

# **Ecmo**

**Michael S. Firstenberg**

The ECMO Book - E-Book Jeffrey DellaVolpe, 2023-03-23 ECMO (extracorporeal membrane oxygenation) is a crucial form of support for patients with respiratory failure, severe ARDS, COVID-19, and cardiogenic shock whose use has been increasing exponentially around the world. The ECMO Book offers a comprehensive yet approachable framework for understanding the principles of extracorporeal support as well as the subtleties related to the care of patients needing ECMO. Dr. Jeffrey DellaVolpe provides authoritative, consistent guidance on all aspects of ECMO, making complex information understandable and accessible and helping you increase your knowledge of and proficiency with this multifaceted therapy. Establishes the context of ECMO in the care of critically ill patients (patient selection, indications, contraindications), progressing from basic science information through advanced ECMO concepts. Explores physiologic fundamentals and builds on these concepts by applying them to extracorporeal support, equipping you with a sound framework for how those principles can be applied in the day-to-day management of patients with severe cardiac and respiratory failure. Covers key topics such as blood flow titration, sweep gas titration, ventilator management on ECMO, and anticoagulation and bleeding management.

Extracorporeal Membrane Oxygenation (ECMO), An Issue of Critical Care Clinics, E-Book Nitin Puri, Michael Baram, Nicholas Cavarocchi, 2017-09-14 This issue of Critical Care Clinics focuses on Mechanical Circulatory Support.

Editors Nitin Puri and Michael Baram have assembled an expert team of authors on topics such as: History of ECMO; Evolution current technique and equipment; Program Development; Review ELSO standards; Cardiac Failure of medical management; Cardiac Management and Complications; Pre-Respiratory; Respiratory Management and Complications; Post ECMO management; Post ECMO complication; DVT; Transport- Interhospital and How to prep patient; ECHO; Family understanding of ECMO (to cannulate or not); Pharmacy, Nutrition, Blood Management; Transport; The future of ECMO and ventilation.

*Extracorporeal Membrane Oxygenation for Adults* Gregory A.

Schmidt, 2022-08-10 This new edition presents an evidence-based review of extracorporeal membrane oxygenation (ECMO) for adults, with a particular focus on veno-venous (VV) ECMO. Due to the dramatic impact of COVID-19, the number of institutions offering ECMO, thus the number of clinicians performing ECMO (or referring their patients for ECMO), has exploded in a truly unprecedented way. While the pandemic may fade, programs built in response will survive by extending the application of ECMO to previously overlooked populations. This fully updated second edition refines its focus to VV ECMO, which has seen the most dramatic increase and relevance. This allows expert authors to go further in depth regarding VV ECMO and provide readers with better guidance from the physiology of VV ECMO to weaning and decannulation. Several areas have been expanded, including anti-thrombotic approaches; how to set the mechanical ventilator and judge the complex

interactions between patient, ventilator, and ECMO circuit; assessing the systemic circulation during VV ECMO (especially right ventricular function and intravascular volume); and recognizing membrane lung dysfunction. Finally, new chapters addressing how the VV-capable clinician should think about VA ECMO and how to incorporate ethical principles in patient selection and withdrawal of ECMO have been added. This is an ideal guide for intensive care and respiratory medicine specialists, fellows training in critical care, ECMO specialist staff, perfusionists, nurses, and respiratory therapists.

*Manual of Extracorporeal Membrane Oxygenation (ECMO) in the ICU* Poonam Malhotra Kapoor, 2013-09-30 Extracorporeal Membrane Oxygenation (ECMO) is a procedure that uses a machine to take over the work of the lungs and sometimes the heart. The system provides heart-lung bypass support using a pump to circulate blood through an artificial lung back into the bloodstream, providing enough oxygen to the patient, whilst allowing time for the lungs and heart to rest or heal during or after serious illness. ECMO is often used for babies, but can also be used for children and adults (Medline Plus). The techniques for ECMO require professionals from multidisciplinary background to be involved in the procedure. This practical manual is a comprehensive guide to ECMO. Divided into eleven sections, the book begins with an introduction to the procedure and equipment. The following sections provide step by step discussion on initiation, maintenance of support and monitoring, and techniques of ECMO for different case scenarios. The final sections

present multiple choice questions for self assessment and extensive appendices. Key points Comprehensive guide to Extracorporeal Membrane Oxygenation (ECMO) Highly relevant for intensivists, anaesthesiologists, surgeons, paediatricians and cardiologists Includes section of multiple choice questions for self assessment More than 186 full colour images and illustrations

