

DYNAMICS OF RESPIRATORY FUNCTION IN CHILDREN WITH PERSISTENT ASTHMA

O. O. Rechkina, V. O. Strizh, S. M. Rudenko, O. M. Kravtsova

Abstract. *The aim:* the study and evaluation of respiratory function (RF) in children with different levels of asthma control. *Patients and methods.* The evaluation of RF was performed in 165 children with asthma with different levels of control. Age of children was from 6 to 17 years, mean age — $(9,8 \pm 0,5)$ years. *Results.* On the first visit, only 55.7 % of children with incomplete asthma control had clear abnormalities of RF and $FEV_1 < 80 \%$, which did not coincide with clinical manifestations of the disease. After 6 months of treatment, 9.7 % of children had partly controlled asthma. At the same time, a positive test with bronchodilator (an increase in FEV_1 greater than 12 %) remained at 14.5 %. The result of the bronchodilator test proves the lack of complete asthma control in 14.5 % of the examined children. *Conclusions.* External respiratory function is an integral part of the asthma diagnosis and the objective monitoring of the patient's condition. In children with incomplete asthma control, clear violations of RF are noted only in half of patients. It is recommended for children with normal RF and positive bronchodilator test (increase in $FEV_1 \geq 12 \%$) to continue previous treatment.

Keywords: respiratory function, children, asthma, control of asthma.

Olena A. Rechkina

National Institute of phthysiology and pulmonology named after F. G. Yanovskii

Chief of Pediatric Pulmonology and Allergology dpt., doctor of medicine,

10, M. Amosova str., 03038, Kyiv, Ukraine

rechkina@ifp.kiev.ua

Asthma and Allergy, 2019, 4, P. 13–17.

© Макарова Г. В., Рекалова О. М., 2019

www.search.crossref.org

DOI: 10.31655/2307-3373-2019-4-13-17