

POSSIBILITIES OF COMPUTED TOMOGRAPHY IN EXAMINATION OF PATIENTS WITH BRONCHIAL ASTHMA, CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND IN THE STUDY OF BONE MINERAL DENSITY

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Abstract. The article presents information about the possibilities of computed tomography (CT) in the examination of patients with bronchial asthma (BA), chronic obstructive pulmonary disease (COPD) and in the study of bone mineral density. CT allows to establish the morphofunctional state of pulmonary parenchyma and using densitometric indices to evaluate the degree of fibrous and emphysematous changes in patients with BA and COPD, which in combination with clinical and functional examinations gives a notion of the course of the disease, allows to objectively evaluate the effectiveness of treatment. The data show that patients with BA and COPD have a systemic disorder of mineral metabolism. Computer densitometry is the most informative method of diagnosing disorders of bone mineral metabolism. The clinical case demonstrates the possibilities of computed tomography in the examination of the patient with chronic obstructive pulmonary disease and in the study of bone mineral density. *Conclusion:* CT and computer densitometry should be included in the list of mandatory examination methods in standardized protocols for medical care of patients

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with BA and COPD, which will allow early diagnosis of morphofunctional changes in pulmonary parenchyma and disorders of mineral bone tissue in this contingent of patients.

Key words: bronchial asthma, chronic obstructive pulmonary disease, computed tomography, computer densitometry.

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