

## **High Calcium Diet: Essential Tips for Strong Bones**

Maintaining strong bones and overall health requires a balanced diet; calcium is crucial. Calcium is essential for building and maintaining bones and teeth and ensuring muscles, nerves, and heart function properly. Many individuals find calcium supplements constipating and can best fill their calcium needs through their diet.

### Why Calcium Is Important

Calcium is the most abundant mineral in the body. A human adult body contains about 2.2 pounds of calcium. About 99% is stored in the bones and teeth, providing structural support. The remaining 1% circulates in the



blood, vital for muscle contractions, nerve signaling, and hormone release. When calcium levels in the blood are low, the body pulls calcium from the bones, which can lead to weakened bones over time.

#### **Recommended Daily Calcium Intake**

The amount of calcium you need depends on your age, gender, and life stage. The National Institutes of Health (NIH) provides the following guidelines for daily calcium intake:

Children (1-3 years): 700 mg
Children (4-8 years): 1,000 mg
Teens (9-18 years): 1,300 mg

• Adults (19-50 years): 1,000 mg

Women (51 years and older): 1,200 mg

• Men (51-70 years): 1,000 mg

Men (71 years and older): 1,200 mg

Pregnant and breastfeeding women should also ensure they meet their daily calcium needs to support their health and their baby's development.

#### **Best Sources of Calcium**

Calcium is found in various foods, and incorporating these into your diet can help you meet your daily calcium needs. Here are some of the best sources of calcium Dairy Products

Dairy products are among the most well-known sources of calcium. They include:

- Milk: A single cup of milk provides about 300 mg of calcium.
- Cheese: Different types of cheese offer varying amounts of calcium. For instance, an ounce of cheddar cheese provides about 200 mg of calcium.

Yogurt: A cup of yogurt can provide up to 400 mg of calcium, depending on the type.

#### Non-Dairy Sources

For those who are lactose intolerant or prefer non-dairy options, several other foods are rich in calcium:

- Leafy Greens: Vegetables like kale, bok choy, and collard greens are excellent sources of calcium.
- Fortified Foods: Many foods, including plant-based milk (almond, soy, rice), orange juice, and cereals, are fortified with calcium.
- Tofu: Tofu made with calcium sulfate is another excellent source, providing up to 860 mg of calcium per half-cup.
- Nuts and Seeds: Almonds, chia seeds, and sesame seeds offer a healthy dose of calcium.
- Fish: Sardines and canned salmon with bones are rich in calcium.

#### **Calcium Absorption and Vitamin D**

For calcium to be absorbed effectively, the body needs sufficient vitamin D. Vitamin D helps the intestines absorb calcium from food. Without enough vitamin D, your body cannot form enough of the hormone calcitriol, leading to insufficient calcium absorption from the diet. This forces the body to take calcium from the skeleton, weakening the bones. You can obtain vitamin D through sun exposure, food, and supplements. Foods rich in vitamin D include fatty fish like salmon and mackerel, egg yolks, and fortified foods.

#### **Tips for Increasing Calcium Intake**

Incorporating more calcium into your diet doesn't have to be complicated. Here are some practical tips to help you boost your calcium intake:

- Start Your Day with Calcium: Choose calcium-fortified cereals or oatmeal for breakfast, and add milk or yogurt to your morning routine.
- Snack Smart: Snack on calcium-rich foods like cheese, almonds, or yogurt.
- Include a Side of Greens: Add leafy greens, such as spinach or kale, to your meals, like salads and smoothies, or as a side dish.
- Choose Fortified Products: Opt for calcium-fortified foods and beverages, especially if you avoid dairy.

#### Potential Risks of Too Little or Too Much Calcium

Maintaining balanced calcium levels is crucial, as both deficiencies and excesses can lead to health issues.

#### Calcium Deficiency

A calcium deficiency, known as hypocalcemia, can lead to:

 Osteoporosis: A condition where bones become weak and brittle, increasing the risk of fractures.

