

Quantitative Ultrasound in Osteoporosis and Bone Metabolism Pathologies

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KEYWORDS

• Quantitative ultrasound • Speed of sound
• Broadband ultrasound attenuation
• Amplitude dependent speed of sound
• Stiffness • Quantitative ultrasound index
• Bone quality • Osteoporosis

Among the techniques used to investigate bone tissue, quantitative bone ultrasound (QUS) was introduced approximately 10 years ago, to deepen the information on the material characteristics of the tissue, especially with regard to postmenopausal osteoporosis.^{1–3} The technique has been studied to better understand the mechanism of action of the ultrasound wave with bone tissue without decisive results,¹ but from the clinical point of view several studies have confirmed that the method is able to identify the changes in bone tissue connected with menopause, with increased bone fragility, and hence, with fracture risk from osteoporosis.^{4–7} The best results have been obtained in the clinical research, even in medical fields different from osteoporosis; in fact, QUS has also been applied in the study of various pathologies of mineral metabolism^{8–14} and in the investigation of populations other than those involving women who are postmenopausal (male population,^{15,16} centenarian population,¹⁷ pediatric population,^{18–21}

newborns,²² preterms,^{23–26} and so forth). For this reason, the use of the QUS technique has been extended to other medical conditions, especially in those situations where only an apparatus of this kind (noninvasive, not using ionizing radiation, and so forth) can enable assessment of the state of the bone tissue and supply data to complete the clinical picture of patients under examination. The major example of this is in pediatrics and neonatology.^{21,26}

Today, quantitative bone ultrasound represents an effective alternative method for studying bone tissue, and managing patients presenting from a variety of medical specialties who need assessment of the condition of bone tissue in relation to pathologies, consequences of treatments, growth evaluation, and so forth.

The aim of this article is to review the latest available literature on the ultrasound method, to detect and describe the main technological developments achieved through in vitro and in vivo study,

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Quantitative Ultrasound Assessment Of Osteoporosis And Bone Status

Tao Wei

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