*Advances in Extracorporeal Membrane Oxygenation* Michael S. Firstenberg, 2019-12-04 Extracorporeal membrane oxygenation is an effective tool for managing patients with severe acute cardiogenic shock and/or respiratory failure. With emphasis on teamwork and adherence to guidelines, protocols, and objective tools to assist in patient selection, management, and weaning, outcomes have improved. Nevertheless, every aspect of supporting patients who require extracorporeal support remains a challenge - with many unanswered questions. The goal of this text, as a supplement to the previous editions on this rapidly evolving topic, is to provide the reader with a more in-depth review of some of the ongoing issues in this field. Topics ranging from administrative aspects to developing a program, nursing issues, ethical concerns, and a variety of clinical topics are discussed at length.

**Extracorporeal Membrane Oxygenation** Michael S. Firstenberg, 2016-09-14 Extracorporeal membrane oxygenation (ECMO), despite a long and troubled history, is very rapidly evolving into a therapy that can be safely and effectively applied across the world in patients experiencing acute cardiac

and/or pulmonary failure. As experiences grow, there is a better understanding of nuances of the importance of teamwork, therapy guidelines and protocols, patient selection, and understanding the functional aspects of pump-circuit technology as it interfaces with human biology. The challenges in managing these very sick and complex patients cannot be understated. The goal of this text is to provide a framework for the development and successful growth of a program. Authors from Centers of Excellence Worldwide have shared their experiences in the full spectrum in dealing with this evolving field.

*ECMO-Extracorporeal Life Support in Adults* Fabio Sangalli, Nicolò Patroniti, Antonio Pesenti, 2014-04-30 Extracorporeal membrane oxygenation (ECMO) has been in clinical use for some 40 years, but it is only in the past decade that its application in the treatment of life-threatening circulatory and respiratory failure has truly flourished. This book presents a comprehensive overview of both pathophysiological and practical aspects of circulatory and respiratory extracorporeal support. The basics of ECMO, including its history, the "ECMO team", cannulation, materials, and blood-surface interactions, are first discussed. The various indications for and particular characteristics of circulatory and respiratory extracorporeal life support are then described in detail in the main part of the book. Patient care during ECMO and monitoring of the ECMO patient are also carefully covered, with explanation of the management of technical and clinical

complications and transport-related problems. Further topics include long-term therapy options beyond ECMO, such as ventricular assist devices and transplants, outcome, the new frontiers of ECMO for organ procurement and future challenges. The authors are well-known experts in the field whose authoritative contributions and attention to practical aspects will be invaluable for novices and experienced practitioners alike.

**Extracorporeal Membrane Oxygenation** Marc O. Maybauer, 2022-03-08

Extracorporeal Membrane Oxygenation : An Interdisciplinary Problem-Based Learning Approach provides an overview of the latest techniques, management strategies and technology surrounding the clinical use of ECMO. This interdisciplinary book reviews the most common scenarios of ECMO in 62 chapters exploring the conditions and problems arising in ECMO practice. Each chapter begins with a stem case, followed by open questions to encourage critical thinking and enable the reader to follow the management strategies of the authors, who are world leaders in the field. Followed by an evidence-based discussion, each chapter concludes with multiple-choice questions for self-assessment. This book is current in its knowledge of organ systems and management and keeps pace with new ECMO technology and surgical techniques coupled with current guidelines for management. Starting with the history of ECMO to technical aspects, circuit biocompatibility and interaction with blood, drugs and flow physics, the volume continues into pediatric and adult sections, focussing on both respiratory and cardiovascular support, followed

by a section on trauma. The volume then concludes with a section on neurologic complications and ethics, as well as rehabilitation and ambulation of ECMO patients. In addition, to reflect the current global health situation, this book also includes a chapter on ECMO management in patients suffering with COVID-19, to cover the most urgent and pressing questions around ECMO during the ongoing pandemic. This is the first ECMO book on the market to utilise a problem-based learning approach and as such is an important unprecedented project on ECMO education.

