Appendix K: Samples BMD Reports

K.1 BMD Report and Graphical Representation of (QU5)
K.2. Dual Energy X ray Absorptiometry

Overall BMD Report of Lumbar spine, Femoral Neck, Ward’s Triangle and Forearm

**NAME**: MRS. SHAKUNTALA  
**M.R NO**: 80583  
**AGE/SEX**: 51 YRS / FEMALE  
**REFERRED BY**: C/O. MOUNT CARmel  
**DATE**: 24.2.2011

**INTERPRETATION**

The World Health Organization (WHO) has defined Osteoporosis as a bone mineral density (BMD), which is 2.5 standard deviations below a young, normal, sex-matched group (T score less than –2.5). Osteopenia (low bone mass) is defined as a bone mineral density that is 1 to 2.5 standard deviations below young, normal, sex-matched population (T score between –1 and –2.5) Less than –2.5 with fracture indicates severe osteoporosis.

**OBSERVATION**:

**LUMBAR SPINE** (L2 to L4)

- **BMD** is: 1.083 gms/cm sq
- **T Score** is: -1.0
- **Z score** is: -0.6

**Wards Triangle**

- **Neck**: Young adult percentage - 90%
- **Age matched percentage** - 94%

**RIGHT FEMUR**

- **BMD** is: 1.223 gms/cm sq
- **T Score** is: 2.0
- **Young adult %age**: 125%
- **Z Score** is: 2.5
- **Age matched %age**: 133%

By the above mentioned criteria, the Right Femur falls under normal range. There is no risk for fragility fractures.

**RIGHT FOREARM (ULTRADISTAL)**

- **BMD** is: 0.365 gms/cm sq
- **T Score** is: -1.2
- **Z score** is: -1.2

- **Young adult percentage** - 88%
- **Age matched percentage** - 89%

By the above mentioned criteria, there is Osteopenia seen in the Lumbar spine with increased risk for fragility fractures by a factor of 2 to 3 times more than normal.

By the above mentioned criteria, there is Osteopenia seen in the Right forearm with increased risk for fragility fractures by a factor of 2 to 3 times more than normal.

**DR. PADMA M.R.**
**CONSULTANT RADIOLOGIST**

P / mg
K.2.1. DEXA’s BMD Report of Spine with Graph

AP SPINE RESULTS
ELBIT MEDICAL CENTRE LTD
INDIAN EXPRESS BUILDING, 1&2, QUEENS ROAD, 40570000/22860761

MRS. SHAKUNTALA B K

Department: 110/23139/R
50 years 06.01.1960
151 cm 70 kg Asian Female
Physician: DR SELF

AP SPINE BONE DENSITY

Acquired: 15.02.2010 (4.6f)
Analyzed: 15.02.2010 (4.6f)
Printed: 15.02.2010 (4.6f)

mrs41400.s54

Image not for diagnosis

0.75mm: Median 0.590 1.2x1.2mm 1.68mm
7.5665 0.5642 1.5 7.3 2.6 3.3 1.86 1.36

Fat = 27.54(1.337)

1 - See appendix on precision and accuracy.
2 - Statistically 68% of repeat scans will fall within 1 SD. (±0.01 g/cm²)
3 - USA AP Spine Reference Population. Young Adult Ages 20-45. See Appendices.
4 - Matched for Age, Weight (25-100kg). Ethnic.
5 - Standardized BMD for L2-L4 is 1016 mg/cm². See J Bone Miner Res 1994: 9:1503-1514

Comments:
K. 2.2 DEXA’s BMD Report of Femur (Neck & Ward’s Triangle) with Graph
K.2.3. DEXA’s BMD Report of Forearm with Graph

FOREARM RESULTS
ELBIT MEDICAL CENTRE LTD.
INDIAN EXPRESS BUILDING, 16/1, QUEENS ROAD 40570000/22860761

MRS. SHAKUNTALA B K

Department: 110/23139/R
50 years 06.01.1960
151 cm 70 kg Asian Female
Physician: DR SELFP

Right FOREARM BONE DENSITY

Acquired: 15.02.2010 (4.6f)
Analysed: 15.02.2010 (4.6f)
Printed: 15.02.2010 (4.6f)
mrs41400.a54

1. See appendix on precision and accuracy.
2. USA Forearm Reference Population, Young Adult Ages 20-50. See Appendices.
3. Matched for Age (Provisional), Weight(25-100lb), Ethnic.
4. SPA calibration (Wisconsin)(COPMC values are 100 > SPA). Published SPA values may not be comparable.

Comments: