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Obstetrical Ultrasound Protocol Manual is designed to provide a step-by-step protocol for Obstetrical Ultrasound imaging examinations based on AIUM practice guidelines. The protocol is provided in a written outline format with examples of ultrasound images, diagrams and diagnostic criteria for evaluation of the Obstetrical Ultrasound including transabdominal and endovaginal examinations. A link to a live video demonstration is also included to reinforce the examination techniques. TOPICS INCLUDE: Coding and Reimbursement Information, Obstetrical Exam Procedure, First Trimester Ultrasound Protocol, Second and Third Trimester Ultrasound Protocol, and Technical References. TARGET AUDIENCE: Sonographers, physicians, PAs and other medical professionals learning how to perform obstetrical ultrasound exams. Physicians may include (but are not limited to) those involved with: OB-GYN, family medicine, internal medicine, emergency medicine and radiology. The most authoritative guide to sonography in obstetrics and gynecology—completely revised to reflect the latest technologies and practices Written by radiologists and ob/gyns to provide a balanced perspective, this standard-setting guide is both a clinically relevant reference text and atlas. Presented in full color and enhanced by more than 2000 illustrations, it expertly examines the full spectrum of disorders and conditions likely to be encountered in gynecologic and maternal-fetal care. Readers will find coverage of the latest procedures and diagnostic guidelines for the use of sonography in ob/gyn, including 3D and 4D image processing, transvaginal sonography, and color Doppler sonography. The book opens with general obstetric sonography, covering such pivotal topics as normal pelvic anatomy and fetal echocardiography, before moving into fetal anomalies and disorders. Risk assessment and therapy, including first trimester screening and amniocentesis, are explored in the next section, while the remaining parts of the book focus on maternal disorders, gynecological sonography, and the newest complementary imaging modalities. • All-inclusive coverage of everything from sonographic operating instruments and screening the fetal patient for syndromes and anomalies, to diagnosing the female patient for cysts, infertility, and incontinence • Learning aids include: a “key points” section in each chapter; skill-building clinical scenarios; a stronger focus on differential diagnosis; multiple visuals (figure, illustration, or table) on each page; and helpful chapter-opening summaries • New chapters on enhanced myometrial vascularity, Doppler sonography of abnormal fetal condition, sonography of uterine scar pregnancies, ultrasound-

guided fetal therapy, evaluation of acute and chronic pelvic pain, and contrast-enhanced The most authoritative guide to sonography in obstetrics and gynecology—now in full color Companion website includes images, case studies, and more Written by radiologists and ob/gyns to provide a balanced perspective, this standard-setting guide is both a clinically relevant reference text and atlas—presented in full color for the first time. It expertly examines the full spectrum of disorders and conditions you're likely to encounter in gynecologic and maternal-fetal care, supported throughout by more than 2,000 detailed sonographic illustrations. You'll also find the latest procedures and diagnostic guidelines for the use of sonography in ob/gyn, including 3D and 4D image processing, transvaginal sonography, and color Doppler sonography. The book opens with general obstetric sonography, covering such pivotal topics as normal pelvic anatomy and fetal echocardiography, before moving into fetal anomalies and disorders. Risk assessment and therapy, including first trimester screening and amniocentesis, are explored in the next section, while the remaining parts of the book focus on maternal disorders, gynecological sonography, and the newest complementary imaging modalities. Features The most trusted, accessible compendium of sonography in obstetrics and gynecology for residents and practitioners, filled with precise illustrations that add clarity to the text's content All-inclusive coverage of everything from sonographic operating instruments and screening the fetal patient for syndromes and anomalies, to diagnosing the female patient for cysts, infertility, and incontinence NEW! Full-color format to aid readability and ease of use NEW! Up-to-date information on the significant advances made in three dimensional and even four-dimensional Doppler technology NEW! Learning aids: a "key points" section in each chapter; skill-building clinical