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**MODERN METHODS FOR DIAGNOSING THE FUNCTION OF
 EXTERNAL RESPIRATION IN CHILDREN WITH
 BRONCHIAL ASTHMA**

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ABSTRACT

The aim of the study was to study the validity of spirometry and bodyplethysmography methods for assessing the functional state of the bronchopulmonary system in children with bronchial asthma. Materials and methods. 62 children were examined, among them 27 children with a diagnosis of moderate bronchial asthma and 35 children are conditionally healthy children. All patients underwent a comprehensive study of respiratory function indicators in compliance with research standards. Results. When analyzing the FEV1 / FVC index, which characterizes the presence of bronchial obstruction, it was found that in the group of children with BA it was 69.6%, while in the control group it was 97.53%. The analysis of the results of bodyplethysmography showed an increase in ROL up to 117.2% ($p < 0.005$) in children with bronchial asthma, relative to children in the control group (96.9%). Conclusions. Revealed a significant increase in ROL relative to the control group. Based on this, to clarify the presence of disturbances in external respiration and pathology of small bronchi in children with bronchial asthma, a more in-depth examination, in particular, bodyplethysmography, is required.

KEYWORDS: *Asthma, Diagnostics, Bodyplethysmography, Spirometry, Children.*

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