

# Research Series: How to Conduct Observational Research in ECMO

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# Disclosures

- **Darryl Abrams, MD**
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  - Past At-large Member of ELSO Steering Committee
- **Melania Bembea, MD, MPH, PhD**
  - NIH/NINDS R01NS106292 (PI)
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# Disclosures

- **Eddy Fan, MD, PhD**

- Personal consulting/speaking fees from Alung Technologies, Aerogen, Baxter, GE Healthcare, Inspira, Vasomune
- Chair, ELSO Research Committee
- Chair, ECMONet Data Committee

- **Matthieu Schmidt, MD, PhD**

- Personal speaking fees from Baxter, Drager, Fresenius Medical Care, and Getinge



# Select Observational Research Articles

- Gershon AS et al., Clinical knowledge from observational studies. Everything you wanted to know but were afraid to ask. *Am J Respir Crit Care Med* 2018;198:859-867.
- Bosdriesz JR et al., Evidence-based medicine – when observational studies are better than randomized controlled trials. *Nephrology* 2020;25:737-743.
- Gershon AS et al., Informing healthcare decisions with observational research assessing causal effect. An official American Thoracic Society Research Statement. *Am J Respir Crit Care Med* 2021;203:14-23.
- Ghaferi AA et al., STROBE reporting guidelines for observational studies. *JAMA Surg* 2021;156:577-578.



# Additional Resources

- ELSO
  - Registry Data Requests (<https://www.else.org/Registry/DataRequest.aspx>)
  - Research Grants (<https://www.else.org/ecmo-resources/ResearchGrantApplication.aspx>)
- COVID-19 Critical Care Consortium (<https://www.covid-critical.com>)
- PALISI (<https://www.palisi.org>)
- PediECMO (<http://www.palisi.org/palisi-pediecmo>)



# Additional Resources

- International ECMO Network  
(<https://www.internationalecmonetwork.org>)
- AHA GWTG-Resuscitation  
(<https://www.heart.org/en/professional/quality-improvement/get-with-the-guidelines/get-with-the-guidelines-resuscitation>)