

pacemaker icd technician training online

Pacemaker ICD Technician Training Online: A Pathway to a Rewarding Career

pacemaker icd technician training online is becoming an increasingly popular option for individuals looking to enter the field of cardiac device technology. With the rise of remote learning and the growing demand for skilled technicians who can manage pacemakers and implantable cardioverter defibrillators (ICDs), online training programs offer a flexible and comprehensive way to develop the necessary skills. Whether you're a healthcare professional seeking to expand your expertise or someone starting fresh in this specialized area, understanding what these training programs entail can help you make an informed decision.

Understanding the Role of a Pacemaker ICD Technician

Before diving into the specifics of pacemaker icd technician training online, it's important to grasp what the job entails. A pacemaker ICD technician is responsible for monitoring, programming, and maintaining cardiac devices that help manage abnormal heart rhythms. These devices, such as pacemakers and ICDs, play a critical role in preventing life-threatening arrhythmias by regulating heartbeats electronically.

Key Responsibilities

Technicians in this field typically work closely with cardiologists and electrophysiologists. Their duties include:

- Programming and adjusting pacemakers and ICDs to suit patients' needs
- Performing device interrogations to retrieve diagnostic data
- Assisting in device implantation procedures
- Educating patients about device function and care
- Troubleshooting device malfunctions and ensuring optimal performance

Given the complexity and importance of these tasks, proper training is essential to ensure patient safety and effective device management.

Why Choose Pacemaker ICD Technician Training Online?

The shift toward online education has transformed many healthcare training pathways, and pacemaker icd technician training online is no exception. This mode of learning provides several advantages that traditional in-person programs may not offer.

Flexibility and Convenience

One of the major benefits is the ability to study from anywhere at your own pace. For working professionals or those balancing family responsibilities, online courses allow learners to access lectures, simulations, and assessments on their schedule. This flexibility can make it easier to complete the program without interrupting your current job or lifestyle.

Access to Comprehensive Resources

Online training programs often include a rich variety of multimedia materials—videos, interactive modules, virtual labs, and forums—that can enhance understanding of complex topics like device programming and cardiac electrophysiology. Additionally, many courses provide downloadable reference guides and software tools used in real clinical settings.

Cost-Effectiveness

Training online often reduces costs associated with commuting, housing, and physical materials. Some programs also offer modular pricing or financial aid options, making the path to certification more affordable.

What to Expect from Pacemaker ICD Technician Training Online Programs

When exploring pacemaker icd technician training online, it's helpful to know what the curriculum generally covers and how the training is structured.

Core Curriculum Topics

A well-rounded training program will typically include:

- **Cardiac Anatomy and Physiology:** Understanding the heart's structure and electrical system is fundamental.
- **Electrophysiology Basics:** Study of electrical impulses and arrhythmia mechanisms.
- **Device Technology:** Insight into pacemakers, ICDs, and cardiac resynchronization therapy (CRT) devices.
- **Programming and Interrogation Techniques:** Hands-on practice with device software.
- **Patient Care and Safety:** Guidelines for monitoring and educating patients.
- **Regulatory and Ethical Considerations:** Compliance with healthcare standards and device protocols.

Practical Training and Hands-On Experience

Although the training is online, many programs incorporate virtual simulations that replicate device programming scenarios. Some courses may also arrange clinical internships or partnerships with hospitals, allowing students to gain real-world experience under supervision.

Certification and Exams

Most programs culminate in a certification exam that validates your competency as a pacemaker ICD technician. Certifications from recognized bodies enhance your credibility and employability in the healthcare sector.

Choosing the Right Online Training Program

Not all pacemaker icd technician training online programs are created equal. Selecting a course that aligns with your career goals and offers quality instruction is crucial.

Accreditation and Recognition

Look for programs accredited by reputable organizations in cardiac care or medical technology. Accreditation ensures the curriculum meets industry standards and that your certification will be recognized by employers.