- Dental Problems: Lack of calcium can lead to weak teeth and gums, increasing the risk of cavities and periodontal disease.
- Muscle Cramps: Low calcium levels can cause muscle spasms and cramps.
- Heart Issues: Severe calcium deficiency can affect heart function, leading to arrhythmias.

#### **Excess Calcium**

On the other hand, excessive calcium intake, usually from supplements rather than food, can result in:

- Kidney Stones: High calcium levels can lead to the formation of kidney stones.
- Hypercalcemia: This condition, characterized by high calcium levels in the blood, can cause nausea, vomiting, and confusion.
- Impaired Absorption of Other Minerals: Excess calcium can interfere with iron, zinc, and magnesium absorption.

#### **Calcium Myths Debunked**

There are several myths surrounding calcium that can lead to confusion. Let's clear up some of the most common misconceptions:

- Myth: "Only dairy products are good sources of calcium."
  - o Truth: While dairy is an excellent source of calcium, many non-dairy foods, such as leafy greens, tofu, and fortified products, are also rich in calcium.
- Myth: "Calcium supplements are always necessary."
  - Truth: Most people can meet their calcium needs through a balanced diet.
     Supplements should be considered if dietary intake is insufficient, but it's best to consult a healthcare provider first.

# HIGH CALCIUM FOOD LIST

	DAIRY	<b>SERVING SIZE</b>	CALCIUM (MG)
	Parmesan	1 slice	314
	Yogurt, low fat	1 cup	311
	Milk	1 cup	305
	Kefir	1 cup	300
	Condensed Milk	100gr	284
	Buttermilk	1 cup	284
	Greek yogurt	1 cup	230
	Ricotta	100gr	207
	Cheddar cheese	1 slice	201
	Yoghurt, nonfat	1 cup	199
	Feta cheese	1 slice	187
5	Custard	100gr	139
	Ice Cream	100gr	128
	Sour Cream	100gr	110
	<b>Cottage Cheese</b>	100gr	83
	Whey	100gr	47
	Butter	100gr	24

NON DAIRY MILK	SERVING SIZE	CALCIUM (MG)
Pea milk	100ml	180
Hazelnut Milk	100ml	125
Almond Milk	100ml	120
Oat Milk	100ml	120
Cashew Milk.	100ml	120
Coconut Milk	100ml	120
Macadamia Milk	100ml	120
Soy Milk	100ml	120
Rice Milk	100ml	118

VEGETABLES	<b>SERVING SIZE</b>	CALCIUM (MG)
Kale	100 g	250
Turnip greens	1 cup	197
Nopales	100 g	164
Spinach	100 g	99
Baby bok choy	100 g	80
Edamame	100 g	63
Broccoli	100 g	47
Snow peas	100 g	43
Cabbage	100 g	40
Sweet potatoes	100 g	30
	7975	7/2

SEEDS AND NUTS	SERVING SIZE	CALCIUM (MG)
Almond	100gr	264
Chia seed	2 tbsp	178
Brazil Nuts	100gr	160
Kidney bean	100gr	143
Hazelnuts	100gr	114
Chickpea	100gr	105
Pistachio	100gr	105
Walnuts	100gr	98
Sesame seeds	1 tbsp	87
Flaxseed	2 tbsp	50
Beans, black	100gr	27
Lentil	100gr	19

FRUITS	SERVING SIZE	CALCIUM (MG)
Dried figs	100gr	162
Rhubarb	100gr	86
Blackcurrants	100gr	57
Prickly pears	100gr	56
Grapefruits	1 cup	50
Papaya	1 cup	46
Prune	100gr	43
Oranges	100gr	40
Mulberries	100gr	39
Kiwi	100gr	34
Lemon	100gr	26
Strawberries	1 cup	24
Apricot	100gr	13
Apples	1 piece	10

SEAFOOD	SERVING SIZE	CALCIUM (MG)
Sardines	100 g	382
Anchovy	100 g	232
Octopus	100 g	106
Clams	100 g	89
Shrimp	100 g	69
Crab	100 g	91
Lobster	100 g	63
Trout	100 g	55
Snapper	100 g	40
Squid	100 g	32