The best medicines are those that prevent disease and improve quality of life. You may not think of physical activity as medicine, but in fact, when taken daily, it is powerful medicine.

# Would you like to prevent cancer?

A recent report by the American Cancer Society<sup>1</sup> states that regular exercise may be helpful in preventing breast, colon, prostate, and endometrium cancer, some of the most common cancers today.

nterested in preventing diabetes? It is one of the fastest growing and most serious diseases today. Researchers looked at the risk of developing diabetes in a 15-year study of 2,478 young adults<sup>2</sup> (younger than age 30). Those who were sedentary at the start of the study but became physically active during the 15-year follow-up were 60% less likely to develop diabetes compared to those who remained sedentary. Imagine the impact on the health of our nation and health care costs if every sedentary person became physically active! The Centers for Disease Control and Prevention estimate that about 27% of all health care costs are linked to a sedentary lifestyle and excess body weight.3

Want to prevent a heart attack. In a Harvard study of 80,000 nurses, those who walked at least half an hour, 5 or more days per week, had only half as many heart attacks as those who didn't exercise regularly.

Here are other benefits shown by large research studies (comparing active or high-fit persons to inactive or low-fit persons):



- Brisk walking cut the risk of hip fracture in older women by 65%
- Fit men had 68% fewer strokes<sup>6</sup>
- Physically active men were 57% less likely to develop high blood pressure<sup>7</sup>
- Fit men were 34% less likely to catch a cold or the flu bug<sup>8</sup>
- Fit persons have less depression and are happier<sup>9</sup>
- Fit persons were only half as likely to die from any cause during one large 10-year study<sup>10</sup>

People who get regular physical activity are also less likely to be overweight, have more energy, are more optimistic, sleep better, and have less arthritis and joint pain.<sup>11</sup>

The Adventist Health Study<sup>12</sup> and the Alameda County Study,<sup>13</sup> 2 landmark, large, population studies, both showed physical activity to be a top predictor of long life (even better than whether or not you were a vegetarian in most cases). The Harvard Alumni Study<sup>14</sup> showed that for every hour you exercise, you increase your life expectancy by 2 hours. Not a bad investment!

More than 100 years ago, a pioneer in health reform wrote this statement

on physical activity: "All who can possibly do so ought to walk in the open air every day, summer and winter. A walk, even in winter, would be more beneficial to the health than all the medicine the doctors may prescribe." Do you believe it? The research seems quite convincing.

AEROBIC MILE CHART					
Activity	Minu	tes to e	qual		
· · · · · · · · · · · · · · · · · · ·	one A	Aerobic	Mile		
	Easy	Moderate	Vigorous		
Aerobic dancing	30	20	15		
Backpacking	15	12	10		
Basketball	20	12	10		
Bicycling	18	14	10		
(10, 12, and 15 mph)	00	00	45		
Calisthenics	30	20	15		
Canoeing or rowing (4, 6, and 8 METS)	20	15	12		
Dancing, social	30	20	15		
Elliptical trainer	20	15	12		
Football, touch	20	15	12		
Gardening, active	60	40	30		
Golfing, pulling cart	30	25	20		
Hiking, cross-country	20	15	12		
Jogging or running (12, 10, 8 min/mile)	12	10	8		
Karate, Judo	15	12	10		
Mountain climbing	15	12	10		
Racquetball, squash	20	15	10		
Rope skipping	11	10	8		
SCUBA diving	20	15	10		
Skating	20	15	12		
Skiing, cross country	17	12	8		
Skiing, down hill	20	15	12		
Soccer	15	12	10		
Stair stepping	15	13	11		
Stationary Cycling (50-100-150 watts)	16	13	11		
Swimming laps	24	16	12		
Table tennis	60	30	20		
Tennis	20	15	11		
Volleyball	20	15	12		
Walking (24, 20, 15 min/mile)	24	20	15		
Water aerobics	20	18	15		
Water skiing	20	15	12		
Weight training	30	20	15		
vvoigni tranning	30	20	10		

If you haven't been exercising, aim for 6 aerobic miles per week to start.