Instructor Expertise

Research the qualifications of the instructors. Experienced professionals with clinical backgrounds in cardiac electrophysiology or biomedical device management typically provide higher-quality training.

Student Support and Resources

Good programs offer robust support, including access to tutors, technical assistance, and peer discussion groups. These resources can make your learning experience smoother and more interactive.

Reviews and Success Stories

Seeking feedback from alumni can provide insights into the program's effectiveness and how it helped others secure jobs or advance their careers.

Tips for Success in Online Pacemaker ICD Technician Training

Studying online requires discipline and effective strategies to maximize learning outcomes.

- **Create a Study Schedule:** Allocate consistent time slots for coursework and stick to them.
- **Engage Actively:** Participate in discussion forums, ask questions, and seek clarification whenever needed.
- **Practice Regularly:** Use simulation tools repeatedly to build confidence in device programming skills.
- **Connect with Mentors:** If possible, find experienced technicians or instructors who can guide you.
- **Stay Updated:** Cardiac device technology evolves rapidly, so keep abreast of the latest advancements

even after completing training.

Career Opportunities After Completing Training

Once certified, pacemaker ICD technicians can pursue roles in hospitals, cardiac clinics, device manufacturing companies, or home healthcare services. Job responsibilities may expand from device programming to clinical research, sales, or technical support. The demand for skilled technicians is expected to grow as cardiovascular diseases remain prevalent worldwide.

Embarking on pacemaker icd technician training online is a promising step toward joining a vital and dynamic healthcare field. By choosing the right program and dedicating yourself to mastering the technical and clinical aspects, you can build a career that not only offers professional satisfaction but also makes a real difference in patients' lives.

Frequently Asked Questions

What is pacemaker ICD technician training online?

Pacemaker ICD technician training online is an educational program designed to teach individuals how to install, maintain, and troubleshoot pacemakers and implantable cardioverter defibrillators (ICDs) through virtual courses and digital resources.

Who can benefit from pacemaker ICD technician training online?

Healthcare professionals such as biomedical technicians, cardiac device specialists, nurses, and medical students interested in cardiac device technology can benefit from this online training.

Are there certification programs available for pacemaker ICD technicians online?

Yes, several organizations offer certified pacemaker ICD technician training programs online that include coursework, practical simulations, and exams to validate skills.

What topics are covered in pacemaker ICD technician training online?

Topics typically include cardiac anatomy and physiology, device types and functions, programming and troubleshooting pacemakers and ICDs, patient safety, and regulatory compliance.

How long does pacemaker ICD technician training online usually take?

The duration varies depending on the program, but most courses range from a few weeks to several months, depending on the depth of training and certification requirements.

Can pacemaker ICD technician training online prepare me for hands-on work?

While online training provides foundational knowledge and virtual simulations, hands-on experience is essential; many programs recommend clinical internships or supervised practical training alongside online coursework.

What are the technical requirements for enrolling in online pacemaker ICD technician training?

Participants typically need a reliable internet connection, a computer or tablet, and sometimes specific software for simulations or virtual labs.

Are there any prerequisites for enrolling in pacemaker ICD technician training online?

Prerequisites may include a background in healthcare or biomedical fields, basic knowledge of cardiac anatomy, and sometimes prior certification in medical technology or related areas.

How can online pacemaker ICD technician training improve my career prospects?

Completing accredited online training can enhance your qualifications, making you eligible for specialized roles in cardiac device management, increasing job opportunities and potential salary growth.

Where can I find reputable pacemaker ICD technician training online programs?

Reputable programs can be found through accredited medical training institutions, professional organizations like the Association of Cardiac Device Professionals, and specialized e-learning platforms offering cardiac device technician courses.

Additional Resources

Pacemaker ICD Technician Training Online: Navigating the Future of Cardiac Device Education

pacemaker icd technician training online has emerged as a pivotal resource in the evolving landscape of cardiac healthcare technology. With the increasing prevalence of cardiac arrhythmias and heart failure, the demand for skilled technicians capable of managing implantable cardiac devices such as pacemakers and implantable cardioverter defibrillators (ICDs) continues to grow. This surge has fueled interest in accessible, flexible, and comprehensive training programs delivered through online platforms. But how effective are these programs in equipping technicians with the necessary skills, and what should prospective learners consider when choosing an online training course?

