



The Implantable Cardioverter Defibrillator

Steven Higgins



The Implantable Cardioverter Defibrillator:

The Implantable Defibrillator L. Jordaens, 1996-11-15 The implantable defibrillator has now been used in Europe for more than 10 years and has gained widespread acceptance With the advent of nonthoracotomy systems implantation has become a standard procedure from the surgical point of view While these sophisticated devices now provide telemetry antitachycardia pacing ATP and biphasic shocks follow up can be more complicated This book provides a concise review of the current indications for implantable defibrillators and the potential developments in this field It includes a brief historical overview of how transvenous small defibrillators have become the standard of antiarrhythmic therapy in survivors of sudden death patients with ventricular tachycardia and those at risk for such life threatening events Several chapters presenting technical information on sensing defibrillation threshold testing and implantation are followed by an overview of the clinical results available to date Special attention is given to follow up with emphasis on the prevention of complications and the need for additional therapy The interpretation of arrhythmias after implantation and the role of psychological support also receive detailed consideration Primarily intended for practicing cardiologists this book will also be appreciated by anaesthesiologists cardiac surgeons emergency physicians nurses and technicians who wish to understand modern antiarrhythmic therapy

Implantable cardioverter-defibrillator (ICD) Sics Editore, 2015-05-21 Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface Mark W. Kroll, Michael H. Lehmann, 2012-12-06 HE IMPLANTABLE CARDIOVERTER DEFIBRILLATOR or TICD is arguably the most technologically challenging type of therapy that physicians utilize today At the same time engineers who design ICDs are being called upon by clinicians to extend even further the technological envelope in quest of building the ideal device To the extent however that physicians who utilize ICDs are not sufficiently comfortable with or familiar with the engineering principles that guide ICD function the full clinical potential of even an ideal device will not be realized In complementary fashion engineers require as full an appreciation as possible of the real world boundary conditions and clinical impact of various ICD features if the latter are truly to be perfected This book is intended to serve as an educational tool to foster mutual understanding and communication among physicians engineers and other professionals involved in ICD therapy with the ultimate purpose of enhancing patient care The highly varied backgrounds of such a diverse audience posed obvious challenges in the preparation of this volume Given the overwhelmingly greater involvement of clinicians in the day to day management and follow up of ICD recipients we gave high priority to the presentation of oftentimes complex yet relevant engineering concepts in a manner that could be understandable to most clinicians **Current Indications for the Implantable Cardioverter Defibrillator** Dirk

Böcker, Lars Eckardt, Gunter Breithardt, 2008-04-15 In this book well known physicians Böcker Eckardt and Breithardt have put together a succinct and focused book that compliments the CATA Series well Implantation of defibrillators has evolved dramatically since its introduction by Mirowski in 1980 Technological improvements in devices and leads included a gradual

reduction in the size of the device the introduction of the endocardial approach in 1988 the biphasic waveform and antitachycardia pacing in 1991 pectoral implantation in 1995 inclusion of DDD pacing in 1996 and the delivery of atrial therapies in 1998 Since the first implantation a huge body of information on the impact of implantable cardioverter defibrillators ICD on prognosis has become available first as observational studies and later as prospective randomized trials At the present time there is a large evidence base from the several ICD trials although it was not always certain that such a large body of ICD evidence would accumulate Implantable Cardioverter-Defibrillator L. Bing Liem, 2013-03-14 ICD therapy has become the standard form of treatment for ventricular tachyarrhythmias With clinical data showing its efficacy in both secondary and primary prevention of premature sudden death its use is likely to increase dramatically in the next decade Technological advancement has been instrumental in simplifying ICD implantation However technical additions to the device have also made its scope of functions more complex In addition to providing rapid and effective therapy for ventricular tachycardia and fibrillation the ICD is now capable of providing a full spectrum dual chamber pacing as well as therapies for atrial fibrillation Soon it will also be able to provide treatment for congestive heart failure using multi site ventricular pacing and provide continuous hemodynamic monitoring This book serves as an introductory text to those who are relatively new to this technology In its manual form it outlines the pertinent components of ICD functions and the basic differences among the various models It provides practical points in ICD implantation and in its programming and trouble shooting

