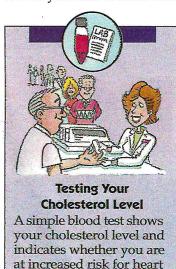


A Guide for Low-Cholesterol Living

Have your cholesterol level tested as often as your doctor suggests. That way you'll know if it's at a healthy level. You can help control your cholesterol by taking the steps discussed in this booklet. The sooner you start, the better, because improving your cholesterol level lowers your risk of heart disease.



disease.

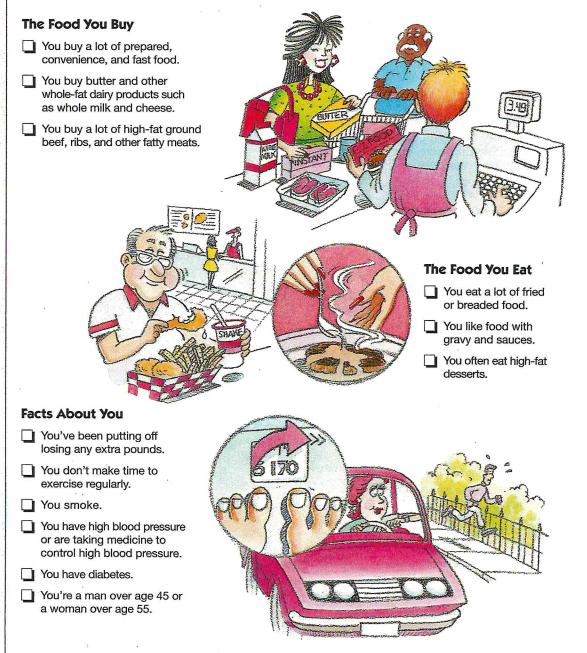




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DO YOU HAVE A HIGH-CHOLESTEROL LIFESTYLE?

If you're living a high-cholesterol lifestyle, your cholesterol level may be abnormal or it may become so in the future. Read the statements below to find out how you may be contributing to unhealthy cholesterol levels and increasing your risk for heart disease. Check the box next to each statement that applies to you.



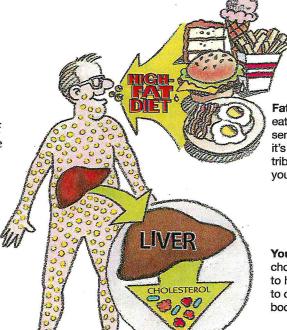
The more boxes you've checked, the greater your risk of heart disease, and the greater your benefits if you follow this guide for low-cholesterol living.

UNDERSTANDING CHOLESTEROL

Cholesterol is a fatlike substance. It helps your body use fats, insulates your nerve and brain tissues, and helps make hormones. Cholesterol and fat are carried together through your blood vessels in packages called lipoproteins. Usually this transport system works well. But when you eat too much fat, too much cholesterol may accumulate in your blood vessels. Serious problems—even a heart attack—can occur.

Where Does Cholesterol Come From?

The liver actually makes most of the cholesterol in your body. The more saturated fat you eat, the more cholesterol your liver makes. After fat is digested, the liver makes substances called lipoproteins. These "cholesterol packages" move the digested fat through the bloodstream to other parts of the body.



Fat from the food you eat is digested and sent to the liver, where it's processed for distribution throughout your body.

Your liver makes cholesterol packages to help move the fat to other parts of your body.

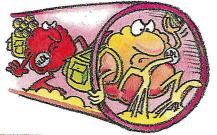
Types of Cholesterol

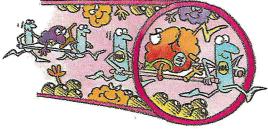
Lipoprotein packages all have different jobs in the body. The main lipoprotein packages are:

- VLDL (very-low-density lipoprotein)
- LDL (low-density lipoprotein)
- HDL (high-density lipoprotein)

All of the packages carry some **triglycerides** (an energy source for the body). When the body makes too many triglycerides, the blood vessels get blocked more easily. VLDLs carry the most triglycerides.

