Central DXA (Dual Energy X-ray Absorptiometry)

Bone density tests are non-invasive and painless. This means that no needles or instruments are placed through the skin or body. A central DXA uses very little radiation. You are actually exposed to 10-15 times more radiation when you fly roundtrip between New York and San Francisco. Standard x-rays cannot be used in place of bone density tests. Unlike bone density tests, X-rays are not able to show osteoporosis until the disease is well advanced. 

Source: National Osteoporosis Foundation

Vertebral Fracture Assessment (VFA)

Dual-energy Vertebral Fracture Assessment (VFA) software helps detect vertebral fractures, which can be difficult to diagnose. VFA enables detection of vertebral fractures, which helps to provide effective care — before more severe complications occur.

Fracture Risk Assessment Tool (FRAX) Software

FRAX software application helps to identify which of our patients are more likely to suffer a hip fracture or a major osteoporotic fracture of the clinical spine, forearm, hip, or shoulder within the next 10 years. The FRAX model also helps to identify the subset of patients in the low bone mass category that would likely benefit most from treatment.

Body Composition Screening and Analysis

DXA directly measures how much lean mass, body fat, and bone mass makes up the body. This quick test provides a report outlining the exact percentage of lean mass, fat mass, and bone mass in arms, legs, trunk, stomach (visceral fat), and gynoid region (hips/thighs/butt). Information on muscle symmetry and imbalances, as well as health risks correlated with body fat distribution is also available.

Orthopedic Prosthetic Assessment

Our orthopedic DXA software can provides accurate measurement of the total and regional periprosthetic bone mineral density after a total hip arthroplasty. This method has been shown to be useful in evaluation of the redistribution of mechanical forces around the hip joint following implantation of a prosthesis, and in assessment of how the proximal femur remodels around the implant.

Source: Nordic Orthopedic Federation
With so much information available on healthcare, here are some suggestions to help you understand the details on medical imaging diagnostic testing and treatments. Visit the websites below to learn more about imaging tests, radiation safety, and how to prepare for different procedures. You will also find questions to ask your doctor.

www.radiologyinfo.org
• Descriptions of medical imaging procedures
• Benefits and risks
• Videos on what to expect and how to prepare for procedures in easy-to-understand language

www.mammographysaveslives.org
• Where and when to get a mammogram
• Breast cancer and breast density information
• Stories of breast cancer survivors

www.imagewisely.org
• Facts on radiation safety for adults
• Downloadable Patient Medical Imaging Record
• Questions to ask your doctor

www.imagegently.org
• Medical imaging for children; radiation protection
• Imaging record to track your child’s imaging care

www.choosingwisely.org
• Evidence-based recommendations to help patients make informed decisions about their care
• Five medical imaging procedures for patients to discuss with their physicians