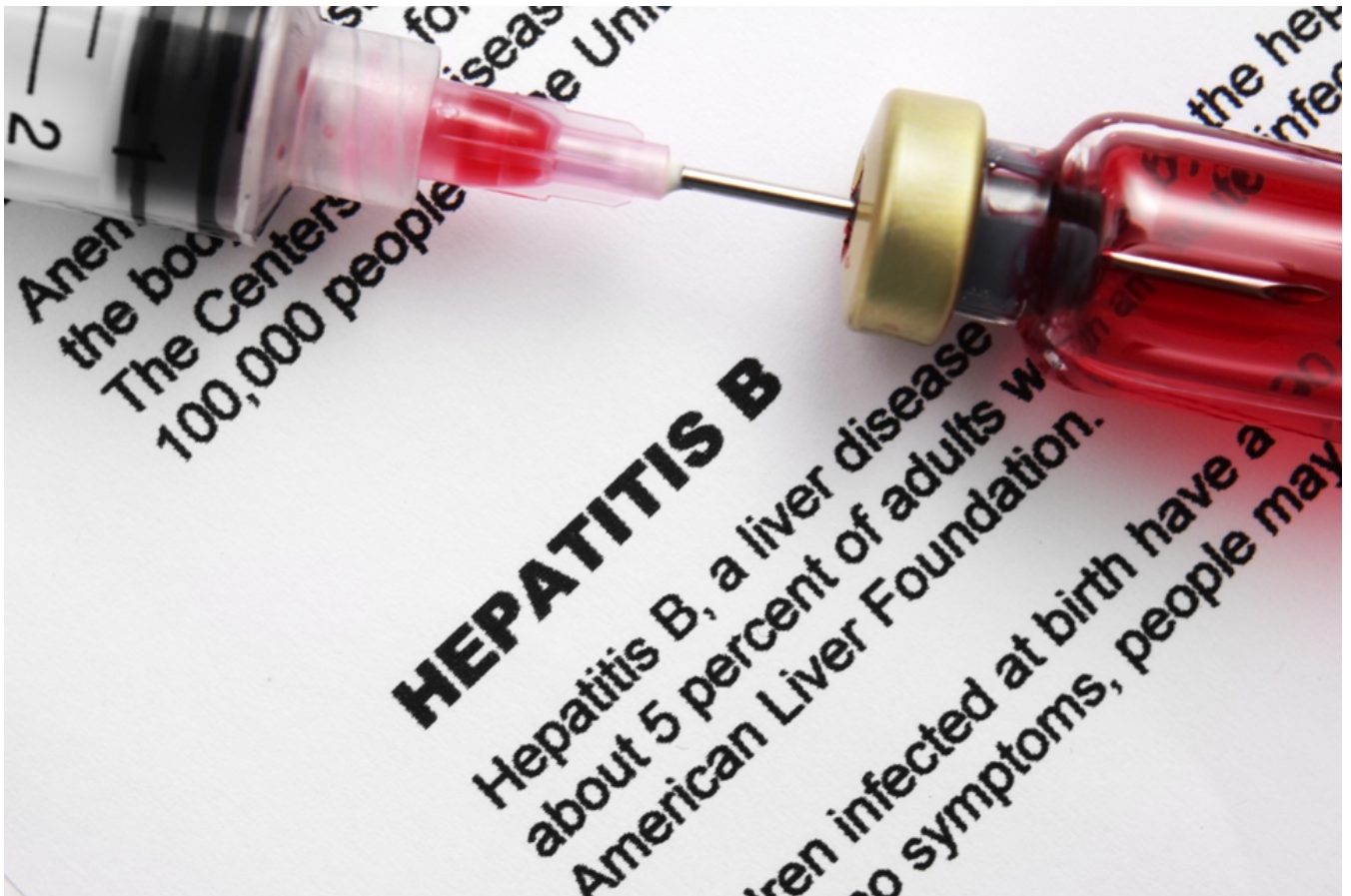
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Hepatitis B

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What Is Hepatitis B?

Hepatitis is an inflammation, or swelling, of the liver. Alcohol, drugs (including prescription medications), poisons, and some viruses can all cause hepatitis. Hepatitis B is a liver disease caused by the hepatitis B virus (HBV).

Worldwide, approximately 254 million people are living with HBV, and 1 percent are also living with HIV. In the US, an estimated 880,000 to 1.89 million people are living with HBV.

Most people fight off the hepatitis B infection themselves and usually recover within a few months. While they will never get HBV again, a blood test will always show that they had been infected.

People who do not fight off the infection themselves within six months develop chronic hepatitis B. Those with chronic HBV may develop serious complications, including [liver damage](#) (cirrhosis or scarring) or liver [cancer](#), usually after many years. In the most serious cases, a person may need a liver transplant. People with chronic HBV also become carriers of the infection and can pass the virus on to others.