The Rise of Online Training for Pacemaker and ICD Technicians

The healthcare sector is witnessing a digital transformation, and education for specialized technicians is no exception. Traditionally, pacemaker and ICD technician training required in-person attendance at hospitals or technical institutions, where students gained hands-on experience with device programming, patient management, and troubleshooting. However, geographic limitations, scheduling conflicts, and recent global disruptions such as the COVID-19 pandemic have accelerated the shift toward online education.

Online training programs for pacemaker and ICD technicians now offer a blend of theoretical knowledge, virtual simulations, and remote mentorship. These courses typically cover device technology fundamentals, cardiac electrophysiology, device interrogation techniques, and patient safety protocols. Importantly, many programs also provide preparation for industry-recognized certifications, which are increasingly becoming prerequisites for employment.

Key Features of Online Pacemaker ICD Technician Training

When evaluating pacemaker ICD technician training online, several features distinguish effective programs from less comprehensive ones:

- **Curriculum Depth and Breadth:** A robust curriculum should encompass device anatomy, programming, troubleshooting, and clinical applications. It should also address emerging device technologies and software updates.
- **Interactive Learning Tools:** Use of video lectures, 3D device models, and virtual simulators enhances comprehension and practical skills without physical presence.
- **Expert Instruction:** Courses led by experienced electrophysiologists, biomedical engineers, or

certified device specialists offer authoritative guidance and real-world insights.

- **Certification Preparation:** Alignment with certification bodies such as the International Board of Heart Rhythm Examiners (IBHRE) ensures that training meets professional standards.
- **Flexible Scheduling:** Self-paced modules and asynchronous content enable technicians balancing employment or personal responsibilities to progress at their own rhythm.

Comparing Online and Traditional Training Modalities

The debate between online and traditional in-person training for pacemaker and ICD technicians is nuanced. Each method presents advantages and limitations, which prospective students should weigh carefully.

Advantages of Online Training

Online training excels in accessibility and convenience. Technicians from rural or underserved regions can access top-tier education without relocation. Moreover, digital platforms often offer updated content reflecting the latest device innovations and regulatory changes more rapidly than printed materials or static curricula.

Cost-efficiency is another factor. Online courses typically reduce expenses related to commuting, accommodation, and physical materials. Additionally, many programs provide modular learning paths, allowing students to focus on specific competencies or certifications relevant to their career goals.

Challenges and Limitations

Despite these benefits, the absence of hands-on experience in a clinical setting can be a drawback. Pacemaker and ICD programming involves intricate device interrogation and patient interaction, skills best honed through direct supervision. Some online programs attempt to mitigate this gap via virtual simulations; however, tactile familiarity with equipment and patient nuances remains crucial.

Furthermore, online learners must demonstrate strong self-discipline and time management skills to navigate courses successfully. The lack of immediate peer interaction may also limit opportunities for collaborative learning and networking.

Industry Certifications and Career Implications

Certification is often the gateway to professional recognition and employment opportunities for pacemaker and ICD technicians. The IBHRE offers certifications such as the Certified Cardiac Device Specialist (CCDS) that validate a technician's expertise in device management.

Many online training programs tailor their curricula to align with certification exam requirements. Candidates benefit from structured study guides, practice exams, and mentorship that facilitate exam readiness. Achieving certification not only enhances credibility but also correlates with higher salary prospects and job security.

