Abstract

The objective of this paper is to propose the methodology which determines the density of human bones. Osteoporosis is a common disease related to human bone metabolism and is defined as the “diseases characterized by low bone mass and micro architectural deterioration of bone tissue leading to enhance bone fragility and consequent increase in fracture risk”. This paper gives the comparative study of the methods used to measure bone mineral density.

References

2. C.S. Baltas1, A.P. Balanika2, P.D. Raptou3, S. Tournis3, G.P. Lyritis3 “Clinical practice guidelines proposed by the Hellenic Foundation of Osteoporosis for the management of Osteoporosis based on DXA results”. 
3. Vantte Kilappa, Kailliang Xu, Petro Moilanen, Erkki Heikkola, Dean Ta, And Jussi Timonen “Assessment of the fundamental flexural guided wave In cortical bone by an ultrasonic axial-transmission Array transducer” 3 February 2013.

Index Terms

Computer Science
Information Sciences

Keywords

Osteoporosis, BMD, T-score, DEXA, Infrared.