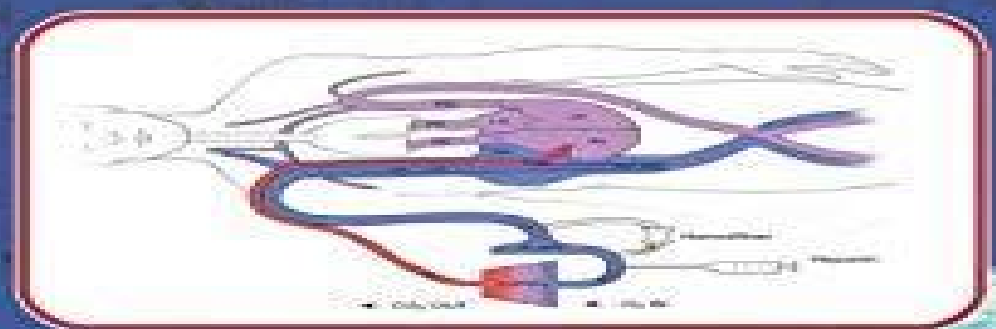


# ECMO Specialist Training *Manual*

**Abstract**



1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



# Ecmo Specialist Training Manual 3rd Edition

**Chirine Mossadegh, Alain Combes**



## **Ecmo Specialist Training Manual 3rd Edition:**

ISCCM Manual of RRT & ECMO in ICU Rajesh Chandra Mishra, Kanwalpreet Sodhi, Vivek Gupta, KC Prakash, 2023-02-24

PART I RRT Section SECTION 1 AKI and Introduction to RRT Introduction to Renal Replacement Therapy 1 Managerial Aspects of Setting Up Renal Replacement Therapy in Intensive Care Unit 2 Acute Kidney Injury Epidemiology and Causes SECTION 2 RRT Basic Principles 3 Principles of Renal Replacement Therapy Practical Applications 4 Types of Renal Replacement Therapy in ICU 5 Indications for Renal Replacement Therapy in ICU Renal and Nonrenal 6 Initiation of Renal Replacement Therapy SECTION 3 RRT Components 7 RRT Hardware Cannulas and Dialysis Membranes 8 CRRT Know the Machine 9 Dialysate Fluids and Replacement Fluids in Continuous Renal Replacement Therapy SECTION 4 Management during RRT 10 Sustained Low efficiency Extended Daily Dialysis in ICU 11 CRRT Prescription in ICU Patients 12 Anticoagulation in Continuous Renal Replacement Therapy 13 Transportation of Patients Who are on Continuous Renal Replacement Therapy 14 Monitoring during Continuous Renal Replacement Therapy 15 High volume CRRT 16 Switch Over From or Termination of Continuous Renal Replacement Therapy SECTION 5 Issues during RRT 17 Complications during Renal Replacement Therapy 18 Troubleshooting in Renal Replacement Therapy 19 Nutrition during Renal Replacement Therapy 20 Drug Dosing in Patients Receiving Renal Replacement Therapy SECTION 6 Renal Replacement Therapy Special Considerations 21 Dyselectrolytemia and Renal Replacement Therapy in Critically Ill Patients 22 Continuous Renal Replacement Therapy in Specific Situations Diseases 23 Renal Replacement Therapy and Pregnancy 24 Acute Peritoneal Dialysis in ICU 25 Renal Replacement Therapy in Poisonings Basic Principles 26 Hemoperfusion for the Treatment of Poisoning 27 Therapeutic Apheresis 28 Extracorporeal Therapies in Sepsis 29 Renal Replacement Therapy in Children 30 Quality Assurance for Renal Replacement Therapy 31 Multiple Choice Questions on Renal Replacement Therapy PART II ECMO Section SECTION 7 ECMO Basic Principle Extracorporeal Membrane Oxygenation Introduction 32 ECMO Definition Type and Variants 33 ECMO Physiology 34 Indications and Contraindications of Extracorporeal Membrane Oxygenation 35 Know the Extracorporeal Membrane Oxygenation Machine Circuit and Hardware SECTION 8 ECMO Component 36 Cannulation in Extracorporeal Membrane Oxygenation 37 Circuit Priming and ECMO Initiation 38 Extracorporeal Membrane Oxygenation Circuit Diagram SECTION 9 ECMO Administrative Issues 39 Development of ECMO Program 40 Communication Consent and Ethical Issues during ECMO 41 Cost Reduction Strategy during ECMO SECTION 10 Management during ECMO 42 Anticoagulation Management during Extracorporeal Membrane Oxygenation Heparin and Alternatives 43 Mechanical Ventilation in Patients Undergoing ECMO 44 Managing Pain Anxiety and Psychological Issues during Extracorporeal Membrane Oxygenation 45 Blood and Component Therapy during ECMO When and Why 46 Proning and Mobilization on ECMO 47 Monitoring during Extracorporeal Membrane Oxygenation 48 Procedures during ECMO Emergency and Nonemergency 49 ECMO Weaning Trial Off and Decannulation 50 Post Extracorporeal Membrane

