# Osteoporosis



## What is osteoporosis?

Osteoporosis is the loss of calcium from the bone. The bone becomes weak and can easily break (fracture). Older people are more at risk for this. When the body does not get enough calcium and vitamin D from foods, they are taken from your bones for use in the body. Vitamin D is also important because it helps the body absorb calcium from foods.

# How do I know I have a problem?

•	An x-ray taken by your doctor can tell if you have bone loss.
•	You may have noticed loss of height.
•	Or, you may have had a fracture of the ankle, thighbone or hip.

## Are you at risk for osteoporosis?

### Here are risk factors that raise your risk of osteoporosis:

- ➤ Gender: women are more likely to have osteoporosis
- ➤ **Age:** the longer you life the greater your chances of osteoporosis
- > Family History
- **Ethnicity:** Caucasian and Asian American are at the highest risk
- ➤ Body Size: low body weight (less than 127 pounds) and a small-boned frame place you at increased risk
- Lifestyle: a diet low in Calcium and vitamin D puts you at risk



## How do I avoid getting osteoporosis?

There are a lot of things that you can do to help you avoid osteoporosis.

**1. Include enough calcium**. The Recommended Daily Intake for calcium is listed below:

Age Ranges	Amount of daily calcium (mg/day)
Birth- 6 month	210
6 moths- 1year	270
1-3 years	500
4-8 years	800
9-18 years	1300
19-50 years	1000
51 and older	1200-1500
Pregnant or lactating women	
14-18 years	1300
19-50 years	1000

2. Vitamin D is also important to help with absorbing calcium. Vitamin D is made naturally in the body after fifteen minutes in the sun. Vitamin D supplements should be used for persons with limited exposure to the sun (i.e. in the winter or housebound persons, such as the elderly). 400-800 IU (international units) of Vitamin D should be used as a supplement.



#### Food sources of Calcium and vitamin D

#### **Calcium**

Vegetables like kale, collard greens and turnip greens
Dairy products like milk, yogurt and cheese
Seafood and fish. Oysters and canned salmon and sardines with the bones
Almonds
Calcium enriched beverages like orange juice, soymilk and rice milk
Tofu made with calcium

#### Vitamin D

Cod liver oil
Fish like salmon, mackerel and sardines
Fortified dairy products like milk and some yogurts
Fortified soy and rice milks



3. Another way to lower your risk is to take supplements when you can't get enough calcium and vitamin D from

your food. Products, which contain calcium carbonate (like TUMS®) or calcium citrate (like Citracal®) are the best sources.

Look for Vitamin D content on the label of your calcium supplement.

How much calcium do I need from			
my supplement?			
Use the following equation to figure out			
How much calcium you will need to take:			
,			
DRI requirement	mg		
(listed on page one)			
- Average Daily Intake	mg		
(see table next page)	_		
= Daily supplement needs mg			
I need mg calcium each day in a			
supplement.	·		



325 9<sup>th</sup> Ave. Seattle, WA 98104 Adapted from National Osteoporosis Foundation

#### And finally...

4. The last thing you can do is **strength training** or **weight-bearing exercise.** This will put force on your bones. Your body responds to the exercise, and makes your bone stronger. Please talk to your health care provider about an exercise program that uses strength training and weight-bearing aerobic exercise (walking).

TABLE 1: Good Food for your bones

FOOD	Calcium content (mg)
DAIRY PRODUCTS:	
Yogurt (1 cup)	400 mg
Milk (1 cup )	300 mg
Ice-cream (1 cup)	176 mg
CHEESE:	
Swiss cheese (1 oz)	272 mg
Mozzarella cheese (`1 oz)	207 mg
Cottage cheese (1 cup)	155 mg
FRUITS & VEGETABLES	
Orange juice, calcium fortified (1 cup)	300 mg
Turnip greens (1 cup)	200-250 mg
Mustard greens (1 cup)	140-180 mg
Broccoli, fresh (1 cup)	176 mg
Vegetarian baked beans (1 cup)	128 mg
Figs (5 dried)	135 mg
Black strap molasses 1 T.	135 mg
SOY PRODUCTS	
Tofu with Calcium (½ C)	250-430 mg
Soy milk fortified (1C)	250-350 mg
FISH & SEAFOOD	
Canned Salmon - 3 ounces	200 mg
Canned Sardines-3 ounces	325-370 mg
Nutrition Claim	100 mg
Good Source of Calcium	
Nutrition Claim	200 mg
Excellent Source of Calcium	



