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Anatomy For Cardiac Electrophysiologists A Practical Handbook

**An Atlas of Radioscopic Catheter
Placement is unique, and has been
conceived as a handy reference**

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guide for students, interventional cardiologists, nurses and electrophysiology technicians. It includes plenty of schemes and X-ray images, and every EP correct catheter positioning is explained step by step through detailed descriptions of the necessary

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**manoeuvres, including some
"tricks" brought about by the
experience.**

**Anatomy for Cardiac
Electrophysiologists A Practical
Handbook Cardiotext Pub
From senior electrophysiologist
and world-class educator George**

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Klein, a fully illustrated guide with over 100 intracardiac tracings and figures that allow the physician to approach electrophysiologic problems effectively and systematically. The book is especially focused on electrophysiological maneuvers

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and provides a clear and understandable guide to their proper selection and interpretation using abundant clinical examples. Defines the integral role for "traditional" electrogram (EGM) analysis in order to understand the mechanism of a tachycardia. It goes

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without saying that a correct arrhythmia diagnosis is a prerequisite to catheter ablation regardless of the presence of sophisticated mapping and imaging technologies. Electrophysiological maneuvers are fundamental to this process, and proper selection and

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interpretation of maneuvers constitute a core skill of the electrophysiologist. In this volume, we make the case that most maneuvers are fundamentally similar in principle and can be understood by appreciating a few basic physiological and anatomical

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principles. The art lies not in a comprehensive knowledge by rote of every maneuver or its application, but rather a systematic approach using common principles. We illustrate this by showing abundant examples and emphasizing the "game plan,"

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including checklists that can be applied to virtually any maneuver.

—George J. Klein In my opinion, this book should be on the shelf of every electrophysiologist trainee as well as every clinical cardiac electrophysiologist. It is a classic, like its editor. Dr. Klein deserves

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**high praise for organizing his and his colleagues' clinical experiences and thought processes into a concise, practical text that should be part of all training programs in electrophysiology. —From the foreword by Mark E. Josephson, MD
Mayo Clinic Electrophysiology**

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**Manual explores the various
contemporary techniques for
diagnosis, imaging, and physiology-
based therapeutic ablation.**

Third Edition

**Mathematical Cardiac
Electrophysiology
Intracardiac EGMs**

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**Anatomy for Cardiac
Electrophysiologists
Electrophysiological Maneuvers for
Arrhythmia Analysis
Understanding Cardiac
Electrophysiology**

Clinically useful approaches for
the effective diagnosis and

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ablation of arrhythmias. This updated and expanded Hands-On Ablation, Second Edition is a comprehensive and unique book that gives an inside look at leading electrophysiology labs throughout the world and

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provides the reader with useful information and tips for ablation procedures directly from the experts themselves. ** Each chapter highlights the practical knowledge of the expert author with a specific procedure. **

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"Hands-on" detail that helps translate new ideas and innovations into practice for the most state-of-the-art patient care.
** In-depth "how-to" approaches are described for over 50 procedures, including ablations

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for supraventricular tachycardia, atrial fibrillation, and ventricular tachycardia. ** A valuable reference for every electrophysiology lab to help differentiate diagnostic challenges. ** New in the Second

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Edition: ** Chapters detailing the latest complex approaches to ablation of both atrial and ventricular arrhythmias. ** A section on approaches to left atrial appendage closure. ** An update on new technologies used

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for arrhythmia treatment. ** 14 new chapters (59 total), 34 new videos (170 total), and 210 new figures (550 total). Purchase of this book includes online access to full text, figures, and videos.

This issue of Cardiac

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Electrophysiology Clinics, Guest Edited by Drs. Jason Bradfield and Kalyanam Shivkumar, is dedicated to Epicardial Interventions in Electrophysiology. This is one of four issues selected each year by the series Consulting Editors,

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Ranjan K. Thakur and Andrea Natale. Topics include, but are not limited to, Anatomy of the Pericardial Space, Techniques for Percutaneous Access, Perioperative Imaging to Guide Epicardial Mapping and Ablation,

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Epicardial Ablation of Idiopathic
Ventricular Tachycardia,
Epicardial Ablation of Ischemic
Ventricular Tachycardia,
Epicardial Ablation of Non-
ischemic Ventricular Tachycardia,
Epicardial Ablation of

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Arrhythmogenic Right Ventricular
Cardiomyopathy, Epicardial
Ablation of Ventricular
Arrhythmia secondary to Brugada
Syndrome, Epicardial Ablation of
Supraventricular Tachycardia,
Epicardial Ablation of Atrial

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Fibrillation, Hybrid Surgical
Epicardial Ablation, Epicardial
Ablation via the Arterial and
Venous System, Epicardial
Ablation Biophysics and novel
Radiofrequency Energy Delivery
Techniques, Epicardial Ablation

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Complications, and The Future of
Epicardial Interventions.