Extracorporeal Membrane Oxygenation Michael S. Firstenberg, 2020-12-21  
Extra-corporeal membrane oxygenation (ECMO) is an innovative therapy that is used to support the physiologic needs of a patient during illnesses associated with acute severe respiratory and/or cardiac failure. ECMO is used in those life-threatening situations in which the oxygenation, ventilation, and circulatory support needs of the patient cannot be adequately maintained with a maximal conventional ventilator or pharmaceutical support. Essentially, ECMO is a simple pump circuit that can be used to support the role of failing lungs or hearts while therapies are aimed at organ recovery. While simple in concept and theory, this text illustrates the complexities associated with clinical use. The use of ECMO has evolved substantially overall the years-in part due to broader and growing applications, a better understanding of the technologies and how they can be used (especially in the context of long term human-ECMO circuit interactions), objective tools for



patient selection, management protocols, and, most importantly, a growing body of evidence-based science and literature that demonstrates the effectiveness of this highly invasive, resource-intensive, and complex tool. The goal of this text is to draw from established thought leaders and experts around the world and present a comprehensive review of the rapidly-evolving and expanding literature regarding the spectrum of applications for ECMO. While by no means is this implied to be the final and exhaustive text on this topic, it does aim to be as comprehensive and up-to-date as possible which is, in itself, a challenge given how quickly this field is evolving. This text is aimed at students and providers, at all levels, who might have interest or be involved in the care of these critically ill patients. Chapters focus on how programs can be structured, the specific details of patient selection, management, and expanding roles of ECMO. Both basic and sophisticated concepts are presented with the goal that all may learn. We also present an objective assessment of some of the evolving challenges and limitations to ECMO in the context of the increased utilization and expansion of this therapy, combined with sicker patients, and the ongoing journey towards improved outcomes while offering a salvage therapy to patients who might otherwise die--

### **The Practice and Principles of Extra-corporeal Membrane Oxygenation (ECMO)**

Michael S. Firstenberg, 2021 As demonstrated in the first book, the management of patients with profound respiratory failure or cardiogenic shock has

evolved significantly over the years with advances in diagnostic and therapeutic options. While the mortality for these often-overlapping problems remains high, progress in the multi-disciplinary approach to these complex clinical problems has improved survival substantially. The focus of this second book is to explore some of the advanced topics and current literature regarding the management of patients requiring extra-corporeal membrane oxygenation (ECMO). As illustrated in the spectrum of topics discussed, ECMO is not only a complex therapy in itself, but the challenges, problems, and complications that arise in this unique area of medicine require engagement by many diverse disciplines. While there are many physiological issues such as organ protection, management of circuit complications, and optimal lung and cardiac protection for recovery, the use of ECMO also introduces a variety of legal and ethical challenges, particularly end-of-life issues (including brain death) in patients for whom recovery, despite extra-corporeal support, is most likely futile. Each of the chapters, written by world-renowned experts in the field, highlights a different important aspect in understanding the complex dynamics of extra-corporeal support and its impact on human pathophysiology. While many of the topics discussed involve sophisticated concepts, each chapter was written with the goal of providing a comprehensive review suitable for any level of training and experience. Many of the topic discussed highlight the state-of-the-art literature along with expert experiences and perspectives as we try to learn more about the

overlapping art and science of a field of medicine that has only recently been accepted as a mainstream treatment option. Students of ECMO, ranging from early stage healthcare providers to master physicians, will benefit from the insights presented--

ECMO Retrieval Program Foundation Anton Sabashnikov, Thorsten Wahlers, 2023-02-06 This book should represent a guideline for launching an extracorporeal membrane oxygenation (ECMO) program. It describes in detail particularities and special features of planning, setting up, developing, structuring and maintaining of ECMO support program for instable patients with the need of transportation from peripheral hospitals to an experienced ECMO centre for further treatment. Authors have condensed both the current evidence and Guidelines on ECMO and eCPR support and have highlighted in detail the issue of planning, setting up, developing, structuring and maintaining this program with the view to helping other centres launching this life-saving service taking into account their experience in this important field of medicine. In this context, the main benefit of this book is the outstanding and particular aim to educate the reader in developing and maintaining a large-spectrum ECMO program. The volume, richly illustrated and written by KOLs using an expository writing style to promote the readability will appeal to intensivists, anesthesiologists and cardiologists as well as cardiac- and thoracic-surgeons and pneumologists

