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Imaging and Focal Therapy of Early Prostate Cancer Practical 3D Echocardiography Medical and Dental Space Planning Left Atrial Appendage Closure Cardiac Catheterization for Congenital Heart Disease 9th International Symposium on Therapeutic Ultrasound Službene novine Federacije Bosne i Hercegovine Breast Elastography Службени гласник Босне и Херцеговине Applied Radiology Energieverbrauchsanalyse von Ultraschall Systemen unter Berücksichtigung individueller Nutzeraspekte Elastography - Current Insights and Applications Thomas J. Polascik Joseph F. Maalouf Jain Malkin Jacqueline Saw Gianfranco Butera Kullervo Hynynen Bosnia and Herzegovina Richard G. Barr Bosnia and Herzegovina Rasid Mujkic Mahesh Goenka

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this text encompass an up to date comprehensive review of the state of the art for gland preserving therapies fully updated and revised this text evaluates the scientific evidence for the evolving trend to treat intermediate risk clinically localized prostate cancer in a focally ablative manner with novel gland preserving focal therapy methods various ablative devices such as high intensity focused ultrasound irreversible electroporation photodynamic therapy cryotherapy and laser ablation among others is discussed in regard to their strengths and limitations as a therapeutic modality emphasis is placed on patient selection and outcomes utilizing both advanced imaging techniques and pathologic evaluation current and new approaches to image cancer foci within the prostate multiparametric ultrasonography multiparametric magnetic resonance image etc are presented along

with various biopsy techniques including robotics to map prostate cancer patient selection based on imaging and genomic classification adjuvants to enhance therapy treatment strategy outcomes and patient centered concerns is discussed providing an acceptable balance between cancer control and improved quality of life for patients written by experts in the field and lavishly illustrated with detailed line art and photographs imaging and focal therapy of early prostate cancer second edition is designed as a comprehensive resource for urologists radiation oncologists medical oncologists radiologists uropathologists molecular biologists biomedical engineers other clinicians residents fellows nurses and allied professionals and researchers with an interest in the diagnosis and novel treatment of prostate cancer it will provide insight into the latest research and clinical applications of image guided diagnosis and minimally invasive focal gland preserving treatment for prostate cancer

this extensive clinically focused book is a detailed practical 3d echocardiography imaging reference that addresses the concerns and needs of both the novice and experienced 3d echocardiographer chapters have been written in a highly instructive and practical disease and problem oriented approach supported by illustrative high quality images and corresponding 3d echo video clips where applicable that demonstrate the incremental value of 3d echocardiography over 2d echocardiography in practice practical 3d echocardiography is an intuitive guide to 3d imaging what to look for how to look for it the best and special views caveats and pitfalls when applicable and clinical pearls and pointers that can be used in daily practice it is therefore of immense value to any practicing or trainee echocardiographer cardiologist and internist

the updated definitive reference on medical and dental office design medical and dental space planning is an indispensable guide to the myriad of details that make a medical or dental practice efficient and productive the unique needs of more than thirty specialties as well as primary care are explained in the context of new technology and the many regulatory and compliance issues influencing design concepts are also presented for ambulatory surgical centers diagnostic imaging clinical laboratories breast care clinics endoscopy centers community health centers radiation oncology and single specialty and multispecialty group practices and clinics a thorough review of the latest dental technology and many creative space plans and design ideas for each dental specialty will be of interest to both dentists and design professionals important topics like infection control are top of mind influencing every aspect of dental office design an inside look at what goes on in each specialist s office will familiarize readers with medical and dental procedures how they are executed and the types of equipment used technology has radically impacted medical and dental practice digital radiography electronic health records mobile health devices point of care diagnostic

testing digital diagnostic instrumentation cad cam systems for digital dental impressions and milling of restorations in the dentist's office portable handheld x ray and 3d cone beam computed tomography for dentists all have major implications for facility design the influence of the affordable care act is transforming primary care from volume based to value based which has an impact on the design of facilities resulting in team collaboration spaces larger consultative examination assessment rooms and accommodation for multidisciplinary practitioners who proactively manage patient care often in a patient centered medical home context the wealth of information in this book is organized to make it easy to use and practical program tables accompany each medical and dental specialty to help the designer compute the number and sizes of required rooms and total square footage for each practice this handy reference can be used during interviews for a reality check on a client's program or during space planning other features for example help untangle the web of compliance and code issues governing office based surgery illustrated with more than 600 photographs and drawings medical and dental space planning is an essential tool for interior designers and architects as well as dentists physicians and practice management consultants

