

Mindray Diagnostic Ultrasound System Dc 30

This book is a wide-ranging and up-to-date guide to the use of ultrasound for imaging of the thyroid that will meet the needs of novices while providing more experienced professionals with advanced information. All of the techniques employed in modern thyroid ultrasound are covered, from conventional grayscale and Doppler imaging to elastography and contrast-enhanced ultrasound, with a focus on practical aspects and with detailed analysis of their diagnostic value and limitations. The characteristic ultrasound findings of the normal thyroid and a wide range of thyroid diseases and disorders are described with the aid of hundreds of high-quality images. Diffuse changes and thyroid lesions are discussed in depth, paying close attention to aspects of importance for early detection and differential diagnosis. In this context the authors summarize their personal experiences in the use of qualitative parameters of compression elastography and quantitative data of shear-wave elastography. In addition, a practical approach to the risk stratification of thyroid nodules is proposed. The book concludes with a resumé of the main challenges and pitfalls in thyroid ultrasound.

The X-ray equipment maintenance and repairs workbook is intended to help and guide staff working with, and responsible for, radiographic equipment and installations in remote institutions where the necessary technical support is not available, to perform routine maintenance and minor repairs of equipment to avoid break downs. The book can be used for self study and as a checklist for routine maintenance procedures. Enabling power:Town and country planning act 1971, ss. 24, 287 (3) (10). Issued:13.1.86. Made:9.1.86. Laid:13.1.86. Coming into force:1.3.86. Effect:S.I. 1985/1012 amended & S.I. 1985/1982 revoked. Regional application:E/W

The comparison between methods, evaluation of portal hypertension and many other questions are still open issues in liver elastography. New elastographic applications are under evaluation and close to being used in clinical practice. Strain imaging has been incorporated into many disciplines and EFSUMB guidelines are under preparation. More research is necessary for improved evidence for clinical applications in daily practice. The Special Issue published papers on recent advances in development and application of Ultrasound Elastography. This classic text is much beloved by medical students and physicians-in-training throughout the English-speaking world, as its many editions indicate. It is chock full of the pearls of clinical wisdom that students and practitioners treasure, and many of these lessons apply to medicine in general. The book was well characterized by a reviewer of an earlier edition for The New England Journal of Medicine: 'If only one book about surgery could be made available to physicians from all specialties, it should probably be Silen's recent revision of Cope's Early Diagnosis of the Acute Abdomen. Since the book first appeared, it has remained the classic treatise on the initial approach to abdominal pain.' Because acute, severe abdominal pain is still a common problem whose misdiagnosis can result in quick death, each generation of beginning physicians is faced with the urgency of learning to make a diagnosis in this high-anxiety situation, and they appreciate the wise, humane, precisely detailed guidance offered by Cope and Silen. For the 22nd Edition, Dr. Silen has again updated the text in a respectful but significant way. He has added a chapter on the increasing disorder of diverticulitis, reexamines the use of analgesics, emphasizes the costs of over-testing, and updates all recommendations regarding trauma, radiologic studies, and therapeutic recommendations.

This Book of Abstracts is the main publication of the 69th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse

Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

Now in its 7th edition, Auerbach's Wilderness Medicine continues to help you quickly and decisively manage medical emergencies encountered in any wilderness or other austere setting! World-renowned authority Dr. Paul Auerbach and 2 new associate editors have assembled a team of experts to offer proven, practical, visual guidance for effectively diagnosing and treating the full range of issues that can occur in situations where time and resources are scarce. This indispensable resource equips physicians, nurses, advanced practice providers, first responders, and rescuers with the essential knowledge and skills to effectively address and prevent injuries and illnesses – no matter where they happen! Face any medical challenge in the wilderness with expert guidance from hundreds of outstanding world experts edited by Dr. Auerbach and 2 new associate editors, Drs. Tracy Cushing and N. Stuart Harris. New and expanded chapters with hundreds of new photos and illustrative drawings help increase your visual understanding of the material. Acquire the knowledge and skills you need with revised chapters providing expanded discussions of high-altitude medicine, improvisation, technical rescue, telemedicine, ultrasound, and wilderness medicine education. Ten new chapters cover Acute High-Altitude Medicine and Pathophysiology; High Altitude and Pre-Existing Medical Conditions; Cycles, Snowmobiles, and other Wilderness Conveyances; Medical Wilderness Adventure Races (MedWAR); Canyoneering and Canyon Medicine; Evidence-Based Wilderness Medicine; National Park Service Medicine; Genomics and Personalized Wilderness Medicine; Forestry; and Earth Sciences.