Gradually work up to 10 or 15.

To gain these health
advantages,
the Centers for
Disease Control
and Prevention<sup>11</sup> and
the American College of
Sport's Medicine recommend,
"Every U.S. adult should
accumulate 30 minutes or
more of moderate-intensity
physical activity on most,
preferably all, days of the
week." Examples include

brisk walking, biking, swimming, active gardening, and other physical activities that make you breathe deeply (but not be out of breath) and make you sweat. Younger, fit persons may enjoy more vigorous activity, including jogging and active sports.

If you do not currently engage in regular physical activity, you should begin by incorporating a few minutes of physical activity into each day and gradually build up to 30 minutes or more of moderate-intensity activity. For maintaining an optimal weight, the Institute of Medicine recommends 60 minutes of moderate activity daily or 30 minutes of vigorous daily activity. If If you have any health problems, check with your doctor for specific guidance.

## Here are some principles that can belp you maintain an active lifestyle:

- Choose activities you enjoy. If you don't like what you do, you won't keep it up for long.
- Ask someone to go with you. An exercise buddy helps you be more faithful to regular activity.
- Exercise in the cool of the day (morning or late in the day) and drink plenty of fluids.
- Add variety by doing different activities on different days or choosing new walking routes.

## **FITT Formula for Fitness**

Frequency of participation

Aim for most, preferably all, days of the week

exercising too hard. Slow down.

**Intensity of exercise** (moderate, vigorous)

Start with an easy to moderate intensity, and work your way up to a moderate to vigorous intensity (as your health allows). Consult your doctor if you have health problems or concerns. You need to sweat and breathe deeply, but not be out of breath. The "Talk Test" is an easy way to monitor your approximate intensity during physical activity. If you cannot carry on a conversation, you are

Source: The Centers for Disease Control and Prevention (CDC)

Type of activity –	<ul> <li>Participate in activities</li> </ul>	you enjoy
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#### Start with moderate activities Ease into vigorous activities such as: such as: ☐ Walking (2 miles in 35-40 mins.) ☐ Walking fast (2 miles in 25 mins.) ☐ Swimming laps (20-30 mins.) ☐ Jogging/running ☐ Bicycling (9-10 mph) ☐ Backpacking ☐ Playing volleyball (45-60 mins.) ☐ Hill climbing/stair climbing ☐ Low-impact aerobics (30 mins.) ☐ Rollerblading or ice skating □ Dancing (30-60 mins.) ☐ Bicycling (12-15 mph) ☐ Active gardening (30-60 mins.) □ Step aerobics ☐ Golf, walking (9 holes) ☐ Playing competitive sports (e.g., tennis or racquetball) ☐ Water aerobics (30-40 mins.) ☐ Downhill/cross-country skiing ☐ Canoeing/kayaking (e.g., shoveling/hoeing)

### Time of physical activity

Aim for 30–60 minutes of physical activity each day. Start with 15–20 minutes and work up to at least 30 minutes daily. More time is recommended for those who want to lose weight or achieve a higher level of fitness. It's OK to break sessions into 2 or 3 shorter sessions.

- Get good walking shoes and wear comfortable exercise clothing.
- Set goals and keep records. You may want to record minutes, miles, or steps per day.
- Look for ways to be more active daily: take the steps instead of the elevator, walk to the store, walk the dog, walk some during your lunch hour, take breaks frequently, and take active vacations.
- Join a gym or fitness class. If needed, ask a fitness trainer to help you get started.

 Do some stretching and strengthening exercise 2-3 times weekly as well as regular aerobic exercise.

As you begin to be more active, your strength, bealth, and mental outlook will improve, and your spirit will soar!





# References & Further Reading

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