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Hypertension and Cardiovascular Proteomics

This book fulfills the need to keep up with the high number of innovations in proteomics, and at the same time to warn the readers about the danger of manufacturers and scientists claims around new technologies. Mass spectrometry stands as the core technology in proteomics. The emerging field of targeted proteomics and its potential applications in the cardiovascular arena are also reviewed and discussed. A concluding section highlights the promise of proteomics in the light of these recent developments. As this technique and its applications have undergone remarkable advances in the past years, recent updates... More on www.springer.com/978-3-319-31576-8

J Wave Syndromes

This book delineates the state of the art of the diagnosis and treatment of J wave syndromes, as well as where future research needs to be directed. It covers basic science, translational and clinical aspects of these syndromes. The authors are leading experts in their respective fields, who have contributed prominently to the literature concerning these topics. J wave syndromes are one of the hottest topics in cardiology today. Cardiac arrhythmias associated with Brugada syndrome (BrS) or an early repolarization (ER) pattern in the inferior or infero-lateral ECG leads are thought to be mechanistically linked to accentuation of transient outward current (Ito)-mediated J waves. Although... More on www.springer.com/978-3-319-39597-5

Clinical Cardiogenetics

Clinical management and signs are the focus of this practical cardiogenetic reference for those who are involved in the care for cardiac patients with a genetic disease. With detailed discussion of the basic science of cardiogenetics in order to assist in the clinical understanding of the topic. The genetic causes of various cardiovascular diseases are explained in a concise... More on www.springer.com/978-3-319-31576-8
clinical way that reinforces the current management doctrine in a practical manner. The authors will cover the principles of molecular genetics in general but also specific to cardiac diseases. They will discuss the etiology, pathogenesis, pathophysiology, clinical presentation, clinical diagnosis, molecular[...]

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Forthcoming
K.M.J. Chan (Ed.)

Functional Mitral and Tricuspid Regurgitation
Pathophysiology, Assessment and Treatment

This book covers in detail all aspects of functional ischaemic mitral regurgitation, from its pathophysiology to its assessment, and surgical treatment, to its outcome and long term results. The book encompasses information and knowledge from a diverse background including cardiology, cardiac surgery and basic science. This is necessary for a full understanding of the subject in order to optimally manage patients with this condition.

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Forthcoming
A.F.G. Cicero

Hypertension and Metabolic Cardiovascular Risk Factors

The aim of this guide is to provide clinicians with practical reference for the management of hypertensive patients with other cardiovascular risk factors, which originate from impaired metabolic functions. With the aid of carefully selected, paradigmatic case studies, the physician will find sound advice for the best approach to common but often under-recognized clinical situations, and answers to practical questions that arise when a specific condition is not directly addressed in the guidelines. Question-and-answer sections will help the reader to identify at a glance the most complex steps in the diagnostic and therapeutic process. In a “real world” clinical setting, the[...]

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Forthcoming
M. Dorobanţu, A.H. Conte, L. Lubin (Eds.)

Current Approach to Heart Failure

This book is intended to be a link between guidelines and clinical practice, a complementary tool to help physicians to be well informed regarding the important field of heart failure. It will be a useful tool for professionals from all the fields of cardiology: non-invasive cardiology, interventional cardiology, electrophysiology and cardiovascular imaging. The topic of heart failure is continuously changing, with new important information being added constantly. The pathophysiology is better understood and there is a trend for a better characterization of special groups of population, such as oncolgic patients with heart fail-

A.H. Child (Ed.)

Diagnosis and Management of Marfan Syndrome

This book has been written in response to the many excellent questions posed by our patients and their care teams, questions which deserve the best-informed and up to date answers provided by our experts in each of the many health areas affected by Marfan syndrome. The aim of this text is to provide a summary of the present day understanding of diagnosis, management and best medical and surgical treatment of infants, children and adults with Marfan syndrome. The authors cover the lifelong problems from birth to old age, in each affected system. Forty percent of this information is the result of new careful research based on a well-defined longitudinally studied UK patient population.


Hardcover
2016. XIII, 314 p. 82 illus., 54 illus. in color.
► 128,39 €
Gewöhnlich versandfertig in 3-5 Werktagen.

A. Coca (Ed.)

Hypertension and Brain Damage

This book focuses on diverse aspects of the relationship between hypertension and brain damage, providing up-to-date information that will be of interest to both clinicians and researchers. After an introductory chapter on epidemiology, the significance of various comorbidities that represent risk factors for brain damage in the context of hypertension is discussed. Detailed consideration is then given to the effects of hypertension on small and large cerebral arteries and the consequences for brain damage. Similarly, the association between hypertension and ischemic and hemorrhagic stroke is fully explored, and the evidence and guidelines regarding reduction of high blood pressure[...]

