THE DXA SCANNER

The **d**ual energy **x**-ray **a**bsorptiometry or "DXA" scan detects bone density. This innovative technology enables our providers to determine if you have developed, or are at risk of developing, osteoporosis.

A DXA bone density scan will simply, reliably and painlessly determine the state of your bone health!

A DXA scan should be performed on:

- Anyone who has a significant fracture (a fragility fracture) and is over the age of 40, or
- Men over the age of 70 and women over the age of 65, or
- Men or women under those ages with risk factors, such as Rheumatoid Arthritis, Kidney Diseases, Gastrointestinal Diseases, Endocrine Diseases, Chronic prednisone use, etc., or
- Women at the onset of menopause, in our opinion, should have a DXA, as bone loss accelerates by as much as 2.5% per year for 5 to 7 years. While it may not be covered by insurance, it establishes a base line for future evaluations and treatment.

If you have low bone mass, there are medications that can help fortify your bones and delay or prevent the onset or progression of OP. The Bone Health Specialists at GSOS will be available to discuss these treatment options, including life style measures, to help you determine what works best for you.



CALL US 925-939-8585

email bonehealth@muirortho.com

> online https://myortho.me/bhc



We look forward to taking care of you!

PART OF GOLDEN STATE ORTHOPEDICS & SPINE





INNOVATIVE CARE FOR BETTER BONE HEALTH



925-939-8585

WE TREAT THE WHOLE PATIENT AND SUPPORT YOUR BONE HEALTH WITH STATE OF THE ART DIAGNOSTICS AND PHYSICIANS WHO CARE

OUR BONE HEALTH SPECIALISTS



Richard Kamrath, M.D. Bone Health Specialist Endocrinology



George Tischenko, M.D. Bone Health Specialist Orthopedics



Kristen Kahawaiolaa, CBDT Certified Bone Densitometry Technologist



Sandra Soto, MA Medical Assistant

OSTEOPOROSIS OVERVIEW

Osteoporosis (OP) is a skeletal disorder characterized by decreased bone strength, and loss of both density and structure, leading to an increase in fracture risk.

There are seldom any signs or symptoms that bones are losing density or becoming more fragile, until a fracture occurs.

Bone density decreases dramatically with age. You have a greater risk of developing OP if you:

- Are age 50 or older
- Have a family history of hip fracture/OP
- Are petite or have a small body frame
- Have hormonal or thyroid problems
- Are a current smoker

Women over the age of 65 and men over the age of 70 are more prone to serious fractures due to OP. Hip, spine and wrist fractures can cause significant life impact, and there is only one way to know if you are more susceptible: a bone density scan.

CLINIC VISITS

Third Floor 2405 Shadelands Drive Walnut Creek, CA 94598

IMAGING SUITE

First Floor 2405 Shadelands Drive Walnut Creek, CA 94598



DXA SCANNER



Where to go:

2405 Shadelands – First floor

 Sign in at Medical Imaging desk on your left as you enter the building.

What to expect:

• Please arrive 10-15 minutes before your scheduled exam time. We strive to run on time and do not double book.

What to brina:

• Your paperwork and your Medicare or other insurance card

What to wear:

- You should plan on either changing to our "Clinic shorts" or gown, or wearing loose-fitting clothing with elastic rather than metal or hard plastic components.
- We will scan your lumbar spine and both hips - roughly the area from your belly button to your hip.
- Any metal or hard plastic, such as a zipper, button, or piercing in the above areas prevents an accurate assessment of your bone mineral content. Tight clothing will also impacts results

How does it work:

• This is an open examination; you will lie on a table and the X-Ray arm will pass over you several times.

The dual energy allows us to filter out your muscle and soft tissue to give us a density number (Quantity of Bone)

and advanced software provides Trabecular Bone Score (TBS) that assesses the quality of your bone.

The amount of Radiation exposure is 40 times less than a routine chest X-Ray.

What is FRAX: The software uses your results to calculate your predicted 10-year probability of any significant future fracture and/or hip fractures.

What contributes to future fracture risks:

1) Your age

DXA – MEASUREMENT OF BONE MINERAL CONTENT

- 2) Bone Density
- 3) Prior history of a non-traumatic fracture after the age of 50 (wrist, shoulder, vertebra count but finger, toes do not)
- 4) A hip fracture in either parent
- 5) Greater than 3 months use of Prednisone (5 mg or more per day)
- 6) Premature menopause
- 7) Cancer history or treatment

What is a "T" score:

- Your actual density is then compared to the average density of a large group of 30-year-old women of the same ethnicity. A normal range is created around a MEAN that is 1 standard deviation above and below that number.
- T score from: -1 to +1 is normal
- T score from: -1.0 to -2.4 is "Low Bone Mass" or Osteopenia
- T score: ≤2.5 is Osteoporosis

THE STATISTICS

Half of all the low energy fractures can occur in patients with Osteopenia (in the USA this aroup is about 50 million people) and the other half in the patients with Osteoporosis. In the USA this group is about 10 million people.

Half of patients who suffer a hip fracture had a previous history of a prior fracture (wrist, shoulder or spine). Patients who sustain a spine vertebral compression fracture have a high risk of a second fracture within one year. Treatment for osteopenia or osteoporosis is expected to reduce fracture risk by 50% or more.

Osteopenia and osteoporosis are silent diseases and are only recognized after you sustain a fracture!

We thank you for choosing GSOS for your Bone Health Assessment

BONE HEALTH CONSULTATION

The BHC physicians will review your DXA scan and pertinent laboratory studies, obtain a thorough medical history, and perform a brief examination to assess your bone quality and fracture risk. They will review potential treatment options as necessary at the time with or without pharmacological options and make recommendations regarding future reevaluation.