This book is devoted to computer-
based modeling in cardiology, by
taking an educational point of
view, and by summarizing
knowledge from several,

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commonly considered delimited areas of cardiac research in a consistent way. First, the foundations and numerical techniques from mathematics are provided, with a particular focus on the finite element and finite

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differences methods. Then, the theory of electric fields and continuum mechanics is introduced with respect to numerical calculations in anisotropic biological media. In addition to the presentation of

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digital image processing techniques, the following chapters deal with particular aspects of cardiac modeling: cardiac anatomy, cardiac electro physiology, cardiac mechanics, modeling of cardiac electro

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mechanics. This book was written for researchers in modeling and cardiology, for clinical cardiologists, and for advanced students.

This volume of intracardiac tracings builds on our first book,

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Essential Concepts of
Electrophysiology and Pacing
through Case Studies, that guides
the reader in developing and
refining the key skill of analyzing
electrophysiologic recordings.
Over 60 cases with a focus on

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intracardiac EGMs are presented as board exam cases and questions. Tracings are framed by a question, followed by annotated tracings, and a discussion of the correct and potential answers. Cases present a full range of

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difficulty from simple to advanced. This book will provide a valuable review for a wide variety of professionals — physicians, associated professionals, nurses and technicians — preparing for certification and re-certification

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examinations in electrophysiology.
Clinical Handbook of Cardiac
Electrophysiology
Mayo Clinic Electrophysiology
Manual
Clinical Cardiac CT
ECG Interpretation: From

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Pathophysiology to Clinical
Application
Cardiac Mapping
Pulmonary Vein Recordings: A
Practical Guide to the Mapping
and Ablation of Atrial Fibrillation,
Third Edition

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Pulmonary Vein Recordings A
Practical Guide to the Mapping
and Ablation of Atrial
Fibrillation is an essential
reference for
electrophysiologists, fellows-in-
training, and all those involved

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in the mapping and ablation of atrial fibrillation. Extensively illustrated with annotated multichannel tracings, this revised and updated edition adds 30 new tracings that illustrate important practical

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points and useful tips that will facilitate the interpretation of electrogram recordings obtained by circumferential mapping, leading to successful pulmonary vein isolation. PV electrograms from rare and interesting cases

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are also included.

Edited by world-renowned
cardiologist Kenneth
Ellenbogen, MD, and
collaboratively written by five
expert physicians and allied
health professionals, Essential

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Concepts of Electrophysiology and Pacing through Case Studies guides the reader in developing and refining the key skill of analyzing tracings – one of the most essential proficiencies in

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electrophysiology. With 60 cases comprising more than 140 tracings, figures, and tables and accompanied by multiple-choice questions, this scholarly yet eminently practical text delineates the core concepts

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and brings the reader directly into each case, offering EP physicians and fellows, device representatives and engineers, and other allied health professionals a fundamental understanding of the most

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important concepts on which the practice of EP is based.

Appropriate for professionals with different levels of proficiency, Essential Concepts of Electrophysiology and Pacing through Case Studies includes a

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wide array of basic to advanced tracings that range from surface ECGs to pacemaker and ICD recordings to complex intracardiac tracings that will prove vital in strengthening and sharpening practical skills.

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Relevant references included with each case allow the reader to delve even deeper into the principles presented and will be invaluable in helping to prepare for IBHRE, ABIM, and other EP certification exams.

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This chapter aims to provide basic anatomical knowledge for the interventional electrophysiologists to understand catheter placement and ablation targets. We begin with the location of the heart

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inside the mediastinum, position of cardiac chambers, pericardial space and neighboring structures of the heart. We continue with the right atrium and important structures inside it: sinus node, cavotricuspid

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isthmus, Koch's triangle and interatrial septum with fossa ovalis. A special part of this chapter is dedicated to the left atrium and pulmonary veins with the venoatrial junction, important structures for

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catheter ablation of atrial fibrillation. We finish our description with both ventricles with outflow tracts and the coronary venous system.