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The Breathless Heart
Apneas in Heart Failure
This book systematically focuses on central sleep apneas, analyzing their relationship especially with heart failure and discussing recent research results and emerging treatment strategies based on feedback modulation. The opening chapters present historical background information on Cheyne-Stokes respiration (CSR), clarify terminology, and explain the mechanics and chemistry of respiration. Following a description of the physiology of respiration, the pathophysiology underlying central apneas in different disorders and particularly in heart failure is discussed. The similarities and differences of obstructive and central apneas are then considered. The book looks beyond the concept [...] More on www.springer.com/978-3-319-26352-6

Physiological Assessment of Coronary Stenoses and the Microcirculation
Since the introduction of coronary angiography, a key technique in understanding coronary artery disease, a number of paradigms regarding its study and interpretation have taken place. Following an emphasis on improved angiographic and subsequent intracoronary imaging techniques, functional assessment of coronary circulation has demonstrated to have major implications for diagnosis and treatment of coronary artery disease. Fractional flow reserve, a pressure derived index of stenosis severity, constitutes the best example of the current importance of physiological assessment in clinical practice. However, the acceptance of FFR by cardiologists contrasts with important voids in [...] More on www.springer.com/978-3-319-26352-6

Integrative Cardiology
A New Therapeutic Vision
This book is a detailed guide to a new integrative approach to the prevention and treatment of various cardiac disorders and risk factors, including coronary artery disease, congestive heart failure, arrhythmias, dyslipidemia, and hypertension. This approach combines various strategies, including metabolic cardiology, low-dose medicine, exercise programs, stress management programs, evaluation for inherited risk factors, and various other healing modalities. Metabolic cardiology focuses on the prevention, management, and treatment of cardiovascular disease at the cellular level through biochemical interventions with nutritional supplements that can promote energy production in the [...] More on www.springer.com/978-3-319-40008-2

Congestive Heart Failure and Cardiac Transplantation
Clinical, Pathology, Imaging and Molecular Profiles
This book is a comprehensive overview of heart failure and cardiac transplantation and integrates scientific and clinical information about the physiology, pathophysiology, diagnosis, and treatment of this disorder. Organized into five parts, it reviews the history and basic mechanisms of heart failure; etiology of heart failure; heart failure disease progression; advanced therapies for heart failure; and cardiac transplantation. The book presents basic concepts in the physiology, molecular biology, pathology, and epidemiology of the normal and failing heart; known causes of heart failure, such as right heart failure, valvular cardiomyopathy, molecular mechanisms of sarcomerica [...] More on www.springer.com/978-3-319-44575-5

Infective Endocarditis
Epidemiology, Diagnosis, Imaging, Therapy, and Prevention
This reference resource represents the consensus opinion of a team of international specialists on the diagnosis and treatment of infective endocarditis (IE), many of whom have been co-authors of American or European guidelines on the topic. It is therefore a useful tool for many practitioners: cardiologists and cardiac imagers, cardiac surgeons, echocardiographers, specialists of internal medicine, neurologists, and infectiologists. Infective endocarditis (IE) is defined as an infection of the endocardial surface of the heart, which may include one or more heart valves, the mural endocardium, or a septal defect. Its [...] More on www.springer.com/978-3-319-40816-3
intracardiac effects include severe valvular insufficiency, which may [...] 
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Erscheinungstermin: August 24, 2016

Forthcoming
R.C. Hendel, C. Kimmelstiel (Eds.)

Cardiology Procedures
A Clinical Primer
This book provides a single reference that describes the application and performance of techniques and procedures performed by cardiologists. It includes descriptions of the technical aspects, clinical application and interpretation of the data generated during these testing modalities. The authors have provided a clinically focused guide to cardiac procedures aimed at clinical trainees and practitioners, including physicians as well as affiliated clinicians. Case studies are presented to further illustrate how these techniques are used in clinical practice.
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Forthcoming
M.S. Islam (Ed.)