Implantable Defibrillator Therapy: A Clinical Guide Antonio Pacifico, Philip D. Henry, Gust H. Bardy, Martin Borggrefe, Francis E. Marchlinski, Andrea Natale, Bruce L. Wilkoff, 2012-12-06 Implantable defibrillators as originally conceived by Michel Mirowski were limited to the detection and automatic termination of ventricular fibrillation In the original AID device the detection algorithm sought to distinguish sinus rhythm from ventricular fibrillation by identifying the more sinusoidal waveform of ventricular fibrillation The therapeutic intervention was elicited only once deadly polymorphic rhythms had developed It was rapidly learned however that ventricular fibrillation is usually preceded by ventricular tachycardia Mirowski recognized the pivotal importance of developing algorithms based on heart rate Ventricular tachycardia detection allowed the successful development of interventions for the termination of ventricular tachyarrhythmias before they degenerated into ventricular fibrillation Current device therapy no longer confines itself to the termination of chaotic rhythms but seeks to prevent them Diagnostic algorithms moved upward along the chain of events leading to catastrophic rhythms Rate smoothing algorithms were developed to prevent postextrasystolic pauses from triggering ventricular and atrial tachyarrhythmias Beyond the renaissance of ectopy centered strategies long term prevention received increasing attention Multisite pacing therapies provided by Arrhythmia Management Devices were designed to reduce the arrhythmia burden and optimize the synergy of cardiac contraction and relaxation Clinical evidence now suggests that atrial fibrillation prevention by pacing is feasible and that biventricular pacing may be of benefit in

selected patients with heart failure However these applications of device therapy that generally require ventricular defibrillation backup remain investigational and were not considered in this book [Technology Brief](#) Conseil d'évaluation des technologies de la santé du Québec,1992 *Pacemakers and Implantable Cardioverter Defibrillators, An Issue of Cardiology Clinics* Theofanie Mela,2014-05-28 This issue of Cardiology Clinics examines pacemakers and implantable cardioverter defibrillators ICD Topics include device selection indications and guidelines for device therapy shock avoidance lead advisories and recalls lead extraction subcutaneous ICDs device tools to manage the heart failure patient and many more *The Implantable Cardioverter Defibrillator* Steven Higgins,1998-08-06 Finally a comprehensive yet practical video text guide on the techniques and clinical considerations related to ICD insertion Dr Higgins discusses important related areas too such as patient selection O R preparation surgical techniques of lead access generator implantation and post operative management including complications The 30 minute video presents several different approaches to venous access proper generator positioning both subcutaneous and submuscular as well as pectoral and abdominal sites As a leading researcher in ICD therapy Dr Higgins has participated in over 1 000 such procedures He was recently one of the principal investigators in the Multicenter Automated Defibrillator Implantation Trial MADIT a blind test in which ICD therapy was associated with a 56% reduction in two year mortality versus those treated with conventional medical therapy More detailed and case management oriented than any proprietary ICD manufacturer in house video The Implantable Cardioverter Defibrillator A Videotape and Manual is a superb training tool from a world class expert and ICD pioneer **Implantable Cardioverter-defibrillators** Gerald V. Naccarelli, Enrico P. Veltri,1993 **Implantable Cardioverter - Defibrillators Step by Step** Roland X. Stroobandt, S. Serge Barold, Alfons F. Sinnaeve,2011-09-07 Implantable Cardioverter Defibrillators Step by Step AN ILLUSTRATED GUIDE Health care professionals now have a clear and concise overview of all relevant aspects of implantable cardioverter defibrillators In the successful format established by Cardiac Pacemakers Step by Step this handy paperback demystifies the devices that have revolutionized cardiac care Authored not edited for a smooth easy to read presentation the book uses full page illustrations in full color accompanying text representative ICD tracings to explain important aspects of ICD therapy Progressing from basic to more sophisticated topics the authors concentrate on clinically useful material All members of the patient care team will welcome this timely guide COMPANION WEBSITE With this book you are given free access to a companion resources site www.wiley.com/go/icdstepbystep The website includes over 150 images taken from this book You are free to download these images and use them in your own presentations details inside BY THE SAME AUTHORS Cardiac Pacemakers Step by Step An Illustrated Guide [Understanding Your Implantable Cardioverter Defibrillator \(ICD\)](#). Krames Communications,2001 **Implantable Cardioverter Defibrillator Stored ECGs** Luc J. Jordaens, Dominic A.M.J. Theuns,2007-06-10 Implantable Cardioverter Defibrillator Stored ECGs instructs the reader on the appropriate and optimal reading of device diagnostics in clinical practice using a format developed around low text

