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Detection and clinical features of Coronavirus infections in patients with acute respiratory viral diseases in Ukraine

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Introduction & Aim: In Ukraine, the frequency of Corona Virus Infection (CVI) in the general structure of Acute Respiratory Viral Infections (ARVI) in adults has not previously been studied. But the range of clinical symptoms in CVI is much wider than the affection of only the respiratory system and intoxication syndrome. The aim of this study is to describe the clinical features in patients with CVI and to determine the frequency of confirmed cases of CVI in the general structure of ARVI.

Methods: Under surveillance there were 150 patients with ARVI. For the etiological confirmation of the diagnosis of CVI molecular-biological methods were used: PCR with reverse transcription, multiplex PCR, PCR with real-time amplification product detection.

Results: RNA of respiratory coronaviruses I (HCoV I AG) and II (HCoV II AG) antigenic groups were detected in 36 (24%) samples of sputum. The symptoms of the disease included, febrile temperature, weakness and dry cough in 36 (100%) cases, sore throat-in 29 (80.5%) patients. HCoV I AG (229E, NL63) was isolated from 15 patients (10%), HCoV II AG (OC43, HKU1)-in 21 (14%) cases of ARVI. Such complications as pneumonia and Respiratory Distress Syndrome (RDS), bronchiolitis without affecting the upper respiratory system, affection of the digestive system much more often occurred in patients with HCoV II AG, he meningism is more typical for HCoV I AG.

Conclusion: The revealed clinical features will help the physician suspect the diagnosis of CVI and prescribe an adequate examination and treatment.

Biography

Liubov Kotsiubailo is currently working as a Teacher of Infectious Diseases and continues to work with problems of flu, coronavirus and other acute respiratory infections, their complications and immune response issues. She is the author of more than 30 scientific publications.

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Valentyna Boyko has extensive experience in the infectious disease service as a Practitioner and Teacher at higher educational institutions from 2001 to 2011. She is the author of more than 50 scientific publications. She is interested in molecular epidemiology, clinical manifestations, differential diagnosis; new treatment protocols and prophylaxis of different infectious diseases (HIV, flu and other acute respiratory viral diseases, toxoplasmosis, tuberculosis, malaria, viral hepatitis, travel medicine, etc.).

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