

The less physically active people become as they get older, the faster their bodies wear out on them. That's the conclusion from two sci-entists at the Center on Aging at

. That's the conclusion from two sei-cindists at the Center on Aging at Tofts University.

Drs. William Evans and Irwin Rosenberg detail their anti-aging program, which includes regular ex-ercise and sound matrition, in a just the control of the control of the con-trol of the con-

- resting metabolism
- maximal oxygen consumption blood sugar tolerance blood pressure blood fats

- blood density

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that genetics plays a part in the gradual decline of these blomarkers,

gradual decline of these blomarkers, they emphasize that regular exercise and a prudent delet can minimize the deleterious changes that are normally attributed to aging.

CONSIDER THE EFFECT of exercise on muscle mass and strength, both of which decline throughout our adult lives. From age 20 to about 70, we lose about 30 percent of our muscle cells that remain.

we lose about 30 percent of our mus-cle cells that remain. Regular exercise also belps to compensate for the decrease in me-tabolism that normally occurs as we age, that is, the rate at which we burn calories just to maintain vital body functions. With each passing decade, a person needs about 100 fewer calories per day. Fortuntely, the active muscle tissue that ex-ercise maintains counteracts the tendency toward a reduced calorie requirement. Moreover, regular requirement. Moreover, regular physical activity reduces body fat stores.

Another consequence of aging is a

decrease in our ability to take in and use oxygen. The maximal oxygen consumption, a key indicator of our espacity to produce epergy, decreases by about one percent per year. Since an exercise program will generally increase this variable by about 20 percent, the physically trained 60-year-old may achieve the same fitness isvel as the inactive 60-year-old (figure). In other words, regular exercise can lead to a 20-year functional rejuvenation in that respect!

year functional rejuvenation in that respect!

Blood sugar tolerance, or the body's ability to regulate the level of sugar, in the blood, is also enhanced by exercise. By age 70, approximate-ty one in four adults is at increased risk of developing a blood sugar tolerance problem: adult-onset diabetes. Regular exercise, along with an appropriate diet, can help to break the chain of events that can lead to this condition.

ANOTHER ADVANTAGE of an exercise program is that it can lower

total and "bad" LDL-cholesterol levels, and raise the protective, or "good" HDL-cholesterol. These changes, however, are even more likely to occur if a low-lat diet is simultaneously adopted, and body

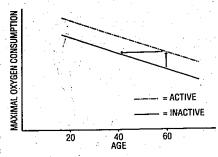
likely to occur if a low-lat diet is si-multaneously adopted, and body weight is reduced.

Along with controlling blood fats, exercise can reduce blood pressure.
Scientists at the Cooper Clinic in Dallas have reported that people who maintain their fitness have a 34

who maintain their filters have a percent lower risk of developing high blood pressure.

An additional benefit of regular exercise is that it can help to ward off the loss of bone tissue that nor-

off the loss of bone tissue that normally occurs as a person grows older. Weight-bearing exercises, like walking, can help to maintain bone density. Finally, exercise enhances the body's ability to regulate its internal temperature by increasing the amount of water in the blood. The amount of water in the blood recommendation of the second recommendation recommendation recommendation recommendation recommendation recommendation recommendation reco may hasten the sweating respected in the body.



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