scenarios; a stronger focus on differential diagnosis; multiple visuals (figure, illustration, or table) on each page; and helpful chapter-opening summaries NEW! Companion website filled with concept-clarifying images, video loops, case studies supplemented by Q&As, plus cutting-edge insights on a range of integral sonography topics NEW! SI Units incorporated throughout The Definitive Reference for Obstetric Ultrasound Complete-The most comprehensive work on obstetric ultrasound available, with over 1500 superb illustrations (700 in color)-Textbook and atlas in one-Combined with the gynecologic volume, provides an archive of information and images that leaves no question unanswered Systematic-Screening, biometry and organ biometry, detailed and systematic diagnosis of fetal anomalies, multiple pregnancies, abnormal pregnancies-Transvaginal and transabdominal ultrasound, Doppler and color Doppler scanning, 3D ultrasound, ultrasound-guided invasive diagnostic and therapeutic procedures Practice-Oriented-The ideal reference work for sonographic findings in frequent and rare malformations and syndromes-Actual specimens shown next to ultrasound images for comparison. This is the most comprehensive book to be written on the subject of fetal MRI. It provides a practical hands-on approach to the use of state-of-the-art MRI techniques and the optimization of sequences. Fetal pathological conditions and methods of prenatal MRI diagnosis are discussed by organ system, and the available literature is reviewed. Interpretation of findings and potential artifacts are thoroughly considered with the aid of numerous high-quality illustrations. In addition, the implications of fetal MRI are explored from the medico-legal and ethical points of view. This book will serve as a detailed resource for radiologists, obstetricians, neonatologists, geneticists, and any practitioner wanting to gain an in-depth understanding of fetal MRI technology and applications. In addition, it will provide a reference source for technologists, researchers, students, and those who are implementing a fetal MRI service in their own facility. This four-color atlas, with accompanying CD-ROM, depicts key elements of sonography, including its dynamic real-time aspect. Intended to complement existing textbooks in the field, the atlas serves as a tutorial for the use of ultrasound in both normal and abnormal OB/GYN imaging. The CD-ROM offers realtime video, interventional procedures, a complete review of OB/GYN, and more. The book can be used as a clinical reference, while users can go to the CD-ROM to see how procedures are performed and how scans appear in actual, day-to-day practice. Richly illustrated and comprehensive in scope, Obstetric Imaging, 2nd Edition, provides up-to-date, authoritative guidelines for more than 200 obstetric conditions and procedures, keeping you at the forefront of this fast-changing field. This highly regarded reference covers the extensive and ongoing advances in maternal and fetal imaging in a concise, newly streamlined format for quicker access to common and uncommon findings. Detailed, expert guidance, accompanied by superb, high-quality images, helps you make the most of new technologies and advances in obstetric imaging. Features more than 1,350 high-quality images, including 400 in color. Helps you select the best imaging approaches and effectively interpret your findings with a highly templated, bulleted, at-a-glance organization. Reflects all the latest developments in the field, including genetics, open fetal surgery, fetal echocardiography, Zika virus, and 3D imaging, so you can provide the safest and most responsive care to both mother and fetus. Includes new chapters on Limbs and Bones Overview; Open Fetal Surgery; Biophysical Profile; Ultrasound Physics; Elastography; Doppler; MRI; Echogenic Bowel; Pregnancy of Unknown Location (PUL), Failed Pregnancy and Ectopic Pregnancy, Cesarean Scar Pregnancy; Cytomegalovirus (CMG), Rubella, Toxoplasmosis, Herpes, Varicella; and Congenital Syphilis; plus a new chapter on Zika Virus written by imaging experts from the "hot zone." Keeps you up to date with the latest developments in multimodality imaging and optimizing diagnostic accuracy from ultrasound, 3D ultrasound, Doppler, MRI, elastography, image-guided interventions, and much more. The definitive guide to sonography in obstetrics and gynecology—thoroughly updated and enhanced by the addition of teaching cases This acclaimed guide is a clinically relevant reference text, an atlas, and a teaching/learning resource. Presented in full color and enriched by more than 2,000 illustrations, it expertly examines the full spectrum of disorders and conditions likely to be