This new atlas represents a fresh fresh approach to cardiac

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anatomy, providing images of unparalleled quality, along with explanatory text, to show in vivo heart anatomy and explain the clinically relevant underlying anatomic concepts. In spite of amazing proliferation

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of information on the Internet and multiple websites filled with up-to-date information, there is no similarly detailed and systematic compilation of morphological imaging with CT. Organized for both systematic

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learning and to serve as a quick, yet detailed reference for specific clinical questions, this book is an invaluable resource for medical students and residents, cardiologists, and especially surgeons,

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interventionalists and
electrophysiologists, who
depend on ever more detailed
imaging support in order to
successfully perform
increasingly complex coronary
and noncoronary structural

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interventions and other
procedures.

Cardiac Electrophysiology
Methods and Models
Anatomy and Function
Anatomy for Cardiac
Electrophysiologists: A

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Human Anatomy
A Guide for Cardiac
Electrophysiologists
Basic Concepts and Clinical
Applications

This highly visual handbook integrates

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cardiac anatomy and the state-of-the-art imaging techniques used in today's catheter or electrophysiology laboratory, guiding readers to a comprehensive understanding of both normal cardiac anatomy and the structures associated with complex heart disease. Well organized, easily navigable, and superbly illustrated in a landscape

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format, this unique text invites the reader on a visual intracardiac journey via stunning images and schematic illustrations, including such imaging modalities as computed tomography, magnetic resonance imaging, ultrasound, radiogra.

This book provides cutting-edge theories

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and techniques for catheter ablation of all kinds of tachyarrhythmias. Catheter ablation has been a main therapeutic method for tachyarrhythmias for more than thirty years now, and countless operations have been successfully performed. It is crucial for electrophysiologists to diagnose arrhythmia

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mechanisms correctly and to optimize ablation methods, especially in Japan, one of the world's fastest-aging countries and where many of this book's authors are based. The volume is divided into eight parts. The first three parts present the basic theories and novel insights essential to diagnosing and performing catheter

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ablations. In turn, the latter five parts highlight practical ablation methods in the context of frequently encountered arrhythmias cases, as well as rare ones such as chanellopathies. Written for electrophysiologists who treat patients with cardiac arrhythmias, the book offers readers essential tips and tricks for the

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optimal treatment of arrhythmias.

Offering a clear and consistent framework for recognition, diagnosis, and treatment of a wide range of cardiac arrhythmia disturbances, *Clinical Cardiac Electrophysiology: A Practical Guide* covers the fundamental analytical skills needed in this challenging area. This

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portable, highly accessible handbook focuses on the basics of clinical electrophysiology— how and when to perform an electrophysiology study as well as principles of ablation and other invasive therapies—all in a succinct and modern format. Focuses on using an effective, consistent, decision-making process in

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recognizing, diagnosing, and treating rhythm disturbances of the heart, including supraventricular tachycardias, atrial fibrillation, ventricular tachycardias, and other rapid or irregular heartbeats. Covers anatomic fundamentals of cardiac structures, clinical indications for electrophysiology studies, practicalities and

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methodology of performing an electrophysiology study, and problems encountered during the procedure. Includes quick clinical summaries and more than 180 illustrations: electrophysiology recordings, ECGs, cardiac anatomy, radiographic images, and electroanatomic maps. Discusses key topics such as

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mechanisms of arrhythmias, conventional and electroanatomic mapping systems, fundamentals of cardiac mapping, biophysics of catheter ablation, and much more. Offers real-world guidance on contemporary practice from leading cardiac electrophysiologists Drs. Demosthenes G Katritsis and Fred

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Morady, with input from a multinational team of electrophysiology fellows and cardiologists. Ideal as a stand-alone resource or used in conjunction with Dr. Douglas Zipes' renowned textbook, *Cardiac Electrophysiology: From Cell to Bedside*.

