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## Hepatitis

Also called: Viral hepatitis

### What is hepatitis?

Hepatitis is inflammation of the liver [<https://medlineplus.gov/liverdiseases.html>]. Inflammation is swelling that happens when tissues of the body are injured or infected. It can damage your liver. This swelling and damage can affect how well your liver functions.

Hepatitis can be an acute (short-term) infection or a chronic (long-term) infection. Some types of hepatitis cause only acute infections. Other types can cause both acute and chronic infections.

### What causes hepatitis?

There are different types of hepatitis, with different causes:

- Viral hepatitis is the most common type. It is caused by one of several viruses -- hepatitis viruses A [<https://medlineplus.gov/hepatitisa.html>] , B [<https://medlineplus.gov/hepatitisb.html>] , C [<https://medlineplus.gov/hepatitisc.html>] , D, and E. In the United States, A, B, and C are the most common.
- Alcoholic hepatitis is caused by heavy alcohol use [<https://medlineplus.gov/alcoholusedisorderaud.html>]
- Toxic hepatitis can be caused by certain poisons, chemicals, medicines, or supplements
- Autoimmune hepatitis is a chronic type in which your body's immune system attacks your liver. The cause is not known, but genetics and your environment may play a role.

### How is viral hepatitis spread?

Hepatitis A and hepatitis E usually spread through contact with food [<https://medlineplus.gov/foodborneillness.html>] or water that was contaminated with an infected person's stool. You can also get hepatitis E by eating undercooked pork, deer, or shellfish.

Hepatitis B, hepatitis C, and hepatitis D spread through contact with the blood of someone who has the disease. Hepatitis B and D may also spread through contact with other body fluids. This can happen in many ways, such as sharing drug needles or having unprotected sex.

### Who is at risk for hepatitis?

The risks are different for the different types of hepatitis. For example, with most of the viral types, your risk is higher if you have unprotected sex. People who drink a lot over long periods of time are at risk for alcoholic hepatitis.

### What are the symptoms of hepatitis?

Some people with hepatitis do not have symptoms and do not know they are infected. If you do have symptoms, they may include:

- Fever [<https://medlineplus.gov/fever.html>]
- Fatigue [<https://medlineplus.gov/fatigue.html>]
- Loss of appetite

- Nausea and/or vomiting [<https://medlineplus.gov/nauseaandvomiting.html>]
- Abdominal pain [<https://medlineplus.gov/abdominalpain.html>]
- Dark urine
- Clay-colored bowel movements
- Joint pain
- Jaundice [<https://medlineplus.gov/jaundice.html>] , yellowing of your skin and eyes

If you have an acute infection, your symptoms can start anywhere between 2 weeks to 6 months after you got infected. If you have a chronic infection, you may not have symptoms until many years later.

## **What other problems can hepatitis cause?**

Chronic hepatitis can lead to complications such as cirrhosis [<https://medlineplus.gov/cirrhosis.html>] (scarring of the liver), liver failure, and liver cancer [<https://medlineplus.gov/livercancer.html>] . Early diagnosis and treatment of chronic hepatitis may prevent these complications.

## **How is hepatitis diagnosed?**

To diagnose hepatitis, your health care provider:

- Will ask about your symptoms and medical history
- Will do a physical exam
- Will likely do blood tests, including tests for viral hepatitis [<https://medlineplus.gov/lab-tests/hepatitis-panel/>]
- Might do imaging tests [<https://medlineplus.gov/diagnosticimaging.html>] , such as an ultrasound [<https://medlineplus.gov/lab-tests/sonogram/>] , CT scan [<https://medlineplus.gov/ctscans.html>] , or MRI [<https://medlineplus.gov/mriscans.html>]
- May need to do a liver biopsy [<https://medlineplus.gov/biopsy.html>] to get a clear diagnosis and check for liver damage

## **What are the treatments for hepatitis?**

Treatment for hepatitis depends on which type you have and whether it is acute or chronic. Acute viral hepatitis often goes away on its own. To feel better, you may just need to rest and get enough fluids. But in some cases, it may be more serious. You might even need treatment in a hospital.

There are different medicines to treat the different chronic types of hepatitis. Possible other treatments may include surgery and other medical procedures. People who have alcoholic hepatitis need to stop drinking. If your chronic hepatitis leads to liver failure or liver cancer, you may need a liver transplant [<https://medlineplus.gov/livertransplantation.html>] .

## **Can hepatitis be prevented?**

There are different ways to prevent or lower your risk for hepatitis, depending on the type of hepatitis. For example, not drinking too much alcohol can prevent alcoholic hepatitis. There are vaccines to prevent hepatitis A and B. Autoimmune hepatitis cannot be prevented.

