

AgePage

Dietary Supplements

Bill's retired and lives alone. Often he's just not hungry or is too tired to fix a whole meal. Does he need a multivitamin, or should he take one of those dietary supplements he sees in ads everywhere? Bill wonders if they work—will one help keep his joints healthy or another give him more energy? And, are they safe?

What Is a Dietary Supplement?

Dietary supplements are substances you might use to add nutrients to your diet or to lower your risk of health problems, like osteoporosis or arthritis. Dietary supplements come in the form of pills, capsules, powders, gel tabs, extracts, or liquids. They might contain vitamins, minerals, fiber, amino acids, herbs or other plants, or enzymes. Sometimes, the ingredients in dietary supplements are added to foods, including drinks. A doctor's prescription is not needed to buy dietary supplements.

Should I Take a Dietary Supplement?

Do you need one? Maybe you do, but usually not. Ask yourself why you think you might want to take a dietary supplement. Are you concerned about getting enough nutrients? Is a friend, a neighbor, or someone on a commercial suggesting you take one? Some ads for dietary supplements in magazines or on TV seem to promise that these supplements will make you feel better, keep you from getting sick, or even help you live longer. Sometimes, there is little, if any, good scientific research supporting these claims. Some dietary supplements will give you nutrients that might be missing from your daily diet. But eating healthy foods is the best way to get the nutrients you need. Others may cost a lot or might not benefit you the way you would like. Some supplements can change how medicines you may already be taking will work. You should talk to your doctor or a registered dietitian for advice.

What If I'm Over 50?

People over 50 need more of some vitamins and minerals than younger adults do. Your doctor or a dietitian can tell you whether you need to change your diet

or take vitamins or minerals to get enough of these:

- ◆ **Vitamin B₁₂**. Vitamin B₁₂ helps keep your red blood cells and nerves healthy. As people grow older, some have trouble absorbing vitamin B₁₂ naturally found in food. Instead, they can choose foods, like fortified cereals, that have this vitamin added or use a B₁₂ supplement.
- ◆ **Calcium**. Calcium works with vitamin D to keep bones strong at all ages. Bone loss can lead to fractures in both older women and men. Calcium is found in milk and milk products (fat-free or low-fat is best), canned

fish with soft bones, dark-green leafy vegetables like spinach, and foods with calcium added.

- ◆ **Vitamin D**. Some people's bodies make enough vitamin D if they are in the sun for 10 to 15 minutes at least twice a week. But, if you are older, you may not be able to get enough vitamin D that way. Try adding vitamin D-fortified milk and milk products, vitamin D-fortified cereals, and fatty fish to your diet, and/or use a vitamin D supplement.
- ◆ **Vitamin B₆**. This vitamin is needed to form red blood cells. It is found in potatoes, bananas, chicken breasts, and fortified cereals.

Different Vitamin and Mineral Recommendations for People Over 50

The National Academy of Sciences recommends how much of each vitamin and mineral men and women of different ages need. Sometimes, the Academy also tells us how much of a vitamin or mineral is too much.

Vitamin B₁₂—2.4 mcg (micrograms) each day (if you are taking medicine for acid reflux, you might need a different form, which your health care provider can give you)

Calcium—1200 mg (milligrams), but not more than 2500 mg a day

Vitamin D—400 IU (International Units) for people age 51 to 70 and 600 IU for those over 70, but not more than 2000 IU each day

Vitamin B₆—1.7 mg for men and 1.5 mg for women each day

When thinking about whether you need more of a vitamin or mineral, think about how much of each nutrient you get from food and drinks, as well as from any supplements you take. Check with a doctor or dietitian to learn whether you need to supplement your diet.

What Are Antioxidants?

You might hear about *antioxidants* in the news. These are natural substances found in food that might help protect you from some diseases. Here are some common sources of antioxidants that you should be sure to include in your diet:

- ◆ *beta-carotene*—fruits and vegetables that are either dark green or dark orange
- ◆ *selenium*—seafood, liver, meat, and grains
- ◆ *vitamin C*—citrus fruits, peppers, tomatoes, and berries
- ◆ *vitamin E*—wheat germ, nuts, sesame seeds, and canola, olive, and peanut oils

Right now, research results suggest that large doses of supplements with antioxidants will not prevent chronic diseases such as heart disease or diabetes. In fact, some studies have shown that taking large doses of some antioxidants could be harmful. Again, it is best to check with your doctor before taking a dietary supplement.

What About Herbal Supplements?

Herbal supplements are dietary supplements that come from plants. A few that you may have heard of are ginkgo biloba,

ginseng, echinacea, and black cohosh. Researchers are looking at using herbal supplements to prevent or treat some health problems.

It's too soon to know if herbal supplements are both safe and useful. But, studies of some have not shown benefits.

Are Dietary Supplements Safe?

Scientists are still working to answer this question. The U.S. Food and Drug Administration (FDA) checks prescription medicines, such as antibiotics or blood pressure medicines, to make sure they are safe and do what they promise. The same is true for over-the-counter drugs like pain and cold medicines.

But the FDA does not consider dietary supplements to be medicines. The FDA does not watch over dietary supplements in the same way it does prescription medicines. The Federal Government does not regularly test what is in dietary supplements. So, just because you see a dietary supplement on a store shelf does not mean it is safe or that it even does what the label says it will or contains what the label says it contains.

If the FDA receives reports of possible problems with a supplement, it will issue warnings about products that are clearly unsafe. The FDA may also take these supplements off the market. The Federal Trade Commission looks into reports of ads that might misrepresent what dietary supplements do.

A few private groups, such as the U.S. Pharmacopeia (USP), NSF International, ConsumerLab.com, and the Natural Products Association (NPA), have their own “seals of approval” for dietary supplements. To get such a seal, products must be made by following good manufacturing procedures, must contain what is listed on the label, and must not have harmful levels of things that don’t belong there, like lead.

What’s Best for Me?

If you are thinking about using dietary supplements:

- ◆ **Learn.** Find out as much as you can about any dietary supplement you might take. Talk to your doctor, your pharmacist, or a registered dietitian. A supplement that seemed to help your neighbor might not work for you. If you are reading fact sheets or checking websites, be aware of the source of the information.

Could the writer or group profit from the sale of a particular supplement? For more information from the National Institute on Aging about choosing reliable health information websites, see *For More Information*.

- ◆ **Remember.** Just because something is said to be “natural” doesn’t also mean it is either safe or good for you. It could have side effects. It might make a medicine your doctor prescribed for you either weaker or stronger.
- ◆ **Tell your doctor.** He or she needs to know if you decide to go ahead and use a dietary supplement. Do not diagnose or treat your health condition without first checking with your doctor.
- ◆ **Buy wisely.** Choose brands that your doctor, dietitian, or pharmacist says are trustworthy. Don’t buy dietary supplements with ingredients you don’t need. Don’t assume that more of something that might be good for you is even better for you.
- ◆ **Check the science.** Make sure any claim made about a dietary supplement is based on scientific proof. The company making the dietary supplement should be able to send you information on the safety and/or effectiveness of the ingredients in a product, which you can then discuss

with your doctor. Remember that if something sounds too good to be true, it probably is.



What Can I Do to Stay Healthy?

Here's what one active older person does:

When she turned 60, Pearl decided she wanted to stay healthy and active as long as possible. She was careful about what she ate. She became more physically active. Now she takes a long, brisk walk 3 or 4 times a week. In bad weather, she joins the mall walkers at the local shopping mall. When it's nice outside, Pearl works in her garden. When she was younger, Pearl stopped smoking and started using a seatbelt. She's even learning how to use a computer to find healthy recipes. Last month, she danced at her granddaughter's wedding. Pearl is 84 years old.

Try following Pearl's example—stick to a healthy diet, be physically active, keep your mind active, don't smoke, see your doctor regularly, and, in most cases, only use dietary supplements suggested by your doctor or pharmacist.

For More Information

Here are some helpful resources:

Department of Agriculture

Food and Nutrition Information Center
National Agricultural Library
10301 Baltimore Avenue, Room 105
Beltsville, MD 20705-2351
301-504-5414

www.nal.usda.gov/fnic

Federal Trade Commission

600 Pennsylvania Avenue, NW
Washington, DC 20580
877-382-4357 (toll-free)
202-326-2222

www.ftc.gov/healthclaims

Food and Drug Administration

Center for Food Safety and
Applied Nutrition
5100 Paint Branch Parkway HFS-555
College Park, MD 20740-3835
888-723-3366 (toll-free)

www.cfsan.fda.gov

National Center for Complementary and Alternative Medicine

NCCAM Clearinghouse
Box 7923
Gaithersburg, MD 20898
888-644-6226 (toll-free)
866-464-3615 (TTY/toll-free)

www.nccam.nih.gov

**National Library of Medicine
MedlinePlus**

www.medlineplus.gov

Office of Dietary Supplements

6100 Executive Boulevard
Room 3B01, MSC 7517
Bethesda, MD 20892-7517
301-435-2920
www.ods.od.nih.gov

The Federal Government has several other websites with information on nutrition, including:

www.nutrition.gov—learn more about healthy eating, food shopping, assistance programs, and nutrition-related health subjects.

www.mypyramid.gov—information about the *Dietary Guidelines for Americans*.

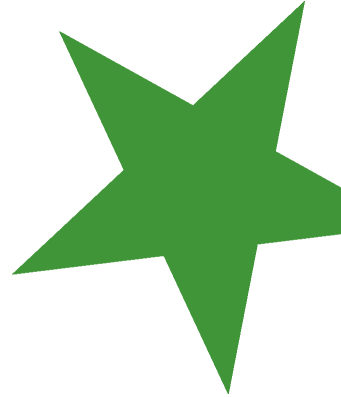
For information on exercise, nutrition, and health quackery and other resources on health and aging, contact:

**National Institute on Aging
Information Center**

P.O. Box 8057
Gaithersburg, MD 20898-8057
800-222-2225 (toll-free)
800-222-4225 (TTY/toll-free)
www.nia.nih.gov
www.nia.nih.gov/Espanol

To sign up for regular email alerts about new publications and other information from the NIA, go to *www.nia.nih.gov/HealthInformation*.

Visit NIHSeniorHealth (*www.nihseniorhealth.gov*), a senior-friendly website from the National Institute on Aging and National Library of Medicine. This website has health information for older adults. Special features make it simple to use. For example, you can click on a button to have the text read out loud or to make the type larger.



National Institute on Aging

National Institutes of Health
U.S. Department of Health and
Human Services

April 2008

