

Name of Journal: *World Journal of Radiology*

Manuscript NO: 60726

Manuscript Type: MINIREVIEWS

COVID-19 or non-COVID viral pneumonia: How to differentiate based on the radiologic findings?

Azadeh Eslambolchi, Ana Maliglig, Amit Gupta, Ali Gholamrezanezhad

Abstract

Influenza viruses were responsible for most adult viral pneumonia. Presently, coronavirus disease 2019 (COVID-19) has evolved into serious global pandemic. COVID-19 outbreak is expected to persist in months to come that will be synchronous with the influenza season. The management, prognosis, and protection for these two viral pneumonias differ considerably and differentiating between them has a high

Match Overview

1

Internet 21 words
crawled on 08-Nov-2020
onlinelibrary.wiley.com

1%

2

Crossref Posted Content 18 words
Hamel Patel, Nicholas J Ashton, Richard J Dobson, Lars-magnus Anderson et al. "Proteomic blood profiling in mild, sev...

1%

3

Internet 15 words
crawled on 21-Sep-2020
www.researchsquare.com

1%

COVID-19 or Non-COVID Viral Pneumonia: How to Differentiate Bas



Sign in



ALL

IMAGES

VIDEOS

59,600 Results

Any time ▼

[Differentiating viral from bacterial pneumonia - The ...](https://www.cebm.net/covid-19/differentiating-viral-from-bacterial-pneumonia)

<https://www.cebm.net/covid-19/differentiating-viral-from-bacterial-pneumonia> ▼

Differentiating **viral** and bacterial **pneumonia**. There are limited cues for differentiating bacterial and **viral pneumonia**. In a cohort of 310 patients with **viral** or non-**viral** community-acquired **pneumonia viral pneumonia** was associated with: Rhinorrhea, multivariate (OR 3.52; 95% CI, 1.58-7.87) Higher lymphocyte fraction in the white blood cells,

[Performance of Radiologists in Differentiating COVID-19 ...](https://pubs.rsna.org/doi/10.1148/radiol.2020200823)

<https://pubs.rsna.org/doi/10.1148/radiol.2020200823>**Introduction****Materials and Methods****Results****Discussion**

Since the initial outbreak of Coronavirus disease-19 (COVID-19) from Wuhan, China in late December 2019 (1), there have been 87,137 confirmed cases and 2,873 reported deaths distributed across 60 countries as of March 1st 2020 (2, 3). China has had the majority of COVID 19 cases (92%) (3). Patients infected with COVID-19 typically present with fever, cough, dyspnea, and muscle aches while imaging frequently reveals bilateral pneumonia (5). The standard diagnostic method being used is real-time poly...

[See more on pubs.rsna.org](https://pubs.rsna.org)

Cited by: 381

Author: Harrison X. Bai, Ben Hsieh, Zeng Xiong, Ka...

Search Tools

[Turn off Hover Translation \(关闭取词\)](#)

COVID-19 or non-COVID viral pneumonia: How to differentiate base



ALL

IMAGES

VIDEOS

55,500 Results

Any time ▾

Differentiating viral from bacterial pneumonia - The ...

<https://www.cebm.net/covid-19/differentiating-viral-from-bacterial-pneumonia> ▾

Differentiating **viral** and bacterial **pneumonia**. There are limited cues for differentiating bacterial and **viral pneumonia**. In a cohort of 310 patients with **viral** or non-**viral** community-acquired **pneumonia viral pneumonia** was associated with: Rhinorrhea, multivariate (OR 3.52; 95% CI, 1.58-7.87) Higher lymphocyte fraction in the white blood cells,

Performance of Radiologists in Differentiating COVID-19 ...

<https://pubmed.ncbi.nlm.nih.gov/32155105>

Three radiologists from China reviewed all chest CT scans (n = 424) blinded to RT-PCR **findings** to **differentiate COVID-19** from **viral pneumonia**. A sample of 58 age-matched patients was randomly selected and evaluated by four radiologists from the United States in a similar fashion.

Cited by: 411

Author: Harrison X. Bai, Ben Hsieh, Zeng Xiong, Ka...

Publish Year: 2020

COVID-19 pneumonia: CT findings of 122 patients and ...

<https://link.springer.com/article/10.1007/s00330-020-06928-0> ▾

May 12, 2020 · Recently, Bai et al compared the chest CT features of COVID-19 pneumonia and non-COVID-19 viral pneumonia, and found that COVID-19 pneumonia was more likely to have a **peripheral distribution and ground-glass opacity** [8].

Cited by: 12

Author: Mengqi Liu, Wenbin Zeng, Yun Wen, Yineng...

Publish Year: 2020

Performance of Radiologists in Differentiating COVID-19 ...

<https://pubs.rsna.org/doi/abs/10.1148/radiol.2020200823>

Radiologists had high specificity but moderate sensitivity in differentiating coronavirus disease 2019 (COVID-19) from non-COVID-19 viral pneumonia at **chest CT**. Background Despite its high sensitivity in diagnosing coronavirus disease 2019 (COVID-19) in a screening population, the **chest CT** appearance of **COVID-19 pneumonia is thought to be nonspecific**.

Cited by: 411

Author: Harrison X. Bai, Ben Hsieh, Zeng Xiong, Ka...

Publish Year: 2020

Performance of Radiologists in Differentiating COVID-19 ...

<https://pubs.rsna.org/doi/10.1148/radiol.2020200823>

ALL

IMAGES

VIDEOS

MAPS

NEWS

SHOPPING

56,000 Results

Any time ▾

[Performance of Radiologists in Differentiating COVID-19 ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32155105>

Three radiologists from China reviewed all chest CT scans (n = 424) blinded to RT-PCR findings to differentiate COVID-19 from viral pneumonia. A sample of 58 age-matched patients was randomly selected and evaluated by four radiologists from the United States in a similar fashion.

Cited by: 411

Author: Harrison X. Bai, Ben Hsieh, Zeng Xiong, Ka...

Publish Year: 2020

[COVID-19 pneumonia: CT findings of 122 patients and ...](#)

<https://link.springer.com/article/10.1007/s00330-020-06928-0> ▾

May 12, 2020 · To investigate the clinical and chest CT characteristics of COVID-19 pneumonia and explore the radiological differences between COVID-19 and influenza. A total of 122 patients (61 men and 61 women, 48 ± 15 years) confirmed with COVID-19 and 48 patients (23 men and 25 women, 47 ± 19 years) confirmed with influenza were enrolled in the study.

Cited by: 12

Author: Mengqi Liu, Wenbin Zeng, Yun Wen, Yineng...

Publish Year: 2020

[Pneumonia and Coronavirus: Does Everyone With COVID-19 Get ...](#)

<https://www.webmd.com/lung/covid-and-pneumonia> ▾

Pneumonia is a serious complication of the new coronavirus, also known as COVID-19. This lung illness may cause severe breathing problems that put you in the hospital. Learn the warning signs, who ...

Author: Susan Bernstein

[Differentiating viral from bacterial pneumonia - The ...](#)

<https://www.cebm.net/covid-19/differentiating-viral-from-bacterial-pneumonia> ▾

Differentiating viral and bacterial pneumonia. There are limited cues for differentiating bacterial and viral pneumonia. In a cohort of 310 patients with viral or non-viral community-acquired pneumonia viral pneumonia was associated with Rhinorrhea, multirariants (OR 2.50; 95% CI 1.50-3.97). Higher lymphocyte