

Emergency Point Of Care Ultrasound

Life-Saving Point-Of-Care Ultrasound Applications Stephen J. Leech.2009-01-01 The Life-Saving Point-of-Care Guide is perfect for beginner and expert users in emergency medicine, critical care, and trauma care. This step-by-step, just the facts reference covers life-saving point-of-care ultrasound applications and summarizes these critical applications in a compact, simple, and easy to use pocket reference guide. Applications covered include: FAST/Trauma, Pneumothorax, Cardiac, Ultrasound-Guided Vascular Access, Aorta, and Pelvic Ultrasound. Illustrations include: Transducer and Preset Choices, Transducer Positioning, Key Anatomic Landmarks, Scanning Technique, Normal Findings, Where to Look for Pathology, Pearls and Pitfalls, and Recommended Images to Save. The guide is spiral bound, fits easily in a jacket pocket, and is printed on environmentally-friendly synthetic paper for durability. This product is developed and published by Emergency Ultrasound Consultants, the experts in point-of care ultrasound.

Point-of-Care Ultrasound in Critical Care Luke Flower,Pradeep Madhivathanan.2022-08-04 Point-of-care ultrasound has become a vital part of patient assessment in critical care units across the world. Its diagnostic sensitivity and specificity allow clinicians to accurately examine all major organ systems within a matter of minutes. This book provides readers with a comprehensive, accurate and up-to-date practical guide to the use of POCUS in critical care, and features: detailed descriptions of how to perform a multi-system POCUS examination and its advantages over traditional techniques practical details of how to use POCUS in the assessment of shock, trauma and cardiac arrest

contributions from leading POCUS specialists accreditation pathways hundreds of images The book is accompanied by an additional image and video clip library which will help readers better understand ultrasound and incorporate it into their daily practice. Point-of-Care Ultrasound in Critical Care is an essential handbook for clinicians working in critical care and anaesthesia. This book is also useful for those working in emergency medicine, internal medicine, surgery, and pre-hospital medicine. With POCUS likely to become a core competency in intensive care medicine over the coming years, this book is the perfect handbook for trainees.

Prepare for the Pediatric Emergency Medicine Board Examination

Muhammad Waseem, Isabel A. Barata, Jennifer H. Chao, David Foster, Noah Kondamudi. 2020-05-22 This book outlines the essential knowledge required for the management of critically ill and severely injured children. It is designed to facilitate successful completion of the Pediatric Emergency Medicine Board Examination of the American Board of Pediatrics (ABP). Each chapter follows a Question & Answer format, covering major areas in pediatrics such as cardiology, dermatology, nephrology, surgery and trauma. The book concludes with a comprehensive practice test, allowing it to function as a well-rounded reference and study guide. Prepare for the Pediatric Emergency Medicine Board Examination is an essential resource for any clinician or trainee seeking a concise review of how to manage critically ill and severely injured children.

Emergency Ultrasound Made Easy E-Book Justin

Bowra, Russell E McLaughlin, Paul Atkinson, Jaimie L Henry. 2021-03-27 This simple, jargon-free text fits in your pocket, providing an 'on-the-spot' guide to clinician-performed ultrasound in the emergency department, intensive care unit or in the field. Written by an international team of experts and comprehensively updated in its third edition, Emergency Ultrasound Made Easy brings together in one volume the latest indications for focused

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ultrasound, including those related to the COVID-19 pandemic. The text is highly accessible and easy to use in an emergency. It is aimed at the rapidly expanding cohort of non-radiologist clinical sonographers who use focused ultrasound. However, its broad scope (for example using ultrasound in the rapid diagnosis of DVT) makes it an invaluable addition to the library of any doctor with an interest in the technique, whether in primary care or the hospital setting. Simple to read and follow Free of jargon Fast step-by-step guide to ultrasound procedures Clear diagrams Tips and pitfalls to avoid Multiple accompanying videos featuring examples of ultrasound in clinical practice New chapter on the use of ultrasound in small anatomical structures such as the eyes and testes New chapter on paediatric ultrasound Respiratory chapter updated to include COVID-19 Multiple accompanying videos featuring examples of ultrasound in clinical practice New chapter on the use of ultrasound in small anatomical structures such as the eyes and testes New chapter on paediatric ultrasound Respiratory chapter updated to include COVID-19

Ultrasound for Primary Care Paul Bornemann.2020-07-29 Master high-yield point-of-care ultrasound applications that are targeted specifically to answer questions that arise commonly in the outpatient clinic! Written for primary care providers in Family Medicine, Pediatrics and Internal Medicine, Ultrasound for Primary Care is a practical, easy-to-read guide. Learn to incorporate ultrasound to augment your physical exam for evaluation of thyroid nodules, enlarged lymph nodes, pericardial effusion, chronic kidney disease, and a host of musculoskeletal issues, and much more. Additionally, included are chapters on ultrasound for guidance of procedures including joint injections, lumbar puncture and needle biopsy, to name a few. Well-illustrated and highly templated, this unique title helps you expand the scope of your practice and provide more effective patient care. This is the tablet version which does not include access to the supplemental content mentioned in the text.