encountered in gynecologic and maternal-fetal care. You will find expert, all-inclusive coverage of everything from sonographic operating instruments and screening the fetal patient for syndromes and anomalies, to diagnosing the female patient for cysts, infertility, and incontinence. This edition has been updated to include coverage of the latest procedures and diagnostic guidelines for the use of sonography in ob/gyn, including 3D and 4D US and enhanced image processing, contrast enhanced sonography, ultrasound guided fetal therapy, sonographic evaluation of pelvic pain, and much more. The Eighth Edition also features an extensive series of teaching cases. Each case consists of the patient's medical history, representative US images, cineloop videos, Q&A, and teaching points with references. Fleischer's Sonography in Obstetrics & Gynecology, Eighth Edition opens with general obstetric sonography, covering such pivotal topics as normal pelvic anatomy and fetal echocardiography, before moving into fetal anomalies and disorders. Risk assessment and therapy, including first trimester screening and amniocentesis, are explored in the next section, while the remaining parts of the book focus on maternal disorders, gynecologic sonography, and the newest complementary imaging modalities. This book is a comprehensive guide to ultrasound in obstetrics and gynaecology. Beginning with an introduction to equipment, the next chapters discuss the basic principles of ultrasound and its use in the different trimesters of pregnancy. The following chapters explain the importance of ultrasound as a diagnostic tool describing its use for placenta evaluation, amniotic fluid assessment, measuring cervical length and in multiple pregnancy. The final chapters cover ultrasound-guided foetal invasive procedures, Doppler, 3D ultrasound, and ultrasound in reproductive medicine. This practical guide is further enhanced by more than 350 ultrasound images, diagrams and tables to assist learning. Key points Comprehensive guide to ultrasound in obstetrics and gynaecology Emphasises use of ultrasound as a diagnostic tool Explains use of ultrasound in different trimesters of pregnancy Highly illustrated with more than 350 ultrasound images, diagrams and tables This evidence-based book shows how to use ultrasound to identify potential problems and how best to manage them. Working backwards from the fetal finding or maternal problem, this practical resource explores potential diagnostic routes and management plans. Throughout the book, the author uses 'case in point' examples to focus on how to extract the most useful information from a standard ultrasound examination. Dr. Hobbins, who has spent more than three decades using ultrasound in a perinatal setting, also thoroughly explores vital issues such as comprehensive examination of the fetal anatomy, the meaning of various abnormal findings, how ultrasound can be used to enhance the management of obstetrical complications, dealing with discrepant biometry, diabetes and hypertension, advanced maternal age, preterm labor, intrauterine growth restriction (IUGR) and safety of ultrasound. Written by leading fetal radiologists and maternal-fetal medicine specialists, with additional input from cardiologists, geneticists, and Doppler specialists, Fundamental and Advanced Fetal Imaging provides comprehensive, practical guidance on prenatal ultrasound and fetal MRI. This state-of-the-art 2nd Edition clearly presents the essential information you need on normal anatomy and techniques, screening of normal and abnormal conditions, and fetal malformations, helping you effectively evaluate obstetric patients and reach an accurate diagnosis for a wide variety of fetal anomalies. This book contains a series of clinical cases that address and illustrate difficult problems in obstetric ultrasound. The approach is strongly didactic and will aid trainees in maternal-fetal medicine and obstetrics to appreciate potential pitfalls and recognize rare presentations. Each case sets out one page of text, then one of treatment algorithms, and then presents sample ultrasound scans. Learning objectives are given for each case, together with a short list of references and background reading. Make optimal use of the latest diagnostic and interventional ultrasound applications in your practice! This new edition of the world's best-selling reference on obstetric and gynecologic ultrasound guides you through all of the newest ultrasound technologies, enabling you to diagnose problems accurately. The entire book has been radically updated by many new contributors to reflect all of the most recent advances, including greatly expanded information on 3-D ultrasound and the latest generation of ultrasound scanners, as well as significantly increased discussions of gynecologic ultrasound. What's more, over 2,400 digital-quality images - 1,050 in full color - capture the characteristic appearance of a full range of ultrasound findings, and a new full-color format makes reference easier than ever. The result is an essential purchase for everyone who uses ultrasound for fetal and gynecologic diagnosis and treatment. Get dependable guidance on any clinical issue or challenge by consulting the world's most popular, trusted reference on ob/gyn ultrasound! Obtain optimal results by applying the masterful expertise of world-renowned