Interventional Cardiac Electrophysiology is

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the first and only comprehensive, state-of-the-art textbook written for practitioners in multiple specialties involved in the care of the arrhythmia patient. Encompassing the entire field of interventional therapy for cardiac rhythm management, from basic science to evidence-based medicine to future directions, topics include:

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Technology and Therapeutic Techniques –
EP techniques; imaging and radiologic
technology; device and ablation
technology; drug therapy. Interventional
Electrophysiologic Procedures –
Diagnostic and physiologic EP techniques;
mapping in percutaneous catheter and
surgical EP procedures; catheter and

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surgical ablation; device implantation and management. Clinical Indications and Evidence-based Outcomes Standards – For medical and surgical EP interventions for arrhythmias. New Directions in Interventional Electrophysiology – Hybrid therapy for atrial and ventricular arrhythmias and staged therapy. This book

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will be essential reading for clinicians and researchers that form the health care team for arrhythmia patients: cardiologists, adult and pediatric clinical electrophysiologists, interventional electrophysiologists, cardiac surgeons practicing arrhythmia surgery, allied health care professionals, pharmacologists, radiologists and

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anesthesiologists evaluating arrhythmia patients, and basic scientists from the biomedical engineering and experimental physiology disciplines. Professor Sanjeev Saksena has been involved in this arena for over three decades and has brought his experience to this textbook, assembling editorial leadership from medical and

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surgical cardiology to provide a global perspective on fundamentals of medical practice, evidence-based therapeutic practices, and emerging research in this field. This book includes 95 videos.

A Multidisciplinary Approach
Cardiac Anatomy for the
Electrophysiologist with Emphasis on the

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Left Atrium and Pulmonary Veins

Interventional Cardiac Electrophysiology

A Current Approach on Cardiac

Arrhythmias

Catheter Ablation

Practical Cardiac Electrophysiology

About: Practical Electrophysiology

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is a detailed presentation of the fundamental aspects of electrophysiology written by an internationally recognized group of experts. To fully engage the reader and to help facilitate the learning process, 77 case studies covering

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ECGs, SVTs, atrial fibrillation, ventricular tachycardia and more are included not only with questions, but also with a full discussion of the answers. From the Preface: A plethora of significant new research and

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findings makes it difficult to keep up with the ever-changing field of electrophysiology. Despite these constant advances, there are fundamental aspects of the science that need to be understood by students of electrophysiology. This

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book was created to educate and uses cases and questions to keep the reader engaged. Chapter and case topics were chosen so that the information presented is useful for years to come. My associate editors and I are hopeful that this book

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will prove a useful tool for those interested in the field of electrophysiology. We also are very grateful to all the contributing authors for spending their time and effort to help create this handy but comprehensive and interesting

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work. Jasbir Sra, Milwaukee

*The expanded guide to cardiac
mapping The effective diagnosis
and treatment of heart disease may
vitaly depend upon accurate and
detailed cardiac mapping.*

However, in an era of rapid

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technological advancement, medical professionals can encounter difficulties maintaining an up-to-date knowledge of current methods. This fifth edition of the much-admired Cardiac Mapping is, therefore, essential, offering a level

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of cutting-edge insight that is unmatched in its scope and depth. Featuring contributions from a global team of electrophysiologists, the book builds upon previous editions' comprehensive explanations of the mapping,

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imaging, and ablation of the heart.

*Nearly 100 chapters provide
fascinating accounts of topics
ranging from the mapping of
supraventricular and
ventricular arrhythmias, to
compelling extrapolations of how*

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the field might develop in the years to come. In this text, readers will find: Full coverage of all aspects of cardiac mapping, and imaging Explorations of mapping in experimental models of arrhythmias Examples of new

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*catheter-based techniques Access to
a companion website featuring
additional content and illustrative
video clips Cardiac Mapping is an
indispensable resource for
scientists, clinical
electrophysiologists, cardiologists,*

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and all physicians who care for patients with cardiac arrhythmias. In the fast paced world of clinical training, students are often inundated with the what of electrophysiology without the why. This new text is designed to tell the

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story of electrophysiology so that the seemingly disparate myriad observations of clinical practice come into focus as a cohesive and predictable whole. Presents a unique, conceptually-guided approach to understanding the

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movement of electrical current through the heart, the impact of various disease states and the positive effect of treatment Reviews electrophysiologic principles and the analytic tools which, when combined with a firm grasp of EP

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*mechanisms, allow the reader to
think through any situation*

*Presents the mathematics necessary
for the practice of cardiac
electrophysiology in an accessible
and understandable manner*