*NIH: National Institute of Diabetes and Digestive and Kidney Diseases*

## **Start Here**

- Hepatitis (Viral) [<https://www.niddk.nih.gov/health-information/liver-disease/viral-hepatitis>]
   
 NIH **Easy-to-Read** (National Institute of Diabetes and Digestive and Kidney Diseases)
   
 Also in Spanish [<https://www.niddk.nih.gov/health-information/informacion-de-la-salud/enfermedades-higado/hepatitis-viral>]
- Viral Hepatitis [<https://womenshealth.gov/a-z-topics/viral-hepatitis>]
   
 (Department of Health and Human Services, Office on Women's Health)
   
 Also in Spanish [<https://espanol.womenshealth.gov/a-z-topics/viral-hepatitis>]
- Viral Hepatitis Basics [<https://www.cdc.gov/hepatitis/about/>] (Centers for Disease Control and Prevention)

## Diagnosis and Tests

- ALT Blood Test [<https://medlineplus.gov/lab-tests/alt-blood-test/>]  (National Library of Medicine)
- Antibody Serology Tests [<https://medlineplus.gov/lab-tests/antibody-serology-tests/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/pruebas-de-serologia-de-anticuerpos/>]
- AST Test [<https://medlineplus.gov/lab-tests/ast-test/>]  (National Library of Medicine)
- At-Home Medical Tests [<https://medlineplus.gov/lab-tests/at-home-medical-tests/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/pruebas-medicas-en-el-hogar/>]
- Hepatitis Panel [<https://medlineplus.gov/lab-tests/hepatitis-panel/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-hepatitis/>]
- Liver Function Tests [<https://medlineplus.gov/lab-tests/liver-function-tests/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/pruebas-funcionales-hepaticas/>]
- Smooth Muscle Antibody (SMA) Test [<https://medlineplus.gov/lab-tests/smooth-muscle-antibody-sma-test/>]  (National Library of Medicine)  
Also in Spanish [<https://medlineplus.gov/spanish/pruebas-de-laboratorio/prueba-de-anticuerpos-contra-el-musculo-liso/>]

## Related Issues

- Hepatitis A, B, and C: Learn the Differences [<https://www.immunize.org/wp-content/uploads/catg.d/p4075.pdf>] (Immunization Action Coalition) - **PDF**
- Infectious Diseases in Persons Who Inject Drugs [<https://www.cdc.gov/persons-who-inject-drugs/about/>] (Centers for Disease Control and Prevention)

## Specifics

- Alcoholic Hepatitis [<https://www.mayoclinic.org/diseases-conditions/alcoholic-hepatitis/symptoms-causes/syc-20351388?p=1>] (Mayo Foundation for Medical Education and Research)  
Also in Spanish [<https://www.mayoclinic.org/es/diseases-conditions/alcoholic-hepatitis/symptoms-causes/syc-20351388?p=1>]
- Autoimmune Hepatitis [<https://www.niddk.nih.gov/health-information/liver-disease/autoimmune-hepatitis>]  (National Institute of Diabetes and Digestive and Kidney Diseases)  
Also in Spanish [<https://www.niddk.nih.gov/health-information/informacion-de-la-salud/enfermedades-higado/hepatitis-autoinmunitaria>]
- Hepatitis D [<https://www.niddk.nih.gov/health-information/liver-disease/viral-hepatitis/hepatitis-d>]  **Easy-to-Read** (National Institute of Diabetes and Digestive and Kidney Diseases)
- Hepatitis E [<https://www.niddk.nih.gov/health-information/liver-disease/viral-hepatitis/hepatitis-e>]  (National Institute of Diabetes and Digestive and Kidney Diseases)
- Toxic Hepatitis [<https://www.mayoclinic.org/diseases-conditions/toxic-hepatitis/symptoms-causes/syc-20352202?p=1>] (Mayo Foundation for Medical Education and Research)  
Also in Spanish [<https://www.mayoclinic.org/es/diseases-conditions/toxic-hepatitis/symptoms-causes/syc-20352202?p=1>]

## Statistics and Research

- FastStats: Viral Hepatitis [<https://www.cdc.gov/nchs/faststats/hepatitis.htm>] (National Center for Health Statistics)

## Clinical Trials

- ClinicalTrials.gov: Hepatitis [<https://clinicaltrials.gov/search?cond=%22Hepatitis%22&aggFilters=status:not%20rec>]  (National Institutes of Health)

## Journal Articles

## References and abstracts from MEDLINE/PubMed (National Library of Medicine)

- Article: Comprehensive immune profiling and predictive modelling of paediatric acute hepatitis of... [<https://www.ncbi.nlm.nih.gov/pubmed/40630961>]
- Article: Decade-Long Analysis of Hepatitis Trends Among International Travelers at Shanghai Port... [<https://www.ncbi.nlm.nih.gov/pubmed/40531804>]
- Article: Developing a syndromic surveillance tool to support the epidemiological investigation into... [<https://www.ncbi.nlm.nih.gov/pubmed/40450205>]
- Hepatitis -- see more articles [<https://pubmed.ncbi.nlm.nih.gov/?term=%22Hepatitis%22%5Bmajr%3Anoexp%5D+AND+humans%5Bmh%5D+AND+english%5Bla%5D+AND+%22last+1+Year%22+%5Bdat%5D+NOT+%28letter%5Bpt%5D+OR+case+reports%5Bpt%5D+OR+editorial%5Bpt%5D+OR+comment%5Bpt%5D%29+AND+free+full+text%5Bsb%5D+>]