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Ultrasound Program Management Vivek S. Tayal, Michael Blaivas, Troy R Foster. 2018-02-01 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.

Point-of-Care Ultrasound Techniques for the Small Animal Practitioner Gregory R. Lisciandro. 2021-03-30 This book offers a thorough revision and update to the first landmark book that presented a standardized approach to focused point-of-care ultrasound exams of the abdomen, thorax, musculoskeletal and eye in veterinary practice. Now incorporating new applications for focused ultrasound exams and additional species, this Second Edition continues to be a state-of-the-art reference for using abbreviated ultrasound exams in clinical practice. A companion website features supplementary video clips of these point-of-care

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techniques depicting actual ultrasound exams for comparison and comprehension. New chapters in *Point-of-Care Ultrasound Techniques for the Small Animal Practitioner, Second Edition* cover ultrasound-guided nerve blocks, musculoskeletal, brain imaging, and applications of focused ultrasound techniques in cats, exotics and marine mammals—making it an essential purchase for veterinarians wanting to incorporate point-of-care ultrasound techniques into their veterinary practices. Presents a standardized approach to point-of-care ultrasound as an extension of the physical exam, including trauma, non-trauma, and monitoring applications Includes coverage of new techniques for focused ultrasound exams, including lung, anesthesia and ultrasound guided nerve blocks, transcranial brain imaging, musculoskeletal, volume status evaluation, and rapid assessment for treatable forms of shock Adds cats, exotic and wildlife mammals, and marine mammals to the existing canine coverage Emphasizes the integration of point-of-care ultrasound techniques for optimizing patient care and accurate patient assessment Offers access to a companion website with supplementary video clips showing many clinically relevant didactic examples The second edition of *Point-of-Care Ultrasound Techniques for the Small Animal Practitioner* is an excellent resource for veterinary practitioners, ranging from the general practitioner to nearly all clinical specialists, including internal medicine, oncology, cardiology, emergency and critical care, anesthesiology, ophthalmology, exotics, and zoo medicine specialists, and veterinary students.

Emergency Medicine, An Issue of Ultrasound Clinics, Mike Blaivas. 2014-04-03 Emergency Ultrasound is comprehensively reviewed by guest editors Michael Blaivas and Srikar Adhikari. Articles will include: introduction, history and progress of emergency ultrasound; airway and thoracic ultrasound; procedural guidance with ultrasound in the emergency patient; pearls and pitfalls: common ultrasound applications and risk

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management strategies; ultrasound protocol use in the evaluation of an unstable patient; pediatric emergency ultrasound; pelvic ultrasound; focused cardiac ultrasound in the emergent patient; vascular ultrasound in emergency medicine; symptom-based ultrasound; ENT ultrasound; superficial and MSK ultrasound: select applications, and more!

Pocket Guide to POCUS: Point-of-Care Tips for Point-of-Care Ultrasound (eBook) Cameron Baston,Christy Moore,Elizabeth A. Krebs,Anthony J. Dean,Nova Panebianco.2019-02-05 A unique pocket guide to the use of ultrasound at the point of care Lately, there has been an enormous amount of interest in the use of ultrasound for both procedural and diagnostic guidance at the point of care. Although this type of instruction can be found in some textbooks, they are heavy, dense, and written for the classroom, not real-world clinical situations. Pocket Guide to POCUS is the portable, quick-hit alternative. Pocket Guide to POCUS provides trainees with the tips and reminders they may need at the point of care. Things such as what images to acquire, and how to get them, or a quick glance at pathology in comparison to a normal image. For learners at all levels, this pocket guide will hopefully reduce their fear of scanning, while preventing some of the more common pitfalls the authors have observed over their more than 50 cumulative years' experience. Each chapter of the book is divided into four sections: •Key Images•Acquisition Tips•Interpretation and Pitfalls•Examples of Pathology This information is conveniently located on cards that can be removed from the book and brought with you to the bedside. You can take notes on the cards, check off the scans that you've done, and of course, refer to them in order to provide your patients with the best care possible.