Contains accompanying video clips,

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*including computer simulations
showing the flow of electrical
current through the heart, which
help explain and visualise concepts
discussed in the text Includes
helpful chapter summaries and full
color illustrations aid*

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comprehension

*Radiofrequency Catheter Ablation
of Cardiac Arrhythmias has been
so extensively updated for its third
edition that the book now features a
new title: Catheter Ablation of
Cardiac Arrhythmias: Basic*

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Concepts and Clinical

*Applications. The editors bring you
21 polished chapters, each
updating the fundamentals and
progressing to advanced concepts,
providing state-of-the-art
knowledge with highly relevant*

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*material for experienced
electrophysiologists as well as
fellows in training. This
streamlined new edition features: •
Two new editors, both widely
published and leaders in the field of
catheter ablation • 21 instead of 39*

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chapters, achieved by focusing on primary topics of broad interest and assimilating information from a wide range of sources • Fewer authors, chosen for their recognized contributions to the topics under discussion, providing

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a more integrated and coherent approach • Anatomic insights from leading pathologist Siew Yen Ho, integrated with new information from imaging technologies Each chapter dealing with ablation of a specific arrhythmia features the

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*author's personal approach to
ablation of the arrhythmia,
including practical "how-to" tips,
and a review of potential pitfalls.
Alternate approaches and
variations are succinctly
summarized. Original figures and*

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*drawings illustrate specific
approaches to improve the usability
of the book.*

Hands-on Ablation

*A Conceptually Guided Approach
Electrophysiological Foundations
of Cardiac Arrhythmias*

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*Essential Concepts of
Electrophysiology through Case
Studies: Intracardiac EGMs
An Essential Introduction to
Cardiac Electrophysiology
Practical Interventional Cardiology*

Over the last decade, there has been

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a tremendous improvement in our understanding of basic cardiac electrophysiology. Most introductory ECG books teach via pattern recognition and do not incorporate new pathophysiologic information. There is a great need for a simple book that teaches electrocardiography

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from a pathophysiologic basis. The proposed paperback book will be small format, concise, and 200-pages in length. It can be utilized as a reference - chapter by chapter or read throughout for an overview. Each chapter will feature ten questions that will provide a chapter review. Ten case

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studies will be highlighted at the end of the book that will integrate the multiple principles of electrocardiography.

"Anatomia clavus et clavis medicinae est." Anatomy is a fundamental science that studies the structure of the human body from ancient times. Over time, the discipline constantly

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expands with recent progress that has been produced in researching the human body. So, new methods of researching were incorporated in the anatomy development: plastic materials injections, plastination, computed techniques of sectional bodies, and embryology. Anatomic

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sections like macroscopic, mesoscopic, microscopic, and public anatomies; radiologic anatomy; computed anatomy; radiologic anatomies; and clinical anatomy contribute to realize a very complex discipline that represents the base of learning medicine.

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This book provides a detailed summary of all aspects of cardiac electrophysiology, presented in an easy to use handbook. For each arrhythmia the aetiology, classification, clinical presentation, mechanism, and electrophysiology is set up (including precise set up and ablation

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parameters) and trouble-shooting are presented and demonstrated using interesting images, fluoroscopy images, ECG's and electrograms. The overall aim of this book is to provide a logical and practical approach to cardiac arrhythmia management. It acts as a useful resource and,

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importantly, helps to promote this subspecialty. This book is aimed at cardiac electrophysiologist's, fellows, cardiologists, physicians, family practitioners, cardiology trainees, students, allied professionals and nurses. Given its succinct summary of electrophysiology is a useful reference

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guide for the electrophysiology laboratory. It is aimed at an international audience and provides an important guide for those studying for all heart rhythm exams.