volume charts and practical hands on protocols that can be used directly during ICD follow up This concise didactic reference book provides clinical information via the use of images to illustrate specific diagnostic features in defibrillator therapy The first part consists of chapters on defibrillator diagnostics followed by case based presentations with images actual patient histories and a summary paragraph All common and some rarer situations are covered Implantable Cardiac Pacemakers and Defibrillators Anthony W C Chow, Alfred E Buxton, 2008-04-15 Pacing and ICDs are used increasingly in the management of arrhythmias and a number of different cardiac conditions Specialists general cardiologists and general physicians are now closely involved in managing patients with these devices Implantable Cardiac Pacemakers and Defibrillators All you wanted to know is written by leading specialists from the UK and USA and is designed for all physicians looking for a clear and comprehensive introduction to the principles and functions of these devices The focus of this book has been on the indications for these devices and continuing patient management for the generalist and those in training including complications and troubleshooting that arise peri and post implantation Not only does Implantable Cardiac Pacemakers and Defibrillators provide a sound introduction to the subject in the later chapters it goes beyond the basics introducing more advanced techniques such as lead extraction It can be used both for those in training and for those with direct patient care responsibilities With its up to date evidence based approach and inclusion of the latest AHA guidelines on pacing this is an ideal guide to a major aspect of modern cardiac management Pacemakers and Implantable Cardioverter Defibrillators: An Expert's Manual Amin Al-Ahmad, MD, Kenneth A. Ellenbogen, MD, Andrea Natale, MD, Paul J. Wang, MD, 2010-06-10 In the rapidly evolving field of treating cardiac arrhythmias the importance of direct management of patients with implantable cardiac devices is growing The devices have become increasingly complex and understanding their algorithms and growing programming options is essential for physicians who implant and manage them Written by experts and world authorities in the field Pacemakers and Implantable Cardioverter Defibrillators An Expert s Manual provides electrophysiologists fellows in training nurses and cardiovascular technicians involved in day to day management of device patients with detailed information about the many device algorithms and interactions Heavily illustrated with over 300 figures and tables Uniquely meets the day to day needs of all direct management professionals Focuses in detail on algorithms Describes device interactions addressing every major manufacturer Provides in depth insight into pacing including biventricular pacing Discusses arrhythmia detection and device classification testing and therapy Pacemakers and Implantable Cardioverter Defibrillators An Expert s Manual was listed by the American Journal of Cardiology as one of the Good Books in Cardiovascular Disease in 2010 American Journal of Cardiology Vol 107 Issue 8 Pages 1250 1251 **Machines in Our Hearts** Kirk Jeffrey, 2001-06-07 Machines in Our Hearts tells the story of these two implantable medical devices Kirk Jeffrey a historian of science and technology traces the development of knowledge about the human heartbeat and follows surgeons cardiologists and engineers as they invent and test a variety of electronic devices **BOOK JACKET The Implantable**

Cardioverter/Defibrillator Eckhard Alt, Helmut Klein, Jerry C Griffin, 1992-06-04 This monograph presents the most recent experience and information concerning ICD Therapy indications technical aspects of this new pacemaker generation problems side effects surgical implications cost effectiveness discussion is included [ICD Connection](#) Helen McFarland, 2012-09-27

Understanding Your Pacemaker Or Defibrillator David L. Hayes, Rebecca S. Fallon, Matt Noble, 2012 Implantable cardiac devices are life saving tools that have been in use for decades But when you or a loved one has been advised to get a pacemaker implantable cardioverter defibrillator ICD or cardiac resynchronization therapy CRT device where do you turn for practical information about what life with your device will be like The fact is that no single source provides patients and their families with the real life information they need and want Until now Understanding Your Pacemaker or Defibrillator What Patients and Families Need to Know fills this void with a wealth of useful information for patients who have or require an implantable device Written from a uniquely comprehensive perspective by three very diverse experts an experienced cardiologist who has worked with thousands of cardiac device patients and their families a certified cardiac device specialist who also specializes in patient psychology and a patient living with an implanted cardiac device this book explains everything you need to know about living with a pacemaker ICD or CRT device normal and abnormal heart function misperceptions about implantable devices what to expect during and after the procedure follow up care and possible complications and practicalities of living with an implanted device Using accessible understandable language Understanding Your Pacemaker or Defibrillator will answer your questions even the ones you didn't know to ask allay your fears and help you live a long and healthy life with your device [ICD Connection](#) Helen McFarland, 2014-09-12

The book delves into The Implantable Cardioverter Defibrillator. The Implantable Cardioverter Defibrillator is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into The Implantable Cardioverter Defibrillator, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of The Implantable Cardioverter Defibrillator.

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