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**High blood cholesterol**

This fact sheet provides information of a general nature only. For more information about high blood cholesterol ask your GP.

**Cholesterol is one of the fats present in the body. It is essential for life, and is found in all human and animal tissues. It is carried around the body by the blood. Some cholesterol comes directly from food and some is made by the liver. High blood cholesterol is usually due to eating too much fat. It can also be caused by not getting enough exercise. Occasionally, high cholesterol runs in the family, and in these circumstances it is due to the body not coping well with normal amounts of fat being eaten.**

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**Why are high levels a problem?**

High blood cholesterol is associated with health problems. The most important of these is heart disease, including heart attacks.

High cholesterol levels cause fatty deposits to build inside blood vessels. Eventually the vessels can block and blood cannot flow through them. This is particularly likely to happen in the narrow vessels which supply blood to the muscle of the heart (the corona arteries). This may cause damage to the heart and can cause a heart attack.

If you have high blood cholesterol, whatever the cause, it is possible to do something about it and so reduce your risk of developing heart disease.

**What else causes heart disease?**

High blood cholesterol is only one of several things which contribute to heart disease. Other things include smoking, high blood pressure, stress and lack of exercise. These are called ‘risk’ factors because they increase the risk of heart disease. The more risk factors you have: the move likely you are to develop heart disease.

To reduce your risk of heart disease, it is important to identify and control as many of your risk factors as possible. High blood cholesterol is only one of the risk factors to consider. Your doctor will be able to assess and advise you on all your risk factors.

**Healthy levels of blood cholesterol**

Your doctor or nurse will take a blood sample to measure your cholesterol level. Measurements can vary slightly, so it may be necessary to take more than one sample to be certain of the real level.

Your doctor might also want to measure the levels of different types of cholesterol in the blood. These are HDL (high-density lipoprotein) cholesterol and LDL (low-density lipoprotein) cholesterol. They affect how likely it is that a high cholesterol level will lead to heart disease. Knowing about these will help your doctor to assess your risk of heart disease.

**What can be done about high levels?**

There are three main ways of reducing cholesterol levels to change what you eat; increase the amount of exercise you take; and take medication.

For most people, the doctor will recommend trying the first two approaches. This may be enough to get levels down to normal. If this doesn’t work, your doctor may prescribe a tablet. You are more likely to need medication if your cholesterol level is very high, if you have a lot of other risk factors, or if you have already had a heart attack.

**Eating habits**

Changing what you eat can lower your cholesterol level. The main aim is to cut down the amount of fat you eat.

However, the type of fat you eat is also important. Saturated fats (such as butter) tend to raise your cholesterol. Cut down on saturated fats can lower your blood cholesterol by up to 20 per cent.

Changes in your eating habits have to be long-term to be effective. So you need to find a healthier eating pattern, which you are happy with and can to stick to.

**What about exercise?**

Regular exercise can reduce cholesterol and so the risk of heart disease. Exercise also helps other risk factors for heart disease, including high blood pressure, stress and being overweight.

The best activity is one that you enjoy. It does not have to be particularly strenuous. Walking, swimming, cycling and gentle jogging are all effective. Try to take regular, moderate exercise, preferably every day. If possible, make it part of your daily routine.

For example, walk short distances rather than taking the bus or the car, or walk up stairs instead of using the lift. The more you do, the better, but exercise beats none at all.

If you are not fit, start gradually and build up your activity level over several weeks. Vigorous exercise can be dangerous. If you plan to do vigorous exercise, it is wise to see your doctor first if you:

* Have, or suspect you have, heart disease;
* Smoke heavily;
* Are very overweight, or
* Have not been physically active recently.

**Medication**

Medication can be an effective way of lowering very high cholesterol levels. If you need medication, it usually needs to be taken long term. Your doctor will tell you whether or not you should consider taking medication.

**Eating tips to lower cholesterol**

Eat more fish;
Choose low-fat or skimmed-milk dairy products;
Remove all visible fat from meat and skin from chicken;
Choose low-fat cooking methods, such as grilling, steaming or microwaving;
Try to avoid fried foods;
Cut down on biscuits, cakes, sweets, crisps and chocolates;
Try to eat at least two servings of fruit and three servings of vegetables every day;
Use unsaturated oils (such as olive oil) instead of lard or dripping;
Limit eggs to two a week;
Choose wholegain (rather than white).