Hypertension: from basic research to clinical practice
Hypertension: from basic research to clinical practice contains a unique collection of selected chapters written by experts and enthusiasts engaged in research and treatment of hypertension, a condition that affects around a billion people in the world. The chapters describe fundamental researches at cellular and molecular levels to the science, and art of treatment of the condition in clinical practice. The topics included range from pathophysiology of hypertension, through monitoring of hypertension, to the treatment of hypertension in different patient categories. It contains essential background information as well as cutting edge research, and state of the art treatment [...] 
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J.C. Kaski

Essentials in Stable Angina Pectoris
This title discusses the magnitude of the problem of angina pectoris. The author also goes on to describe the characteristics and clinical profile of patients with angina in a contemporary population. The different types and multiple mechanisms of angina pectoris are described, while the clinical presentation, typical and atypical features and complications (MI, HF) and clinical management and outcomes are evaluated. The author also evaluates the various antiangiinal therapies used in special populations: the elderly, post revascularised patients, patients with LVSD or HF, patients with CKD, patients with diabetes.
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C. Lestuzzi, S. Oliva, F. Ferraù (Eds.)

Manual of Cardio-oncology
Cardiovascular Care in the Cancer Patient
This concise and handy manual provides straightforward, up-to-date guidance for cardiologists and other practitioners on the management of cancer patients with cardiac problems, whether they be due to the cancer itself or to antineoplastic treatment. Detailed attention is devoted to the various forms of cardiotoxicity associated with chemotherapy and radiotherapy. The drugs commonly responsible for each toxicity are identified and clear advice is offered on monitoring techniques and treatment approaches. In addition, the issue of cardiotoxicity due to cancer treatment in particular patient groups – children, the elderly, and those with pre-existing cardiac disease – is addressed [...] 
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A.C. Lindsay, K. Chitkara, C. Di Mario (Eds.)

Complications of Percutaneous Coronary Intervention
The Survival Handbook
Complications of Percutaneous Coronary Intervention: The Survival Handbook aims to serve as a reference manual for all cardiologists, particularly those in training, who face life-threatening complications of PCI on a day-to-day basis. Drawing on the background and experience of cardiologists from both sides of the Atlantic, the book aims to be a valuable, practical, and most of all readable resource for the interventional cardiologist. The principles and practices described in the book will be of interest to all practitioners of interventional catheter procedures, including interventional radiologists, vascular surgeons, and cardiologists. Few medical procedures have evolved as [...] 
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Erscheinungstermin: September 11, 2016

Cardiac Biomarkers
Case Studies and Clinical Correlations
This book covers ACS and Heart Failure, the chapters represent the most current, up to date and knowledgeable content on the topic available. It is written by the worlds most respected leaders in biomarkers, with a majority emphasis on what clinicians need to know. The Editors and their contributors have provided algorithms, annotated case discussions and caveats. They cover biomarkers to predict risk of heart disease, biomarkers of cardiorenal disease, and conclude with a section on new and emerging biomarkers. It be genuinely helpful and practical to those in the field, including not just people working in the field, but nurses, doctors, etc who practice medicine in the clinic, the[...]
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Erscheinungstermin: September 11, 2016

Myocardial Perfusion Imaging - Beyond the Left Ventricle
Pathology, Artifacts and Pitfalls in the Chest and Abdomen
This book will serve as a comprehensive reference source and self-assessment guide for physicians and technologists who practice myocardial perfusion SPECT imaging. Readers will learn to identify a wide variety of findings apart from the left ventricle, including those in the chest, the abdomen, and the right heart. It is explained which findings are clinically relevant and related to the reason for the myocardial perfusion imaging examination and which are incidental, with or without important clinical ramifications. The coverage includes a wide variety of common and uncommon focal lesions (e.g., benign or malignant neoplasms) and organ/systemic diseases (e.g., emphysema, cirrhosis[...]
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Short Stay Management of Atrial Fibrillation
This book provides a road map for the efficient and successful management of atrial fibrillation (AF) in the short stay unit. It describes the problem, defines the measures of successful treatment, elucidates interventions, and supplies the tools for achieving quality care. Organized in four parts, it covers the impact of AF on patient populations; the presentation and management of AF; the transition to the outpatient environment; and systems management. Topics include the economic consequences of AF; cardioversion and cardiac implantable electronic devices in AF management; education of the AF patient and discharge planning; and quality metrics in AF. The book also provides order[...]
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Short Stay Management of Acute Heart Failure
This book provides a road map for defining the care of acute heart failure (HF) patients in the short stay or observation unit setting. Supported by the Society of Cardiovascular Patient Care, a quality improvement organization that trains and accredits over 1,000 hospitals for heart failure, chest pain, and atrial fibrillation management, it presents a description of the problem, defines the measures of success, elucidates the implementation of interventions required to be successful, and provides the tools to insure quality HF management. Fully updated and revised, the Third Edition discusses administrative and regulatory issues relating to HF management; pathophysiology and[...]
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Left Septal Fascicular Block
Characterization, Differential Diagnosis and Clinical Significance