authority Peter W. Callen, MD, as well as a care of other top specialists on the diagnostic and interventional applications of ultrasound. Make optimal use of all of the latest developments, including 3-D ultrasound, the use of the latest generation of ultrasound scanners, the growing role of ultrasound in gynecologic imaging. Diagnose with confidence by comparing your imaging findings to more than 2,400 digital-quality images - 1,050 in full color - that depict the complete range of normal and abnormal imaging presentations. Locate information more quickly thanks to a new highly templated, full-color format. Visualize key anatomic details more clearly with hundreds of medical illustrations redrawn in full color. Based on a popular course taught at the Radiological Society of North America's Annual Meeting, this book provides all the essential information for choosing the appropriate imaging examination and completing the imaging workup of a patient. Chapters are organized into parts according to the anatomical location of the clinical problems addressed. The authors guide the reader through the diagnostic evaluation, reviewing the indications for and the strengths and limitations of ultrasound imaging. Features: Practical information on the usefulness of ultrasound, nonimaging tests, or other imaging modalities, such as CT and MR, for evaluating each clinical situation Clear descriptions of symptoms and differential diagnosis Nearly 1,300 images and photographs demonstrating key points A new chapter on neonatal spinal cord anomalies Comprehensive and up-to-date, this edition is essential for ultrasonographers, radiologists, residents, physicians, nurses, and radiology assistants seeking the latest recommendations for the effective use of ultrasonography. The present book is an illustrated guide on fetal medicine, including a wealth of normal and pathological/malformations ultrasound images, throughout the whole pregnancy. Thus, the book intends to fill two gaps in once: The lack of a material discussing the basic principles of fetal ultrasound, which are the basement for a more efficient learning in fetal medicine. . The need for a thorough approach in fetal medicine, presenting both normal and pathological imaging, allowing a detailed evaluation of clinical conditions of importance in prenatal care and follow up. The Atlas of Ultrasound Imaging is an up to date guide to all obstetricians, gynecologists and pediatricians who intend to upgrade their knowledge in fetal medicine, as well as to any other professional, professor, student or research interested in fetal ultrasound. In *The Public Life of the Fetal Sonogram*, medical anthropologist Janelle S. Taylor analyzes the full sociocultural context of ultrasound technology and imagery. Drawing upon ethnographic research both within and beyond the medical setting, Taylor shows how ultrasound has entered into public consumer culture in the United States. Gain a critical understanding of obstetrics, and a thorough knowledge base of modern management techniques, with this accessible textbook. While acting as a stand-alone text on obstetric care, this volume also forms part of a three-volume set - all authored by leading authorities - on the entirety of obstetric and gynecologic practice. Obstetric Care's topics are based on academic objectives of experts in the field. This textbook offers tailored support for new residents and experienced physicians alike. Obstetric Care is invaluable for wide-ranging yet concise reference material, and provides evidence based care recommendations for specific patient conditions. The chapters in this textbook are based on the objectives of the Committee for Resident Education in Obstetrics and Gynecology; the book offers outstanding modern management techniques across the obstetrics specialty, making it a go-to for reference and comprehensive study. 