Emerging Trends in Online Cardiac Device Technician Education

The future of pacemaker ICD technician training online is being shaped by advances in technology and educational methodology:

- **Augmented Reality (AR) and Virtual Reality (VR):** These immersive technologies are beginning to complement online training, offering realistic device handling experiences.
- **Artificial Intelligence (AI)-Driven Personalization:** Adaptive learning platforms can tailor content delivery based on individual progress and knowledge gaps.
- **Integration with Clinical Rotations:** Hybrid models combining online theoretical training with scheduled in-person clinical practicums aim to balance flexibility with practical skill acquisition.
- **Global Collaboration:** Online forums and webinars connect technicians worldwide, fostering knowledge exchange and professional networking.

Choosing the Right Online Training Program

Given the variety of offerings, selecting an appropriate pacemaker ICD technician training online program requires careful consideration of several factors:

1. **Accreditation and Reputation:** Verify the program's credentials and affiliations with recognized healthcare or technical institutions.

2. **Faculty Expertise:** Investigate the qualifications and clinical experience of instructors.
3. **Curriculum Relevance:** Ensure the course content reflects current industry standards and device technologies.
4. **Student Support Services:** Availability of mentoring, technical assistance, and career counseling enhances the learning experience.
5. **Cost and Financial Aid:** Compare tuition fees and explore scholarships or employer-sponsored education benefits.
6. **Alumni Outcomes:** Research graduate success rates in certification exams and employment placements.

In sum, pacemaker ICD technician training online represents a vital evolution in the education of healthcare professionals managing life-saving cardiac devices. While not without challenges, these programs expand access and flexibility, which are essential in an increasingly digital and globalized medical environment. As technology continues to advance, the integration of innovative instructional tools and hybrid learning models promises to further enhance the efficacy and appeal of online training for cardiac device technicians.

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pacemaker icd technician training online: Resilient Cyborgs Nelly Oudshoorn, 2020-04-02
This book examines how pacemakers and defibrillators participate in transforming life and death in high-tech societies. In both popular and medical accounts, these internal devices are often portrayed as almost magical technologies. Once implanted in bodies, they do not require any 'user' agency. In this unique and timely book, Nelly Oudshoorn argues that any discourse or policy assuming a passive role for people living with these implants silences the fact that keeping cyborg bodies alive involves their active engagement. Pacemakers and defibrillators not only act as potentially life-saving technologies, but simultaneously transform the fragility of bodies by introducing new vulnerabilities. Oudshoorn offers a fascinating examination of what it takes to become a resilient cyborg, and in the process develops a valuable new sociology of creating 'resilient' cyborgs.

pacemaker icd technician training online: The EHRA Book of Pacemaker, ICD, and CRT Troubleshooting Haran Burri, Carsten Israel, Jean-Claude Deharo, 2015-05-07 An essential companion for both the aspiring and practising electrophysiologist, The EHRA Book of Pacemaker,

ICD and CRT Troubleshooting assists device specialists in tackling both common and unusual situations that they may encounter during daily practice. Taking a case-based approach, it examines pacemakers, implantable cardioverter defibrillators and cardiac resynchronisation therapy. Much more than just a technical manual of device algorithms, the cases help readers to consolidate their technical knowledge, and improve their reasoning and observation skills so they are able to tackle device troubleshooting with confidence. The 70 cases are arranged in three sections by increasing levels of difficulty to walk readers through all the skills and knowledge they need in an easy to use and structured format. Each case contains a short clinical description and a device tracing followed by a multiple choice question. Answers are supplied with detailed annotations of the tracing and an in-depth discussion of the case, highlighting practical hints and tips as well as providing an overview of the technical function of devices. A useful summary of principal device features and functions is also included. The EHRA Book of Pacemaker, ICD and CRT Troubleshooting is the perfect companion for electrophysiologists, cardiology trainees and technical consultants working with device patients as well as for those studying for the EHRA accreditation exam in cardiac pacing. This print edition of The EHRA Book of Pacemaker, ICD, and CRT Troubleshooting comes with a year's access to the online version on Oxford Medicine Online. By activating your unique access code, you can read and annotate the full text online, follow links from the references to primary research materials, and view, enlarge and download all the figures and tables. Oxford Medicine Online is mobile optimized for access when and where you need it.