This book provides clinical and electrovectorcardiographic evidence of the existence of left septal fascicular blocks and demonstrates the clinical importance of these blocks in the clinical scenario of acute coronary syndrome. There are currently no standard criteria for detecting conduction defects involving the third left fascicle, the septal or median fascicle, and the very existence of such defects is still a matter of controversy. This book provides acceptable and consistent terminology and definitions for the electrovectorcardiographic diagnosis of a left septal fascicular block. Left Septal Fascicular Block: Characterization, Differential Diagnosis and Clinical Significance

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Forthcoming
R.R. Richardson

Atlas of Acquired Cardiovascular Disease Imaging in Children

This atlas is a concise visual guide to the imaging of acquired heart disease in infants, children, and adolescents. Imaging plays an ever-increasing vital role in diagnosis, preoperative planning, and postoperative management for children with these disorders. The book reviews techniques for lowering radiation, discusses protocols for imaging in children, and provides recommendations for the most appropriate studies that decrease the time and cost of imaging these patients. Focusing on functional and anatomic imaging with an emphasis on three-dimensional color-coded models derived from CT and MR scans, this book promotes understanding of cardiovascular disorders in children.

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ISBN 978-3-319-44113-9
Erscheinungstermin: October 12, 2016

Psychotherapy for Ischemic Heart Disease
An Evidence-based Clinical Approach

This book discusses the benefits of application of different psychotherapy techniques, in addition to optimal medical approaches, in patients with ischemic heart disease. It explains the theoretical basis for use of these techniques, discusses the scientific evidence for their efficacy, and identifies important practical issues. Detailed attention is devoted to both well-established and recently developed approaches of proven value, as well as to future applications. In addition, practical insights are provided into the most effective ways of integrating psychotherapy with medical activities in hospitals, outpatient clinics, and rehabilitation centers. The authors are world experts in

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Atrial Fibrillation and Percutaneous Coronary Intervention
A Case-based Guide to Oral Anticoagulation, Antiplatelet Therapy and Stenting

This book considers paradigmatic clinical cases in order to cast light on key issues relating to elective or emergency stent implantation and the use of oral anticoagulation in patients with atrial fibrillation. The topics addressed include the optimal periprocedural antithrombotic treatment (uninterrupted vs interrupted OAC, intraprocedural use of heparin and glycoprotein IIb/IIIa inhibitors, etc.), the most appropriate type of stent (bare metal vs drug eluting vs “bioactive”), the optimal regimen (e.g., triple therapy of OAC, aspirin, and clopidogrel vs the combination of OAC and a single antiplatelet agent), and the most suitable duration of the antithrombotic treatment.

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Pregnancy and Congenital Heart Disease

This book describes the risks facing patients with congenital heart disease who wish to become pregnant and the ways in which these patients can best be followed and treated during pregnancy. In addition, the organization of care around the delivery is discussed in detail. The first section provides clear advice on pre-pregnancy risk estimation, counseling of patients, medication use, and inheritance. The specific risks associated with congenital heart defects of differing severity are then explained, with guidance on monitoring and management. The coverage includes simple lesions such as atrial and ventricular septal defects, conditions associated with moderate risk, including...

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Pulse Waves

How Vascular Hemodynamics Affects Blood Pressure

This new, revised and updated edition takes into account the most recent advances in the understanding of human pathophysiology. The book presents the complex basic principles of vascular hemodynamics and its pathophysiologie in a direct and effective way, stressing the importance of the mechanical properties of large arteries in the origin of blood pressure. The readily understandable text, supported by helpful images, describes the elements that define blood pressure and explains such important concepts as pulse wave velocity, central blood pressure, reflected waves, and pulse pressure amplification. Entirely new chap-

ters are included on the sympathetic nervous system and arterial[...]

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Resistant Hypertension

This book is designed to assist physicians in the everyday management of hypertensive patients, with a particular focus on difficult-to-treat and resistant hypertension. The selected clinical cases are representative of the patients who are seen in the “real world”, rather than rare clinical cases, and provide examples of management according to current international guidelines. The scenarios considered include not only cases in which arterial hypertension is truly resistant but also instances of pseudo-resistant hypertension, including cases in which resistance is related to comorbidities, concomitant treatments, or the use of drugs. The ultimate objective is to provide paradigmatic[...]

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Congenital Heart Disease and Adolescence

This book provides medical care givers with detailed information on those aspects of adolescence that are of significance in the setting of congenital heart disease (CHD), from anatomic and physiologic changes to behavioral issues. In addition, it explains how care should be organized in order to ensure that the needs of adolescents with CHD are fully met. Both theoretical and practical aspects of the switch from a pediatric to an adult health perspective in CHD patients are outlined in detail, drawing attention to the importance of a structured transition plan and other best practices. As the survival of children with complex CHD improves further, the number of adolescents with CHD[...]

