

W. Albert · A. Bittner · R. Hetzer

Editors

# Quality of Life and Psychosomatics



- In Mechanical Circulation
- In Heart Transplantation



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# Quality Of Life And Psychosomatics In Mechanical Circulation In Heart Transplantation

**R. Hetzer, E. Henning, M. Loebe**



## **Quality Of Life And Psychosomatics In Mechanical Circulation In Heart Transplantation:**

**Quality of Life and Psychosomatics** Wolfgang Albert, Anneli Bittner, Roland Hetzer, 2012-12-06 Advances in heart surgical treatment have been impressive in the last 15 years. In end stage heart disease procedures are now performed routinely which were only experimental one or two decades ago. Heart transplantation has become a well established procedure. According to the General Registry of the International Society of Heart and Lung Transplantation 40 738 heart transplantations had been performed through the end of 1997 with survival rates of 78 % at one year, 65 % at five years and 42 % at ten years. The progress in this field has been due to intense efforts in understanding and modulating immune responses to the transplanted heart to elaborate therapeutic strategies to constrain infections and to improved out patient care. Accordingly heart transplantation is integrated into the facilities of the health care systems, the routine of physicians and the awareness of patients. The resulting increase in potential organ recipients has not been met however by an equivalent increase of available donor organs. This increasing discrepancy has forced the technical improvement and clinical evaluation of mechanical circulatory support systems as an option for treatment of critically ill patients with a failing heart. Initially these assist devices were only used to maintain sufficient circulation in post cardiectomy heart failure until myocardial function had recovered. Since the late 1980s their primary use has been that of bridging patients with heart failure until a suitable organ is available so that heart transplantation can be performed.

**Mechanical Circulatory Support** R. Hetzer, E. Henning, M. Loebe, 2012-12-06 After decades of laboratory investigations mechanical circulatory support for the failing heart has entered the clinical arena. Today a growing number of patients with progressive myocardial failure awaiting cardiac transplantation is successfully bridged to transplantation with ventricular assist devices. The proceedings of the Mechanical Circulatory Support meeting held in Berlin October 21-22 1995 present new aspects of mechanical circulatory support, recent experience with MCS in newborns and children using specially developed small devices and the results of long term mechanical assistance. The ability of the myocardium to recover under pressure de loading and reduced workload is discussed. All these topics open up new perspectives for the use of mechanical circulatory support not only as a bridge to transplantation but also as a definitive approach for treating patients with end stage heart failure. Some of these concepts may even provide real alternatives to heart transplantation, these being sorely needed in light of the severe donor organ shortage. Regulatory as well as ethical aspects of the extended use of mechanical circulatory support systems and new technical developments in the field are discussed by internationally distinguished experts.

**Neuropsychology of Cardiovascular Disease** Shari R. Waldstein, Merrill F. Elias, 2001-01-01 Cardiovascular disease the leading cause of morbidity and mortality in the United States and many other countries confers substantial risk for cerebrovascular events such as stroke and vascular dementia. The neuropsychological sequelae of such conditions are well documented and can have a devastating impact on individuals quality of life. However prior to the development of overt cerebrovascular complications

persons with cardiovascular disease or its risk factors may display mild to severe neuropsychological difficulties Medical and surgical treatments for cardiovascular disease have also been found to affect neuropsychological function This landmark volume offers the first comprehensive overview of the neuropsychological consequences of cardiovascular disease tracking its natural history epidemiology and treatments It encourages researchers and clinicians to consider all relevant facets of vascular disease processes in their evaluation study and treatment of affected patients and indicates a need for primary and secondary prevention efforts Neuropsychology of Cardiovascular Disease will be welcomed as an invaluable resource by neuropsychologists specialists in behavioral medicine neurologists cardiologists epidemiologists gerontologists and many other health professionals whose work brings them into contact with these challenging patients      **Mechanical**

