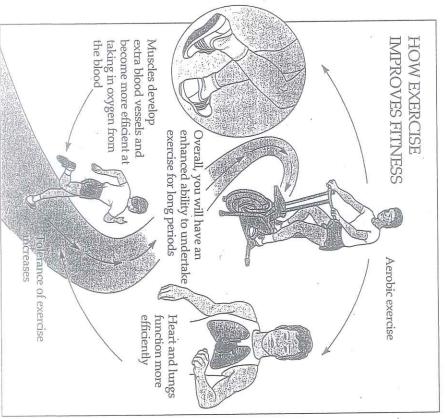


## YOUR HEART

and, if they do have one, they are more likely to survive it. and vigorously have a much lower chance of having a heart attack slow heart rate. All evidence shows that people who exercise regularl with fewer beats. This explains why many athletes have a remarkably enables it to pump the same volume of blood around the body XERCISING REGULARLY is known to reduce the risk of heart disease It makes the heart muscle both stronger and thicker, which

Exercise increases the speed and strength of your heartbeat. At rest, your heart pumps between 10 and 12 pints of blood around your body in a minute. During exercise this rate can increase to between 18 and 70 pints per minute. If you are in shape, your heart will recover more quickly after exercise, so that your pulse returns to normal sooner.



#### SAFEGUARDING YOUR HEART

stream. This means that you have a lowserves, and increases the level at which calories, allows a much wider food selecyour weight. Exercise burns up extra healthy diet (see page 22), it helps control heart is that, in conjunction with eating a er risk of angina or of a heart attack unhealthy cholesterol in your blood-Regular exercise reduces the amount of when you are not exercising. People energy is burned in your tissues at rest, tion, uses up fat from your body's re-Another reason exercise is good for your weight are more susceptible to high blood pressure and thus much more likewho are more than 20 percent overly to have heart disease develop. helps you use excess calories

Exercise after a heart attack
Exercising regularly after a heart attack
has been claimed by some experts to
reduce your risk of having another one.
Today most doctors allow you to start
daily activities (such as walking short
distances in your room) within a few
days of a heart attack, provided you do
not have any complications such as heart
failure or an irregular heartbeat. Exercise
levels are then gradually increased.
Once the damaged area of heart muscle

# HOW EXERCISE STRENGTHENS YOUR HEART

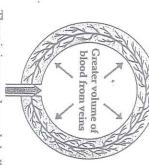
During strenuous exercise the volume of blood flowing into the heart increases. The greater volume of blood stretches the muscle, and the muscle fibers respond with a stronger, more powerful, contraction. The heart's muscle bulk increases and its blood vessels proliferate, improving the muscle's blood supply. In time, the heart becomes more efficient and pumps a greater volume of blood with each stroke, allowing the heart rate to slow down.

### HEART OF PERSON WITH SEDENTARY LIFE-STYLE



The heart muscle bulk and the blood vessel network adequately cope with the usually low pressure of blood.

#### HEART OF PERSON WITH ACTIVE LIFE-STYLE



There is increased muscle bulk and a proliferation of blood vessels within the heart muscle.

IS EXERCISE SAFE WITH ANGINA?

If you have angina,

should be avoided. shoveling snow the garden or such as digging in Strenuous exercise your heart after a heavy meal; these factors can weather or right cold or very hot not exercise in very if you have chest and never exercise symptoms appear most angina recommended for place extra strain on breathlessness. Do pam or severe exercising if any walks. take regular, brisk whom are able to sufferers, many of exercise program before you begin an Gentle exercise is talk to your doctor Stop

has healed, which usually takes about 6 weeks, most people are allowed to return to their normal activities.

### A steady pace

Start exercising with a program of slow walking, increasing your pace and the distance you walk gradually over a couple of weeks. Stop if you notice chest pain, breathlessness, palpitations, dizziness, or any other alarming symptoms. Do not exercise in very cold or very hot weather or right after a meal.

## ASK YOUR DOCTOR EXERCISE AND THE HEALTHY HEART

My wife has read that you can die suddenly during strenuous exercise. I have been training hard for a marathon and she is worried. How can I tell if I am overdoing it?

Alt is true that people die more
often during exercise than when
resting in bed. However, in general,
people who exercise regularly live
longer than those who do not. If you,
are concerned about your training, ask
your doctor to give you a checkup
Warning signs during exercise are
chest pain, pain in your neck or arms,
severe breathlessness, dizziness,
palpitations, or faintness

Off exercise makes blood pressure
go up, why does my doctor tell
me to exercise to keep my blood
pressure down?

A Your blood pressure goes up
A during exercise because your
heart is beating more forcefully. When
you stop, it returns to lower than your
usual blood pressure or back to
normal. Regular exercise can help
prevent persistently high blood
pressure. It also lowers the level of
cholesterol in your blood.

My father died of a heart attack at age 40. Should I be worried now that I am approaching 40?

Anyone over 35 who has a family history of heart disease should have a checkup before doing any strenuous exercise to ensure that there are no signs of heart disease or high blood pressure. It should then be reasonably safe for you to exercise, as long as the exertion does not bring on any alarming symptoms.