## Find an Expert

- American Liver Foundation [<https://liverfoundation.org/>]
- Centers for Disease Control and Prevention [<https://www.cdc.gov/>]  
Also in Spanish [<https://www.cdc.gov/spanish/>]
- National Institute of Diabetes and Digestive and Kidney Diseases [<https://www.niddk.nih.gov>] 

## Children

- Hepatitis [<https://kidshealth.org/en/kids/hepatitis.html>] (Nemours Foundation)  
Also in Spanish [<https://kidshealth.org/es/kids/hepatitis.html>]
- Hepatitis (For Parents) [<https://kidshealth.org/en/parents/hepatitis.html>] (Nemours Foundation)  
Also in Spanish [<https://kidshealth.org/es/parents/hepatitis.html>]
- How Do Children Get Hepatitis? [<https://www.healthychildren.org/English/health-issues/conditions/abdominal/Pages/Hepatitis.aspx>] (American Academy of Pediatrics)  
Also in Spanish [<https://www.healthychildren.org/spanish/health-issues/conditions/abdominal/paginas/hepatitis.aspx>]

## Teenagers

- Hepatitis [<https://kidshealth.org/en/teens/hepatitis.html>] (Nemours Foundation)  
Also in Spanish [<https://kidshealth.org/es/teens/hepatitis.html>]

## Men

- Prevention Approaches for Viral Hepatitis in Gay and Bisexual Men [<https://www.cdc.gov/hepatitis/risk-factors-msm/>] (Centers for Disease Control and Prevention)

## Patient Handouts

- Autoimmune hepatitis [<https://medlineplus.gov/ency/article/000245.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/000245.htm>]
- Drug-induced liver injury [<https://medlineplus.gov/ency/article/000226.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/000226.htm>]
- Hepatitis [<https://medlineplus.gov/ency/article/001154.htm>] (Medical Encyclopedia)  
Also in Spanish [<https://medlineplus.gov/spanish/ency/article/001154.htm>]



## MEDICAL ENCYCLOPEDIA

[5'-nucleotidase](https://medlineplus.gov/ency/article/003575.htm) [https://medlineplus.gov/ency/article/003575.htm]

[Alpha fetoprotein](https://medlineplus.gov/ency/article/003573.htm) [https://medlineplus.gov/ency/article/003573.htm]

[Anti-smooth muscle antibody](https://medlineplus.gov/ency/article/003531.htm) [https://medlineplus.gov/ency/article/003531.htm]

[Autoimmune hepatitis](https://medlineplus.gov/ency/article/000245.htm) [https://medlineplus.gov/ency/article/000245.htm]

[Bloodborne pathogens](https://medlineplus.gov/ency/patientinstructions/000453.htm) [https://medlineplus.gov/ency/patientinstructions/000453.htm]

[Drug-induced liver injury](https://medlineplus.gov/ency/article/000226.htm) [https://medlineplus.gov/ency/article/000226.htm]

[Gamma-glutamyl transpeptidase \(GGT\) blood test](https://medlineplus.gov/ency/article/003458.htm) [https://medlineplus.gov/ency/article/003458.htm]

[Hepatitis](https://medlineplus.gov/ency/article/001154.htm) [https://medlineplus.gov/ency/article/001154.htm]

[Hepatitis D \(Delta agent\)](https://medlineplus.gov/ency/article/000216.htm) [https://medlineplus.gov/ency/article/000216.htm]

[Hepatocerebral degeneration](https://medlineplus.gov/ency/article/001393.htm) [https://medlineplus.gov/ency/article/001393.htm]

[Leucine aminopeptidase - urine](https://medlineplus.gov/ency/article/003617.htm) [https://medlineplus.gov/ency/article/003617.htm]

[Leucine aminopeptidase blood test](https://medlineplus.gov/ency/article/003559.htm) [https://medlineplus.gov/ency/article/003559.htm]

[Liver biopsy](https://medlineplus.gov/ency/article/003895.htm) [https://medlineplus.gov/ency/article/003895.htm]

[Thyroid peroxidase antibody](https://medlineplus.gov/ency/article/003556.htm) [https://medlineplus.gov/ency/article/003556.htm]

## Related Health Topics

[Hepatitis A](https://medlineplus.gov/hepatitisa.html) [https://medlineplus.gov/hepatitisa.html]

[Hepatitis B](https://medlineplus.gov/hepatitisb.html) [https://medlineplus.gov/hepatitisb.html]

[Hepatitis C](https://medlineplus.gov/hepatitisc.html) [https://medlineplus.gov/hepatitisc.html]

[Liver Diseases](https://medlineplus.gov/liverdiseases.html) [https://medlineplus.gov/liverdiseases.html]

[Liver Transplantation](https://medlineplus.gov/livertransplantation.html) [https://medlineplus.gov/livertransplantation.html]

## National Institutes of Health

The primary NIH organization for research on *Hepatitis* is the National Institute of Diabetes and Digestive and Kidney Diseases [https://www.niddk.nih.gov]

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