**The History of Extra-corporeal Membrane Oxygenation (ECMO):** Michael S.

Firstenberg,2020 The history of extra-corporeal membrane oxygenation (ECMO) reflects a true medical success story that has been the result of tremendous dedication, perseverance, teamwork, and years-if not decades-of hard work by countless providers, students, and advocates. This book, the final in a series of three on ECMO, traces the history of extra-corporeal support from the early years when therapy was offered as a last attempt at salvaging those patients who had lost almost all hope of survival, to the modern era and the role of ECMO in the contemporary management of critically ill patients, especially during the COVID-19 pandemic. The chapters illustrate how the technical aspects of ECMO have evolved, as well as the growing role of patient selection and team-based management. Although the role of ECMO for COVID-19 is still evolving, the chapters addressing this topic can serve as a foundation for the many complex systematic issues, beyond just the bedside care of ECMO patients, that must be acknowledged. Jorge Agustín Nicolás Ruiz de Santayana y Borrás, also known as George Santayana, has been credited with the quote: Those who cannot remember the past are condemned to repeat it, [George Santayana (1905) Reason in Common Sense, p. 284, volume 1 of The Life of Reason] a concept that clearly resonates with those involved in ECMO program development, patient selection and management. As such, the primary goal of this text is to help scholars of all levels better understand where we have been and where we are going--

**Comprehensive Healthcare Simulation: ECMO Simulation** Lindsay C.

Johnston,Lillian Su,2020-12-16 This book focuses on the technical, cognitive, and behavioral skills needed to implement an extracorporeal membrane oxygenation (ECMO) simulation program. It describes these programs on the individual, team, and hospital system level, and includes the history of ECMO simulation, its evolution to its current state, and future directions of technology and science related to ECMO simulation. Divided into six sections, chapters describe both the theoretical as well as the practical aspects of ECMO simulation, including a pictorial guide to setting up an ECMO simulation circuit and how to recreate ECMO emergencies. It is a pragmatic guide that emphasizes the necessary practical items and discussions necessary to plan, set-up, orchestrate, and debrief ECMO simulations for different types of learners in different Comprehensive Healthcare Simulation: ECMO Simulation - A Theoretical and Practical Guide is part of the Comprehensive Healthcare Simulation Series, and this book is intended for educators, simulation technologists, and providers involved in ECMO programs who recognize the value of simulation to improve ECMO outcomes.

**ECMO in the Adult Patient** Alain Vuylsteke,Daniel Brodie,Alain Combes,Joanne Fowles,Giles Peek,2017-02-09 Extracorporeal membrane oxygenation (ECMO) is developing rapidly, and is now part of the toolkit for the management of all patients with severe respiratory or cardiac failure. Clinicians of all disciplines are in need of a simple manual, easy and fun to read, that will take them through the management of these patients, explaining the principles

of safe and successful practice. Part of the Core Critical Care series, this book is an easy-to-read guide for the aspiring ECMO clinician. Doctors, nurses, physiotherapists, dieticians, pharmacists and all other key members of the team will learn the basics required to better understand the technology and care of the patient. The experienced clinician will enjoy reading through the chapters, which present structured thoughts and knowledge acquired through clinical experience.

*Nursing Care and ECMO* Chirine Mossadegh, Alain Combes, 2017-03-13 This book explores the unique aspects involved in the management of ECMO patients such as physiopathology and indications, setting up the device, monitoring ECMO and the patient, troubleshooting, ethical aspects and rehabilitation. For the past eight years, management of acute heart failure and Acute Respiratory Distress Syndrome (ARDS) patients has been improved by the development of short-term assistance devices, with ECMO as a first line treatment. This highly informative book provides essential insights for ICU nurses at ECMO centers around the world, who face the substantial challenges involved in the management of ECMO patients. Above all, it meets their training needs with regard to bedside monitoring for these patients, which has become a major issue. The editors and most of the contributors serve at La Pitié-Salpêtrière ICU, France, which, in terms of the number of admissions and major publications produced, is one of the world's leading authorities on ECMO.