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**ECMO Specialist Training Manual Fourth Edition**, 2018-09 *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

**Extracorporeal Membrane Oxygenation (ECMO), An Issue of Critical Care Clinics** 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

ECMO Specialist Training Manual 5th Edition, 2025-09-20 ECMO Gail M. Annich, William R. Lynch, Graeme MacLaren, Jay M. Wilson, Robert H. Bartlett, 2018-05-11

Indice de Capítulos Capi tulo 1 Historia y desarrollo soporte extracorporeo Capi tulo 2 Fisiología ECLS Capi tulo 3 Insuficiencia Cardíaca Principios y fisiología Capi tulo 4 Insuficiencia respiratoria hipoxica aguda en niños Capi tulo 5 Interacción entre la sangre y superficie del biomaterial durante ECLS Capi tulo 6 Registro ELSO Capi tulo 7 Prefacio de las secciones II a V Capi tulo 8 El circuito Capi tulo 9 Accesos vasculares para soporte extracorporeo Capi tulo 10 Manejo del flujo sanguíneo e intercambio gaseoso durante ECLS Capi tulo 11 Anticoagulación y sangrado durante ECLS Capi tulo 12 Analgesia sedación boqueo neuromuscular y control de temperatura en ECLS Capi tulo 13 Función renal y terapias de soporte renal durante ECMO Capi tulo 14 Infecciones y ECMO Capi tulo 15 Procedimientos en ECMO Capi tulo 16 Destete pruebas de destete y futilidad Capi tulo 17 ECMO respiratorio neonatal Capi tulo 18 ECMO en hernia diafragmática conge

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 regulatorios y Legales de ECLS Capi tulo 37 Etica en ECMO y siglo XXI      **Adult-Gerontology Acute Care Practice**

**Guidelines** Catherine Harris, 2019-07-15 The First Book of its Kind Praise from Doody's Medical Reviews Score 93 This well  
 developed book provides acute care guidelines for the geriatric population in an easy to follow format that uses structural  
 elements such as numbering and multilevel lists for each system It is an excellent reference for advanced practice prepared  
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 Tho Nguyen DNP MSN RN Delivers expert guidance for the common conditions seen in adult gerontology acute care practice  
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 for such topics as preoperative intraoperative and postoperative evaluation and management Offers discharge guidelines for  
 inpatient conditions Disseminates over 20 procedural guidelines such as central and arterial line insertion bronchoscopy  
 ECMO endotracheal intubation and more      **Neonatology 7th Edition** Tricia Lacy Gomella, M. Douglas

Cunningham, 2013-07-21 THE FIELD'S MOST TRUSTED AND COMPREHENSIVE POCKET GUIDE TO TREATING COMMON  
 AND RARE PROBLEMS IN NEWBORNS EXPANDED AND UPDATED A copy of this reference should be kept readily available  
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**Specialist Training Manual** Krisa Van Meurs,2000-01-01 **Ecmo Specialist Training Manual** Billie Lou

