

CT Simulator For Bone Mineral Analysis

Simple • Effective • Accurate

Change in trabecular bone mineral content is an early indicator of change in metabolic function. CT, with its superior contrast discrimination, is a major tool in the evaluation of trabecular bone in the central skeleton. All CT scanners require a standard of reference to properly perform quantitative tissue analysis.

The CIRS Model 004 CT Simulator for Bone Mineral Analysis is designed to take into account all the known sources of variance affecting the measurement of density in the vertebral area by simulating the average patient's anatomy in terms of shape and density by using materials essentially equivalent to human tissues as far as X-ray interactions are concerned, including age-related variations in vertebral composition.

The design of the system permits reduction of all sources of error within acceptable limits. The basic principle of operation is to sufficiently simulate the patient's anatomy, and then to scan the patient and the phantom in succession with identical technical factors.



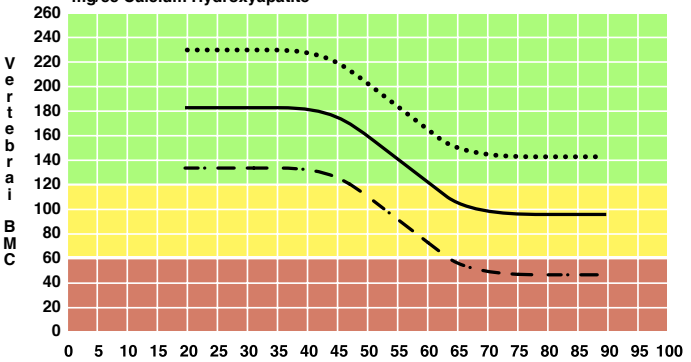
Model 004

Features:

- Use immediately on any CT scanner
- Monitor effects of therapy on trabecular structure
- Directly measure calcium hydroxyapatite content
- Accurate correlation for quantitative studies
- Age-related variable corrections for marrow fat and mineral content
- Simulates the size, shape and CT density of human tissue
- Requires no special scanner software
- PC based report software

Normal Values (Female)

mg/cc Calcium Hydroxyapatite



Phantom image



Patient image