# Bathroom Briefs Your line to good health! Developed by: Health Promotion & Disease Prevention Section, Forsyth County Department of Public Health

# **Bone Health**

#### Calcium and Bone Health

Bones play many roles in the body. They provide structure, protect organs, anchor muscles, and store calcium. Adequate calcium consumption and weight bearing physical activity build strong bones, optimizes bone mass, and may reduce the risk of osteoporosis later in life. For more information on bone health and osteoporosis please visit the National Osteoporosis Foundation at www.nof.org/.

#### **Calcium**

Calcium is a mineral needed by the body for healthy bones, teeth, and proper function of the heart, muscles, and nerves. The body cannot produce calcium; therefore, it must be absorbed through food. Good sources of calcium include

- Dairy products—low fat or nonfat milk, cheese, and yogurt
- Dark green leafy vegetables—bok choy and broccoli
- Calcium fortified foods—orange juice, cereal, bread, soy beverages, and tofu products
- Nuts—almonds

Recommended amount of calcium vary for individuals; please see your healthcare provider or dietician for recommendations. Vitamin D also plays an important role in healthy bone development. Vitamin D helps in the absorption of calcium (this is why milk is fortified with vitamin D).

# **Peak Bone Mass**

Peak bone mass refers to the genetic potential for bone density. By the age of 20, the average woman has acquired most of her skeletal mass. A large decline in bone mass occurs in older adults, increasing the risk of osteoporosis. For women this occurs around the time of menopause.

It is important for young girls to reach their peak bone mass in order to maintain bone health throughout life. A person with high bone mass as a young adult will be more likely to have a higher bone mass later in life. Inadequate calcium consumption and physical activity early on could result in a failure to achieve peak bone mass in adulthood.

## **Weight-Bearing Physical Activity**

Regular physical activity has been associated with many positive health benefits including strong bones. Like proper calcium consumption, adequate weight-bearing physical activity early in life is important in reaching peak bone mass. Weight-bearing physical activities cause muscles and bones to work against gravity.

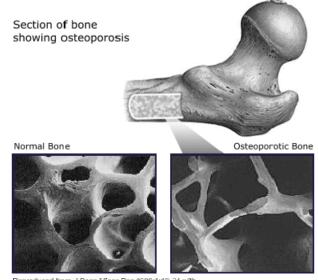
Incorporating weight-bearing physical activity into an exercise plan is a great way to keep bones healthy and meet physical activity recommendations set forth in the Dietary Guidelines for Americans.

Some examples of weight bearing physical activities include

- Walking, Jogging, or running
- Tennis or Racquetball
- Field Hockey
- Stair climbing
- Jumping rope
- Basketball
- Dancing
- Hiking
- Soccer
- Weight lifting

## **Osteoporosis**

Osteoporosis or "porous bone" is a disease of the skeletal system characterized by low bone mass and deterioration of bone tissue. Osteoporosis leads to an increase risk of



permission of the American Society for Bone and Mineral Research

bone fractures typically in the wrist, hip, and spine.

While men and women of all ages and ethnicities can develop osteoporosis, some of the risk factors for osteoporosis include those who are

- Female
- White/Caucasian
- Post menopausal women
- Older adults
- Small in body size
- Eating a diet low in calcium
- Physically inactive

For more information, please visit the Centers for Disease Control and Prevention, www.cdc.gov or your healthcare provider.