

CLINICAL AND PATHOGENETIC ANALYSIS OF BRAIN NATRIURETIC PEPTIDE CONCENTRATION IN PATIENTS WITH CHRONIC OBSTRUCTIVE PULMONARY DISEASE

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Abstract

Brain natriuretic peptide (BNP) is produced by cardiomyocytes in response to excessive dilation of myocardium. Assessment of BNP concentration has high prognostic value in diagnosing of heart failure.

As confirmed by research data a progression of COPD (increase of bronchial obstruction, exacerbation rate, dyspnea and worsening of patients' quality of life) is associated with higher concentration of blood BNP. This, probably, reflects the development and progression of inotropic myocardium dysfunction.

The correlation between BNP level and COPD staging indices in patients, being on maintenance therapy, is a subject of further prospective studies.

Key words: chronic obstructive pulmonary disease, myocardial dysfunction, brain natriuretic peptide.

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