



Physical Activity and You (for Adults)

Guide I-101

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Physical activity is one of the best things you can do for your health. Combined with eating well, exercise is what your body (and mind) needs, and just what the doctor ordered.

It's a simple fact: *Physical activity enhances your health physically and mentally.*

O.K., so what does “being physically active” mean and how will it help my health?

“Being physically active” means moving your body: walking, dancing, swimming, biking, gardening, jogging. You can create opportunities to move on a daily basis, for example: climbing stairs instead of taking an elevator; parking your car farther from your shopping destination so you can walk that extra distance; riding a stationary bicycle or doing resistance exercises while watching T.V.; walking or biking to school or work. There are different ways to be physically active and different levels (intensity) of physical activity. Plus, there are recommendations by health experts as to just how physically active you should be.

Physical Activity Recommendations:

Moderate Intensity: Scientifically, we know that moderate-intensity level physical activity makes you feel better and improves your health. So, it's good to spend 30 minutes a day—almost every day—doing things such as walking briskly, raking leaves, mowing your lawn, gardening, or wheeling yourself in your wheelchair. If you feel *some* exertion during an activity, but can still easily carry on a conversation, you've hit on a moderate-intensity physical activity.

Vigorous Intensity: If you're up to it, there are also vigorous activities you can engage in such as basketball or volleyball, jogging, racewalking, aerobics (including water), or swimming laps. If your lungs are working extra hard, you've hit on vigorous-intensity physical activity. The ideal time period for these activities will vary (for example, from 15-30 minutes) depending on factors such as your age, weight, your body's condition, and the effort you put into the activity.

If you're not at current levels of recommended activity, start out light (less than moderate-intensity) and aim for a moderate-intensity level of activity. Stay committed by set-



ting realistic short-term goals, pacing yourself, trying different physical activities to find something you enjoy, and perhaps partnering up with a friend for some of your activities (such as walking, biking, or swimming).

Being physically active helps you develop a more durable heart, veins, arteries, and muscles, and also increases muscular strength and flexibility. Being physically active improves your body's functioning, how much fat you have versus how much muscle you have, and helps you manage your weight. All of this contributes to a healthier you while reducing your risk of dying from conditions such as heart disease, stroke, diabetes, and high blood pressure. Studies have also shown that physical activity can reduce symptoms of anxiety, depression, and stress, and improve mood and overall psychological well-being. In short, physical activity makes your life longer and more enjoyable.

Endurance, Strength, and Flexibility: Physical activity enhances your **endurance, strength, and flexibility**, all of which play a part in physical fitness...

Cardiovascular Endurance: Your heart and its vascular system (veins and arteries) make up your cardiovascular system, which needs a certain level of endurance for you to reach optimal levels of physical activity (for example, 30 minutes or so of moderate-level physical activity almost

every day). The harder you exert, the more your cardiovascular system needs to endure: that is, supply your body with the blood and oxygen it needs as you exercise harder and harder. Your lungs also play an important part by interacting with the cardiovascular system to move oxygen throughout your body. Gradually and comfortably increasing your physical activity level strengthens your cardiovascular system (and lungs) to do more and more what you're asking them to do during exercise, and makes them stronger even when you're resting.

Muscular Endurance: Muscular endurance is the ability of your muscles to do what you ask them to do when you have increased your physical activity. Muscular endurance needs to be developed and maintained. The more you exert your muscles, the more they need to endure: that is, keep up the work you're asking them to do. Increasing your moderate/vigorous physical activity will in turn enhance your muscle endurance, making your muscles more durable (longer lasting).

Muscle Strength: Muscle strength refers to a muscle's ability to exert force—like a push against the floor (as in a pushup); or like lifting an object (as in lifting weights in weight training). Another example is a situp, where your stomach muscles must exert force to change your lying down position to one of sitting up. Resistance exercises (e.g., elastic band exercises) will also strengthen muscles. Strengthening muscle enhances its tone and increases its mass while reducing fat.

Muscle Flexibility: Flexibility refers to your range of movement of your muscle joints. Basic stretching exercises will increase the blood supply to your joints which improves your flexibility. Simply put, flexibility helps to improve physical performance (for example, muscle coordination) and decrease the likelihood of injury. Never overstretch; and warm up the body some before stretching with some gentle joint rotations and light aerobic activity (for example, about 5 minutes of fast walking, slow jogging—something to get your blood pumping). Hatha yoga is an example of a good systematic approach to stretching various muscles of the body.

Aerobic activity for cardiovascular endurance:

- Desired goal: 3-5 days per week, 30-60 minutes per day
- Start out with light to moderate intensity.
- Work your way up to your desired goal.

Muscle strength training: Desired goal: 2-3 days per week
(Precaution: Weight training may be dangerous if performed improperly. To prevent injuries, consult an experienced trainer before starting a weight lifting program, as well as your physician.)

- Target major muscle groups.
- Resistance bands are an alternative to weights for muscle strengthening.

Flexibility:

- Engage in flexibility exercises 3 days per week (e.g., 30-45 minutes of Hatha yoga).

Sample weekly exercise schedule:							
	M	T	W	Th	F	Sa	Su
aerobic	X		X		X		X
strength		X		X		X	
flexibility	X			X			X

Sources:

Centers for Disease Control/ National Center for Chronic Disease Prevention and Health Promotion (2204). *Physical Activity*. <http://www.cdc.gov/nccdphp/dnpa/physical/index.htm>

National Institutes of Health/ National Heart, Lung, and Blood Institute. 2004. *Guide to Physical Activity*. http://www.nhlbi.nih.gov/health/public/heart/obesity/lose_wt/phy_act.htm

President's Council on Physical Fitness and Sports (2004). *Guidelines for Personal Exercise Programs*. <http://fitness.gov/fitness.html>

American Academy of Family Physicians/American Family Physician journal (March 15, 2003). *Physical Activity for Healthy Weight*. <http://www.aafp.org/afp/20030315/1266ph.html>

Consult with your doctor about becoming more physically active if you have any medical conditions such as diabetes, heart trouble, high blood pressure, arthritis, or obesity. Also consult your doctor if you are pregnant or over 35 years old and physically inactive.

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