Cardiovascular disease is the major cause of mortality and morbidity in the Western Hemisphere. While significant

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progress has been made in treating a major sub-category of cardiac disease, arrhythmias, significant unmet needs remain. In particular, every day, thousands of patients die because of arrhythmias in the US alone, and atrial fibrillation is the most common arrhythmia affecting millions of

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patients in the US alone at a given time. Therefore, there is a public need to continue to develop new and better therapies for arrhythmias. Accordingly, an ever increasing number of biomedical, pharmaceutical, and medical personnel is interested in studying various aspects of

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arrhythmias at a basic, translational, and applied level, both in industry (ie Biotech, Pharmaceutical and device), and in academia. Not only has our overall understanding of molecular bases of disease dramatically increased, but so has the number of available and emerging molecular,

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pharmacological or device treatment based therapies. This practical, state-of-the art handbook will summarize and review key research methods and protocols, their advantages and pitfalls, with a focus on practical implementation, and collaborative cross-functional research. The volume

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will include visual and easy-to-use graphics, bulleted summaries, boxed summary paragraphs, links to reference websites, equipment manufacturers where appropriate, photographs of typical experimental setups and so forth, to keep this book very focused on practical methods and

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implementation, and yet, provide enough theory that the principles are clearly understood and can be easily applied.

Catheter Ablation of Cardiac
Arrhythmias

A Bridge Between Basic Mechanisms
and Clinical Electrophysiology

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Epicardial Interventions in
Electrophysiology An Issue of Cardiac
Electrophysiology Clinics, E-Book
A Practical Guide
Computational Cardiology
A Practical Handbook
A comprehensive and state-of-the-

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art reference on percutaneous
epicardial interventions for clinical
cardiac electrophysiologists.

This concise collection of
electrophysiological facts prepares
you to face the clinical questions
surrounding arrhythmia and

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conduction disorders with confidence. Clear and direct, the book offers: succinct factual information supported by illustrations, tables, and references self-assessment questions for each chapter, to test your knowledge of

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the area Essential Cardiac

Electrophysiology summarizes the fundamental information that forms the basis of the modern approach to cardiac arrhythmias, from an explanation of the electrophysiologic effects of cardiac ion channel activity

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to the latest information on available implantable defibrillators. All members of the cardiac care team will benefit from keeping this valuable guide close at hand.

A comprehensive and state-of-the-art reference on percutaneous

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epicardial interventions for clinical cardiac electrophysiologists. “ In Percutaneous Epicardial Interventions, Drs. d ’ Avila, Aryana, Reddy, and Marchlinski, bring together experts from around the world to summarize the

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knowledge gained and state of the art. These chapters are valuable, not only to practitioners who work in the pericardial space but also provides important anatomic, physiologic, and pathophysiologic insights valuable to all students of

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cardiac electrophysiology. ” -

William G. Stevenson, MD, from
the Preface “ In this breakthrough
textbook edited and written by the
inventors and experts, the reader
will appreciate the historical
evolution, pertinent technical

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aspects and relevant anatomy, and review the growing knowledge base of epicardial substrate characteristics implicated in human VT. This is the first authoritative compilation dedicated to epicardial interventions and is a must-read for all students of

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cardiac anatomy, complex ablation,
and interventional cardiology. ”

Roderick Tung, MD, from the
Foreword

This book covers the main
mathematical and numerical models
in computational electrocardiology,

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ranging from microscopic membrane models of cardiac ionic channels to macroscopic bidomain, monodomain, eikonal models and cardiac source representations. These advanced multiscale and nonlinear models describe the

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cardiac bioelectrical activity from the cell level to the body surface and are employed in both the direct and inverse problems of electrocardiology. The book also covers advanced numerical techniques needed to efficiently

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carry out large-scale cardiac simulations, including time and space discretizations, decoupling and operator splitting techniques, parallel finite element solvers. These techniques are employed in 3D cardiac simulations illustrating the

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excitation mechanisms, the anisotropic effects on excitation and repolarization wavefronts, the morphology of electrograms in normal and pathological tissue and some reentry phenomena. The overall aim of the book is to present

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rigorously the mathematical and numerical foundations of computational electrocardiology, illustrating the current research developments in this fast-growing field lying at the intersection of mathematical physiology,

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bioengineering and computational
biomedicine. This book is addressed
to graduate student and researchers
in the field of applied mathematics,
scientific computing, bioengineering,
electrophysiology and cardiology.

Intracardiac Echo Imaging in Atrial

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and Ventricular Arrhythmia

Ablation, An Issue of Cardiac

Electrophysiology Clinics, E-Book

Advanced Management of Atrial

Fibrillation and Ventricular

Tachycardia

A Computed-Tomography-Based

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Atlas and Reference

An Atlas of Radioscopic Catheter

Placement for the

Electrophysiologist

Clinical Cardiac Electrophysiology -

E-Book

Intracardiac Echocardiography in

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Interventional Electrophysiology

Comprehensive guide to cardiac electrophysiology covering diagnosis and management of different types of arrhythmia. Highly illustrated with nearly 300 images and tables.

