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Utilization of extracorporeal membrane oxygenation during the COVID-19 pandemic

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Abstract

The ongoing outbreak of severe acute respiratory syndrome coronavirus-2 [SARS-CoV-2, or coronavirus disease 2019 (COVID-19)] was declared a pandemic by the World Health Organization on March 11, 2020. Worldwide, more than eight million people have been infected with this SARS-CoV-2 virus, and over 436000 people have died due

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May 29, 2020 · Abrams et al. recently introduced their view of extracorporeal membrane oxygenation (ECMO) utilisation **during the COVID-19 pandemic** as a burden-based approach, highlighting that surge conditions may result in decreased **utilization of ECMO**, as resources must be carefully managed to ensure an acceptable level of care in all patients [].Whilst case numbers may overwhelm some health ...

What Is ECMO for COVID-19? | U.S. News

<https://health.usnews.com/.../articles/what-is-ecmo-for-covid-19> ▾

Oct 21, 2020 · **ECMO** is helping some **COVID-19 patients** for whom standard treatments have failed and a mechanical ventilator alone is not enough to safely support ...

How to use ECMO for COVID-19 Patients – Consult QD

<https://consultqd.clevelandclinic.org/how-to-use-ecmo-for-covid-19-patients> ▾

Jun 01, 2020 · How to **use ECMO** for **COVID-19** Patients Guidelines for the therapy can help conserve resources Resources are quickly being strained as the **COVID-19 pandemic** wreaks havoc, and this is especially evident with **extracorporeal membrane oxygenation (ECMO)**. **ECMO** is a method for cardiopulmonary support for refractory respiratory and cardiac failure.

ECMO during the COVID-19 pandemic: when is it unjustified ...

<https://ccforum.biomedcentral.com/articles/10.1186/s13054-020-03230-9> ▾

Aug 17, 2020 · Perhaps the initial question should not be when, but whether to **use ECMO** at all in the **COVID-19 pandemic**. Analyses have demonstrated a benefit from **ECMO** in severe forms of the acute respiratory distress syndrome (ARDS), though such benefit comes at real costs, and not simply financial ones. In the case of a **pandemic** requiring crisis standards of care, every resource has the potential to ...

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Initial ELSO Guidance Document: ECMO for COVID-19 Patients ...

<https://journals.lww.com/asaiojournal/FullText/...>

Extracorporeal membrane oxygenation can be lifesaving in patients with severe forms of ARDS, or refractory cardio-circulatory compromise. Initial experience in Japan and South Korea with **ECMO** in >50 **COVID-19** cases has had survivors, with many still receiving treatment.

Extracorporeal Membrane Oxygenation for COVID-19

<https://www.jwatch.org/na52563/2020/10/29/...> ▾

Oct 29, 2020 · Many patients treated with ECMO for acute respiratory distress syndrome survive initial hospitalization. Some patients with **COVID-19** and acute respiratory distress syndrome (ARDS) develop refractory hypoxemia that warrants consideration of **extracorporeal membrane oxygenation (ECMO)**. Investigators examined records (from a registry of 213 international ECMO-referral hospitals) of nearly 800 patients (median age, 49) with **COVID-19** ...

Author: Patricia Kritek **Publish Year:** 2020

Use of Venovenous Extracorporeal Membrane Oxygenation in ...

<https://www.frontiersin.org/articles/10.3389/fmed.2020.614569> ▾

Dec 10, 2020 · Acute respiratory distress syndrome (ARDS) related to Coronavirus disease (**COVID-19**) is associated with high mortality. It has been suggested that venovenous **extracorporeal membrane oxygenation (ECMO)** was suitable in this indication, albeit the effects of ECMO on the mechanical respiratory parameters have been scarcely described. In this case-series, we prospectively described the **use** ...

ECMO (extracorporeal membrane oxygenation) during the ...

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ECMO (**extracorporeal membrane oxygenation**) during the **COVID-19 pandemic**. This document provides the framework to support provision of **ECMO during an escalating pandemic**. It should be used to inform local policies and procedures which should be current and reviewed regularly.

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ECMO (**extracorporeal membrane oxygenation**) during the **COVID-19 pandemic**. This document provides the framework to support provision of **ECMO during an escalating pandemic**. It should be used to inform local policies and procedures which should be current and reviewed regularly. Introduction.

Extra-corporeal membrane oxygenation (ECMO) and COVID-19 ...

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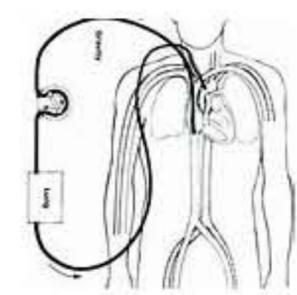
Extra-corporeal membrane oxygenation (ECMO) and COVID-19 Overview Cardiac surgeon Dan Choi and thoracic surgeon Errol Bush discuss the **use of extra-corporeal membrane oxygenation (ECMO)** to support patients diagnosed with **COVID-19** at Johns Hopkins.

Extracorporeal Membrane Oxygenation for COVID-19

[https://www.jwatch.org/na52563/2020/10/29/...](https://www.jwatch.org/na52563/2020/10/29/)

Oct 29, 2020 · Many patients treated with ECMO for acute respiratory distress syndrome survive initial

Extracorporeal membrane oxygenation



Extracorporeal membrane oxygenation, also known as extracorporeal life support, is an extracorporeal technique of providing prolonged cardiac and respiratory support to persons whose heart and lungs are unable to provide an adequate amount of gas exchange or perfusion to sustain life. The technology for ECMO is largely derived from cardiopulmonary bypass, which provides shorter-term support with arrested native circulation. The device used is a membrane oxygenator, also known as an artificial lung.

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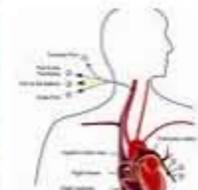
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