**Circulatory Support Therapy In Advanced Heart Failure** Mario C Deng,Yoshifumi Naka,2007-03-28 This engaging book provides a state of the art introduction to the rapidly evolving field of mechanical circulatory support therapy in the care of patients with advanced heart failure It is aimed at healthcare teams around the world who are involved in patient care research and teaching of advanced heart failure healthcare professionals in training and interested lay persons In particular this book serves as a comprehensive resource and practice guide on all aspects of mechanical circulatory support therapy starting with an overview on heart failure management and then continuing with the referral and evaluation the care before and after mechanical circulatory support implantation the analysis of outcomes and complications as well as a description of research and societal perspectives in the field of mechanical circulatory support therapy is founded on the expertise of Columbia University Medical Center New York City which has one of the most renowned heart failure mechanical circulatory support and heart transplantation programs in the world takes a multidisciplinary integrated healthcare team approach including the perspectives of cardiologists cardiac surgeons nurses coordinators social workers psychologists physical therapists financial experts and bioethicists and provides in a unique way the complementary viewpoints from the expert healthcare team s as well as the patient s and family s perspectives with patient vignettes interspersed throughout the entire text a      *Mechanical Circulatory Support: A Companion to Braunwald's Heart Disease Ebook* James K Kirklin,Joseph G Rogers,2019-07-09 Offering comprehensive authoritative coverage of mechanical circulatory support MCS this fully revised companion to Braunwald s Heart Disease provides the clinically relevant information you need to effectively use this therapy to treat and manage end stage heart failure New editors and authors experts in both cardiology and cardiovascular surgery bring you fully up to date with the newest technology and devices as well as basic science clinical applications adverse event monitoring and management socioeconomic implications future directions and more Covers all of the newest techniques including new generation devices Discusses the management of common patient problems highlighting cautions and outcomes as well as pathophysiology and rationale for treatment Brings you up to speed with the latest coverage of ventricular assist devices VAD extracorporeal membrane oxygenation ECMO next generation centrifugal pumps and total

artificial hearts Provides a complete clinical perspective of the latest scientific breakthroughs and analysis of the current literature Includes coverage of the most recent guidelines and protocols including MCS for pediatric and congenital heart disease the Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice and cellular molecular genomic and functional changes that occur in the failing heart in response to MCS Presents practical evidence from the registry of thousands of cases to guide cardiologists cardiovascular surgeons emergency physicians primary care physicians and other team members on the best management course to follow for each particular patient Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices

**Palliative Care in Cardiac Intensive Care Units** Massimo Romanò,2021-09-29

This book analyzes the main topics of Palliative Care in Cardiac Intensive Care Units CICU from the changing epidemiology of patients admitted to the ICU to the main clinical and ethical issues The changing epidemiology of patients has led to new and emerging patient needs at the end of life Care has shifted from acute coronary syndrome patients towards elderly patients with a high prevalence of non ischemic cardiovascular diseases and a high burden of non cardiovascular comorbid conditions both increase the susceptibility of patients to developing life threatening critical conditions These conditions are associated with a significant symptom burden high mortality rate and increased length of stay The main new challenges involve shared decision making symptom control pain dyspnea etc and ethical issues withholding withdrawing life sustaining treatments deactivation of implanted cardiac devices palliative sedation all of which necessitate formal education on end of life care Written by opinion leaders in their respective fields who share their experience with improving the cultural and clinical competence of medical nursing teams this volume is chiefly intended for cardiologists anesthesiologists palliative care doctors and nursing staff

*Mechanical Circulatory Support: A Companion to Braunwald's Heart Disease Ebook* Robert