This book addresses the wide range of issues that face the program leader – from how to choose a site and how to negotiate for equipment, to how to determine staffing requirements and how to anticipate and defuse possible turf issues with other programs and services in the hospital or healthcare facility. The early chapters of this book focus on the leadership of your program whether in your department or institution. The second section centers on education at all levels recognizing that smaller machines have made ultrasound available for medical students to advanced practitioners. The third section provides detailed logistics on equipment, maintenance, and safety. The fourth section focuses on a quality improvement program and includes a chapter on the workflow process. For those with limited budgets we also offer a section on practical operating and educational solutions. The fifth section offers insight into hospital level credentialing, quality assurance, national politics, and recent issues with accreditation. This is followed by reimbursement and coding. The last section covers topics in specialized communities. Chapters focus on ultrasound in global health, emergency medical services, pediatrics, critical care, community and office based practices. Multiple US working documents including checklists, graphs, spreadsheets, tables, and policy appendices are included.

Elastography, the science of creating noninvasive images of mechanical characteristics of tissues, has been rapidly evolving in recent years. The advantage of this technique resides in the ability to rapidly detect and quantify the changes in the stiffness of soft tissues resulting from specific pathological or physiological processes. Ultrasound elastography is nowadays applied especially on the liver and breast, but the technique has been increasingly used for other tissues including the thyroid, lymph nodes, spleen, pancreas, gastrointestinal tract, kidney, prostate, and the musculoskeletal and vascular systems. This book presents some of the applications of strain and shear-wave ultrasound elastography in hepatic, pancreatic, breast, and musculoskeletal conditions.

Ultrasound imaging is one of the most important and widely used diagnostic tools in modern medicine, second only to the conventional x-ray. Although considered a mature field, research continues for improving the capabilities and finding new uses for ultrasound technology while driving down the cost of newer, more complicated procedures such as int

At long last we are pleased to announce that the 3rd edition of the 1932 Motobu Choki publication, "Watashi no Karate-jutsu," is finally completed thanks only to the assistance and co-operation of many kind people. The publication is approximately 182 pages in the same size and format as our Funakoshi Gichin publication, Tanpenshu. Here, in this small but provocative publication, lies yet another milestone in the legacy of Karate. "Watashi no Karate-jutsu" ("My Art of Karate"), introduces comprehensive insights into a fighting tradition as known and taught by one of its early Okinawan innovators, Motobu Choki (1870-1944). One of only two books he ever published on the art it is not widely known in modern karate circles or outside the spectrum of those who research its history. Straightforward in its approach, this modest work outlines those unique methods that made Motobu Choki, pound for pound, possibly the greatest technician and karate fighter of his generation. One mistake the modern Karate-ka often makes, when trying to grasp the technical ambiguities surrounding the application of early karate practices, is to depend on contemporary assumption. This small but powerful book provides a window through which the reader is better able to perceive the cultural landscape and social mind-set of those people who shaped its practice. What could possibly improve a reader's overall understanding of the art more than walking in the footsteps of those people most responsible for pioneering it? Great people should never be forgotten, if only to remind us of the potential latent in ourselves. By studying the anthropology of this tradition it becomes evident that many of the early pioneers established a symbiosis with karate so that their lives became as much a product of the art as was the art a product of their lives. Researched and translated by Patrick & Yuriko McCarthy

Duplex Sonography is the first comprehensive text written about this modality. The book offers the reader detailed information about all major uses of duplex and is introduced by a brief chapter on the physical principles of doppler ultrasound as it relates to duplex scanning. Duplex Sonography is intended to provide relevant information on all aspects of the technique, ranging from the basics of performing the examination to the features of sometimes complex pathological states. The book is intended for anyone interested in non-invasive vascular diagnosis including radiologists, vascular surgeons and ultrasound/peripheral vascular technologists. Other groups may find individual chapters appealing: carotid/cardiac sonography for cardiologists, fetal sonography for obstetricians or carotid sonography for neurologists. Each chapter is not only a guide to duplex evaluation, but also provides valuable information about vascular dynamics of the organ system under discussion. Physicians or technologists reading this book should come away with a well-rounded background in state-of-the-art duplex sonography and will undoubtedly discover new possibilities for using

this non-invasive vascular technique.