Emergency Point-of-Care Ultrasound James A. Connolly,Anthony J. Dean,Beatrice Hoffmann,Robert D. Jarman.2017-10-23 Featuring contributions from internationally recognized experts in point-of-care sonography, *Emergency Point-of-Care Ultrasound*,

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Second Edition combines a wealth of images with clear, succinct text to help beginners, as well as experienced sonographers, develop and refine their sonography skills. The book contains chapters devoted to scanning the chest, abdomen, head and neck, and extremities, as well as paediatric evaluations, ultrasound-guided vascular access, and more. An entire section is devoted to the syndromic approach for an array of symptoms and patient populations, including chest and abdominal pain, respiratory distress, HIV and TB coinfecting patients, and pregnant patients. Also included is expert guidance on administering ultrasound in a variety of challenging environments, such as communities and regions with underdeveloped healthcare systems, hostile environments, and cyberspace. Each chapter begins with an introduction to the focused scan under discussion and a detailed description of methods for obtaining useful images. This is followed by examples of normal and abnormal scans, along with discussions of potential pitfalls of the technique, valuable insights from experienced users, and summaries of the most up-to-date evidence. *Emergency Point-of-Care Ultrasound, Second Edition* is a valuable working resource for emergency medicine residents and trainees, practitioners who are just bringing ultrasound scanning into their practices, and clinicians with many years of sonographic experience.

Emergency and Clinical Ultrasound Board Review Alan Chiem, Vi Am Dinh. 2020-04-14 *Emergency and Clinical Ultrasound Board Review* is a comprehensive guide for preparing for the Advanced Emergency Medicine Ultrasonography or Critical Care Echocardiography board exams, and for residents preparing for in-training examinations in ultrasound. The text consists of over 500 multiple-choice questions, organized into 18 chapters covering ultrasound topics such as physics, eFAST, echocardiography, thoracic, aorta, hepatobiliary, renal, pregnancy, soft tissue, ocular, procedural, airway, ENT, DVT, testicular, abdominal, and musculoskeletal applications. This is a

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multi-specialty work, with contributors representing the fields of emergency medicine, internal medicine, cardiology, critical care, and radiology. Chapters include questions, answers with detailed explanations and references to primary or landmark articles to help better navigate a standardized exam. Questions are written in a case-based format that emulates the ABEM and NBE board exams, and are supplemented by over 800 figures, tables, boxes, and online videos.

Emergency Medicine Ultrasound Pocketbook Guide Moises Moreno, Andrew Napier. 2020-06-27 This booklet was written by clinicians who are actively practicing day-to-day emergency medicine in order to provide an introduction to the use of point-of-care ultrasound in the Emergency Department for new trainees or as a reference point for seasoned EM physicians. Inside you will find a review of all of the Core Emergency Ultrasound Applications. Editing and contributions to this booklet were done by a board-certified Emergency Medicine physician who is fellowship-trained in ultrasound and is currently serving as an Emergency Medicine Ultrasound Fellowship Director. This carefully constructed booklet offers detailed pictures with labels of required ultrasound imaging, an explanation of common ultrasound findings, imaging of common and identifiable pathology, descriptions of obtaining required views, and pearls of wisdom for obtaining difficult ultrasound views. Easily fitting into a lab-coat pocket, this guide is the perfect reference while on-shift.

Case Studies in Pediatric Emergency and Critical Care

Ultrasound David J. McLario, John L. Kendall. 2013-10-10 Clinician-performed bedside ultrasound is an exciting new development in medicine. Numerous diagnostic and procedural applications show great promise for improving the care of children. Many pediatric providers, however, remain unaware of its potential and ultrasound continues to be under-utilized in both the investigation and management of ill and injured children.

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Case Studies in Pediatric Emergency and Critical Care

Ultrasound illustrates the utility of bedside ultrasound in a variety of scenarios, including the emergency setting and critical care unit. A wide range of diagnostic and procedural applications are covered in fifty-nine cases, recreating real-life experiences of expert practitioners. The cases are concise and readable, with teaching points that highlight how ultrasound can be used to expedite and focus pediatric care. With hundreds of high-quality images, and video content accompanying many cases, this text is essential reading for pediatricians, emergency physicians, pediatric anesthesiologists and critical care physicians.

Emergency Ultrasound, Second Edition O. John Ma, James Mateer, Michael Blaivas. 2007-10-30 The pioneering emergency ultrasound guide--updated and expanded with coverage of the newest technologies Praise for the first edition:--The book is intended for emergency physicians, but any practicing physician who uses ultrasound for the assessment of patients could clearly benefit from this book....This book is certainly unique in that it provides a clinically relevant approach to such a rapidly growing field. Each chapter's objective is met while not inundating the reader with unnecessary technical details. Although simply reading the book is not sufficient for expertise, the material provides a solid foundation in understanding the subject. 5 STARS!--Doody's Review Service Emergency Ultrasound is firmly established as the first state-of-the-art reference on the training, techniques, and diagnostic skills needed to perform successful ultrasound exams in the emergency department. Utilizing a templated chapter format, this trusted resource presents a wide range of detailed guidelines on performing ultrasound exams, case studies, and side-by-side comparisons of normal and abnormal scans. Emergency Ultrasound, Second Edition, is fully updated and expanded to include the latest uses of this crucial diagnostic tool, including Doppler Ultrasound for deep vein thrombosis. This groundbreaking text is the one you'll rely on for

