LEPTIN IN SPUTUM OF ASTHMA PATIENTS

V. N. Mineev, T. M. Lalaeva, T. S. Vasiljeva, A. A. Kuzmina

St. Petersburg State Medical University named after I. P. Pavlov, 6–8, ul. L’va Tolstogo, St. Petersburg, 197022, Russian Federation

The aim of the study is to compare the levels of sputum and plasma leptin in asthma. 48 patients with asthma were examined. Sputum was derived by natural course. Sputum and plasma leptin levels were measured by enzyme immunoassay (ELISA). Leptin was revealed in sputum of asthma patients. The most significant levels of leptin were revealed in allergic asthma. The percentage of sputum leptin in relation to its plasma levels of the same patients was significantly higher in allergic asthma patients with BMI < 25 kg/m². The significant direct correlation between the percentage of sputum leptin in relation to its plasma levels and indicators characterizing the state of bronchial obstruction was revealed. The suggestion on a putative elimination mechanism of high plasma levels of leptin with its diffusion from plasma into the bronchi in exacerbations of asthma was put forward. Refs 10. Tables 3.

Keywords: leptin, sputum, bronchial asthma.
Контактная информация

Минеев Валерий Николаевич — доктор медицинских наук, профессор;
vnmineev@mail.ru

Лалаева Татьяна Михайловна — кандидат медицинских наук, докторант;
t.Lalaeva@yandex.ru

Васильева Татьяна Сергеевна — аспирант
Кузьмина Анна Александровна — аспирант

Mineev Valeriy N. — Doctor of Medicine, Professor; vnmineev@mail.ru
Lalaeva Tatyana M. — Candidate of Medicine, post graduate student; t.Lalaeva@yandex.ru
Vasiljeva Tatyana S. — post graduate student
Kuzmina Anna A. — post graduate student