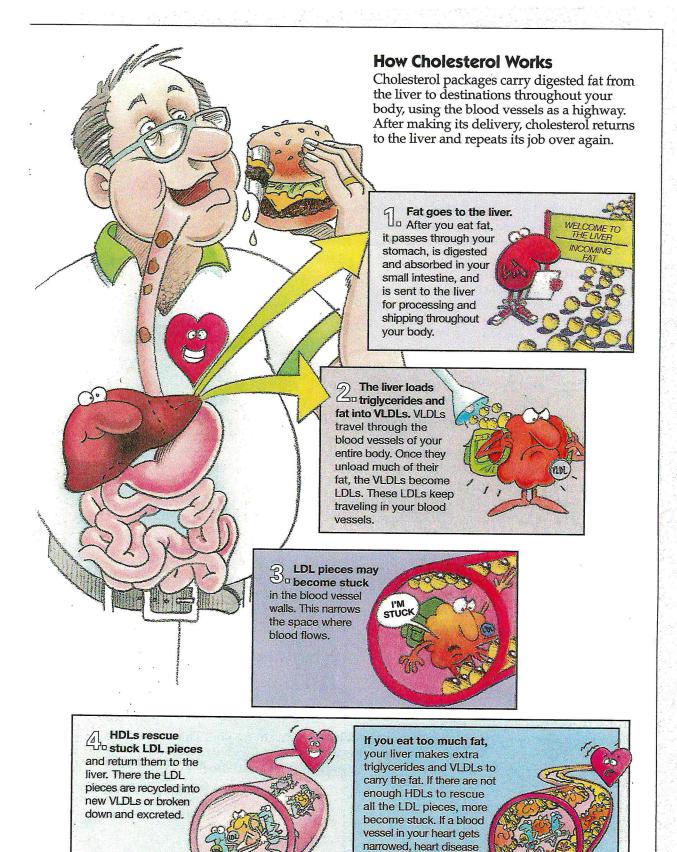
VLDL carries fat and triglycerides from the liver to other parts of your body. VLDL turns into LDL after it unloads much of its fat.





LDL is called "bad" cholesterol because pieces of it easily become stuck in the blood vessel walls.

HDL is called "good" cholesterol. It finds stuck LDL pieces and returns them to the liver.



develops. This increases your risk of heart attack.



TESTING YOUR CHOLESTEROL LEVEL

The first step in low-cholesterol living is to have your cholesterol level checked. Cholesterol tests may be done at your doctor's office, at a testing center, or a clinic. The test often costs very little or may even be free. Once you know what your cholesterol level is, you can see if you're at increased risk of heart disease. And you can begin to control your cholesterol, if needed.

Cholesterol Testing

Cholesterol can be checked with a simple blood test. A blood sample is taken from your finger or arm. You may need to fast (not eat) for a set amount of time before the test.



Cholesterol Test Results

All cholesterol tests will give you a number for your total cholesterol. You may also be given numbers for HDL and LDL cholesterol, as well as triglycerides and VLDL. Fill in your numbers in the spaces below.

Your Cholesterol Numbers

You and your doctor will decide what cholseterol levels are right for you. This will depend on your age and your family history. This will also depend on whether you have other risk factors (health or lifestyle issues) that increase your chances of having heart disease.



IMPROVING YOUR DIET

Improving your diet is often the most effective lifestyle change you can make to keep cholesterol at a desirable level. Toward this goal, the most helpful action you can take is to reduce the amount of fat you eat, especially saturated and trans fats. Doing this may help you lower your cholesterol *and* lose weight. To learn more about improving your diet, ask your doctor to refer you to a registered dietitian.

From This...

... to This

Eat Less Fat

Many people get too many of their daily calories from fat. Your goals:

- Limit fats to between 20% and 35% of your total daily calories.
- Limit saturated fat to less than 10% of your daily calories.
- · Avoid trans fats.

Start by limiting obvious sources of fat, such as butter, lard, and wholemilk cheese and ice cream. Also, try to avoid any processed foods that contain hydrogenated or partially hydrogenated oils.



