Commentary Article

The Impression of COVID-19 in Lungs

Carlos A Pardo*

Department of Pathology, Johns Hopkins University School of Medicine, Baltimore, USA.

DESCRIPTION

The COVID-19 pandemic continues to spread as scientists conduct extensive research into the unique SARS-CoV-2 virus and the illness state it causes. During the present COVID-19 pandemic, treating lung cancer patients is difficult. Lung cancer is a complex disease with several different treatment options. Oncologists must weigh the risks and benefits of changing a patient's treatment strategy, especially when the disease biology and treatment is complex. The influence of COVID-19-induced microscale damage in the lung on global lung dynamics is still unknown. Acute respiratory distress syndrome is a severe form of acute respiratory distress Coronavirus sickness is caused by coronavirus 2 in 2019.

Although COVID-19 is usually harmless, a small percentage of individuals develop severe multi lobar pneumonia, which can lead to acute respiratory distress syndrome. Severe COVID-19 has no cure, and only a few treatments have shown to improve clinical outcomes. Dexamethasone and perhaps aspirin are two drugs that target the manufacture and effects of a variety of lipid mediators directly or indirectly. Alternative dose-fractionation regimens or radiation procedures are one suggestion. This would also boost the capacity of radiation services for operable patients with stage I-III lung cancer who might not be able to have surgery during the epidemic. COVID-19 severity may be increased by differentially expressed pathways during PM exposure. The current study suggests that airborne PM exposure should be considered as an additional co-factor in the outcome of COVID-19 based on the observed molecular mechanisms. The segmentation of lung CT images is an essential first step in lung image analysis.

Due to intensity inhomogeneity, the existence of artifacts, and the proximity UN the grey level of distinct soft tissues, the main problems of segmentation algorithms were accentuated. It is emphasized that COVID-19-related non-communicable diseases are inherently more prevalent in the elderly than in the young, and that maintaining adequate zinc, vitamin D, and magnesium levels is critical for the elderly to avoid non-communicable diseases like diabetes, cardiovascular disease, lung disease, and cancer.

Ultrasound imaging of the lung and surrounding tissues may be useful in the treatment of COVID-19–related lung damage patients. We propose that lung ultrasonography has a higher diagnostic accuracy, is more ergonomic, and has less and infection control implications than other monitoring modalities such as auscultation or radiographic imaging. It has quickly been clear that COVID-19 patients might acquire interstitial lung fibrosis symptoms, which in many cases last as long as we have been able to monitor the patients. Many concerns remain concerning how such fibrotic alterations occur in COVID-19 patients' lungs, whether the changes will last or may be resolved, and whether post-COVID-19 pulmonary fibrosis has the potential to progress like other fibrotic lung disorders.

Patients with lung cancer are more likely to have some, if not all, of these risk factors, putting them at a higher risk for serious outcomes. The difficulties of providing cancer care during the COVID-19 pandemic have been discussed in several articles. However, little is known about the experiences of cancer patients getting treatment during this time.

*Corresponding author: Dr. Carlos A.Pardo, E-mail:cpardev1@jhmi.edu