L. Kormos,Leslie W. Miller,2011-08-30 Mechanical Circulatory Support by Drs Robert L Kormos and Leslie W Miller provides the clinically relevant information you need to effectively use this therapy to treat and manage end stage cardiovascular disease In this Companion to Braunwald s Heart Disease the world s most prominent experts in mechanical circulatory support MCS cover basic science device construction clinical applications socioeconomic implications future directions and more Stay on top of hot topics including innovative devices like continuous flow pumps next generation centrifugal pumps and total artificial hearts MCS for pediatric and congenital heart disease cellular molecular genomic and functional changes that occur in the failing heart in response to MCS and Interagency Registry of Mechanically Assisted Circulatory Support INTERMACS as a tool to track and advance clinical practice Tap into discussions of hot topics in mechanical circulatory support MCS including current types of devices and clinical settings for MCS MCS for pediatric and congenital heart disease myocardial recovery regenerative therapy bleeding and thrombosis with MCS cellular molecular genomic and functional changes that occur in the failing heart in response to MCS and Interagency Registry of Mechanically Assisted Circulatory

Support INTERMACS as a tool to track and advance clinical practice Get a complete picture of the role of mechanical circulatory support in treatment through coverage of device construction clinical applications socioeconomic implications and future directions Master the pathophysiology and rationale of treatment with discussions of basic science in addition to clinically relevant information and current clinical practice guidelines Apply the expertise of the world's most prominent leaders in mechanical circulatory support

*The American Psychiatric Publishing Textbook of Psychosomatic Medicine* James L. Levenson, 2011 Extensively updated this second edition again brings together a multinational group of distinguished contributors to address every aspect of psychiatric care in the medically ill This book captures the diversity of the field whose practitioners scholars physicians and clinicians of varied backgrounds represent a multiplicity of perspectives

*The American Psychiatric Association Publishing Textbook of Psychosomatic Medicine and Consultation-Liaison Psychiatry, Third Edition* James L. Levenson, M.D., 2018-08-06 Preceded by American Psychiatric Publishing textbook of psychosomatic medicine psychiatric care of the medically ill edited by James L Levenson 2nd ed 2011

**Mechanical Circulatory Support** Francisco A Arabía, 2025-08-31 More than 6 million Americans suffer from heart failure about 10% of those patients suffer from advanced heart failure These patients can no longer be treated with conventional heart therapies and symptom management strategies As a result a more targeted and invasive technique needs to be discussed and decided between the patient and their doctor This book describes the current state of the art in mechanical circulatory support with an emphasis in patient selection device selection management of comorbidities and complications The book is the first authoritative and comprehensive volume dedicated to how the technology can be used safely to benefit ill patients suffering from advanced heart failure The book begins with a brief historical perspective of the technology and its development It will be divided in 6 sections with multiple chapters each addressing a specific area in MCS These sections include types of support the MCS program patient selection operative techniques management complications and special considerations Chapter authors are experts in their fields Mechanical Heart Assistance to Heart Replacement A Guide is an essential reference for all providers physician nurses coordinators engineers industry hospitals and regulatory agencies who manage patients with advanced heart failure who require mechanical circulatory support

**Mechanical Circulatory Support** David L. Joyce, Lyle D. Joyce, 2020-01-03 Mechanical Circulatory Support Principles and Applications offers innovative approaches to complex clinical scenarios and represents the current state of the art for managing patients on mechanical circulatory support devices Topics are presented in a concise fashion making it a practical resource for care givers who need a user's manual in the heat of the moment during patient care as well as a reference for a better understanding of the unique components of every device available for human use This book provides a comprehensive up to date analysis of the most relevant issues facing health care providers in the management of advanced heart failure With content that features patient selection strategies implantation techniques device specific considerations and management of clinical challenges in the post operative setting

this textbook offers evidence based answers to the complex questions facing nurses perfusionists advanced practice providers and physicians

