

SURGICAL TREATMENT OF RARE PULMONARY COMPLICATIONS CAUSED BY COVID-19: A CLINICAL CASE OF GIANT FALSE LUNG CYST COMPLICATED WITH HEMATOMA

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Abstract

A lung cyst is a pathologic cavity filled with air or fluid content. According to the morphological structure, lung cysts are divided into true and false. The former are always congenital, while false lung cysts are acquired. In the population, lung cysts are found in patients of both sexes equally often. According to statistics, about 76 people per 1000 people have a history of lung cysts. With the onset of the COVID-19 pandemic, the widespread use of chest computed tomography (CT) has made it possible to identify a number of pulmonary pathologies, including rare complications of this viral infection. According to the literature, the incidence of pulmonary cysts in the studied patients was 9.0 %. The authors suggest that COVID-19 causes cyst formation in the lungs due to ischemic damage to the parenchyma or vascular occlusion, pulmonary fibrosis. Another cause is blockage of bronchioles by mucus and mucus plugs, accompanied by excessive alveolar distension and, as a result, rupture of the alveolar septum with subsequent formation of small cysts.

The article presents our own experience of surgical treatment of rare pulmonary complications caused by COVID-19, namely false giant lung cyst complicated by hematoma.

Conclusions. COVID-19 is a relatively new and poorly understood viral lung disease, and therefore each report of its atypical or complicated course will contribute to the systematization of knowledge about this pathology.

Key words: COVID-19, VATS, hematoma, cyst, computed tomography

Ukr. Pulmonol. J. 2023;31(2):57–59.

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