People living with both HIV and HBV have higher rates of HBV-associated liver disease, including a condition called fibrosis, or liver scarring. Severe scarring can lead to cirrhosis. Several studies have also shown that HBV could increase the risk of liver damage for people taking HIV medications.

How Is HBV Spread?

HBV is more contagious than HIV. It is spread through infected bodily fluids, including blood, semen, vaginal secretions, and breast milk. HBV can be spread through:

- Unprotected sexual contact with exchange of genital fluids
- Sharing injection needles or 'works'
- Sharing needles that are used to apply tattoos
- Sharing toothbrushes or razors with a person living with HBV
- Receiving a transfusion of blood, blood products, or organs before 1975
- Open sores
- Mother-to-child transmission (during birth)

[Pregnant people](#) who have HBV can pass the virus on to their babies. Unlike adults, who mostly clear HBV naturally, most infants who acquire HBV will develop chronic HBV. The good news is that infants can be given immune treatments at birth to greatly reduce the chances that they will become chronically infected or suffer any liver damage.

Prevention of HBV

Fortunately, if you have never had HBV, it can be prevented. Getting vaccinated against HBV is the best protection against that virus. In order to be fully protected, three shots are required over the course of six months. There is also a combined vaccine that will protect you from both HBV and [hepatitis A \(HAV\)](#). It is important to follow through and get all your shots in order to be fully protected.

Getting vaccinated against HBV is the best protection against that virus.

HBV vaccination is recommended for all infants (first dose at birth), all children younger than 19 years who have not been vaccinated, and all sexually active persons who are not in a long-term monogamous relationship with someone who does not live with hepatitis B. It is also recommended for people living with HIV, men who have sex with men, people with multiple sex partners or a diagnosis of a sexually transmitted disease, people who use street drugs (even if they do not inject the drugs), people who have close household contact with a person living with HBV, healthcare workers and people who may need medical treatment in countries where HBV is very common.

While people living with HIV should get vaccinated against HBV, their bodies may not respond as strongly to the vaccine as HIV-negative people. They should be tested for HBV antibodies one to two months after the third vaccine dose to make sure their bodies are fully protected against HBV. Revaccination or higher doses of the vaccine may be necessary for people who do not respond to the first three regular doses.

People who do not respond to additional doses may remain at risk for HBV infection and should consider taking additional precautions, such as using latex barriers during sex (see our fact sheet on [Safer Sex](#)), not sharing needles or drug equipment, and making sure that tattoo artists use sterile

needles and sterile inkwells. If you inject drugs and do not have access to sterile needles and other drug equipment, see our fact sheet on [Cleaning Equipment for Injecting Drugs](#).

Babies born to people carrying HBV are at high risk of getting HBV immediately after birth. The risk is greater when the adult also lives with HIV. It is now recommended that all pregnant people be tested for HBV during the first three months of pregnancy. The HBV vaccine is safe during pregnancy and is recommended for the infant if the parent tests positive for the hepatitis virus during pregnancy. Babies born to HBV-positive people get the first shot of HBV vaccine at birth as well as one shot of HBIG (Hepatitis B Immune Globulin), which helps them fight off HBV infection.

Diagnosis and Treatment

A blood test for the Hepatitis B Surface Antigen is the only way to be certain if someone is infected.

The US Centers for Disease Control and Prevention (CDC) recommends that people living with HIV be tested for HBV, because people who are living with both viruses may need to have special treatment with specific drugs (see below) and be checked more often by a healthcare professional.

HBV may cause no symptoms at all. A blood test for the Hepatitis B Surface Antigen (HBsAg) is the only way to be certain if someone is infected. A diagnosis of chronic (long-term) hepatitis B infection is made if the HBsAg test is positive for longer than six months.

Although you may have no symptoms, some signs and symptoms of HBV may include:

- Jaundice (yellowing of the skin or eyes)
- Dark-colored urine
- Stool that appears pale and clay like
- Weight loss
- Extreme fatigue (tiredness) that can last weeks or months
- Loss of appetite
- Joint pain
- Itchy red patches on the skin
- Nausea
- [Diarrhea](#)
- Fever and chills

If you have HBV, your healthcare provider may run other tests such as:

- HBV viral load: to measure the amount of HBV in the blood
- Blood tests that check liver function, inflammation, and scarring
- Ultrasound of the liver to look for liver cancer and assess liver scarring
- Liver biopsy (possibly) to detect liver damage

FibroSure, also known as FibroTest, is a blood test that measures the degree of liver damage. FibroSure is sometimes used instead of a liver biopsy. Unfortunately, this test is not widely available outside the United States and may not be available at some facilities within the US.

