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### Relation of Reproductive Factors and Heel Quantitative Ultrasound Parameters in Normal Women of Tehran

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#### Abstract:

Quantitative Ultrasound (QUS) is a noninvasive, inexpensive and portable method for bone densitometry. It may measure some other parameters in addition to BMD, like elasticity and micro architecture. This study designed to determine the relation between reproductive factors and calcaneus QUS parameters in normal women of Tehran. BMD of heel in 151 normal women, 20-72Y/O (participator of Iranian Multi center Osteoporosis Study) was assessed using Achilles+ (GE, Lunar Corporation, USA). After assessment of normal values, Stiffness Index percentiles acquired. With consideration of correlation between variables, multiple regression analysis was used. Mean±SD values of Speed of Sound (SOS), Broad Band Ultrasound Attenuation (BUA) and Stiffness Index (SI), was  $36/75 \pm 1527/25$ ,  $121/42 \pm 15/1$ ,  $94/46 \pm 17/92$ , respectively. Parameters decreased with age ( $P < 0/01$ ). Years of menopause significantly related with QUS parameters and age of menopause significant related with SOS and SI. Results show effectiveness of some reproductive factors on QUS parameters.

#### Keywords:

Reproductive factors

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