Short,2009-12-01 Neonatology: Management, Procedures, On-Call Problems, Diseases, and Drugs, Sixth Edition Tricia Gomella,M. Cunningham,Fabien Eyal,2009-06-19 The best quick reference guide to treating common and rare problems in newborns completely updated to reflect the latest research and advances A Doody's Core Title ESSENTIAL PURCHASE for 2011 4 STAR DOODY'S REVIEW This is the sixth edition of this now tested quick reference guide which has become the preferred pocket reference for students and residents working in newborn medicine The section of on call problems unique to this type of manual reviews over 30 problems that might confront on call physicians at night or on weekends This is the best of the softcover quick reference guides in neonatology It is updated frequently and each edition becomes more comprehensive without becoming unwieldy This one is the best of the general handbooks especially as an on call reference Doody's Review Service For more than two decades Neonatology has been the field's go to guide for practical up to date and readily accessible information on basic and advanced management techniques for the neonate Featuring a logical outline approach that highlights essential information this quick reference covers everything you need to know about on call neonatal problems procedures diseases and disorders and pharmacology Features The On Call Problems section presents more than 30 common and serious patient management issues and provides guidelines for rapid diagnosis and treatment covering everything from Abnormal Blood Gas to Vasospasms Extensively revised Pharmacology section features one of the most comprehensive lists of medications available in any manual New chapters include coverage of Newborn Screening Blood Component Therapy Management of the Late Preterm and Complementary and Alternative Medical Therapies Additions to the Appendix include an updated blood pressure table new growth charts and isolation guideline table

**Gomella's Neonatology, Eighth Edition** Tricia Lacy Gomella,M. Douglas Cunningham,2020-01-10 The field's most trusted and comprehensive guide to treating common and rare problems in newborns Gomella's Neonatology makes it easy to quickly retrieve information and includes sections on procedures and drug administration The volume of information in

this field has exploded over the last several decades and physicians especially trainees need a quick dependable reference to inform their clinical decisions Compared to other softcover neonatal handbooks this is my favorite and it has become the most widely used book in the NICUs that I have visited It is no longer a small pocket sized book but its unique attribute of being both comprehensive and concise makes it the preferred reference in this area The section of On Call problems is invaluable to residents and they are now frequently searching for the latest edition in our unit Jay Goldsmith MD Doody's Review Services 5 Star Review A copy of this reference should be kept readily available in the newborn unit It is a potent learning tool for NCU students Family Medicine review of an earlier edition A true essential for nearly three decades this streamlined reference provides logically organized quickly retrievable information on basic and advanced management techniques for the neonate Featuring a convenient outline approach that puts key information at reader's fingertips this quick reference covers everything clinicians need to know about on call neonatal problems procedures diseases and disorders and pharmacology The most comprehensive drug formulary available in a neonatal handbook 20 procedures are explained in a step by step manner Full color images of neonatal rashes and dermatologic problems Immunization tables An On Call section presenting more than common and serious patient management issues with guidelines for rapid diagnosis and treatment Cutting edge strategies for management of specific respiratory syndromes Valuable appendices including Abbreviations Used in Neonatology Blood Pressure Determinations Isolation Guidelines and more

**Anesthesiology, Third Edition** David E. Longnecker, Mark F. Newman, Warren M. Zapol, Warren Sandberg, Sean Mackey, 2017-09-08 The gold standard text in anesthesiology from the field's brightest most respected minds A Doody's Core Title for 2024 2021 Written by an internationally known team of experts Anesthesiology Third Edition provides a 360 degree view of the field covering all the anesthetic considerations from preoperative preparation through postoperative care and the full breadth of anesthesia practice including pain medicine and critical care medicine Presented in full color and updated to capture the latest breakthroughs and advances Anesthesiology is designed to provide the practitioner with an authoritative single source reference that spans the full spectrum of anesthesia practice Much more than a how to manual of anesthetic techniques Anesthesiology Third Edition presents an accessible compilation of concepts and principles that affirms its status as the cornerstone text in anesthesiology This edition emphasizes important trends in both the specialty and healthcare in general These trends include team based anesthesia care the remarkable growth of pain medicine practice and the expanded need for clinicians who are skilled in the practice of critical care medicine Features Four new pain medicine chapters plus an expanded section on anesthetic considerations and perioperative management of co-existing disease Key Points and Key References encapsulate must know information and guide you to important articles for further research Balanced presentations present clinical information practical clinical procedures and the molecular and scientific foundations of anesthesia practice Essential for residents and students preparing for initial certification and for practitioners preparing for

