

**SCIENTIFIC RATIONALE AND EFFECTIVENESS  
OF NOVEL ALGORITHM FOR DIAGNOSTICS  
OF LOW RESPIRATORY TRACT  
COMMUNITY-ACQUIRED INFECTIONS**

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**Summary.** In order to develop an algorithm for diagnostics of low respiratory tract community-acquired infections we examined 508 community-acquired pneumonia patients and 165 patients with infectious exacerbation of chronic obstructive pulmonary disease. The results of examination were used to develop a novel diagnostic algorithm, which incorporated simultaneous use of classic bacteriological, molecular-genetic and serological approaches. It was proved that clinical use of this algorithm significantly increased the rate of identification of pathogens. Current algorithm is indicted for use in healthcare facilities.

***Key words:*** *community-acquired pneumonia, COPD, diagnostics, algorithm.*

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