Soluble fiber is a type of fiber that lowers cholesterol levels. It does so by keeping the cholesterol you eat from being absorbed by your body. Oats, beans, and some fruits and vegetables are rich in soluble fiber.

Eat More Complex Carbohydrates

Complex carbohydrates are low in fat, and they're often high in fiber. Build meals around complex carbohydrates. Beans and other legumes, root vegetables, wholegrain breads and cereals, and brown rice are good choices. Also, at meals, make sure to fill half your plate with vegetables and fruit.

Drink Less Alcohol

Drinking too much alcohol can add unneeded calories. Women should have no more than 1 alcoholic drink a day. Men should have no more than 2 alcoholic drinks a day.



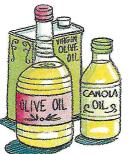


CHOOSING TH

Improving your diet and losing exemaintain a healthy cholesterol level food you buy. Shopping for the right or overwhelming. With a little prereducing fats, reading labels, and meaning labels.

Pick Your Fats Wisely

The fat you eat can be divided into three types: monounsaturated, polyunsaturated, and saturated. Your goals are to eat less fat overall and to choose less saturated fat. Use small amounts of monounsaturated and polyunsaturated fats instead of saturated fat.



Choose monounsaturated fat from vegetable sources such as olive and canola oil. Monounsaturated fats lower LDL (bad) cholesterol without lowering HDL (good) cholesterol. Monounsaturated fats are the best kind.

First Choice



Choose polyunsaturated fat from vegetable sources such as safflower, sunflower, or corn oil. It may lower both LDL (bad) and HDL (good) cholesterol. Many margarines are high in polyunsaturated fat. Choose liquid or tub margarines instead of stick margarines. And choose one that lists "vegetable oil" as the first ingredient.



Avoid saturated fat. Most of it comes from animal sources: fatty meats, lard, butter, and whole milk. But some comes from vegetable oils that are partially hydrogenated (trans fats). These are found in many processed foods. Eating too much saturated fat can raise your cholesterol.





IE BEST FOODS

cess weight can help you reach or .. Begin by making changes in the t food doesn't have to be confusing actice, you can develop skills for taking good selections at the market.



Read the Labels to Find the Fat

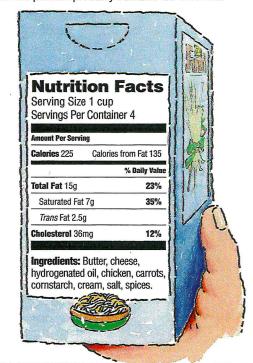
The best way to find the fat in processed foods is to read the labels. You can ask yourself these four questions to help you choose products that are low in fat—especially products low in saturated fat.

Do too many calories come from fat? Total fat intake should be less than 35% of your daily calories. Look for foods with a Daily Value of 5% or less for saturated fat. Limit foods with a Daily Value of 20% or higher.

Is the serving size close to what you eat? The serving size is the basis for all values on the label. When tracking fat, use a serving size that is close to what you will really eat. If you will eat 2 servings, double all the numbers on the food label.

Is saturated fat a major ingredient? The label lists all ingredients by weight. In this product, the heaviest ingredient is butter. Cheese and hydrogenated oil are next, so this product is likely to be high in saturated fat. Check the daily value.

Are there several fats in the product? When you see several high-fat ingredients listed on the label (such as butter, cheese, hydrogenated oil, and cream), then the product probably contains too much fat.







Rather than skip breakfast, plan to eat it and reduce the amount you eat at dinner. Try these easy-to-prepare ideas:





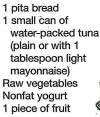
from poultry before cooking.

Egg whites or egg substitute Whole-wheat toast No-sugar-added jam

What's for lunch?

When lunchtime is rushed, you can be tempted to grab anything that's fast. Try one of these meals instead:

mayonnaise on salads and sandwiches.