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Erscheinungstermin: August 28, 2016

Quality Evaluation in Non-Invasive Cardiovascular Imaging

This handbook provides hospitals, clinics, and imaging centers, along with their medical and technical directors and hospital administrators, with the necessary information and tools to develop quality initiatives. The specific aims of this book include: 1. Describe quality control as it relates to non-invasive cardiovascular imaging
2. Understand the current standards as published by societal guidelines or accrediting organizations e.g. American College of Radiology (ACR), Intersocietal Accreditation Commission (IAC), The Joint Commission (TJC) or the European Society of Cardiology (ESC).
3. Demonstrate techniques[...]

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Interventional Therapies for Secondary and Essential Hypertension

This book aims to describe the role of interventional therapies in various forms of secondary hypertension and to explain the ability of such approaches to address unmet needs in the setting of uncontrolled essential hypertension. The coverage encompasses interventions in the full range of relevant conditions, including the various specific pathologies responsible for secondary hypertension, such as renal artery stenosis, coarctation of the aorta, and adrenal tumors. In each case, up-to-date information is presented on indications, procedural aspects, and patient follow-up. A further focus is the most recent knowledge on the use of invasive neuromodulation, such as renal sympathetic[...]

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Erscheinungstermin: August 28, 2016
Forthcoming
A. Ungar, N. Marchionni (Eds.)
Cardiac Management in the Frail Elderly Patient and the Oldest Old
This book focuses specifically on the management of cardiovascular disease in elderly patients with particular frailties and in the “oldest old”. It is clearly explained how treatment in these patients differs from that in patients in their seventies who respond well to therapies and do not present frailties or organ failures. Although not young, the latter patients can be treated almost like any other patient, according to established guidelines. In contrast, the frail, compromised elderly and the oldest old require specific measures that target their needs, including with respect to underlying renal conditions. The book considers all those pathologies that have a high prevalence in[...]
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Erscheinungstermin: October 25, 2016

Forthcoming
A. Virdis
Hypertension and Comorbidities
This guide is structured to assist physicians in the management of those hypertensive patients who present with specific comorbidities, such as diabetes, systolic dysfunction, obesity, renal disease, or previous cardiac events, often associated with hypertension. The clinical cases contained in this book have been selected to provide a paradigmatic set of scenarios frequently encountered in daily clinical practice, and will serve as an easy-to-access tool in applying general guidelines to individual patients, particularly in the choice of the most appropriate antihypertensive therapy. Treatment of hypertension with associated clinical conditions require specific therapies and[...]
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Forthcoming
Y. Zhou, F. Kiemeneij, S. Saito, W. Liu (Eds.)
Transradial Approach for Percutaneous Interventions
This book outlines the state of the art in transradial intervention and illustrates case-based learning for the transradial (TR) technique, especially in complicated lesions. Offering a practical guide, it includes essential tips and tricks on how to overcome anatomical complexities, how to avoid radial complications, multiple case-based learning for very complex PCI, etc. It also discusses the advantages of the TR approach, such as reduced vascular access site complications and immediate patient mobilization. The authors, who work at respected transradial centers, share their extensive experience with TR, providing a comprehensive review of current percutaneous interventions for[...]
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Forthcoming
H.O. Ventura (Ed.)
Pharmacologic Trends of Heart Failure
This volume reviews potential future therapies for heart failure, with a particular focus on ambulatory acute decompensated heart failure and the transitions from therapies in the acute setting to chronic management. Although in the developed world the incidence of and mortality from coronary heart disease and stroke have been declining over the last 15 years, heart failure is increasing in incidence, prevalence and overall mortality, despite advances in the diagnosis and management of the condition. Pharmacologic Trends of Heart Failure builds on the current understanding of pathophysiological mechanisms and insights gained from previous studies of therapeutic interventions. It[...]
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Forthcoming
W.-H. Yin, M.-C. Hsiung
Atlas of Perioperative 3D Transesophageal Echocardiography: Cases and Videos
This book presents a series of over 50 cases in 3D transesophageal echocardiography. In each case, background information is followed by a step-by-step approach to patient diagnosis and postoperative outcomes. The book’s most outstanding highlight consists in over 600 illustrations, which mainly focus on 3D transesophageal echocardiography in combination with 2D transesophageal echocardiography, X-ray fluoroscopy and computed tomography to demonstrate the various cardiovascular pathologies. Since the echo images obtained in clinic practice are moving images, it also includes more than 450 videos, which effec-