

THE METHODOLOGICAL APPROACH TO THE EVALUATION OF EOSINOPHILS CONDITION IN BRONCHIAL ASTHMA PATIENTS

Yu. O. Matvienko

Summary

The purpose of the study was to estimate the number and functional activity of eosinophils (E) in blood and secretions in bronchial asthma (BA). The examination of 177 BA patients has demonstrated an increased number of these cells in a peripheral blood; decrease of their absorbing capacity, strengthening of an oxygen-depended metabolism and the changes of their rosette formation ability (decrease of both spontaneous and active and increase of thermal-stable rosette formation E number). In BA patient's sputum the considerable increase of E number was observed. In patients with round-a-year allergic rhinitis combined with BA the number of activated E in nasal outwash was considerably increased, reflecting a degree of an allergic inflammation in this pathology. Thus, an estimation of the E functional activity is useful to determine the character and the degree of inflammation in BA patients.