

Current article, which is published in light of forthcoming 1st National Congress of pulmonologists of Ukraine, taking place on 18-19 October 2018, is dedicated to the urgent challenges associated with major pulmonary diseases, such as chronic obstructive pulmonary disease (COPD), asthma, pneumonia, pulmonary sarcoidosis, idiopathic pulmonary fibrosis.

In management of COPD patients the major attention should be focused on exacerbations as a leading cause of progression of the disease and increased mortality. A significant role of viruses in the development of COPD exacerbations is highlighted.

Modern views on the nature of asthma, belonging to a group of communicable diseases are presented. A phenomenon of so called polymorbidity, a kind of association of asthma with other systems chronic disorders, is discussed. The characteristics of different asthma bioclinical phenotypes and different types of airways inflammation is presented along with the analysis of the utility of different biomarkers use.

Basic data of scientific research regarding community-acquired pneumonia (CAP) are reviewed, which indicate an important role of respiratory viruses and viral-bacterial associations in the development of CAP. A resistance data of community-acquired respiratory pathogens from Ukraine, generated by SOAR international epidemiology resistance survey are also presented.

It is underlined the problem corticosteroid resistance in patients with pulmonary sarcoidosis, requiring a development of novel methods of alternative treatment. The recommendations and perspectives on the use of novel anti-fibrotic compounds in management of patients with idiopathic pulmonary fibrosis are given.

Key words: chronic obstructive pulmonary disease, bronchial asthma, pneumonia, pulmonary sarcoidosis, idiopathic pulmonary fibrosis.

Ukr. Pulmonol. J. 2018; 3: 5–12.

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