**Stress Proof the Heart** Ellen A. Dornelas, 2012-02-01 Cardiovascular disease is a leading cause of death throughout the world Chronic negative emotions such as depression and anxiety place cardiac patients at greater risk for death and recurrence of cardiovascular disease In 2008 the editor published a book related to this topic titled Psychotherapy with Cardiac Patients Behavioral Cardiology in Practice American Psychological Association Aside from that book there are very few resources specifically written for clinicians who treat psychologically distressed cardiac patients Unlike other medical specialty areas such as oncology the field of cardiology has been slow to integrate behavioral treatments into the delivery of service Perhaps because the field has been largely defined and dominated by researchers mental health clinicians are only starting to recognize behavioral cardiology as a viable arena in which to practice There is a large void in the practitioner literature on behavioral cardiology In a review of Psychotherapy with Cardiac Patients Paul Efthim Ph D wrote Her new book goes well beyond previous works by giving specific and detailed guidance about how to tailor psychological interventions with this variegated population He added It would benefit from even more details about treatment approaches This proposed volume goes beyond the editor s previous volume by providing in depth descriptions of behavioral treatments for distressed cardiac patients written by eminent leaders in behavioral cardiology This book describes a wide range of behavioral treatments for the common psychologically based problems encountered by clinicians who treat cardiac patients The book is organized as follows Part I focuses on the most psychologically challenging and common presentations of cardiac diagnosis coronary artery disease arrhythmia and heart failure This section also includes a chapter on heart transplantation which is a treatment not a diagnosis but a treatment that incurs profound psychological impact for the individual In Part II behavioral interventions for the general cardiac population are described Mainstream therapies such as stress management cognitive behavioral therapy and medical family therapy are described along with approaches that have less empirical support but considerable practical significance such as personality guided therapy and interventions aimed at altering type D personality traits The literature in behavioral cardiology has a rich history of investigating maladaptive personality traits and thus it is important to include behavioral approaches that target personality in this volume Part III focuses on common behavioral problems encountered by clinicians who work with this patient population Most patients who seek psychological help do so because they perceive themselves to be stressed due to their job or overextended in all areas of their life Other people with heart disease present with sleep problems and or an inability to motivate themselves to exercise or quit smoking There are many practical behavioral approaches that can be helpful for patients with these difficulties and these are detailed in this section of the book The conclusion of the book focuses on how to integrate the behavioral treatments described in the preceding chapters into a comprehensive treatment model

**Monitoring depression and anxiety symptoms: Scales and measurements** Michael Noll-Hussong, Jan Ilhan Kizilhan, 2023-07-06

Psychosocial Care of End-Stage Organ Disease and Transplant Patients Yelizaveta Sher, José R. Maldonado, 2018-11-22 This book takes an integrated evidence based approach the psychiatric aspects of organ transplantation Unlike any other text currently on the market this title presents the core principles of transplant psychiatry through an organ based structure that includes the heart lungs liver GI organs kidney composite tissue and other key areas of transplantation Each section is divided into chapters discussing psychosocial medical and surgical considerations prior to and post transplant such as indications leading to a particular type of transplantation medical course and complications after transplantation psychiatric and psychosocial considerations before and after transplantation history of each type of organ transplant and any other special considerations The text ends with special topics in care including psychopharmacology substance abuse psychosocial evaluation of recipients and donors ethical considerations cross cultural aspects and building the transplant psychiatry practice It includes excellent learning tools including over 140 tables and figures for ease of use Written by interdisciplinary experts Psychosocial Care of End Stage Disease and Transplant Patients is a valuable resource for students and medical professionals interested in psychiatry psychology psychosomatic medicine transplant surgery internists hospital administrators pharmacists nurses and social workers Perioperative Psychiatry Paula C. Zimbarean, Mark A.

Oldham, Hochang Benjamin Lee, 2018-12-18 This book provides a comprehensive review of mental health topics for pre and postsurgical patients The book discusses general aspects of psychiatric care during the immediate pre and postsurgical phase such as pain management psychopharmacological management or legal aspects of informed consent The volume dedicates one section to specific subspecialties including cardiac surgery neurosurgery organ transplantation plastic surgery bariatric surgery and many others Each of these chapters address preoperative psychiatric risk factors evaluations impact and management recommendations for prevention and treatment of the most common psychiatric complications The final section reviews the current dilemmas and questions for future research in this field including delirium and capacity evaluation The text concludes with commentary written by experts in the fields of consultation liaison psychiatry and surgery on future directions and considerations Perioperative Psychiatry is a valuable resource for psychiatrists psychologists surgeons trainees nurses social workers and all medical professionals concerned with the behavioral health of surgical patients **The Artificial Heart** Institute of Medicine, Division of Health Care Services, Committee to Evaluate the Artificial Heart Program of the National Heart, Lung, and Blood Institute, 1991-02-01 A significant medical event is expected in 1992

