

Since January 2020 Elsevier has created a COVID-19 resource centre with free information in English and Mandarin on the novel coronavirus COVID-19. The COVID-19 resource centre is hosted on Elsevier Connect, the company's public news and information website.

Elsevier hereby grants permission to make all its COVID-19-related research that is available on the COVID-19 resource centre - including this research content - immediately available in PubMed Central and other publicly funded repositories, such as the WHO COVID database with rights for unrestricted research re-use and analyses in any form or by any means with acknowledgement of the original source. These permissions are granted for free by Elsevier for as long as the COVID-19 resource centre remains active.

Journal Pre-proof

WITHDRAWN Intracranial Hemorrhage in COVID-19 Patients on ECMO: Challenges and Future Directions

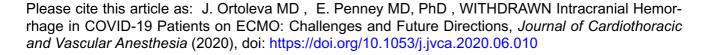
J. Ortoleva MD, E. Penney MD, PhD

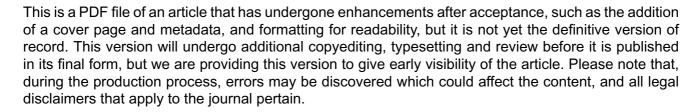
PII: \$1053-0770(20)30516-4

DOI: https://doi.org/10.1053/j.jvca.2020.06.010

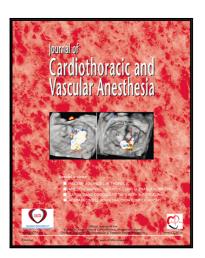
Reference: YJCAN 5963

To appear in: Journal of Cardiothoracic and Vascular Anesthesia





© 2020 Published by Elsevier Inc.



Journal Pre-proof

WITHDRAWN Intracranial Hemorrhage in COVID-19 Patients on ECMO: Challenges and Future Directions

Ortoleva, J. MD^{a*} jortoleva@tuftsmedicalcenter.org, Penney, E., MD, PhD^b

^aTufts Medical Center Department of Anesthesiology and Perioperative Medicine 6th floor, Ziskind building 800 Washington Street Boston, MA, 02111

^bMassachusetts General Hospital, Department of Neurology, 15 Parkman Street #835, Boston, MA, 02114

This article has been withdrawn at the request of the author(s) and/or editor. The Publisher apologizes for any inconvenience this may cause.

The full Elsevier Policy on Article Withdrawal can be found at https://www.elsevier.com/about/our-business/policies/article-withdrawal

^{*} Corresponding author