# OsteoGram®

## Bone Density Measurement Software

*for DICOM Compliant Systems*


***The OsteoGram® software works in combination with any standard or digital x-ray equipment to support osteoporosis screening, diagnosis and therapy monitoring.***

While breast cancer is a substantial financial burden ($6 billion) on the U.S. healthcare system, the cost of osteoporosis is considerably more ($16 billion)!

### Osteoporosis - an underdiagnosed and undertreated silent disease

One out of every two women over the age of 50 will experience an osteoporosis-related fracture in her lifetime. Yet many women do not realize that they are at risk for osteoporosis until they suffer the debilitating consequences.

### Improve patient care in your facility by providing quality bone density testing

The NOF and IOF recommend testing bone density for early detection as well as monitoring the treatment of osteoporosis. Recent regulations (e.g., HEDIS 2004) are addressing health care quality issues as a performance measure for health plan accreditation. Osteoporosis management is a new priority.

### Eliminate redundant hardware

Workstation consolidation is a recent trend that allows you to increase the utilization of your equipment. Providing quality osteoporosis patient care does not require the acquisition of dedicated equipment, computers, space and staff. The OsteoGram is installed on your existing imaging workstation.

### Obtaining the OsteoGram software is a wise financial decision

The combination of digital radiology equipment and OsteoGram software is a convenient and cost effective means of improving utilization. The reimbursement revenue of bone density testing may significantly offset the cost of your digital x-ray equipment.

### OsteoGram technology will have applications beyond osteoporosis

The patented* OsteoGram technology will be applied to a suite of value-added applications, such as arthritis, vertebral fractures and scoliosis. Today's OsteoGram is the beginning of a series of sound investments for tomorrow's patient care.

The National Osteoporosis Foundation (NOF), www.nof.org
International Osteoporosis Foundation (IOF), www.osteofound.org
The Health Plan Employer Data and Information Set (HEDIS), www.ncqa.org/Programs/HEDIS

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### OsteoGram is backed with clinical studies where more than 130,000 tests were performed

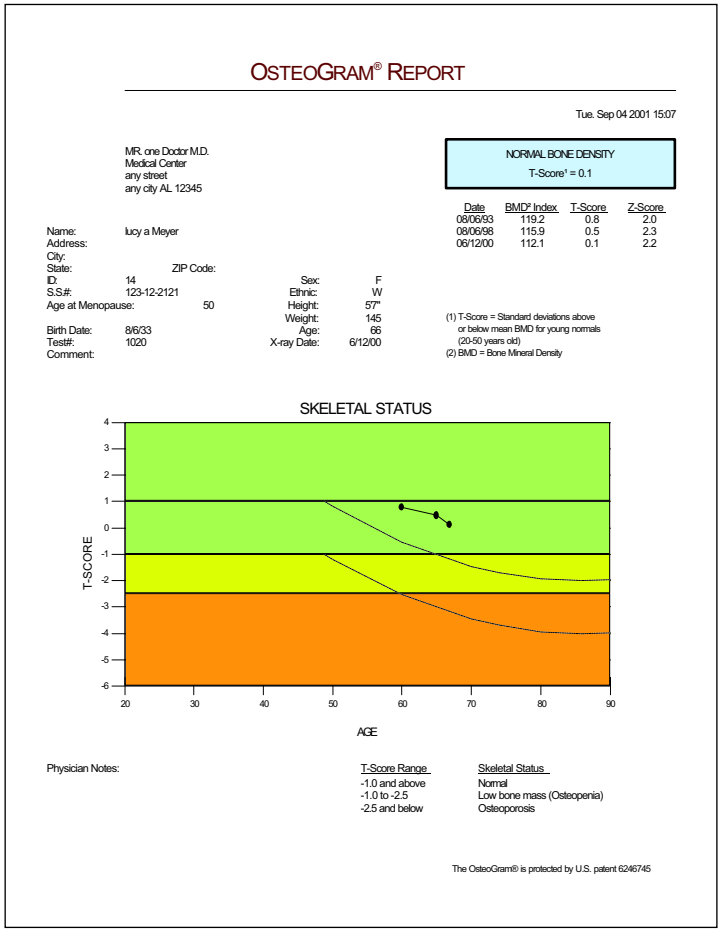
- FDA cleared to screen, diagnose and monitor therapy for osteoporosis
- Fully automated analysis requiring no expertise
- Uses the Radiographic Absorbtiometry (RA) technology with negligible radiation
- High correlation to DXA (r=0.87)
- Excellent correlation to Ash Weight (r=0.98) ensures accuracy
- Less than 1% precision error allowing monitoring bone density changes over time
- Highly predictive of overall fracture risk
- T-score and Z-score reports for effective detection and diagnosis of osteoporosis

### The OsteoGram system provides the diagnostic accuracy of a DXA scan with the convenience and ease of a standard in-office x-ray procedure.

***BMD Method Comparison***

| Method | Precision (Error) | Accuracy (Error) | Total Time (Minutes) | Special Training |
|---|---|---|---|---|
| OsteoGram | <1% | 4-5% | 3 (includes x-ray) | No |
| DXA Central | 1-2% | 4-8% | 15 | Yes |
| DXA Peripheral | <1-2% | 4-6% | 7 | Yes |
| Ultrasound | 1-10% | Undefined | 3 | No |

Data on file



OSTEOGRAM® REPORT

Tue. Sep 04 2001 15:07

MR. one Doctor M.D.
Medical Center
any street
any city AL 12345

NORMAL BONE DENSITY
T-Score¹ = 0.1

| Date | BMD² Index | T-Score | Z-Score |
|---|---|---|---|
| 08/06/93 | 119.2 | 0.8 | 2.0 |
| 08/06/98 | 115.9 | 0.5 | 2.3 |
| 06/12/00 | 112.1 | 0.1 | 2.2 |

Name: lucy a Meyer
Address:
City:
State: ZIP Code:
ID: 14
S.S.#: 123-12-2121
Age at Menopause: 50
Birth Date: 8/6/33
Test#: 1020
Comment:

Sex: F
Ethnic: W
Height: 57"
Weight: 145
Age: 66
X-ray Date: 6/12/00

(1) T-Score = Standard deviations above or below mean BMD for young normals (20-50 years old)
(2) BMD = Bone Mineral Density

SKELETAL STATUS

T-SCORE: 4, 3, 2, 1, 0, -1, -2, -3, -4, -5, -6
AGE: 20, 30, 40, 50, 60, 70, 80, 90

Physician Notes:

| T-Score Range | Skeletal Status |
|---|---|
| -1.0 and above | Normal |
| -1.0 to -2.5 | Low bone mass (Osteopenia) |
| -2.5 and below | Osteoporosis |

The OsteoGram® is protected by U.S. patent 6246745

The OsteoGram system determines bone mineral mass and bone volume from radiographic scan data. The bone mineral density is calculated and compared to normal healthy bone generating both T-score and Z-score on a printed graphic report for patient management.

### Call CompuMed today to make OsteoGram a part of your practice


**CompuMed, Inc.**

**800-421-3395** Customer Service, U.S. only

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