Concise, fact-based and packed with images and illustrations The EACVI Echo Handbook is the perfect companion for making both every day and complex clinical decisions. Designed and written by leading experts in the field of echocardiography for use in the clinical arena, this practical handbook provides the necessary information for reviewing, or consulting while performing or reporting on an echo or making clinical decisions based on echo findings. Disease-focussed and succinct, it covers the information needed to accurately perform and interpret echocardiograms, including how to set up the echo-machine to optimize an examination and how to perform echocardiographic disease assessment; the clinical indicators, procedures and contraindications. Linked to EACVI recommendations and the EACVI Core Curriculum The EACVI Echo Handbook is an essential and easily accessible manual on using echocardiography for sonographers and trainee cardiologists that should never be left behind when performing an echocardiogram.

Addresses the urgent need to improve the training and clinical performance of physicians and allied health professionals who use ultrasound for diagnostic applications. Noting that the clinical benefits of this safe, effective, and highly flexible diagnostic tool depend on the training and skills of the user, the report responds to the problems created by the absence, in all but a few affluent countries, of properly developed programmes for training in ultrasonography. These problems, which include the expense of unnecessary examinations as well as the risk of misdiagnosis, are further compounded by the lack of regulation of equipment, its low cost, and recent technical innovations that have increased the difficulties of performing examinations and interpreting their results. With these problems in mind, the report sets out international guidelines, including recommended curriculum content, for training users to perform and interpret clinical examinations commonly required in different health care settings. While noting that nurses, physicians' assistants, and other health workers often perform examinations, the report recognizes that the interpretation of ultrasound images and diagnostic decision-making are everywhere the responsibility of physicians. Recommended minimum standards for training reflect the consensus reached by an international group of 15 experts. Several professional societies, including the World Federation for Ultrasound in Medicine and Biology, also contributed their considerable experience and advice. The report has six main sections. The first traces the rapid development of diagnostic ultrasound and explains why standards for ultrasonography training must be regarded as a prerequisite for the provision of high-quality diagnostic ultrasound services. Section two reviews recent trends in the utilization of diagnostic ultrasound in clinical practice, and examines the variety of practices, in a range of different countries, that govern the training of users. Against this background, section three presents recommended ultrasonography curricula judged appropriate for medical students, and for the general, advanced, and specialized training of physicians. General ultrasonography training for sonographers and other

allied health professionals is covered in section four. The recommended content of curricula is expanded in section five, which describes the aspects of basic sciences and instrumentation that should be included in general and advanced training for physicians and allied health professionals. Section six discusses the level of competence that should be reached during training, and presents recommended standards for training programmes and the training process, including requirements for instructors and training centres. The report concludes with a summary of recommendations and conclusions, followed by a list, organized according to clinical specialty, of common applications of diagnostic ultrasound.

This textbook & atlas provides an excellent survey of this now very wide field: Detailed sonographic presentations of normal findings are followed in each case by the corresponding pathological findings, using the most recent images available. To make learning easier, most of the ultrasound images are compared with intraoperative, postoperative, or postpartum photographs of clinical & pathological conditions. Transvaginal sonography which is growing in importance alongside abdominal photography, is also given broad consideration. Numerous statistical graphs & tables, & an extensive list of references, round off this work.

Engaging science writing that bravely approaches a new frontier in medical science and offers a whole new way of looking at the deep kinship between animals and human beings. Zoobiquity: a species-spanning approach to medicine bringing doctors and veterinarians together to improve the health of all species and their habitats. In the tradition of Temple Grandin, Oliver Sacks, and Neil Shubin, this is a remarkable narrative science book arguing that animal and human commonality can be used to diagnose, treat, and ultimately heal human patients. Through case studies of various species--human and animal kind alike--the authors reveal that a cross-species approach to medicine makes us not only better able to treat psychological and medical conditions but helps us understand our deep connection to other species with whom we share much more than just a planet. This revelatory book reaches across many disciplines--evolution, anthropology, sociology, biology, cutting-edge medicine and zoology--providing fascinating insights into the connection between animals and humans and what animals can teach us about the human body and mind.

Chapter 35 Non-Invasive Haemodynamics

Over recent years there has been a vast expansion in the variety of imaging techniques available, and developments in machine specifications continue apace. If radiologists and radiographers are to obtain optimal image quality while minimising exposure times, a good understanding of the fundamentals of the radiological science underpinning diagnostic imaging is essential. The second edition of this well-received textbook continues to cover all technical aspects of diagnostic radiology, and remains an ideal companion during examination preparation and beyond. The content

includes a review of basic science aspects of imaging, followed by a detailed explanation of radiological sciences, conventional x-ray image formation and other imaging techniques. The enormous technical advances in computed tomography, including multislice acquisition and 3D image reconstruction, digital imaging in the form of image plate and direct radiography, magnetic resonance imaging, colour flow imaging in ultrasound and positron radiopharmaceuticals in nuclear medicine, are all considered here. A chapter devoted to computers in radiology considers advances in radiology information systems and computer applications in image storage and communication systems. The text concludes with a series of general topics relating to diagnostic imaging. The content has been revised and updated throughout to ensure it remains in line with the Fellowship of the Royal College of Radiologists (FRCR) examination, while European and American perspectives on technology, guidelines and regulations ensure international relevance.

The six-volume set LNCS 11764, 11765, 11766, 11767, 11768, and 11769 constitutes the refereed proceedings of the 22nd International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI 2019, held in Shenzhen, China, in October 2019. The 539 revised full papers presented were carefully reviewed and selected from 1730 submissions in a double-blind review process. The papers are organized in the following topical sections: Part I: optical imaging; endoscopy; microscopy. Part II: image segmentation; image registration; cardiovascular imaging; growth, development, atrophy and progression. Part III: neuroimage reconstruction and synthesis; neuroimage segmentation; diffusion weighted magnetic resonance imaging; functional neuroimaging (fMRI); miscellaneous neuroimaging. Part IV: shape; prediction; detection and localization; machine learning; computer-aided diagnosis; image reconstruction and synthesis. Part V: computer assisted interventions; MIC meets CAI. Part VI: computed tomography; X-ray imaging.

Compact, hand-carried ultrasound devices are revolutionizing how healthcare providers practice medicine in nearly every specialty. The 2nd Edition of this award-winning text features all-new chapters, a greatly expanded video library, and new review questions to keep you fully up to date with the latest technology and its applications. Helps you interpret findings with a peer-reviewed, online video library with more than 1,000 ultrasound videos of normal and pathologic findings.

These videos are complemented by anatomical illustrations and text descriptions to maximize learning. Offers new online resources, including over 60 clinical cases and review questions in every chapter. Features fully updated content throughout, plus all-new chapters on hemodynamics, transesophageal echocardiography, transcranial Doppler ultrasound, pediatrics, neonatology, and 2nd/3rd trimester pregnancy. Shares the knowledge and expertise of expert contributors who are internationally recognized faculty from more than 60 institutions. Recipient of British Medical Association's President's Choice Award and Highly Commended in Internal Medicine at the BMA Medical Book Awards 2015 (first edition).

Many people are drawn to a physical yoga practice as a way to reduce stress and move more. However, because most of their time is spent at a desk, their bodies are often not prepared to perform many of the traditional physical poses. Additionally, naturally flexible people will be drawn to the practice, because it comes easily to them. However, they frequently lack the stability needed to support their joints in these positions, which makes them vulnerable to pain and repetitive stress injuries. Yoga Deconstructed offers the experience of yoga with an interdisciplinary approach that integrates other movement modalities and modern movement science. This approach helps students become more well-rounded in their movements, which better prepares them for asana and improves their ability to function in everyday life. This book teaches: How to help students move better and reduce their risk of injury within the scope of yoga, Pilates or any other movement modality. Regressions and progressions for human movement and yoga asana to fit the unique needs of the student. Critical thinking skills to help students safely transition from physical therapy to group classes. Strategies to introduce variability and neuromuscular re-education that help facilitate tissue resiliency, neuroplasticity, and new motor patterns. How to apply a skills-based approach, instead of a lineage-based approach Modern movement applications, including somatics, sensory feedback methods, and corrective exercise. How to deconstruct and expand yoga asana beyond static, two-dimensional shapes to reduce the risk of hypermobility and repetitive stress injuries. Addresses the needs of radiology and gynecology for a comprehensive, one-stop source, providing information and guidance on all the imaging and interventional modalities available in an important subspecialty area of both radiology and gynaecology. All imaging modalities available are discussed and integrated into each chapter. Covers both diagnostic and interventional procedures, as well as normal and abnormal appearances. all imaging modalities available are discussed and integrated into each chapter covers both diagnostic and interventional procedures authors reflect the spectrum of expertise needed to understand gynaecological imaging cover both the normal and abnormal appearances congenital, benign and malignant conditions of each anatomical component fully discussed includes chapters on screening for ovarian and endometrial malignancy several chapters devoted to the pelvis, in children and in, postpartum and postmenopausal women fully illustrated, with over 1000 half-tones and line-drawings and 50 colour illustrations This volume in the series reflects the rapid advances that have occurred in the use of ultrasound in the investigation of gastroenterology diseases.

Fully revised and reformatted, Veterinary Echocardiography, Second Edition covers the pertinent physical principles of sound that allow for use of ultrasound as a diagnostic tool. It depicts the two dimensional, M-mode and Doppler examinations, including instructions and pictures for obtaining these images. Additional coverage includes echocardiographic examination assessment, echocardiographic features of common cardiac diseases, acquired valvular

diseases, features of systemic and pulmonary hypertension, myopathies, pericardial effusion and cardiac masses, congenital shunts, and stenotic lesions. This book provides a comprehensive reference and instruction manual for echocardiographers at all levels of experience.

The bold futurist and bestselling author of *The Singularity is Nearer* explores the limitless potential of reverse-engineering the human brain. Ray Kurzweil is arguably today's most influential—and often controversial—futurist. In *How to Create a Mind*, Kurzweil presents a provocative exploration of the most important project in human-machine civilization—reverse engineering the brain to understand precisely how it works and using that knowledge to create even more intelligent machines. Kurzweil discusses how the brain functions, how the mind emerges from the brain, and the implications of vastly increasing the powers of our intelligence in addressing the world's problems. He thoughtfully examines emotional and moral intelligence and the origins of consciousness and envisions the radical possibilities of our merging with the intelligent technology we are creating. Certain to be one of the most widely discussed and debated science books of the year, *How to Create a Mind* is sure to take its place alongside Kurzweil's previous classics which include *Fantastic Voyage: Live Long Enough to Live Forever* and *The Age of Spiritual Machines*.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A new, clinically relevant, case-based review of anesthesiology—based on most widely-read text in the field Essential for written and oral board preparation, this new companion to Morgan and Mikhail's *Clinical Anesthesiology*, Sixth Edition is packed with informative clinical case vignettes. 300 succinct case descriptions emphasize common medical issues faced in clinical practice. Each case is followed by a series of board-style question and answers. The book reveals how experienced clinicians use critical thinking in their clinical decision making. With case-based learning now pervasive in training for all medical specialties, especially anesthesiology, this unique resource fills a void in medical publishing. The cases are conveniently organized to match the content of the parent textbook to facilitate side-by-side study. *Morgan and Mikhail's Clinical Anesthesiology Cases* is also valuable as a quick clinical refresher before starting a busy day in the operating room. Features:

- 300 case descriptions of common perioperative issues
- Includes access to online videos demonstrating key procedures
- Covers perioperative problems commonly faced in anesthetic practice
- Each case is accompanied by board-style Q&As
- Organized by subspecialty, disease, procedure, and patient age for easy correlation to real life cases
- Ideal for preparation for written and oral board certification, maintenance of certification activities, and ongoing learning for anesthesiologists, nurse anesthetists, and anesthesiologist assistants

Although more widely utilized in Europe and other parts of the world, musculoskeletal ultrasound is gaining wider acceptance in this country not only because of its ability to image anatomic structures but also because of its low cost compared with magnetic resonance. Reviewed in this issue is imaging of common tendon and muscle injuries of the upper and lower extremities, the rotator cuff, musculoskeletal infections, nerve abnormalities, soft tissue masses, and hernias among others. Also covered are the use of ultrasound in joint aspiration and percutaneous interventional procedures.