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). Updated and expanded to twice its original size, this handy atlas is a complete ready-reference guide to obstetric and gynecologic ultrasound and sonographic evaluation of the fetus. The Second Edition features over 700 ultrasound scans--more than twice as many as the previous edition--and new chapters on scanning techniques; infertility; amniocentesis and chorionic villus sampling; and the maternal abdomen and pelvis in pregnancy. The book includes fetal measurements, along with abbreviated tables, graphs, and computer programs designed for programmable pocket computers. Compatibility: BlackBerry(r) OS 4.1 or Higher / iPhone/iPod Touch 2.0 or Higher /Palm OS 3.5 or higher / Palm Pre Classic / Symbian S60, 3rd edition (Nokia) / Windows Mobile Pocket PC (all versions) / Windows Mobile Smartphone / Windows 98SE/2000/ME/XP/Vista/Tablet PC " This work covers the top imaging diagnoses in obstetrics, including both common and uncommon entities and includes an extensive image gallery for each entity, depicting common and variant cases with bulleted summaries of terminology. How engineers and clinicians developed the ultrasound diagnostic scanner and how its use in obstetrics became controversial. To its proponents, the ultrasound scanner is a safe, reliable, and indispensable aid to diagnosis. Its detractors, on the other hand, argue that its development and use are driven by the technological enthusiasms of doctors and engineers (and the commercial interests of manufacturers) and not by concern to improve the clinical care of women. In some U.S. states, an ultrasound scan is now required by legislation before a woman can obtain an abortion, adding a new dimension to an already controversial practice. *Imaging and Imagining the Fetus* engages both the development of a modern medical technology and the concerted critique of that technology. Malcolm Nicolson and John Fleming relate the technical and social history of ultrasound imaging—from early experiments in Glasgow in 1956 through wide deployment in the British hospital system by 1975 to its ubiquitous use in maternity clinics throughout the developed world by the end of the twentieth century. Obstetrician Ian Donald and engineer Tom Brown created ultrasound technology in Glasgow, where their prototypes were based on the industrial flaw detector, an instrument readily available to them in the shipbuilding city. As a physician, Donald supported the use of ultrasound for clinical purposes, and as a devout High Anglican he imbued the images with moral significance. He opposed abortion—decisions about which were increasingly guided by the ultrasound technology he pioneered—and he occasionally used ultrasound images to convince pregnant women not to abort the fetuses they could now see. *Imaging and Imagining the Fetus* explores why earlier innovators failed where Donald and Brown succeeded. It also shows how ultrasound developed into a "black box" technology whose users can fully appreciate the images they produce but do not, and have no need to, understand the technology, any more than do users of computers. These "images of the fetus may be produced by machines," the authors write, "but they live vividly in the human imagination." Now in its second edition, *Atlas of Ultrasound in Obstetrics and Gynecology* is ideal as a visually-oriented reference and comprehensive tutorial for expanding your knowledge of ultrasound. Developed from one of the best and broadest sonographic collections in the field, this powerful atlas provides images and authoritative commentary covering all aspects of obstetric and gynecologic ultrasound. The text is integrated with over 200 video clips available online to enhance diagnostic skills and learn about ultrasound-guided procedures. Whether you're a radiologist, obstetrician, gynecologist or sonographer this exciting visual resource is a valuable tool for achieving diagnostic accuracy for your patients. Effectively evaluate obstetric patients with *Fundamental and Advanced Fetal Imaging: Ultrasound and MRI!* Written by an impressive roster of leading fetal radiologists and maternal-fetal medicine specialists, with additional input from cardiologists, geneticists, and Doppler specialists, this state-of-the-art reference explores how to obtain the maximum information from fetal ultrasound and magnetic resonance imaging, so you can rule out pathologies with confidence – or identify them early enough to initiate the most appropriate interventions. Get outstanding guidance from the world's most trusted reference on OB/GYN ultrasound. Now brought to you by lead editor Dr. Mary Norton, Callen's *Ultrasonography in Obstetrics and Gynecology* has been completely and exhaustively updated by a team of obstetric, gynecologic, and radiology experts to reflect the most recent advances in the