

**CLINICAL EFFECTIVENESS OF INHALED PROUROKINASE
AND LIPOFLAVON FOR CORRECTION OF LOCAL (ENDOBONCHIAL)
IMBALANCE OF CYTOKINE HOMEOSTASIS IN PATIENTS
WITH COPD EXACERBATION, CURED FROM
PULMONARY TUBERCULOSIS**

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Abstract

In a cohort of patients with chronic obstructive pulmonary disease, who were cured from pulmonary tuberculosis, we have studied the effect of different regimens of treatment on local concentration of cytokines in induced sputum.

A several fold increase of endobronchial concentration of osteoprotegerin and pro-inflammatory cytokines, such as IL-1 β and TNF- α , with the parallel decrease of IL-4 level, is observed in patients with non-infectious COPD exacerbations in patients, treated from pulmonary tuberculosis in the contrast to regular COPD patients.

An advantage of combined use of Berodual and inhaled prourokinase and lipoflavon was proved in these patients. Such therapy significantly decreases the level of IL-1 β in induced sputum and increases FEV₁ value.

A clinical effectiveness of combination of inhalation therapy with Berodual and prourokinase/lipoflavon in COPD exacerbation patients was confirmed by improvement of pulmonary function, namely FEV₁ index, which is essential in determining a grade of disease severity.

Key words: osteoprotegerin, TNF- α , bronchial epithelium, chronic obstructive pulmonary disease, pulmonary tuberculosis.

Ukr. Pulmonol. J. 2014; 2:78–81.

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