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pacemaker icd technician training online: 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

pacemaker icd technician training online: How-to Manual for Pacemaker and ICD Devices Amin Al-Ahmad, Andrea Natale, Paul J. Wang, James P. Daubert, Luigi Padeletti, 2018-03-20 A complete, how-to-do-it guide to planning, programming, implementing, and trouble-shooting today's pacemakers and other implantable cardiac devices Edited by a team of leading clinician-educators this is a practical, go-to reference for trainees and clinical staff who are new to or less experienced with the programming and management of implantable devices. It distills device best-practices into a single, quick-reference volume that focuses on essential tasks, common pitfalls, and likely complications. Each chapter follows a hands-on, how-to-do-it approach that helps readers quickly master even the most challenging device-related tasks such as programming and how to respond confidently when complications arise. Today's pacemakers and other implantable EP devices are to earlier versions what smart phones are to rotary phones. They are not only smaller and more comfortable; they offer complex programming options that allow clinicians to adapt a device to individual patient requirements. As they continue to become smaller, smarter, and more adaptable, these devices also become more challenging for clinicians to set up, manage and monitor. This unique, quick-reference guide dramatically reduces the learning curve for mastering this essential technology by giving doctors and technicians the how-to information they need. Focuses on tasks clinicians perform, including pre-implementation, planning, programming, management, troubleshooting, and more Shows how expert clinicians achieve optimal outcomes in their own labs with real-world examples Features more than 300 images, including ECGs, X-ray and fluoroscopy, images from device interrogation, intracardiac electrograms, and color electroanatomical maps Provides eight videos on an accompanying website demonstrating key tasks and techniques Also available in an eBook version, enhanced with instructional videos, How-to Manual for Pacemaker and ICD Devices is an indispensable tool of the trade for electrophysiologists, fellows in electrophysiology, EP nurses, technical staff, and industry professionals.

pacemaker icd technician training online: Cardiac Pacing for the Clinician Fred M. Kusumoto, Nora F. Goldschlager, 2007-09-21 Since the publication of the first edition of Cardiac Pacing for the Clinician, the use of implantable cardiac devices has expanded rapidly. The main focus of this volume is to provide a practical discussion of the nuts and bolts of implantable cardiac devices. The target audience will be cardiologists in practice and in training as well as nurses, technologists and industry. In addition, the book will benefit physicians preparing for certification. This new edition will become a valuable resource to the general cardiologist and cardiology fellow by providing practical information for managing patients with complex cardiac devices.

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pacemaker icd technician training online: The EHRA Book of Pacemaker, ICD and CRT

Troubleshooting Vol. 2 Haran Burri, Jens Brock Johansen, Nicholas Linker, Dominic AMJ Theuns, 2022-03-10 Following the success of the first volume of the EHRA Book of Pacemaker, ICD and CRT Troubleshooting a second volume with new cases has now been developed. A timely addition to the European Society of Cardiology, as device therapy has seen many new developments since the first volume, with the advent of leadless pacing, conduction system pacing, and subcutaneous ICDs, amongst other novelties. These new technologies are covered in the book, as are general device troubleshooting issues which were not presented in the first volume. Maintaining an identical format for the cases in this volume, which are arranged in separate sections on pacing (27 cases), ICDs (23 cases), and CRT (20 cases), each section is arranged in a logical manner to guide the reader and help build on knowledge gained from reading the previous cases. As with the first volume, the content will help those planning on sitting the EHRA Cardiac Pacing exam. There is significant detail regarding specific algorithms of different device manufacturers that will also appeal to general cardiologists, nurses, and allied professionals performing device follow-up. As with the first volume, this book will serve not only to further your technical knowledge, but also to sharpen your skills of observation and reasoning.

pacemaker icd technician training online: Implantable Cardiac Pacemakers and Defibrillators Anthony W C Chow, Alfred E Buxton, 2008-06-09 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.

