

Comparative analysis X-ray densitometry of spine and ultrasound densitometry of the calcaneus

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ABSTRACT

Comparison of results DEXA and Ultrasonography of densitometry at patients in different groups. Comparative analysis x-ray densitometry of spine and ultrasound densitometry of the calcaneus were provided in 2 different clinical groups: postmenopausal osteoporosis(n=26), and type 2 diabetes mellitus (n=66). T-scores correlated poorly between the methods. No correlation was found between the results of ultrasound and X-ray densitometry in any of the examined groups of patients. It was determine that in postmenopausal women and in patients with diabetes mellitus should be determined bone density by X-ray densitometry. Ultrasound examination of the calcaneus in these groups of patients is uninformative. The most pronounced changes in postmenopausal osteoporosis are found in the vertebrae, but in senile osteoporosis and diabetes mellitus at the femoral neck. The ultrasound diagnostic method often determines the category of less severe violations than the X-ray densitometry of the axial skeleton. Only in senile osteoporosis determining hardness of the calcaneus can be used for screening the state of the skeleton.



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1. References

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