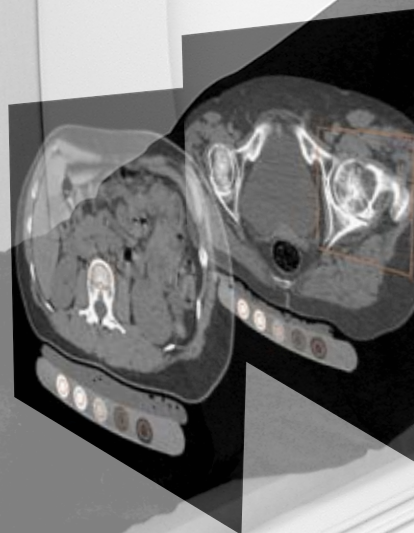# QCT PRO™

If you need a bone densitometer and have a CT scanner with 5 mins per patient capacity, a desire for the best technology and, at the same time, the most cost-effective solution, QCT PRO is for you.

With QCT PRO your CT scanner is transformed into the ultimate bone densitometer with the best of both worlds: (1) QCT trabecular spine BMD for sensitive treatment monitoring and early detection of low bone mass, and (2) DXA-equivalent hip BMD for use in diagnosis of osteoporosis and low bone mass, and fracture risk assessment.

QCT PRO is the sensible financial investment in addition to the performance choice. DXA simply cannot compare with QCT PRO. With a low purchase price, no site, personnel, or high recurring maintenance costs, the cost of QCT PRO is a small fraction of DXA.

QCT PRO is the first system to exploit CT's inherent advantage for true 3-dimensional densitometry with volumetric BMD of the spine and hip. Volumetric BMD is faster, easier, clinically superior, and enables new densitometric capabilities not within the reach of DXA.

Volumetric Trabecular Spine BMD

- Measure only trabecular bone
- Earliest detection of bone loss
- Earliest detection of therapeutic response
- Measure patients with scoliosis and other degenerative conditions that are impossible with other methods

DXA Equivalent Hip BMD

- Clinically interchangeable with DXA
- Same areal (g/cm^2) measurements and ROIs
- Comparable T-scores
- 0.7% precision

Fast & Simple

- Helical scans in <60 seconds
- Highly automated analysis in 1–2 minutes

Cost-Effective

- Add-on to your CT scanner increases equipment utilization
- Incremental revenue from a fixed-cost asset
- DXA replacement at a fraction of the cost
- No special siting, room, high maintenance, or personnel costs
- Compatible with any DICOM CT scanner
- Compatible with the Siemens OSTEO phantom
- Permanent—buy once, use indefinitely; survives scanner changes/upgrades

Transform your CT scanner into the ultimate spine and hip bone densitometer

QCT PRO™ at a glance

Modular, Extensible, Upgradeable
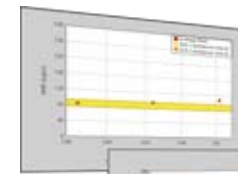Application Framework

Database

Programmable Report
Generator

PACS
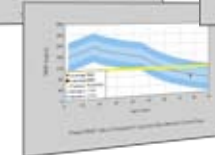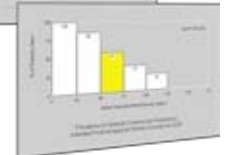
Vertebral Fracture Assessment

Serial Comparisons

T- and Z-scores

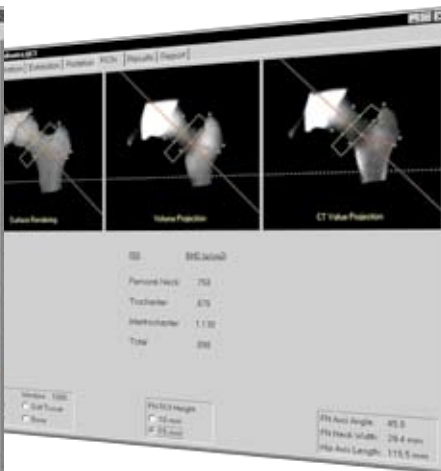Normal Data Comparison

Fracture Prevalence

DICOM C-Store Server

CD Reader
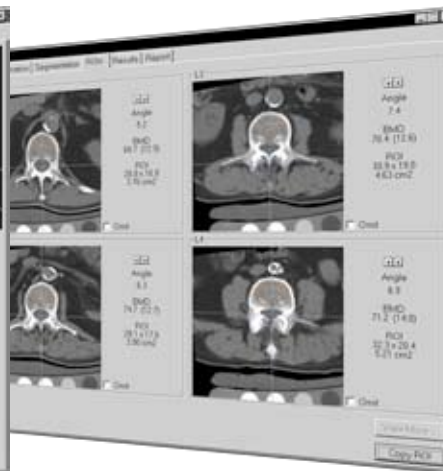
3D Volumetric Spine
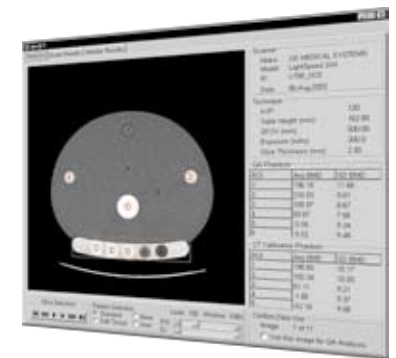
DXA Equivalent Hip

2D Conventional Spine

QCT Quality Control
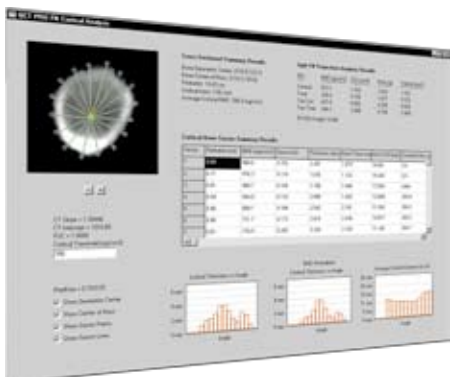
Femoral Neck Cortical Analysis

Femoral Neck Cross Sectional Analysis
and Data Export

DICOM Export to Third Party Applications

Database Export

SlicePick Extraction Utility

Support Utilities

Structural Analysis
image courtesy of Dr. Thomas Beck

www.qct.com