Calcium Supplements

This information describes calcium supplements and how to take them.

Calcium is a mineral that you need to build and maintain healthy bones. If you don’t get enough calcium from your diet, your body will take it from your bones. This can cause osteoporosis.

Osteoporosis

Osteoporosis develops when you lose bone tissue, which makes your bones more likely to fracture (break). Osteoporosis is most common in women who have gone through menopause. But, it can develop in anyone, including men, due to medication or illness. Some risk factors for osteoporosis include:

- Having a thin build
- Being of Northern European or Asian descent
- Having fair skin
- Going through menopause early (before the age of 45)
- Taking certain steroid medications for longer than 3 months
- Not getting enough physical activity
- Not getting enough calcium in your diet (or from dietary supplements)
- Smoking
- Drinking too much alcohol (more than 1 drink per day if you’re a woman and more than 2 drinks per day if you’re a man)
- Taking aromatase inhibitors (medications that stop the production of estrogen and are used to treat breast cancer)

**Vitamin D**

Vitamin D is a vitamin that helps your body absorb calcium. Your body makes vitamin D after being exposed to the sun. Vitamin D is also found in some foods.

It can be hard to get enough vitamin D from just sunlight and foods. Your doctor or clinical dietitian nutritionist might tell you to take vitamin D supplements. These can be prescription or over-the-counter vitamin D supplement pills or calcium supplements with added vitamin D.

**Recommended Daily Intakes of Calcium and Vitamin D**

Getting enough calcium in your diet helps prevent osteoporosis. Calcium is measured in milligrams (mg) that you need per day.

- If you’re between the ages of 19 and 50, you need 1,000 mg of calcium every day.
• If you’re a woman and are age 51 or older, you need 1,200 mg of calcium every day.

• If you’re a man and are between the ages of 51 and 70, you need 1,000 mg of calcium every day.

• If you’re a man and are age 70 or older, you need 1,200 mg of calcium every day.

Vitamin D is measured in international units (IU) that you need per day.

• If you’re between the ages of 19 and 70, you need 600 IU of vitamin D every day.

• If you’re over 70 years of age, you need at least 800 IU of vitamin D every day.

If you have osteoporosis, you might need more calcium, vitamin D, or both. Talk with your doctor or clinical dietitian nutritionist about how much you need per day. Don’t take more than your daily recommended amount of calcium. Taking too much can be harmful to your health.

**Sources of Calcium**

**Food**
The best way to get calcium is through the food you eat. Dairy products are a good source of calcium. If you’re lactose intolerant, try lactose-free dairy products or Lactaid® pills. You
can also try calcium-fortified orange juice and other foods. Check food labels to see the amount of calcium in foods.

The table at the end of this resource lists some foods and drinks that are high in calcium.

**Calcium supplements**

You may find it hard to get enough calcium from your diet alone. Your doctor or clinical dietitian nutritionist may suggest that you take a calcium supplement. You don’t need a prescription for this. Your doctor or clinical dietitian nutritionist will tell you how much you should take.

**Types of Calcium Supplements**

There are several types of over-the-counter calcium supplements, including calcium carbonate and calcium citrate. These supplements are taken orally (swallowed).

Don’t buy calcium tablets that are made from bone or dolomite. These may contain lead or other harmful metals. Certain health-food store preparations have this problem. Most calcium supplements that you buy in a pharmacy have been tested for this.

**Calcium carbonate**

Calcium carbonate is absorbed best if you take it with meals. OsCal® and Caltrate® are 2 brands of calcium carbonate supplements. Other forms of calcium carbonate include:
• Some antacids, such as Tums®. If you take Tums, you don’t need to take it with a meal.

• Viactiv®, which is a flavored soft chew.

• A liquid form that you can usually get from a pharmacy, but may require a special order.

**Calcium citrate**

Calcium citrate is another type of calcium supplement. Some people may absorb calcium citrate better than calcium carbonate. This is true for older people and people with low stomach acid (for example, people who have pernicious anemia).

