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Extracorporeal membrane oxygenation for coronavirus disease 2019



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Introduction: Venovenous extracorporeal membrane oxygenation (VV-ECMO) is a therapeutic strategy for the **coronavirus disease 2019** (COVID-19) induced **acute respiratory distress syndrome (ARDS)**. There are inconclusive data in this regard and causes of VV-ECMO failure are not yet understood well.

[Planning and provision of ECMO services for severe ARDS ...](https://pubmed.ncbi.nlm.nih.gov/32203711)  
<https://pubmed.ncbi.nlm.nih.gov/32203711>

The number of patients with COVID-19 infection who might develop severe **ARDS** that is refractory to ... WHO interim guidelines recommend offering **extracorporeal membrane oxygenation (ECMO)** to eligible patients with **acute respiratory distress syndrome (ARDS)** related to **coronavirus disease 2019** (COVID-19).

Cited by: 179

Author: Kollengode Ramanathan, Kollengode Ra...

Publish Year: 2020

[Veno-venous extracorporeal membrane oxygenation and ...](https://onlinelibrary.wiley.com/doi/10.1002/ams2.546)  
<https://onlinelibrary.wiley.com/doi/10.1002/ams2.546>

Jul 27, 2020 · The efficacy and safety of the combined use of veno-venous **extracorporeal membrane oxygenation (ECMO)** and prone ventilation are currently not known for coronavirus disease 2019 (COVID-19). **Case** presentation. We report two **cases** in which the combination of veno-venous **ECMO** and prone ventilation for severe **acute respiratory syndrome coronavirus 2 (SARS-CoV-2)** ...

Cited by: 1

Author: Takehiko Kasai, Naofumi Bunya, Kenshir...




Publish Year: 2020

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<https://pubmed.ncbi.nlm.nih.gov/32427613>

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Cited by: 10 Author: Xiao Yang, Shuhan Cai, Yun Luo, Fangfang ...

Publish Year: 2020

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<https://journals.lww.com/ccmjjournal/Fulltext/2020/...>

Objectives: Severe acute respiratory distress syndrome is complicated with coronavirus disease 2019 and extracorporeal membrane oxygenation support may be necessary in severe cases. This study is to summarize the clinical features, extracorporeal membrane oxygenation characteristics, and outcomes of patients with severe acute respiratory syndrome coronavirus 2 pneumonia received extracorporeal ...

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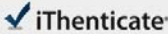
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**Manuscript NO:** 60557

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**Extracorporeal membrane oxygenation for coronavirus disease 2019-associated acute respiratory distress syndrome: Report of two cases**

Two Cases of COVID-19 Related ARDS on VV-ECMO

Jun-Lin Wen, Qi-Zhe Sun, Zhou Cheng, Xiao-Zu Liao, Li-Qiang Wang, Yong Yuan, Jun-Wei Li, Liu-Sheng Hou, Wen-Jun Cao, Wei-Jia Wang, Wei-Yan Soh, Bin-Fei Li, Da-Qing Ma

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## Coronavirus disease 2019 (COVID-19): Extracorporeal ...

<https://www.uptodate.com/contents/coronavirus...> ▾

Nov 13, 2020 · INTRODUCTION — The pneumonia associated with novel coronavirus disease 2019 (COVID-19 or nCoV-2) can lead to respiratory failure with profound hypoxemia requiring endotracheal intubation and mechanical ventilation. Patients that do not respond to optimal conventional mechanical ventilation may be candidates for management with extracorporeal membrane oxygenation ...

## Venovenous extracorporeal membrane oxygenation for ...

<https://www.sciencedirect.com/science/article/pii/S0022522320331457>

Dec 01, 2020 · Graphical summary of key study findings. A total of 37 patients admitted with severe acute respiratory distress syndrome associated with COVID-19 were initiated on venovenous extracorporeal membrane oxygenation (VV ECMO) support at 1 of 4 ECMO referral hospitals within a large health care system.

Author: Emily Shih, J. Michael DiMaio, John J... Publish Year: 2020

## Regional extracorporeal membrane oxygenation retrieval ...

<https://academic.oup.com/ejcts/article-abstract/58/5/875/5910326> ▾

Sep 23, 2020 · Coronavirus disease 2019 (COVID-19) is a new contagious disease, a public health emergency and a pandemic. It is caused by severe acute respiratory syndrome coronavirus 2, a novel coronavirus that has spread rapidly across the world since the first reports in December 2019 from Wuhan, China. Current evidence suggests a zoonotic source ...

Author: Muhammad U. Rafiq, Kamen Valchan... Publish Year: 2020

## Veno-venous extracorporeal membrane oxygenation for ...

<https://journals.sagepub.com/doi/full/10.1177/0267659120939757>

The use of extracorporeal membrane oxygenation (ECMO) for COVID-19-associated disease is controversial. The limited literature includes a case series from China 1 and a recent pooled analysis of ECMO reports. 2 Severe disease from COVID-19 in pediatric patients is rare; a case series from China classified only 5.2% of pediatric infections as severe and 0.6% as critical. 3 There have been ...

Author: Deirdre Lewis, Grace Fisler, James S... Publish Year: 2020

## Role of extracorporeal membrane oxygenation in COVID-19: ...

<https://onlinelibrary.wiley.com/doi/10.1111/jocs.14879>