recertification      Medical evacuation in emergencies World Health Organization,2025-07-04 In times of crisis whether due to disasters armed conflicts or other health emergencies the timely and well coordinated evacuation of patients is a critical component of emergency response Past emergencies have demonstrated the urgent need for standardized approaches to both pre hospital support for medical evacuation medevac and medevac operations themselves The absence of clear protocols coupled with delays miscommunication and inadequate care during transit can severely impact patient outcomes Establishing standardized procedures ensures that medical evacuations are conducted safely efficiently and in coordination with the broader health care and emergency response system This guidance aims to provide a comprehensive framework for the safe and context adapted coordination clinical care operations support and logistics relevant to governments national authorities including ministries of health civil protection and civil defence national and international Emergency Medical Teams EMTs nongovernmental organizations NGOs Emergency Medical Services EMS and other key stakeholders operating in the medevac space or wishing to build this kind of capacity It defines minimum standards and recommendations for the development and classification of respective specialized care teams SCTs This is particularly relevant for contexts without pre existing or functional prehospital or medevac systems and can support country level capacity building regional and sub regional planning and the development of SCTs      **Exceptional Child Education Resources** ,2001      **ECMO Practical Manual** Pranay Oza,Venkat Goyal,2023-07-24 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 Based on the authors wealth of clinical experience this book is a practical guide to the use of ECMO in cardiac and respiratory critical care Beginning with an overview of the process indications and patient selection equipment and preparation the next selection provides step by step instruction on initiation and management of ECMO from cannulation and anticoagulation to monitoring ventilation and surgical intervention The following section covers complications and troubleshooting describing clinical scenarios and using algorithms and flowcharts to explain their management The final chapters discuss weaning and decannulation and ancillary issues such as record keeping protocols the ECMO cart and inventory and out of hospital ECMO This third edition has been fully revised and updated to provide clinicians with the latest advances in the field      *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 Piti Salp tri re ICU France which in terms of the number of admissions and major publications produced is one of the world s leading authorities on ECMO

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 An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

ECMO: A Practical Guide to Management Ahmed Reda Taha,Mark Caridi-Scheible,Eric Leiendecker,Casey Miller,2024-07-27 ECMO has in the last year advanced rapidly in its prevalence and ease of use It is becoming the standard of care for the management of severe ARDS however its adoption outside of relatively few large hospitals in primarily very wealthy nations has been limited This is in part improving as the cost of the equipment and associated resources decline however a significant barrier to its use is the expertise required to manage the patient There are only a few existing reference books on the topic but they suffer from being too comprehensive too basic too theoretical or else they are too expensive for the average practitioner or hospital system to use as general reference material for training This book is designed to be a practical guide to the management of ECMO by the entire ECMO team from specialists to physicians It discusses the core physiological principles necessary to the understanding of its management but also then discusses how to practically apply these principles on a day to day basis It is structured in a focused and concise manner with an emphasis on translating theory to actual equipment and patients through the use of visuals The book is divided into twelve individual sections that each contain various chapters The first section provides an introduction to the book itself as well as the authors

The second section explains the history of ECMO The third section focuses on program development while the fourth section is all about patient selection The fifth section details physics and technology while the sixth and seventh sections break down the physiology The eighth section describes cannulation and configuration while the ninth focuses on complications and emergencies The remaining three sections detail patient management pharmacology and anticoagulation and weaning and decannulation Written by experts in the field ECMO A Practical Guide to Management targets bedside providers such as physicians and mid level providers however it is also a useful reference for nurses and respiratory therapists on the team While it contains sufficient advanced material to keep more seasoned practitioners engaged it also focuses on only the necessary and practical principles to appeal to a variety of readers      *ECMO* Krisa Van Meurs,2005-01-01

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