Title: COVID-19 in the Computed Tomography (CT) Department

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Abstract

This research will discuss how Coronavirus (COVID-19) has severely impacted the world and the role of computed tomography (CT) department as a whole. COVID-19 is an infectious disease that is fast spreading caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The outbreak began in December of 2019 in the city of Wuhan, China. COVID-19 has been declared a pandemic since March of 2020 due to the rapid spreading of the virus. The most common way to confirm coronavirus is the reverse transcription polymerase chain reaction (RT-PCR) nasal swab. X-ray and CT are the two main imaging modalities that help rule out, detect, and are used to observe progression of the virus within the patient’s body. The virus mainly impacts the lungs of patients who show severe symptoms. The different pathologies commonly found in patients with COVID-19 will be explored. The appearance of ground glass opacities (GGO) is seen on chest CT scans as a common pathology in patients with COVID-19. The virus has impacted the world as a whole, but research and development of the COVID-19 vaccine have become available. The COVID-19 vaccine will help to prevent people from contracting the virus.

*Keywords:* COVID-19, coronavirus, chest CT, computed tomography

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