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pacemaker icd technician training online: *A Case-Based Approach to Pacemakers, ICDs, and Cardiac Resynchronization: Questions for Examination Review and Clinical Practice [Volume 1]* Paul A. Friedman, Melissa A. Rott, Anita Wokhlu, Samuel J. Asirvatham, David L. Hayes, 2013-05-15 This book is for any individual who sees patients with implantable devices, or who will be taking an examination related to device management. Many caregivers working in the field of medicine find that one of the best ways to learn is by working through clinical cases and for many individuals it's even more helpful to work through the examples as unknowns. This is especially true in the arena of implantable cardiac devices, that is, devices for the management of congestive heart failure. In an effort to provide this experience, experts from the Mayo Clinic, Rochester, MN, have produced two

volumes of case studies that encompass variations of normal and abnormal function of pacemakers, ICDs, and CRT devices. The texts have been written collaboratively by 5 clinicians with differing backgrounds in an effort to present the cases in such a way that they are applicable to a variety of caregivers. Cases for this book were selected based on clinical relevance, and their usefulness for illustrating general principles, practical tips, or interesting findings in device practice, with a goal of advancing general concepts in device management. The first volume includes introductory and intermediate level difficulty cases. The second volume includes additional intermediate cases as well as advanced/multipart cases. Electronic versions of this book will be made available with additional features to facilitate navigation of the clinical material.

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pacemaker icd technician training online: *Cardiac Pacemakers Step-by-Step* S. Serge Barold, Roland X. Stroobandt, Alfons F. Sinnaeve, 2003-12-01 Over the years we have heard many complaints that there is no very simple book on cardiac pacing for real beginners. We have also heard that all the books on cardiac pacing are too complicated and impossible to understand by beginners. Many have voiced the hope that one day someone would write a book in the same style as Dubin's book on basic electrocardiography which is a huge bestseller with well over a million sold in many languages. A 'Dummy' book on cardiac pacing would appeal to nurses, cardiology technicians, medical students and pacemaker companies for training their staff. We started with the assumption that the reader would know the principles of electrocardiography as in Dubin's book but nothing about cardiac pacing. We carefully studied the Dubin book and believe that we have improved his teaching method. The book consists of numbered illustrations each illustrating a concept in the form of a diagram drawn professionally. We have been careful to make the artwork simple for easy comprehension. Each illustration will occupy a page and have several lines of text below it. We have already completed most of these. It is essential that there are all in color, this is a unique selling point. The 3 authors have had vast experience in the field. Dr Barold has published 10 books on cardiac pacing and wrote the section on cardiac pacing in the 4th and 5th Edition of Braunwald's

book, Heat Disease. S. Serge Barold, Roland Stroobandt and Alfons Sinnaeve Content: The plates depicting a concept with occupy 1 pages. Each plate consists of a diagram and a short text. All diagrams are in color. In black and white they would lose their teaching value There will be approx 200 plates. There will be approx 100 electrocardiograms. There will be a glossary, appendices and index

pacemaker icd technician training online: Implantable Cardiac Devices Technology

David Korpas, 2014-05-13 Development in a majority of medicine branches today is based on technological advancement. This is the case in cardiology, where medical devices designed to correct heart rhythm – pacemakers, cardioverters-defibrillators and biventricular systems – are implanted in order to help a sick heart. Medical pacing devices today are only developed and produced globally by a several producers who make different technical solutions, algorithms, system parameters etc. The book *Implantable Cardiac Devices Technology* is targeted at biomedical, clinical engineers, technicians in practice, students of biomedical disciplines, and all medical staff who are required to understand the basics of pacing technology. The book is comprised of fourteen chapters that are further subdivided according to specific topics. Chapters dealing with basic heart anatomy, physiology and arhythmology are included for the sake of comprehensiveness. Chapters avoid the description of special functions, but cover general procedures and parameters common for the systems of all producers. The book is intended to serve as a monothematic textbook. In order to make the text comprehensible and well arranged for a reader, references to professional literature are only provided once in a respective chapter.

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