the first human use of a fully implantable long term cardiac assist device This timely volume reviews the artificial heart program and in particular the National Institutes of Health's major investment raising important questions The volume includes Consideration of the artificial heart versus heart transplantation and other approaches to treating end stage heart disease keeping in mind the different outcomes and costs of these treatments A look at human issues including the number of people who may require the artificial heart patient quality of life and other ethical and societal questions Examination of how

this technology's use can be targeted most appropriately. Attention to achieving access to this technology for all those who can benefit from it. The committee also offers three mechanisms to aid in allocating research and development funds.

**The Transplantation and Replacement of Thoracic Organs** D.K. Cooper, L.W. Miller, G.A. Patterson, 2007-08-20. It is a great pleasure for me to contribute a few words as an achieved by many heart transplant centers and the ever improving results of lung transplantation and the functioning of mechanical introduction to the second edition of this volume first published in 1990 when it was edited by David Cooper and Dimitri cardiac assist devices Novitzky. The first edition was in fact a greatly expanded. The current editors bring a wealth of expertise and experience version of an even earlier volume Heart Transplantation edited to their task and have blended together absolutely superb con by David Cooper and Robert Lanza and published in 1984. This tributions by many of the world's experts in their fields. This first work authored by members of the medical staff of Groote comprehensive and highly readable volume documents the Schuur Hospital and the University of Cape Town. Medical present state of the art in the field of transplantation and School was I believe the first volume reviewing this relatively replacement of thoracic organs. It provides an invaluable and un new field of medicine paralleled source of information for those concerned with heart and lung medicine or surgery and is essential reading for all who. The present volume therefore continues the documentation of wish to keep abreast of developments in this field.

*Springer Handbook of Medical Technology* Rüdiger Kramme, Klaus-Peter Hoffmann, Robert Steven Pozos, 2011-10-02. This concise user oriented and up to date desk reference offers a broad introduction to the fascinating world of medical technology fully considering today's progress and further development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management medical engineering and medical physics.

**Transplant Psychiatry** Paula C. Zimbrea, Yelizaveta Sher, Catherine Crone, Andrea F. DiMartini, 2023-01-01. This book addresses the challenges clinicians face when working with patients facing complicated medical diagnosis for which transplantation is considered. Written by experts in transplant psychiatry each chapter approaches a common psychiatric challenge faced by transplant candidates and recipients. Chapters meticulously share clinical expertise that provides a framework for future discussions without neglecting the fact that each transplant patient is unique in the complexity of their medical diagnosis. Additionally the book examines complex issues including transplant related posttraumatic stress disorder post transplant cognitive impairment the collaboration between mental health and transplant clinicians substance use and a wide range of other complicated topics. Transplant Psychiatry is an excellent case based guide to mental healthcare delivery for all clinicians who may work with transplant patients including psychiatrists psychologists and mental health professionals transplant surgeons internal medicine specialists hematologists transplant social workers and transplant coordinators.

Tresch and Aronow's Cardiovascular Disease in the Elderly Wilbert S. Aronow, Jerome L. Fleg, Michael W.

Rich, 2019-02-06 With an exponential growth in the number of older adults understanding the common disorders of the elderly patient requiring cardiac care is becoming increasingly important Incorporating recent advances in the field Tresch and Aronow's Cardiovascular Disease in the Elderly 6th Edition has been completely revised and updated to provide cardiologists primary care physicians geriatricians and other clinicians caring for the elderly a comprehensive and accessible overview of the epidemiology pathophysiology and treatment of cardiovascular disorders in older patients

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