Office based osteoporosis diagnosis

Osteometer MediTech specializes in equipment for office based osteoporosis diagnosis. The DTX-200 is a mobile unit that takes up a minimal amount of space, and it can easily be rolled away when not in use. The DTX-200 enables the doctor to perform bone density measurements in a matter of minutes, while the patient remains fully clothed.

Dedicated bone densitometer

The DTX-200 is a unique x-ray densitometer for the assessment of bone density in the distal part of the forearm. The forearm is an excellent site because the forearm is very representative of the total body bone mass. With the DTX-200 you have an easy and cost effective method with a throughput of up to 50 examinations per working day.

Reliable performance

The DTX-200 assesses forearm bone density with optimized precision and accuracy. One of the unique features of the DTX-200 is the automatic identification of the 8 mm distance between ulna and radius. This ensures that the same area is assessed every time. The excellent in vivo accuracy (<3%) and in vivo precision (<1%) makes DTX-200 highly suitable for assessment of bone density and follow-up.

Instant operation

The DTX-200 is a truly automated system. Every calibration, positioning, assessment and calculation is performed automatically, minimizing operator errors. The straightforward procedures together with minimal operator intervention make the DTX-200 instantly operational. The extensive database allows comparison with age-matched peers (Z-score) and premenopausal peers (T-score).

Fast response

The DTX-200 can be placed in your examination room without special installation and shielding requirements. The outstanding calibration system makes it possible to finish an examination within 5 minutes. Due to its integrated, dynamic approach, the DTX-200 provides the facility to give the answer to your patient today.

Built to meet the challenge

The DTX-200 goes beyond bone mass measurement and identifies fast bone losers through a unique software program that is used to calculate the rate of the postmenopausal bone loss. The rate of bone loss can be estimated by measuring a combination of biochemical markers reflecting bone turnover. By combining the results of the bone mass measurement and the bone loss estimation, it is possible to predict the future risk of developing osteoporosis in healthy postmenopausal women. The DTX-200 has won world-wide recognition for enabling fast, easy, reliable, inexpensive and cost effective assessment as well as follow-up of bone density.

Features of the DTX-200

- Fully automatic calculation
- In vivo precision (<1%)
- In vivo accuracy (<3%)
- Unique bone loss estimation
- Assessment of future risk
- Fast scan time and set-up
- Mobile
- Operator independent
- No special shielding requirements
DTX-200
Product specifications

X-ray System: 55 kV, 300 µA
Energy Separation: K-Edge filtration
Detection System: Solid state dual energy sandwich detector
Calibration System: Line by line internal reference calibration
Scanning Method: Rectilinear (100 mm x 100 mm)
Scan Resolution: 0.4 mm x 0.4 mm
Scanning Sites:
- new Region of Interest (nROI) The ultra-distal sites of the radius and ulna
  Location: Proximal from endplate of radius and ulna, 65% trabecular bone
  8 mm Distal The distal site of radius and ulna
  Location: 8 mm radius/ulna distance
  Size: 24 mm in proximal direction, 13% trabecular bone
Effective dose: 0.1 µSv per scan
Leakage Radiation: Less than 5 µSv per hour measured 5 cm from sides of cabinet
Scatter Radiation: Less than 0.25 µSv per hour measured 1 m from top of scanner
External Shielding: None required
Size and Weight: 31" (H), 24" (L), 12" (W). 114 lbs.
Power Requirements: 100–240V~, 50–60 Hz, 125 VA
Room operating Temp: 59–86°F
In vivo Precision: <1%
In vivo Accuracy: <3%
Patient Dose: Skin dose on forearm: 0.2 mGy per scan

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Product- and quality-assurance system implemented in accordance with Medical Directive 93/42/EEC. Osteometer MediTech, Inc. is certified in accordance with ISO 13485:2003