This volume provides an understanding of the technology and clinical uses of three-dimensional ultrasound. The aim of the text is to assist radiologists in asking the right questions in choosing the ultrasound equipment to buy for their hospitals. The authors explain volume imaging and volume sonography technology and current information on acquisition and display methods, visualization, and quantitative analysis. The

advantages of different types of acquisition and display are discussed to assist radiologists in comparing different types of equipment. *Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care* is a comprehensive yet practical reference, providing hands-on information essential to veterinarians and veterinary technicians involved in emergency and critical care. Written by an expert team of veterinarians and veterinary technicians, this well-referenced book offers step-by-step protocols for performing advanced emergency and critical care procedures and monitoring techniques. Packed with practical guidance in an easy-to-use format, this book is ideally suited for quick access in emergency rooms or intensive care units. Organized primarily by body system, each chapter covers general principles, indications, equipment, techniques, basic interpretation, troubleshooting, and contraindications. Standardized protocols supply equipment lists and step-by-step instructions throughout, and a companion website offers images from the book in PowerPoint and protocols as downloadable Wordfiles. *Advanced Monitoring and Procedures for Small Animal Emergency and Critical Care* is a valuable resource for any veterinary staff member with an interest in improving the standard of care in emergency and critical care medicine.

This comprehensive book provides an in-depth examination of a broad range of procedures that benefit from ultrasound guidance in the point-of-care setting. It covers common procedures such as ultrasound-guided central and peripheral venous access to regional nerve blocks, temporary pacemaker placement, joint aspirations, percutaneous drainage, a variety of injections and airway management. Chapters examine a variety of topics critical to successful ultrasound procedures, including relevant sonoanatomy, necessary equipment, proper preparation, potential complications, existing evidence and how to integrate these procedures into clinical practice. For each procedure, the book includes step-by-step instructions and discusses the advantages of ultrasound guidance over traditional techniques. Providing rich procedural detail to help in clinical decision making, *The Ultimate Guide to Point-of-Care Ultrasound-Guided Procedures* is an indispensable, go-to reference for all health care providers who work in a variety of clinical settings including primary care, emergency department, urgent care, intensive care units, pediatrics, pre-hospital settings and those who practice in the growing number of new ultrasound programs in these specialties.

The World Health Organization stated that approximately two-thirds of the world's population lacks adequate access to medical imaging. The scarcity of imaging services in developing regions contributes to a widening disparity of health care and limits global public health programs that require imaging. Radiology is an important component of many global health programs, including those that address tuberculosis, AIDS-related disease, trauma, occupational and environmental exposures, breast cancer screening, and maternal-infant health care. There is a growing need for medical imaging in global health efforts and humanitarian outreach, particularly as an increasing number of academic, government, and non-governmental organizations expand delivery of health care to disadvantaged people worldwide. To systematically deploy clinical imaging services to low-resource settings requires contributions from a variety of disciplines such as clinical radiology, epidemiology, public health, finance, radiation physics, information technology, engineering, and others. This book will review critical concepts for those interested in managing, establishing, or participating in a medical imaging program for resource-limited environments and diverse cross-cultural contexts undergoing imaging technology adaptation.

This is a survey of the uses and methods of duplex Doppler in the arterial and venous systems. Topics receiving special emphasis include, haemodynamics, venous thrombosis, applications to pregnancy, carotid artery evaluation and the assessment of lower extremity.

Make sure you are thoroughly prepared to work in a clinical lab. *Rodak's Hematology: Clinical Principles and Applications*, 6th Edition uses hundreds of full-color photomicrographs to help you understand the essentials of hematology. This new edition shows how to accurately

identify cells, simplifies hemostasis and thrombosis concepts, and covers normal hematopoiesis through diseases of erythroid, myeloid, lymphoid, and megakaryocytic origins. Easy to follow and understand, this book also covers key topics including: working in a hematology lab; complementary testing areas such as flow cytometry, cytogenetics, and molecular diagnostics; the parts and functions of the cell; and laboratory testing of blood cells and body fluid cells. UPDATED nearly 700 full-color illustrations and photomicrographs make it easier for you to visualize hematology concepts and show what you'll encounter in the lab, with images appearing near their mentions in the text to minimize flipping pages back and forth. UPDATED content throughout text reflects latest information on hematology. Instructions for lab procedures include sources of possible errors along with comments. Hematology instruments are described, compared, and contrasted. Case studies in each chapter provide opportunities to apply hematology concepts to real-life scenarios. Hematology/hemostasis reference ranges are listed on the inside front and back covers for quick reference. A bulleted summary makes it easy for you to review the important points in every chapter. Learning objectives begin each chapter and indicate what you should achieve, with review questions appearing at the end. A glossary of key terms makes it easy to find and learn definitions. NEW! Additional content on cell structure and receptors helps you learn to identify these organisms. NEW! New chapter on Introduction to Hematology Malignancies provides an overview of diagnostic technology and techniques used in the lab.