Calcium citrate absorbs best if you take it 30 minutes before a meal. One brand of calcium citrate is Citracal®, which is available in most pharmacies.

If you have any of the following side effects with calcium carbonate, take calcium citrate instead:

• Abdominal (belly) pain

• Gas

• Constipation

**Taking Calcium Supplements**

• If you’re taking more than 500 mg of calcium supplements per day, take it in divided doses for best absorption. For example,
if you take 1,000 mg of calcium each day, take 500 mg in the morning and 500 mg in the evening.

- Talk with your doctor or clinical dietitian nutritionist before taking calcium supplements if you:
  - Have a history of hypercalcemia (too much calcium in your blood)
  - Take diuretics (water pills) or antacids for indigestion
  - Have ever had kidney stones
  - Have had problems with your parathyroid glands
  - Have a history of heart disease, including heart attack or stroke
- **If you’re taking a bisphosphonate medication for osteoporosis (or for other reasons), take your calcium supplement at least 30 minutes after you take it.** If you’re not sure if the medication that you’re taking is a bisphosphonate, talk with your doctor.
  - Some examples of bisphosphonate medications are alendronate (Fosamax®) and risedronate (Actonel®). Please note that calcium supplements don’t replace other medications for the treatment of osteoporosis.
- Calcium supplements can cause constipation. If you have this side effect, increase the amount of liquids and fiber in your diet. If that doesn’t work, talk with your doctor or nurse about
taking a stool softener or laxative, or try to get more calcium from foods instead of taking supplements.

**Calcium-Rich Foods and Drinks**

The following tables includes some foods and drinks that are rich in calcium.

<table>
<thead>
<tr>
<th>Food</th>
<th>Portion size</th>
<th>Calcium in portion (mg)</th>
<th>Calories in Portion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parmesan cheese</td>
<td>1½ ounces</td>
<td>503</td>
<td>167</td>
</tr>
<tr>
<td>Cheddar cheese</td>
<td>1½ ounces</td>
<td>307</td>
<td>171</td>
</tr>
<tr>
<td>Milk, low-fat</td>
<td>1 cup (8 ounces)</td>
<td>305</td>
<td>102</td>
</tr>
<tr>
<td>Yogurt, plain, nonfat</td>
<td>1 cup (8 ounces)</td>
<td>265</td>
<td>150</td>
</tr>
<tr>
<td>Soy milk, plain, calcium-fortified</td>
<td>1 cup (8 ounces)</td>
<td>301</td>
<td>80</td>
</tr>
<tr>
<td>Sardines, canned in oil, with bones, drained</td>
<td>2 sardines</td>
<td>92</td>
<td>50</td>
</tr>
<tr>
<td>Collards, cooked</td>
<td>½ cup</td>
<td>134</td>
<td>31</td>
</tr>
<tr>
<td>Bok choy (Chinese cabbage), raw</td>
<td>1 cup</td>
<td>74</td>
<td>9</td>
</tr>
<tr>
<td>Almonds</td>
<td>¼ cup</td>
<td>96</td>
<td>207</td>
</tr>
<tr>
<td>Figs, fresh</td>
<td>2</td>
<td>35</td>
<td>74</td>
</tr>
<tr>
<td>medium figs</td>
<td>1 cup (8 ounces)</td>
<td>33</td>
<td>0</td>
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<tr>
<td>Mineral water (such as San Pellegrino®, Perrier®)</td>
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</tr>
</tbody>
</table>

If you would like more information on foods that are rich in calcium, please ask to speak with a clinical dietitian nutritionist.

**Additional Resources**

**National Institutes of Health (NIH) Osteoporosis and Related Bone Diseases National Resource Center**

800-624-BONE (800-624-2663)


**National Osteoporosis Foundation**

202-223-2226

[www.nof.org](http://www.nof.org)

If you have any questions, contact a member of your healthcare team directly. If you're a patient at MSK and you need to reach a provider after 5:00 PM, during the weekend, or on a holiday, call 212-639-2000.

For more resources, visit [www.mskcc.org/pe](http://www.mskcc.org/pe) to search our virtual library.

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