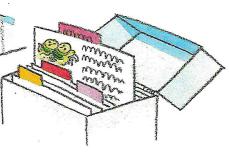


Broth-based
vegetable soup
Tossed salad with
1 tablespoon light
or diet dressing
Bagel
Low-fat cottage cheese
1 piece of fruit



COOKING UP HEALTHY MEALS

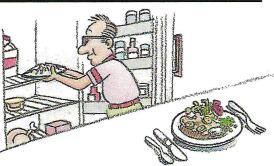
Making changes to lower cholesterol in your diet goes beyond shopping. You'll also want to learn cooking techniques that can remove excess fat, cholesterol, and calories from your meals. So experiment a little. Put all of your healthy food choices and cooking skills together. That way, you'll have meals that taste great, lower your cholesterol, and maybe even help you lose weight.



Recipe Adjusting

Rather than give up favorite recipes, try some low-fat, low-cholesterol substitutes:

- · Use vegetable oil in place of lard or shortening, and try using less of it.
- · Substitute margarine for butter, and use less.
- · Try replacing each egg with two egg whites.



Smaller Portions

Reduce your calories by making several small changes:

- · Serve food on the plates and immediately put leftovers away.
- Use a smaller plate—it looks fuller.
- Eat at the table—not in front of the TV—so you'll pay attention to how much you're eating.



Lighten up on dinner by serving less



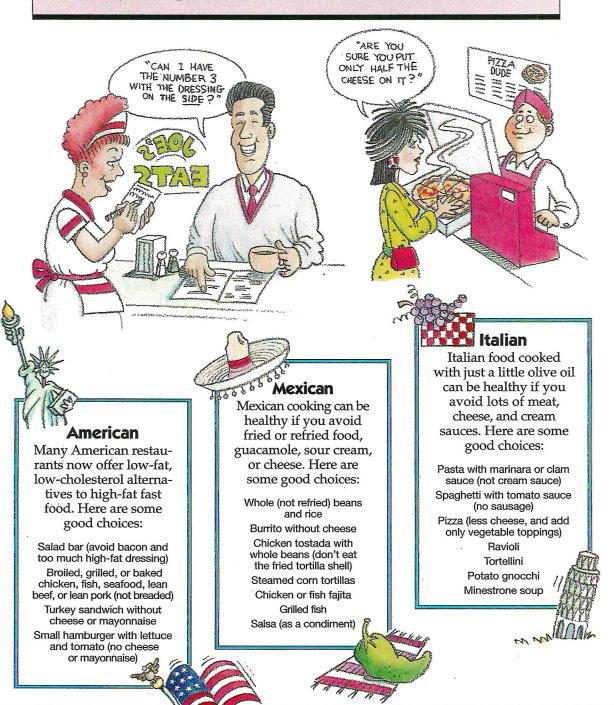
What's to snack on?

What should you eat when you want to munch? Try some of these low-fat, lowcholesterol snacks: Air-popped popcorn, plain or with low-salt seasoning Nonfat vogurt All-juice frozen fruit bar Low-salt pretzels Fresh, frozen, canned, or dried fruit Raw vegetables Bowl of high-fiber, low-fat cereal Low-fat crackers



EATING WELL WHILE EATING OUT

It's easy to feel that you can't manage your cholesterol or your weight when you eat out. But you can! Start by choosing foods that are lower in cholesterol and fat. The lists below offer good options. Also, ask for food to be prepared in healthy ways—most restaurants will meet such special requests. And remember, you don't always have to eat everything on the plate. You can share an order or take some home.





Asian

Asian food can be lowfat and low-cholesterol, as long as you avoid stir-fried, breaded, and deep-fried food. Here are some good choices:

Steamed vegetarian pot stickers or dumplings

Steamed rice and entrees

Noodle dishes (not fried)

Sushi or sashimi

Tofu items (not fried)

Chicken or fish, broiled, cooked in broth, or steamed

Hot-and-sour soup

Fortune cookies

European

European cuisine—
especially sauces—can be
loaded with added fat, so
always ask for sauces
"on the side." Here are
some good choices:

Fresh oysters and clams
Broth-based soup
Chicken stewed in tomatoes
or wine sauce
Poached, steamed,
or broiled entrees
Filet of sole (not fried)
Steamed lobster or shrimp
Ratatouille