percutaneous left atrial appendage laa closure is an emerging technology for thromboembolic prevention in patients with atrial fibrillation the first human implantation of an laa device occurred in 2001 and since then four devices have received ce mark approval these devices are being widely used in europe for laa closure in patients who are poor candidates for long term oral anticoagulation in the us the watchman device boston scientific is anticipated to receive fda approval imminently for af patients who are warfarin eligible this approval is projected to significantly expand the indications for laa closures worldwide thus the volume of procedures is anticipated to escalate this book discusses the epidemiology of af as a cause of stroke the use of laa closure in the reduction of thromboembolism with af early surgical approaches and novel surgical devices for laa closure and current percutaneous approaches and devices available for laa closure the emphasis of this book is on percutaneous technical approaches and contemporary trial results on the leading devices plaato watchman amplatzer cardiac plug and lariat it also reviews unapproved devices in development in both clinical and pre clinical phases

the second edition of this handbook is an up to date guide to the application of catheter based interventions across the entire age range of congenital heart disease patients from fetal life through to adulthood it considers the changes and improvements that have occurred during the last few years in terms of new procedures new tools and devices in particular in the field of valves new imaging and pre procedural strategies such as 3d printing 3d rotational angiography and fusion imaging it provides readers

with clear instructions on techniques for vascular access valve dilatation angioplasty stent implantation defect closure defect creation pulmonary valve implantation and on the hybrid approach as well as on various other procedures as in the first edition topics are approached using a step by step format ensuring that readers can immediately access the information relevant to their daily practice numerous explanatory figures and drawings are included in each chapter in order to further clarify how to plan perform and evaluate diagnostic and interventional procedures in the field of congenital heart disease it also highlights important tips and tricks that will assist health operators in achieving optimal outcomes and includes an appendix with additional general equations and bsa and oxygen consumption charts this practical guide will be a valuable resource for surgeons and cardiologists in their daily clinical practice

conference location and date aix en provence france 24 26 september 2009

a practical how to manual on breast elastography this comprehensive reference covers the principles and techniques used in performing breast elastography an innovative imaging technology that can dramatically reduce the need for biopsies the book begins with an introduction of the techniques followed by sections on how to perform each technique and methods of interpretation and concludes with more than 60 detailed case studies key features includes case studies covering a wide range of breast pathologies and illustrating the use of all available elastography techniques to help radiologists obtain the best images for each pathology covers all methods of breast elastography including shear wave and strain wave contains more than 200 high quality color images that demonstrate how to perform each technique breast elastography is an essential reference for all radiologists residents and fellows and sonographers involved in breast imaging and evaluation

each issue includes separate but continuously paged sections called nuclear medicine and ultrasound

die vorliegende arbeit wurde durchgeführt um den energieverbrauch von ultraschallsystemen unter berücksichtigung individueller nutzeraspekte zu analysieren ziel war es den einfluss moderner techniken wie farbdoppler und pulsdoppler auf den energieverbrauch zu bewerten und mögliche einsparungspotenziale zu identifizieren die methodik umfasste eine detaillierte quantitative erhebung und analyse der verbrauchsdatenverschiedener ultraschallgeräte in den abteilungen radiologie neurologie und kardiologie dabei wurden sowohl gemessene als auch berechnete verbrauchswerte berücksichtigt und auf eine optimale

auslastung extrapoliert die ergebnisse zeigen dass der häufige einsatzmoderner techniken zu einem signifikant höheren energieverbrauch führt geräte mit einem hohen stand by verbrauch wie kardiologie 1 philips epiq cvx und ältere geräte wie kardiologie 2 siemens acuson sc2000 weisen einsparungspotenziale von 23,3 bzw 14,3 auf was auf ineffizientes strommanagement hinweist im gegensatz dazu haben neuere geräte des herstellers ge geringere einsparungen zwischen 4,4 und 8 was auf ein effizienteres management der stand by modi schließen lässt diese untersuchung verdeutlicht die notwendigkeit einer optimierten nutzung und regelmäßigen aktualisierung der geräte zur reduktion des energieverbrauchs die gewonnenen erkenntnisse helfen das bewusstsein für die energieeffizienz in der medizintechnik zu schärfen und bieten konkrete handlungsempfehlungen für die praxis insgesamt leistet die arbeit einen wichtigen beitrag zur optimierung des energieverbrauchs von ultraschallsystemen und zur verbesserung der nachhaltigkeit im gesundheitswesen

the book elastography current insights and applications aims to consolidate specific information and updates about elastography in general and abdominal pathologies specifically the concept of elastography has been most widely explored for assessing liver fibrosis however multiple other domains including focal liver lesions endoscopic ultrasound elastography and pancreatic elastography are less explored the book covers key concepts of bioethical principles techniques and recent updates on such areas of elastography in abdominal pathologies we hope this book helps to enlighten the readers about these aspects of elastography

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