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Review of X-ray and CT scan findings with a promising role of point of care ultrasound in COVID-19 pandemic

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Abstract

As healthcare professionals continue to combat the coronavirus disease 2019 (COVID-19) infection worldwide, there is an increasing interest in the role of imaging and the relevance of various modalities. Since imaging not only helps assess the disease at the time of diagnosis but also aids evaluation of response to management, it is critical to examine the role of different modalities currently in use, such as baseline x-rays and CT

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Sep 08, 2020 · The current **COVID-19 pandemic** is causing diagnostic and risk stratification difficulties in Emergency Departments (ED) worldwide. Molecular tests are not sufficiently sensitive, and results are usually not available in time for decision making in the ED. Chest **x-ray** (CXR) is a poor diagnostic test for **COVID-19**, and **computed tomography** (CT), while sensitive, is impractical as a diagnostic test ...

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Jun 01, 2020 · Preliminary investigators have suggested that chest ultrasonography (US) may play a useful **role** in early diagnosis, particularly as a **point of care** service. 5 Given the **role** that inflammation may play in **COVID-19**'s pathophysiology and progression, positron emission tomography (PET) imaging has also been explored. 6–8 At the time of writing ...

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Publish Year: 2020

[Review of the Chest CT Differential Diagnosis of Ground ...](#)

<https://pubs.rsna.org/doi/10.1148/radiol.2020202504>

Jul 07, 2020 · Coronavirus disease 2019 (**COVID-19**), a recently emerged lower respiratory tract illness, has quickly become a **pandemic**. The purpose of this **review** is to discuss and differentiate **COVID-19** typical imaging **findings** from other diseases, which can appear similar in the first instance.

Cited by: 1

Author: Maansi Parekh, Achala Donuru, Rashmi Bal...

Publish Year: 2020

[COVID-19 | Radiology Reference Article | Radiopaedia.org](#)

<https://radiopaedia.org/articles/covid-19> ▾

The primary **findings** of **COVID-19** on chest radiograph and CT are those of atypical pneumonia 40,175 or organizing pneumonia 32,34. However imaging has limited sensitivity for **COVID-19**, as up to 18% demonstrate normal chest radiographs or CT when mild or early in the disease course, but this decreases to 3% in severe disease 89,93 .



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Author: Cian McDermott, Joseph Daly, Simon ... **Publish Year:** 2020

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<https://pubs.rsna.org/doi/10.1148/ryct.2020200210>

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Cited by: 4 **Author:** Sayan Manna, Jill Wruble, Samuel Z Mar...

Publish Year: 2020

[Role of Computed Tomography in COVID-19 - ScienceDirect](#)

<https://www.sciencedirect.com/science/article/pii/S1934592520304366>

Sep 04, 2020 · In this article, we will **review** the **role** of non-contrast chest **computed tomography** in the diagnosis, follow-up and prognosis of patients affected by **COVID-19** pneumonia with a detailed description of the imaging **findings** that may be encountered.

Author: Gianluca Pontone, Stefano Scafuri, M... **Publish Year:** 2020

[COVID-19 | Radiology Reference Article | Radiopaedia.org](#)

<https://radiopaedia.org/articles/covid-19-4?lang=us> ▾

For a quick reference guide, please see our **COVID-19** summary article.. **COVID-19** (coronavirus disease 2019) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), a strain of coronavirus. The first cases were seen in Wuhan, China, in December 2019 before spreading globally, with more than 19 million cases now confirmed.