Most Middle Eastern food is healthy, made from ingredients such as rice and yogurt. Here are some good choices:

Stuffed grape leaves
Tandoori (oven) cooked
chicken breast
Grilled lamb
Curries (made without
coconut milk)
Legume (dal) dishes
Pita bread
Chapati (roti)
Chutneys (made
without coçonut)

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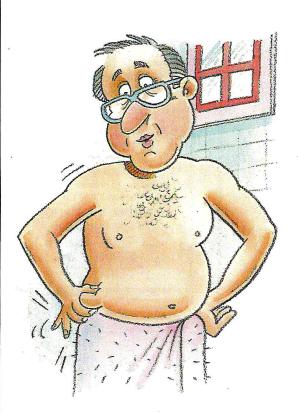


EXERCISE AND OTHER STEPS TOWARD CHOLESTEROL CONTROL

Along with choosing a better diet, there are other steps you can take to help improve your cholesterol level: Lose that extra weight, exercise regularly, and reduce your other heart risks. Also, get your cholesterol level rechecked periodically. That way, you can be sure you're maintaining a healthy cholesterol level.

Watch Your Weight

When you weigh too much, your body stores more fat and cholesterol. This may cause your blood cholesterol level to rise. Losing weight can help lower your triglyceride level. It may also raise your HDL level. Remember, the quickest way to lose weight is to decrease your calorie intake.



Ask your healthcare provider what your target weight range should be. If you need to lose weight, it's best to lose it slowly. Avoid diet fads! These may help you lose weight, but they're not good with helping you keep the weight off for good.

Why Exercise?

Frequent exercise helps lower your triglyceride level. It can also help you lose weight and can even help lower other risks to your heart health. Aim for at least 40 minutes of moderate to vigorous activity 3 to 4 times a week. Examples include walking, biking, and swimming. Before starting to exercise, work with your healthcare provider to plan a program that's right for you.



Warm up for 5 minutes or so. Mild stretching or slow walking helps warm up muscles and joints.

Exercise aerobically for at least 40 minutes 3 to 4 times a week.

Cool down by repeating your warm-up for 5 to 10 minutes.

Reduce Other Heart Risks

High cholesterol is only one of the many risk factors for heart disease. You have no control over factors such as your family's history of heart attacks or your age. But you can control other risks.



Stop smoking. Smoking lowers your HDL (good) cholesterol and increases your risk of heart attack, stroke, and cancer.

Control high blood pressure and diabetes through diet, weight loss, exercise, and medicine (if prescribed). Frequent monitoring can help you track your efforts.

Reduce the stress in your life. Ask your company health services or your healthcare provider for information about managing stress.



Get Regular Checkups

Visit your healthcare provider as often as directed to be sure that your cholesterol level—and your other risks for heart disease—are under control. Ask your healthcare provider how often you should have your cholesterol checked.

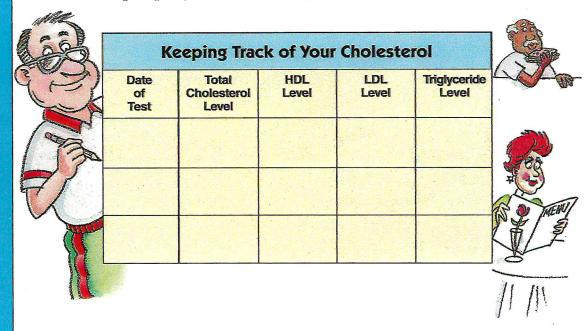
Take Medicine

In addition to lifestyle and diet changes, your doctor may prescribe medicine to lower your cholesterol. Even if you take medicine, stick with the changes you've made for low-cholesterol living. That way you'll be sure to get the best results.



TAKING ACTION AND FEELING GOOD

You can feel great knowing that you're taking steps to manage your cholesterol. Lowering your cholesterol level will reduce your risk of heart attack, heart disease, stroke, and other serious cardiovascular diseases. And you have the satisfaction of knowing that your actions have helped put you back in charge of your own well-being.



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