This book provides a unique up-to-date and comprehensive overview of the most important diagnostic methods available for assessing liver cirrhosis and portal hypertension. The book covers all the significant advances made in the last 10 years in HVPG and biopsy interpretation, imaging and elastography. This is a unique and well structured book authored by senior experts in the field aimed at providing updated knowledge to the hepatology specialist and to the physicians interested in chronic liver disease. The book starts by giving an overview of the disease, outlining the clinical needs in this field; this is followed by detailed information both on the invasive gold-standard methods (HVPG measurement, liver biopsy, endoscopy), and on the standard and emerging non-invasive methods, including serum markers of fibrosis, ultrasound-elastography, magnetic resonance elastography, ultrasound, contrast-enhanced ultrasound, CT, magnetic resonance and derived methods (dynamic flow assessment). The final part of the book is devoted to diagnostic tests in non-cirrhotic causes of portal hypertension (Budd-Chiari Syndrome, Portal vein thrombosis, idiopathic portal hypertension, etc), and in pediatric portal hypertension. Written by a team of worldwide opinion leaders this book pays special attention to the most promising novel non-invasive methods in the field.

It is one of the most extraordinary cases in the history of science: the mating calls of insects were mistaken for a "sonic weapon" that led to a major diplomatic row. Since August 2017, the world media has been absorbed in the "attack" on diplomats from the American and Canadian Embassies in Cuba. While physicians treating victims have described it as a novel and perplexing condition that involves an array of complaints including brain damage, the authors present compelling evidence that mass psychogenic illness was the cause of "Havana Syndrome." This mysterious condition that has baffled experts is explored across 11-chapters which offer insights by a prominent neurologist and an expert on psychogenic illness. A lively and enthralling read, the authors explore the history of similar scares from the 18th century belief that sounds from certain musical instruments were harmful to human health, to 19th century cases of "telephone shock," and more contemporary panics involving people living near wind turbines that have been tied to a variety of health complaints. The authors provide dozens of examples of kindred episodes of mass hysteria throughout history, in addition to psychosomatic conditions and even the role of insects in triggering outbreaks. Havana Syndrome: Mass Psychogenic Illness and the Real Story Behind the Embassy Mystery and Hysteria is a scientific detective story and a case study in the social construction of mass psychogenic illness.

The Oxford Textbook of Obstetrics and Gynaecology is an up-to-date, objective and readable text that covers the full speciality of Obstetrics and Gynaecology. This comprehensive and rigorously referenced textbook will be a vital resource in print and online for all practising clinicians. Edited by a team of four leading figures in the field, whose clinical and scientific backgrounds collectively cover the whole spectrum of Obstetrics and Gynaecology with particular expertise in fetomaternal medicine and obstetrics, gynaecological oncology, urogynaecology, and reproductive medicine, the textbook helps inform and promote evidence-based practice and improve clinical outcomes worldwide across all facets of the discipline. The editors are supported by contributors who are internationally renowned specialists and ensure high quality and global perspective to the work. Larger sections on the Basics in Obstetrics and Gynaecology, Fetomaternal medicine, Management of Labour, Gynaecological problems, Gynaecological oncology are complimented by specialist sections on areas such as Neonatal Care & Neonatal Problems, Reproductive medicine, and Urogynaecology and Pelvic Floor Disorders to name a few. The evidence-based presentation of current diagnostic and therapeutic methods is complemented in the text by numerous treatment algorithms, giving the reader the knowledge and tools needed for effective clinical practice. The Oxford Textbook of Obstetrics and Gynaecology is essential reading for specialist obstetricians and gynaecologists, subspecialists, and O&G trainees across the world.

Veterinary Practice News Oxford Textbook of Obstetrics and Gynaecology Oxford University Press, USA

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