There is also a test called FibroScan™ that may be as useful as a liver biopsy in assessing liver damage from HBV. It is a non-invasive and painless test that involves having a dull probe pressed gently against your skin (similar to an ultrasound or sonogram). This test is also not very widely available.

There is no treatment for acute, or initial, hepatitis B. During this short-term infection, healthcare providers recommend rest, proper food and fluids, and avoiding alcohol. Many people with chronic HBV

who have low HBV viral loads, normal liver enzyme levels, and little liver damage may not need treatment, but they should be checked regularly. For those who do require treatment, the following drugs are currently approved in the US:

- Pegasys (pegylated interferon)
- Intron A (interferon alpha)
- Hepsera (adefovir)
- Baraclude (entecavir)
- Tyzeka, Sebivo (telbivudine)
- Viread (tenofovir disoproxil fumarate; TDF)
- Epivir (lamivudine)
- Vemlidy (tenofovir alafenamide; TAF)

Therapy with two drugs that are active against HBV is now the standard of care for treating this virus. Epivir and Viread are drugs that are approved for the treatment of HIV and also have activity against HBV. Similarly, several combination pills to treat HIV contain TAF (brand name Vemlidy for the treatment of hepatitis B). There are currently twelve combination HIV drugs that contain a form of tenofovir, and four combinations that include Epivir. If you are living with both HBV and HIV and you are being treated for your HIV with lamivudine, TDF, or a combination pill that includes either of these drugs or TAF, your HBV infection could get worse and even cause a life-threatening flare of hepatitis if you stop taking the drug without your healthcare provider's supervision.

Any of the drugs used to treat HBV infection may cause [side effects](#). Talk to your healthcare provider about managing side effects and tell him or her if your symptoms get worse. Also talk to your provider if you are [pregnant](#) or [planning on becoming pregnant](#), as some of these drugs should be avoided by pregnant people or people who are breast/chestfeeding. These medications will also need adjustments if you have kidney problems.

Talk with your healthcare provider about treatment options and continue to get checked regularly to prevent or minimize liver damage. In addition to medical treatment, you can improve the health of your liver by:

- Avoiding alcohol
- Eating a [healthy diet](#)
- Getting moderate [exercise](#)
- Reducing [stress](#)
- Being cautious about using drugs, including prescription, over-the-counter, and street drugs. Even drugs containing Tylenol (acetaminophen) should be used under your healthcare provider's supervision as they may cause liver damage.

HIV Treatment for People Who Are also Living with HBV (Co-Infected)

The US Department of Health and Human Services updated its [guidelines](#) for the treatment of people co-infected with HIV and HBV in September 2022. These guidelines recommend that all people with HIV/HBV co-infection, including pregnant people, who need HBV treatment or are starting HIV drugs be put on a drug regimen that is active against both HIV and HBV. The World Health Organization (WHO)'s guidelines from March 2015 also recommend that all people co-infected with HIV and HBV receive HIV drugs.

Since Epivir, Viread, Vemlidy, as well as the HIV drug Emtriva (emtricitabine) all have activity against both HIV and HBV, it is recommended that people living with both viruses start treatment with the single-pill combination of Viread and Emtriva (also known as Truvada), or TAF and Emtriva (also known as Descovy), or the individual drug combination of Viread and Epivir, plus a third HIV drug.

It is best to talk to your healthcare provider about treatment options when you are living with both HIV and HBV. The risk of developing abnormal liver function while you are receiving HIV drugs is higher if you are also living with HBV.

Additional Resources

Select the links below for additional material related to hepatitis B.

- [HIV and Your Liver \(Viral Hepatitis, Fatty Liver\) \(POZ\)](#)
- [Hepatitis B \(US Centers for Disease Control and Prevention\)](#)
- [Hepatitis B and HIV \(aidsmap\)](#)
- [Hepatitis B & C \(HIV.gov\)](#)
- [Hepatitis B \(American Liver Foundation\)](#)
- [What Is Hepatitis B? \(Hepatitis B Foundation; info available in English, en esp...](#)
- [Pregnancy and Hepatitis B \(Hepatitis B Foundation\)](#)
- [HIV/AIDS Coinfection \(Hepatitis B Foundation\)](#)
- [Hepatitis B \(Planned Parenthood\)](#)
- [HIV and Hepatitis B \(HIVinfo\)](#)
- [Viral Hepatitis Among People with HIV \(US Centers for Disease Control and Preve...](#)
- [Hepatitis B Treatment for People with HIV \(aidsmap\)](#)
- [People With Both HIV and Hepatitis B May Receive Better Care \(POZ\)](#)
- [Hepatitis: How Can I Protect Myself From Hepatitis B? \(World Health Organizatio...](#)
- [Hepatitis B \(World Health Organization\)](#)
- [Hepatitis B Basic Information \(US Department of Health and Human Services\)](#)



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