The breadth and range of the topics covered, and the consistent

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organization of each chapter, give you simple but detailed access to information on anatomy, diagnostic criteria, differential diagnosis, mapping, and ablation. the book includes a unique section on troubleshooting difficult cases for each arrhythmia, and the use of tables,

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illustrations, and high-quality figures is unmatched among publications in the field.

Rapid advancements in cardiac electrophysiology require today ' s health care scientists and practitioners to stay up to date with new information both at the bench and at the bedside.

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The fully revised 7th Edition of Cardiac Electrophysiology: From Cell to Bedside, by Drs. Douglas Zipes, Jose Jalife, and William Stevenson, provides the comprehensive, multidisciplinary coverage you need, including the underlying basic science and the latest clinical advances in the

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field. An attractive full-color design features color photos, tables, flow charts, ECGs, and more. All chapters have been significantly revised and updated by global leaders in the field, including 19 new chapters covering both basic and clinical topics. New topics include advances in basic

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science as well as recent clinical technology, such as leadless pacemakers; catheter ablation as a new class I recommendation for atrial fibrillation after failed medical therapy; current cardiac drugs and techniques; and a new video library covering topics that range from basic mapping (for the

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researcher) to clinical use (implantations). Each chapter is packed with the latest information necessary for optimal basic research as well as patient care, and additional figures, tables, and videos are readily available online. New editor William G. Stevenson, highly regarded in the EP

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community, brings a fresh perspective to this award-winning text.

This issue of Cardiac Electrophysiology Clinics, Guest Edited by Drs. Fermin C. Garcia, Luis C. Saenz, and Pasquale Santangeli, is dedicated to Intracardiac Echo Imaging in Atrial and Ventricular

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Arrhythmia Ablation. This is one of four issues selected each year by the series Consulting Editors, Ranjan K. Thakur and Andrea Natale. Topics include, but are not limited to: How to use intracardiac echography to recognize normal cardiac anatomy, Intracardiac echography to guide

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catheter ablation of ventricular
arrhythmias in ischemic
cardiomyopathy, Intracardiac
echography to guide ablation of
parahisian arrhythmias, Utility of ICE
to guide transseptal catheterization for
different EP procedures, Intracardiac
echography to guide catheter ablation

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of atrial fibrillation, Role of intracardiac echography for transcatheter occlusion of left atrial appendage, Intracardiac echography to guide catheter ablation of idiopathic ventricular arrhythmias, Intracardiac echography to guide catheter ablation of ventricular arrhythmias in non-ischemic

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cardiomyopathy, Intracardiac
echography to guide mapping and
ablation of arrhythmias in congenital
heart disease patients, Prevention and
early recognition of complications
during catheter ablation by
Intracardiac echography, Intracardiac
echography to evaluate

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radiofrequency lesion creation and
Image integration using intracardiac
echography and 3-D reconstruction for
mapping and ablation of atrial and
ventricular arrhythmias.

With Self-Assessment

Revisiting Cardiac Anatomy

Reviews and Medical Advances

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Intracardiac Echocardiography:
The Experts' Approach
Essential Concepts of
Electrophysiology and Pacing through
Case Studies

***This book provides
undergraduate and postgraduate
students with an accessible and***

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comprehensive overview of the fascinating area of cardiac electrophysiology. Using plain language and well-designed illustrations, it attempts to overcome the preconceptions of the subject as difficult to

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approach, given the complexity of intricate electrical cellular processes within the human heart. Based on lectures presented to intercalating BSc medical students, this book has been designed with the

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undergraduate in mind, but offers enough scope to be worthwhile at the postgraduate level. Readers of this book will feel more confident and at ease with electrical concepts and the important physiological

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mechanisms that govern the initiation and regulation of the heartbeat. This volume intends to bridge that difficult region between basic undergraduate lecture notes and original papers in an approachable way. It will be

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***useful to students studying
medicine, physiology,
pharmacology, pharmacy and
biology, particularly where their
curricula includes not only
cardiac physiology, but also
neurobiology and muscle***

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physiology.