ECMO Specialist Training Manual Fourth Edition ,2018-09

ECMO Gail M. Annich, William R. Lynch, Graeme MacLaren, Jay M. Wilson, Robert H. Bartlett, 2018-08-11 Índice de Capítulos; Capítulo 1: Historia y desarrollo soporte extracorpóreo; Capítulo 2: Fisiología ECLS; Capítulo 3: Insuficiencia Cardíaca: Principios y fisiología; Capítulo 4: Insuficiencia respiratoria hipóxica aguda en niños; Capítulo 5: Interacción entre la sangre y superficie del biomaterial durante ECLS; Capítulo 6: Registro ELSO; Capítulo 7: Prefacio de las secciones II a V; Capítulo 8: El circuito; Capítulo 9: Accesos vasculares para soporte extracorpóreo; Capítulo 10: Manejo del flujo sanguíneo e intercambio gaseoso durante ECLS. Capítulo 11: Anticoagulación y sangrado durante ECLS; Capítulo 12: Analgesia, sedación, boqueo neuromuscular y control de temperatura en ECLS; Capítulo 13: Función renal y terapias de soporte renal durante ECMO; Capítulo 14: Infecciones y ECMO; Capítulo 15: Procedimientos en ECMO; Capítulo 16: Destete, pruebas de destete y futilidad; Capítulo 17: ECMO respiratorio neonatal; Capítulo 18: ECMO en hernia diafragmática congénita; Capítulo 19: ECMO en la insuficiencia respiratoria pediátrica; Capítulo 20: ECLS cardíaco pediátrico; Capítulo 21: ECMO respiratorio Adulto. Capítulo 22: Soporte cardíaco adulto; Capítulo 23: ECPR: Resucitación cardiopulmonar extracorpórea; Capítulo 24: Asistencia ventricular en niños; Capítulo 25: Plasmaféresis; Capítulo 26: Pulmón artificial; Capítulo 27: Asistencia con soporte extracorpóreo en la donación de órganos; Capítulo 28: ECMO y sepsis; Capítulo 29: ECLS pre y post trasplante de pulmón; Capítulo 30: Cateterismo cardíaco para pacientes en

ECMO; Capítulo 31: El futuro del ECLS; Capítulo 32: Regionalización y Triage; Capítulo 33: Transporte de pacientes en ECMO: del concepto a la implementación. Capítulo 34: Temas administrativos, de entrenamiento y calidad en ECMO Capítulo 35: Finanzas en ECLS; Capítulo 36: Aspectos regulatorios y Legales de ECLS; Capítulo 37: Ética en ECMO y siglo XXI.

Extracorporeal Life Support Feilong Hei, Yulong Guan, Kun Yu, 2023 This book covers up-to-date knowledge of extracorporeal life support/ membrane oxygenation (ECLS/ECMO), which is performed as one special procedure that takes over the work of the lungs when they are too sick to properly support the body. ECLS has been recognized as one primary rescue strategy when the conventional treatments cannot reverse the process of cardiac dysfunction or respiratory dysfunction. During the recent years, ECLS has also been utilized as the bridge during perioperative organ transplantation, emergency cardiopulmonary resuscitation, and chronic assist devices such as left ventricular assist device. This book summarizes the major characteristics of technique, current status of implication and topics of development. Physiology and mechanism of ECLS is defined in the initial part of the book. Type and primary characteristics of ECLS, including instrument materials and monitoring methods are further introduced. Methods of cannulation, characteristics of patients and key-point of management during pediatric ECLS are included. ECLS has been recognized as one kind of novel CPR procedures, transport of ECLS, treatment of various complications with preventive



strategy are demonstrated. Recent hot topics of ECLS and training perspective are also discussed.

Neonatal ECMO in 2019: Where Are We Now? Where Next? Giacomo Cavallaro, Dick Tibboel, Aparna Hoskote, Matteo Di Nardo, 2022-01-31

**Advances in Extra-corporeal Perfusion Therapies** Michael S. Firstenberg, 2019-01-10 Extracorporeal membrane oxygenation (ECMO) has evolved into an exciting and valuable tool to assist in the management of patients experiencing cardiogenic shock, severe acute respiratory failure, or often a combination of both. While outcomes remain less than ideal, they continue to improve with team experience, better patient selection, and a growing understanding of the nuances of managing patients who require mechanical circulatory support. Patients requiring ECMO are often extremely sick and have complex problems - initiating therapy before the development of end-organ damage is critical. Without doubt, teamwork, guidelines, and protocols are cornerstone concepts for clinical and program success - all topics that are emphasized in this text. The goals of this text are to further outline topics that help address some of the key challenges providers face when considering and applying extracorporeal support therapies to the evolving spectrum of acutely ill patients.

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