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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 59302

Manuscript Type: CASE REPORT

Bronchoscopy in the diagnosis of COVID-19 with respiratory failure: A case report

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Abstract

BACKGROUND

Although the imaging features of the coronavirus disease 2019 (COVID-19) are starting to be well determined, what actually occurs within the bronchi is poorly known. Here, we report the processes and findings of bronchoscopy in a patient with COVID-19 accompanied by respiratory failure.

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This is a retrospective analysis of all patients who were admitted to the **New York University Langone Health (NYULH) Manhattan campus** from March 13 to April 24, 2020, with COVID-19 and respiratory failure that required mechanical ventilation and who underwent bronchoscopy. COVID-19 was diagnosed by **nasal pharyngeal swab for reverse transcriptase polymerase chain reaction (rtPCR)** assays.

Author: Stephanie H. Chang, Jeffrey Jiang, Zac... **Publish Year:** 2020

Bronchoscopy in Patients with COVID-19 with Invasive ...

<https://www.atsjournals.org/doi/full/10.1164/rccm.202004-0945LE>

Because no series of intubated patients with **COVID-19** submitted to **bronchoscopy** has been published so far, we describe our experience in performing flexible bronchoscopies in patients with **COVID-19** with severe acute hypoxemic **respiratory failure** requiring invasive mechanical ventilation during the first 3 weeks of the epidemic outbreak.

Cited by: 5 **Author:** Alfons Torrego, Virginia Pajares, Carmen F...

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Apr 30, 2020 · The evidence on the role of **bronchoscopy** during **the COVID-19 pandemic** is sparse. To maximize protection of **patients** and **HCWs**, **bronchoscopy** should be used sparingly in the evaluation and management of patients with suspected or confirmed **COVID-19 infections**.

Cited by: 17 **Author:** Momen M. Wahidi, Samira Shojaee, Carla R...

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Author: Stephanie H. Chang, Jeffrey Jiang, Za... **Publish Year:** 2020

[PDF] Diagnosis and Management of COVID-19 Disease

<https://www.thoracic.org/patients/patient...>

Symptoms may vary from mild cough to fulminant **respiratory failure** and ARDS. Many patients are asymptomatic. Table 2 lists the estimated frequency of **symptoms** observed to date.10 Table 2:

Frequency of Common **Symptoms** in **COVID-19** Symptom Percent of patients with symptom Cough 50-80% Fever 85% (only 45% febrile on presentation) Fatigue 69.6% ...

COVID-19 | Bronchoscopy International

<https://bronchoscopy.org/tag/covid-19> ▾

The US Centers for Disease Control says that in California, where I reside, about 6% of all hospital beds are occupied by patients with **COVID-19**. Overall, patients with and without **COVID-19** occupy only 64% of ICU beds 2. This leaves our hospitals with a small safety margin in **case a** ...

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Author: Stephanie H. Chang, Jeffrey Jiang, Zac... **Publish Year:** 2020

[Covid-19 in Critically Ill Patients in the Seattle Region ...](#)

<https://www.nejm.org/doi/10.1056/NEJMoa2004500>

Two patients had **bronchoscopy** performed before **diagnosis of Covid-19**; bacterial and viral RT-PCR results were negative for other **respiratory** viruses. ... **respiratory failure** due to Covid-19 may ...

Cited by: 1198 **Author:** Pavan K Bhatraju, Bijan J Ghassemieh, Mic...

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[\[PDF\] Diagnosis and Management of COVID-19 Disease](#)

<https://www.atsjournals.org/doi/pdf/10.1164/rccm.2020C1>

Symptoms may vary from mild cough to fulminant **respiratory failure**. Positive tests have also been obtained from asymptomatic patients. Table 2 lists the estimated frequency of **symptoms** observed to date¹⁰: Table 2: Frequency of **Symptoms** in COVID-19 Symptom Percent of patients with symptom Cough 50-80% Fever 85% (only 45% febrile on presentation)