

a series of fact sheets written  
by experts in the field of liver  
disease

# Nutrition and Hepatitis C

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*In the past, diet modification was seen as an important part of liver disease management; this is less true today. However, recent data suggest that steatosis (fatty infiltrates of the liver) contribute to liver disease progression and lower HCV medical treatment response. Poor diet and little or no exercise greatly contribute to the formation of steatosis. Therefore it is recommended that people with hepatitis C eat a healthy, well-balanced diet, drink plenty of clear fluids, engage in moderate exercise and get plenty of rest.*

## Diet

A diet that follows the general guidelines for good nutrition based on the newly revised Food Guide Pyramid (*see below*) is generally recommended for people with stable chronic hepatitis C. It is also recommended that you balance the food you eat with physical activity. Once someone develops cirrhosis it is very important that a liver disease specialist and a nutritionist be consulted.

**Drinking enough clear fluids is also important to incorporate into a healthy diet. Water is often called the ‘silent nutrient’ because it provides needed minerals and essential fluids to keep us healthy. Stay away from caffeinated drinks like coffee and soda because they will actually lead to dehydration which will require drinking even more water. It is generally recommended that a person who weighs 180 lbs drink 90 ounces of water a day (eleven 8 oz. glasses) when engaging in normal activities.**

### Anatomy of MyPyramid

**One size doesn't fit all**  
USDA's new MyPyramid symbolizes a personalized approach to healthy eating and physical activity. The symbol has been designed to be simple. It has been developed to remind consumers to make healthy food choices and to be active every day. The different parts of the symbol are described below.

**Activity**  
Activity is represented by the steps and the person climbing them, as a reminder of the importance of daily physical activity.

**Moderation**  
Moderation is represented by the narrowing of each food group from bottom to top. The wider base stands for foods with little or no solid fats or added sugars. These should be selected more often. The narrower top area stands for foods containing more added sugars and solid fats. The more active you are, the more of these foods can fit into your diet.

**Personalization**  
Personalization is shown by the person on the steps, the slogan, and the URL. Find the kinds and amounts of food to eat each day at MyPyramid.gov.

MyPyramid.gov

STEPS TO A HEALTHIER YOU

**Proportionality**  
Proportionality is shown by the different widths of the food group bands. The widths suggest how much food a person should choose from each group. The widths are just a general guide, not exact proportions. Check the Web site for how much is right for you.

**Variety**  
Variety is symbolized by the 6 color bands representing the 5 food groups of the Pyramid and oils. This illustrates that foods from all groups are needed each day for good health.

**Gradual Improvement**  
Gradual improvement is encouraged by the slogan. It suggests that individuals can benefit from taking small steps to improve their diet and lifestyle each day.

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GRAINS

VEGETABLES

FRUITS

OILS

MILK

MEAT & BEANS

A healthy diet is low in fat, cholesterol, and sodium (salt), high in complex carbohydrates, and has adequate protein. Most people can obtain adequate nutrients by eating a well-balanced diet. Some people with HCV find various nutritional supplements beneficial. However, certain vitamins and minerals (e.g., vitamin A, vitamin D, iron, and niacin) can be toxic to the liver in high doses. People with hepatitis C should consult their healthcare provider—and perhaps also a trained dietitian or nutritionist—before starting any new diet.

Some people with hepatitis C experience loss of appetite (anorexia), nausea, and diarrhea; these may also occur as side effects of the drugs used to treat HCV. Many people find it helpful to eat small, frequent healthy meals and snacks rather than three large meals each day. Soft or liquid foods and foods at room temperature (neither hot nor cold) may be easier to tolerate, while spicy or fatty foods may worsen nausea. If a person is unable to obtain enough nutrients by eating normally, liquid nutritional supplements (such as Advera, Ensure, or Sustacal) can be used.

The following is speculative, but is nutritionally sound: Because the liver processes and detoxifies everything a person eats, avoiding certain foods may help reduce the liver's work load.

Most experts recommend that people with HCV avoid consumption of raw or undercooked shellfish (which can contain hepatitis A and other viruses and bacteria). Processed foods may contain chemical additives and high levels of sodium, so people with HCV may benefit from limiting consumption of canned, frozen, or preserved foods, as well as fast foods. All meat, fruits and vegetables should be washed to remove harmful residues. Wash hands thoroughly before and after handling food. People with HCV should read food labels and familiarize themselves with ingredients.

It is often recommended that people with HCV should avoid foods high in fat, salt, or sugar. Some people with HCV find it difficult to tolerate dairy products; if this is the case, soy milk or rice milk may be good substitutes. Some experts believe protein from vegetables, dairy

products, fish, or chicken may be easier to process than protein from meat. However, adequate protein is important for body tissue maintenance and repair.

You may not have a lot of control over what hepatitis C does to your body, but you can help keep yourself healthier by eating a healthy diet, which will strengthen the immune system and help fight hepatitis C.

The food pyramid recommendations have been revised to include many factors such as age, sex and physical activity. In addition there are very practical tips and suggestions on how to eat healthily, a system to keep track of what you eat and various resources and links. To learn more information about nutrition and the new food pyramid guide, visit <http://www.mypyramid.gov/index.html>

**For more information about hepatitis C, hepatitis B and HCV coinfections, please visit [www.hcvadvocate.org](http://www.hcvadvocate.org).**

• *hcsPFACTsheet* •  
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