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every kind of diagnosis in the emergency setting, from soft tissue infections and peritonsillar abscess, to foreign bodies and lumbar puncture and arthrocentesis. Features: NEW! Chapters on ocular applications, prehospital applications, and ultrasound-guided procedures NEW! Content that features the latest instruments NEW! Numerous color Doppler images, plus hundreds of traditional black and white ultrasound images NEW! DVD with videos showing the most current ultrasound procedures performed in real time Coverage of ultrasound in trauma, cardiac, hepatobiliary, renal, testicular, and other applications A templated chapter organization that consists of key points, introduction, clinical considerations and indications, anatomic considerations, technique, common abnormalities, pitfalls, case studies, references, and more Focus on common findings and pitfalls in every clinical chapter Case studies in each chapter

Ma and Mateer's Emergency Ultrasound, Third Edition O. John Ma, James R. Mateer, Robert F. Reardon, Scott A. Joing. 2013-10-06 The cornerstone text in emergency ultrasound-- fully updated and expanded Ma and Mateer's Emergency Ultrasound has virtually defined the field since the first edition was released. This trusted classic expertly covers the training, techniques, and diagnostic skills for successful point-of-care ultrasound with a special emphasis on problems most commonly encountered in the emergency or acute care setting. Features Consistent chapter organization: clinical considerations and indications anatomical considerations technique common abnormalities pitfalls case studies Coverage of trauma, cardiac, critical care, pulmonary, hepatobiliary, renal, testicular, and other ultrasound applications Side-by-side comparisons of normal and abnormal scans NEW chapters on pulmonary and critical care and expanded chapters on cardiac and musculoskeletal ultrasound An all New DVD demonstrates common ultrasound procedures in real time. With its updated content, enhanced DVD, and outstanding authors, no other text improves your ability to

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diagnose in the emergency setting like the third edition of Ma and Mateer's Emergency Ultrasound.

Point of Care Ultrasound E-book Nilam J Soni, Robert Arntfield, Pierre Kory. 2019-04-26 Compact, hand-carried ultrasound devices are revolutionizing how healthcare providers practice medicine in nearly every specialty. The 2nd Edition of this BMA-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).

Ma and Mateers Emergency Ultrasound, 4th edition O. John Ma, James R. Mateer, Robert F. Reardon. 2020-10-06 The pioneering text in emergency ultrasound—the only guide you will need Doody's Core Titles for 2021! Ma and Mateer's Emergency Ultrasound has been the definitive text for clinicians since it was first published. Now updated with new chapters, expanded coverage, and new video, this generously illustrated guide covers the training, techniques, and skills for successfully applying point-of-care ultrasound, with a special emphasis on clinical issues commonly encountered in the emergency or acute care settings.

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Features Well-organized chapters address: Clinical considerations and indications Anatomical considerations Techniques Common abnormalities Pitfalls Video cases Coverage of trauma, cardiac, critical care, pulmonary, hepatobiliary, renal, testicular, and other ultrasound applications Expanded chapters on cardiac and musculoskeletal ultrasound Useful measurements and quantitative references throughout Side-by-side comparisons of normal and abnormal scans New chapters on resuscitation of the critically ill and regional anesthesia Videos easily accessed via QR codes More than 800 photos and illustrations With consistent chapter organization that makes it easy to find the answers you need, this peerless text serves as an essential roadmap and reference to point-of-care ultrasound.

Ultrasound for the Win! Jeffrey Shih.2016-09 *Ultrasound for the Win! Emergency Medicine Cases, Volume 1* is an educational series based on real Emergency Department cases where point-of-care ultrasound aided in the diagnosis or changed the management of a patient's care! This collection of real jaw-dropping cases is geared towards anyone interested in learning more about point-of-care ultrasound! The cases included highlight several interesting and often surprising findings seen on point-of-care ultrasound that may have otherwise been missed! These exciting cases are expert peer-reviewed by Physician Leaders in the field of Point-of-Care Ultrasound including Dr. Chris Moore, Dr. Mike Mallin, Dr. Resa Lewiss, Dr. Mike Stone, and many more!

Critical Care Ultrasonography Alexander Levitov,Paul H. Mayo,Anthony D. Slonim.2009-09-04 A complete, hands-on guide to successful image acquisition and interpretation at the bedside Written by top practitioners in the field, this comprehensive book is filled with practical guidance that helps you master clinical ultrasonography in a critical care environment. Here, you'll learn exactly how to utilize diagnostic ultrasound as part of the physical exam, as the book examines current evidence supporting its use in the critically ill adult and child. Organized by body system,

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Critical Care Ultrasonography features self-contained chapters that can be used as individual reference guides for a range of interventions, from transthoracic echocardiography to echocardiographic evaluation of cardiac trauma. Through this in-depth coverage, you'll get a sense of how this essential technology supports the cross-disciplinary nature of critical care. The book's authoritative content is reinforced throughout by a full-color presentation and hundreds of concept-clarifying illustrations, figures, and images. Features Comprehensive coverage of the fundamentals of ultrasound use in critical care Guidance on ultrasound procedures enables practitioners to use ultrasound for vascular and axial procedures, improving safety and ensuring that nationally recognized compliance standards are upheld Cardiac ultrasound chapters help you assess and monitor the patient's cardiopulmonary status non-invasively Chapter on Neck and Upper Respiratory Ultrasound offers an overview of little-known techniques that have not been comprehensively described in any other source Full-color presentation, with 495 illustrations that emphasize the basic skills required to visualize anatomic structures and interpret findings

The Ultimate Guide to Point-of-Care Ultrasound-Guided Procedures Srikar Adhikari, Michael Blaivas. 2019-11-30

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

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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. *Manual of Emergency and Critical Care Ultrasound* Vicki E.

Noble, Bret P. Nelson. 2011-06-16 Ultrasound has revolutionized a physician's ability to make urgent and emergent diagnoses at the bedside, and has changed the management of many acute injuries and conditions. This is a practical, concise introduction to what is rapidly becoming an essential tool for all critical care physicians: bedside emergency ultrasound. The Manual covers the full spectrum of conditions diagnosed using ultrasound and gives practical guidance in how to use ultrasound for common invasive procedures. Major applications are introduced using focused diagnostic questions and reviewing the image-acquisition skills needed to answer them. Images of positive and negative findings are presented, and scanning tips for improving image quality. The second edition has been substantially revised and expanded, with new images, updated literature reviews, new applications and clinical algorithms. New chapters cover additional procedures, musculoskeletal and pediatric applications, and the use of ultrasound in resuscitation. This text is invaluable for emergency physicians at all levels.

Essentials of Accident and Emergency Medicine Ahmad Subhy Alsheikhly. 2019-01-10 As physicians, we have a constant passion for improving and maintaining patient's care and safety. The book is divided into three parts focusing on the essentials of general concepts, diagnosis, and management of accident and emergency medicine, as well as an academic approach to teaching in the emergency setting. The chapters selected for this

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book are written by an excellent group of recognized emergency surgeons and physicians from different countries and cultures facilitating a comprehensive and interesting approach to the problems of emergency treatment. We hope this book will be helpful and used worldwide by medical students, clinicians, and researchers enhancing their knowledge and advancing their objectives by a book that intends to become a reference text for research and practice within accident and emergency medicine. *Point of Care Ultrasound for Emergency Medicine and Resuscitation* Paul Atkinson, Justin Bowra, Tim Harris. 2019-05-09

The Oxford Clinical Imaging Guides are specifically designed to help doctors master imaging techniques. Each guide explains the principles and practice of using imaging in an easy-to-read, highly-illustrated, and authoritative manner. *Point of Care Ultrasound for Emergency Medicine and Resuscitation* is the definitive guide to using this indispensable clinical tool quickly, safely, and accurately to diagnose patients in emergency, acute, and critical care settings. With a practical focus on how to perform ultrasound and interpret images, this book demonstrates how the reader can use ultrasound safely in patient management to diagnose and manage shock, acute presentations, or the acute phases of key conditions. Extensively illustrated, this resource also comes with online access to 160 ultrasound clips and over 130 annotated ultrasound images. Written by expert educators, this book is mapped to the curriculum for the International Federation for Emergency Medicine to teach emergency and acute medics exactly what they need to know. This guide is highly relevant for the syllabi of Emergency Medicine colleges and associations in the USA, Canada, UK, Australasia and South Africa.

A Practical Guide to Point of Care Ultrasound (POCUS) Arunangshu Chakraborty, Balakrishnan Ashokka. 2022-09-10 This book covers point of care ultrasound (POCUS) in a practical, problem oriented and illustrated manner. It begins with

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introduction to the basic principles of medical ultrasound imaging and ultrasound guided interventions and outlines point of care ultrasound in a lucid manner for rapid learning for medical students as well as practitioners. It contains chapters on ultrasound of the airways, thoracic ultrasound including lungs and transthoracic screening echocardiogram, vascular assessment, ultrasound of the abdomen for focussed trauma assessment, gastric volume assessment and ultrasound guided interventions such as vascular cannulations, pleurocentesis, etc. along with some of the latest point of care ultrasound techniques such as ocular assessment and assessment of the foetus and placenta in the operation theatre. This book will help the intensivist, emergency physician and anaesthesiologist to learn the basics of POCUS, which ostensibly, is the future of medical practice. It also includes objective structured clinical examination (OSCE) questions after every chapter as well as multiple choice questions (MCQs) that will benefit the students greatly. The book also includes videos from some of the celebrated practitioners of POCUS providing a unique learning experience. This book is suited for students, trainees and practitioners alike. The modules of POCUS described here are part of the curriculum of anaesthesiology in the UK, USA, Singapore, Australia/ New Zealand and most of the countries. The book also covers the curriculum of POCUS in critical care and emergency medicine courses.

Gastrointestinal Emergencies Autumn Graham, David J. Carlberg. 2019-02-05 This book answers key questions asked by emergency clinicians faced with complex gastrointestinal and abdominal pain presentations. Instead of a traditional format that includes epidemiology, pathophysiology, diagnosis, and treatment options, this book takes an approach that mirrors the way clinicians interact with patients - by asking and answering specific clinical care questions. The book is organized into sections by presentation - gastrointestinal bleeding, for example -

each of which contains chapters on specific questions, such as “What is the best clinical risk score for low risk GIB patients?” Each clinical question comes with a detailed, evidence-based response and a summary that gives best practices, recommendations, and references. Additionally, at the end of each section is a chapter titled “Expert Corner,” which asks the same clinical questions to a surgical or gastrointestinal specialist and includes key pearls these experts have for emergency medicine practitioners. *Gastrointestinal Emergencies: Evidence-Based Answers to Key Clinical Questions* is an essential guide for emergency medicine physicians, residents, and medical students who want to review and improve their care of acute gastrointestinal emergencies.

Ultrasound in Emergency Medicine Michael Heller, Dietrich Jehle. 1995 This text provides readers with the background needed to use ultrasound most effectively in critical situations. It explains basic principles, primary and secondary applications, and interpretation.

Oncologic Critical Care Joseph L. Nates, Kristen J. Price. 2019-10-30 This major reference work is the most comprehensive resource on oncologic critical care. The text reviews all significant aspects of oncologic ICU practices, with a particular focus on challenges encountered in the diagnosis and management of the critically ill cancer patient population. Comprised of over 140 chapters, the text explores such topics as the organization and management of an oncologic ICU, diseases and complications encountered in the oncologic ICU, multidisciplinary care, surgical care, transfusion medicine, special patient populations, critical care procedures, ethics, pain management, and palliative care. Written by worldwide experts in the field, *Oncologic Critical Care* is a valuable resource for intensivists, advance practice providers, nurses, and other healthcare providers, that will help close significant knowledge and educational gaps within the realm of medical care for

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critically ill cancer patients.

Ultrasound, An Issue of Critical Care Clinics, Theresa S.

Wu.2014-02-09 Dr. Wu has established an expert panel of authors covering the latest in Ultrasound technologies and their use in the ICU. Topics discussed include ocular ultrasound, basic procedures, resuscitation, cardiology, EFAST, and more!

Clinical Ultrasound Angela Creditt, Jordan Tozer, Michael Vitto, Michael Joyce, Lindsay Taylor.2017-12-09 This pocket manual is designed to guide medical professionals in acquiring skills in basic ultrasound imaging. It describes the most common scans performed at the patient's bedside, specifically in the emergency department or intensive care unit. Following an overview of basic ultrasound principles, the use of this modality to visualize specific organ systems is described. In a quick-reference bulleted format, each chapter details indications, basic techniques (patient position, organ windows/views), probe placement, anatomy, pathology, pearls, and key points in ultrasound imaging. The extensive collection of images helps orient the reader in interpreting the scans, depicts anatomic landmarks, and identifies key pathologic findings for each organ system. *Clinical Ultrasound: A Pocket Manual* is an accessible guide to performing bedside ultrasound imaging for emergency medicine physicians, primary care physicians, critical care medicine providers, residents, and medical students.

Point of Care Ultrasound for the Field Saju Joseph.2018 In the past few decades, point of care ultrasound (POCUS) has become standard in most emergency rooms and trauma bays. The use of POCUS has been shown to reduce mortality and morbidity while improving triage in critically ill patients. POCUS has also seen an increased use in hospitals as well. Anesthesiologists are using POCUS for line placement, regional blocks and now for endotracheal tube placement. In the ICU, POCUS is being used for most invasive procedures and in the diagnostic work up of patients. In the operating room, surgeons are using ultrasound to

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guide them during surgical procedures. Nursing staff have also incorporated ultrasound into their physical assessment of patients. POCUS allows visualization of internal structures and identification of pathology in real time with no deleterious effects for the patient. Recently, numerous medical schools including Harvard have developed dedicated curriculum for training medical students solely in the use of POCUS for physical exams. While this revolutionary training has not become the norm, the early data suggests that medical students trained in POCUS are better clinicians than their conventional counterparts. Will POCUS replace the stethoscope in the doctors handbag? The early data says yes. Until recently, the cost and training required to use POCUS has inhibited its expansion into the field. The cost for handheld units has decreased significantly in recent years and smartphones allow everyone the ability to carry a computer at all times. While training remains a hurdle, advances in technology and the overwhelming benefit it provides seems to have overcome this issue. Over the next decade, the editor predicts POCUS will become ubiquitous in all hospital areas and will see exponential growth in the prehospital setting. Currently, ultrasound guidance is standard for line placement and is increasingly being used for other bedside procedures. Furthermore, early trauma, sepsis, stroke and cardiac interventions have shown dramatic reduction in mortality and morbidity for all patients. Ultrasound imaging in the field allows for early triage, better use of limited resources, and better patient outcomes. These results will be the driver for POCUS use in the prehospital setting. This book is a hands-on field manual on the basic techniques of POCUS and the technical details that are required to incorporate POCUS for established first responders. The book also reviews the anatomy and physiology of many emergency situations while highlighting the role of POCUS in the treatment of the emergent patients. The authors include world experts in POCUS and have extensive experience in the development and use of POCUS in the field. In

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many situations, the authors provide tidbits from years of experience that may assist first responders in their job. Finally, the authors highlight many of the new techniques and technologies that continue to evolve that will change how POCUS is used in the future. We strongly recommend this book for all first responders and any person who is involved in patients in the prehospital setting or the emergency room. It is an excellent primer for anyone interested in learning how to perform ultrasounds or wanting to improve the outcomes for their patients.

Handbook of Critical Care and Emergency Ultrasound Kristin Carmody, Christopher Moore, David Feller-Kopman. 2011-09-05 A quick-access practical handbook for the use of ultrasound in critical care and emergency department settings Point-of-care ultrasound offers a readily available, noninvasive, reproducible modality that can expedite and improve care in the critical care and the emergency setting. This handy guide clarifies basic concepts and provides the hands-on guidance necessary for clinicians to arrive at better therapeutic decisions and perform safer procedures with the use of ultrasound. *Handbook of Critical Care and Emergency Ultrasound* opens with important chapters on ultrasound basics, ultrasound orientation, and probe selection, machine controls, and equipment. 22 additional chapters cover organ or system-specific procedural applications and approaches to the trauma patient. You will also find algorithms for the patient with undifferentiated chest pain, dyspnea, hypotension, and abdominal pain. 259 drawings and photographs support the text, illustrating patient positioning, basic views, anatomy, and common pathology. *Handbook of Critical Care and Emergency Ultrasound* is the perfect resource for critical care and emergency providers who wish to deepen their knowledge of sonography and broaden their use of ultrasound in the care of their patient.

The POCUS Manifesto Larry Istrail. 2021-10

Lung Ultrasound in the Critically Ill Daniel A.

Lichtenstein.2015-09-29 Written by a pioneer in critical care ultrasound, this book discusses the basic technique and “signatures” of lung ultrasound and explains its main clinical applications. The tools and clinical uses of the BLUE protocol, which allows diagnosis of most cases of acute respiratory failure, are first described in detail. Careful attention is then devoted to protocols derived from the BLUE protocol - the FALLS protocol for diagnosis and management of acute circulatory failure, the Pink protocol for use in ARDS, and the SESAME protocol for use in cardiac arrest - and to the LUCI-FLR program, a means of answering clinical questions while reducing radiation exposure. Finally, the book discusses all the possible settings in which lung ultrasound can be used, discipline by discipline and condition by condition. Lung Ultrasound in the Critically Ill comprehensively explains how ultrasound can become the stethoscope of modern medicine. It is a superb complement to the author’s previous book, Whole Body Ultrasonography in the Critically Ill.

Thoracic Ultrasound Christian B. Laursen, Najib M.

Rahman, Giovanni Volpicelli.2018-03-01

Manual of Austere and Prehospital Ultrasound Benjamin D.

Nicholson, Michael J. Vitto, Harinder S. Dhindsa.2021-01-27

Ultrasound has rapidly become integral to the practice of emergency medicine. Over the past few years, with improvements in device size and cost, there has been increasing interest in exploring the utility of ultrasound in the prehospital environment. Much of the available literature on ultrasound in the emergency setting focuses on care delivered in emergency departments and intensive care units within the developed world. As a result, most resources are inappropriate and inadequate for doctors and non-physicians practicing in out-of-hospital environments that, by definition, are resource limited. This manual fills that gap by focusing on simplified discussions of ultrasound studies, ultrasound physics, and research that impacts out-of-hospital care

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in order to meet the needs of prehospital and austere providers. The manual discusses the use of ultrasound for diagnosis in out-of-hospital care, advanced noninvasive monitoring of patients, and safety in performing procedures common to the prehospital and austere environment. As is the approach for prehospital education, the chapters are complaint based and not diagnosis based where applicable. Chapters cover ultrasound image interpretation and basic physics; common image adjustments to improve image quality; unique challenges found in urban prehospital environments, austere/wilderness environments, tactical environments, and military special operations environments; and initial training, quality improvement/assurance programs, and credentialing. It also includes a section on procedures such as pericardiocentesis, vascular access, cricothyroidotomy, and others specific to austere providers. The Manual of Austere and Prehospital Ultrasound is an essential resource for physicians and related professionals, residents, and medical students in emergency medicine, civilian and military EMS providers, and critical care flight paramedics and nurses. Scan-It Sadaf Sheikh, Muhammad Akbar Baig. 2020-11-12

Emergency point-of-care ultrasound is quickly becoming the way of the future for improving emergency care and has become increasingly prominent in recent years. Due to its low cost and easy deployability, it is rapidly becoming available for point-of-care use in a busy emergency department. This is where we came up with the idea of a primer that can be easily carried around and provide a quick reference. Whether you are an emergency medicine resident or senior emergency physician, it is our hope that this primer will ease your learning about point of care ultrasound. Utilizing simple instructions and images, this book will be there with you at the bedside to help with any scan you want to complete in the emergency room!

Pediatric Emergency Critical Care and Ultrasound Stephanie J. Doniger. 2014-04-24 Emergency bedside ultrasound assessment is

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well established for adult patients, but has only recently been introduced into everyday clinical practice for the care of pediatric patients. Pediatric Emergency Critical Care and Ultrasound is a concise, practical text which explains the principles of ultrasound, its diagnostic application in all organ systems and its use as a procedural adjunct. Both well-established and innovative applications are described, assisting the practitioner in incorporating ultrasound into daily practice, facilitating patient care and decreasing radiation exposure. Case studies and abundant illustrations enable the reader to study the appropriate techniques in detail and learn from real examples from the pediatric emergency department and intensive care unit. Pediatric Emergency Critical Care and Ultrasound is the first comprehensive bedside ultrasonography resource focusing on pediatric patients and is essential reading not only for pediatric emergency medicine subspecialists but for all emergency physicians, intensivists/critical care physicians and pediatricians.

Point of Care Ultrasound Horton Green.2023-09-19 An ultrasound is an imaging test that uses sound waves to generate the images of various structures inside the body. Point of care ultrasound is the use of ultrasound for making immediate decisions regarding the patient's care in emergency situations. This application of ultrasound is used for evaluating the medical condition in settings like combat zone, emergency medicine, ambulance or critical care unit. Point of care ultrasound is used for diagnosing certain pathologic conditions or injuries quickly, where other diagnostic methods will consume more time and expose the patient to greater risk. It is used for monitoring and guiding resuscitation of terminally ill patients, simultaneously confirming the clinical diagnosis to guide procedural guidance and safety. Furthermore, it is also being utilized in code blue situations, where a person has lost all signs of life. This book explores all the important aspects of point of care ultrasound in the present day scenario. It consists of contributions made by

international experts. This book will prove to be immensely beneficial to students and researchers interested in this area of medical ultrasound.

Point of Care Ultrasound Made Easy John McCafferty, James M Forsyth. 2020-03-09 *Point of Care Ultrasound Made Easy* (POCUSME) is an exciting and innovative book that aims to teach all healthcare professionals how to do simple and clinically relevant ultrasound scanning at the point of care. This book will help you solve clinical problems at the bedside across a range of specialty areas, including: trauma, emergency medicine, respiratory medicine, cardiology, general surgery, otolaryngology and vascular surgery. Straightforward and practical, and designed for clinicians who are generally unfamiliar with ultrasound scanning, it will make a positive difference to your clinical practice, and help improve the delivery of optimised patient care. So read the book, grab an ultrasound machine, and please embrace the Point of Care Ultrasound movement!

Pediatric Emergency Ultrasound Marsha A. Elkhunovich, Tarina L. Kang. 2020-05-07 This concise, portable manual provides practitioners and future practitioners with a basic guide to pediatric emergency ultrasound, enabling them to learn the fundamentals of bedside ultrasound and use these to refresh their skills prior to, or when, performing it on a patient.

Immerse yourself in heartwarming tales of love and emotion with Ying Liu is touching creation, *Tender Moments: **Emergency Point Of Care Ultrasound*** . This emotionally charged ebook, available for download in a PDF format (Download in PDF: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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