This new and comprehensively revised third edition of Practical Interventional Cardiology, led by an eminent UK Cardiologist and supported by contributing authors from around the world,

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discusses the different interventional procedures by context and addresses current guidelines and ongoing trials, including European experience with non-FDA approved devices. It represents an extended

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***practical reference for the
Interventional Cardiologist,
Fellows in training, catheter
laboratory Nursing and Technical
staff as well as the non-invasive
Cardiologist and General
Physician. Rather than providing***

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***detailed and exhaustive reviews
– a criticism of many
Interventional Cardiology texts –
the purpose of this book is to
present practical information
regarding Interventional
procedures and important topics***

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in Cardiology. An emphasis on clarity, clinical relevance and up-to-date information has been favoured as well as discussion of points of controversy so frequently overlooked."
This highly visual handbook

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integrates cardiac anatomy and the state-of-the-art imaging techniques used in today's catheter or electrophysiology laboratory, guiding readers to a comprehensive understanding of both normal cardiac anatomy

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and the structures associated with complex heart disease. Well organized, easily navigable, and superbly illustrated in a landscape format, this unique text invites the reader on a visual intracardiac journey via stunning

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images and schematic illustrations, including such imaging modalities as computed tomography, magnetic resonance imaging, ultrasound, radiography, and 3D mapping. Each chapter couples the

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***electrophysiology perspective
with detailed descriptions of the
anatomic features relevant to a
wide variety of arrhythmias,
including: Supraventricular
tachycardias Atrial fibrillation
Ventricular arrhythmias With an***

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overview of general cardiac anatomy, congenital malformations, standard catheter positioning, and potential pitfalls, Anatomy for Cardiac Electrophysiologists provides a solid foundation and quick

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***reference for trainees as they
prepare for the realities of the
catheter laboratory as well as an
excellent refresher for
experienced operators. “The
anatomic figures that are
provided are spectacular....This***

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gem of a book stands alone as a brilliant starting point to meld interventional techniques such as ablation with the intricacies of cardiac anatomy....I highly recommend this eminently readable and superb contribution

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***not only to the beginning trainee
in cardiac electrophysiology but
also to my more experienced
colleagues.” —From the Foreword
by Melvin M. Scheinman, MD
Offering a clear and consistent
framework for recognition,***

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diagnosis, and treatment of a wide range of cardiac arrhythmia disturbances, Clinical Cardiac Electrophysiology: A Practical Guide covers the fundamental analytical skills needed in this challenging area. This portable,

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***highly accessible handbook
focuses on the basics of clinical
electrophysiology- how and
when to perform an
electrophysiology study as well
as principles of ablation and
other invasive therapies-all in a***

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***succinct and modern format.
Focuses on using an effective,
consistent, decision-making
process in recognizing,
diagnosing, and treating rhythm
disturbances of the heart,
including supraventricular***

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***tachycardias, atrial fibrillation,
ventricular tachycardias, and
other rapid or irregular
heartbeats. Covers anatomic
fundamentals of cardiac
structures, clinical indications
for electrophysiology studies,***

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electrophysiology study, and
problems encountered during
the procedure. Includes quick
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radiographic images, and
electroanatomic maps.***

***Discusses key topics such as
mechanisms of arrhythmias,
conventional and***

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electroanatomic mapping systems, fundamentals of cardiac mapping, biophysics of catheter ablation, and much more. Offers real-world guidance on contemporary practice from leading cardiac

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***electrophysiologists Drs.
Demosthenes G Katritsis and
Fred Morady, with input from a
multinational team of
electrophysiology fellows and
cardiologists. Ideal as a stand-
alone resource or used in***

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in conjunction with Dr. Douglas Zipes' renowned textbook, Cardiac Electrophysiology: From Cell to Bedside. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text,

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***Percutaneous Epicardial
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***Cell to Bedside E-Book
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Focusing on anatomy and procedural strategy for atrial fibrillation and ventricular tachycardia, this atlas uses pictures and schematic diagrams

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to show how to use
intracardiac echo (ICE)
to assess anatomy, guide
ablation, and prevent
complications during
interventional
procedures, pulmonary

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vein stenosis, and embolic events. The authors review the state of the art and background support in the use of ICE in interventional

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electrophysiology
procedures and the
anatomy of both the
atrial and ventricular
chambers. They discuss
innovative indications
in the EP laboratory,

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