field. It addresses the shift in today's practice to a collaborative effort among radiologists, perinatologists, and OB/GYNs, with new emphasis placed on genetics and clinical management. This must-have resource covers virtually all aspects of fetal, obstetric and gynecologic ultrasound — from the common to the rare — in one essential clinical reference, allowing you to practice with absolute confidence. Highly templated, full-color format allows you to locate information more quickly. Full-color medical illustrations present key anatomic details in a clear manner. Thousands of digital-quality images depict the complete range of normal and abnormal imaging presentations. Provides extensive updates of text and images, including the latest in imaging, Doppler techniques, genetic testing, and clinical management. Brand new chapters provide up-to-date, comprehensive coverage of topics relevant to current practice: -First Trimester Fetal Anatomy -Obstetric Ultrasound and the Obese Patient -Evaluation of Pelvic Pain in the Reproductive Age Patient -Gynecologic Ultrasound in the Pediatric and Adolescent Patient -Ultrasound and Magnetic Resonance Imaging in Urogynecology -The Role of Ultrasound in Gynecologic Interventions Highlights significant new genetic testing content, including correlation with ultrasound evaluation of the fetus. Places increased emphasis on 3-dimensional imaging and correlative imaging with magnetic resonance (MR). Features new practice guidelines for obstetric evaluation (including first trimester assessment) and gynecologic management (including evaluation of the endometrium and of ovarian masses). Features new information about fetal imaging guidelines from the National Institute of Child Health and Human Development (NICHD). Provides expanded discussion of fetal, obstetric, and gynecologic interventions with new emphasis on clinical use and application of ultrasound imaging. Includes key and comprehensive reference data used for evaluation of fetal growth and other specialized measurements. This book contains a series of clinical cases that address and illustrate difficult problems in obstetric ultrasound. The approach is

strongly didactic and will aid trainees in maternal-fetal medicine and obstetrics to appreciate potential pitfalls and recognize rare presentations. Each case sets out one page of text, then one of treatment algorithm Expanded and updated edition highlighting current standards and breakthroughs in the technology of Doppler ultrasound Includes latest advances in 3D and color doppler and 4D fetal echocardiography Includes more than 500 illustrations, including more than 150 in color This updated 2nd Edition of Examination Review for Ultrasound: Abdomen & Obstetrics and Gynecology helps students prepare for--and excel on--the ARDMS and ARRT certification exams. Focusing on only the information needed for exam success, this proven resource includes a concise, narrative approach, content based on the current exam, and an online exam simulator with registry-style questions. eBook available. Fast, smart, and convenient, today's eBooks can transform learning. These interactive, fully searchable tools offer 24/7 access on multiple devices, the ability to highlight and share notes, and much more. NEW! MORE EXTENSIVE REVIEW: 40 review questions for each chapter--almost 1,300 total--help students identify strengths and overcome weaknesses so they are fully prepared on exam day. NEW! Full alignment with ARDMS and ARRT revised content outlines: To achieve alignment, additional pathology coverage appears in each chapter and new topics have been added (breast, organ transplant, facial glands, male pelvis, pediatric hips, fetal presentation, and maternal complications). FREE ONLINE EXAM SIMULATOR: Sophisticated mock exams customizable for both the ARDMS and ARRT exams familiarize students with registry testing format and style. NEW PEDAGOGY! Sound Off boxes and Hot Spot questions prepare students for questions and question formats likely to be on the exams. ENHANCED! HIGH-QUALITY IMAGES: More than 230 sonographic images and diagrams--many new to this edition--increase student understanding of anatomy and the physiologic principles crucial to good sonographic practice. REVISED! Stronger abdomen coverage and more images and illustrations enhance the OB/GYN section. VALUABLE CLINICAL COVERAGE: Clinical history and clinical findings paired with sonographic findings allow students to see the progression from presentation to using imaging as a diagnostic tool. Professional Resource: Certified Sonographers can use this text as an exam resource for ARDMS recertification assessment in both Abdomen and Obstetrics and Gynecology. IN-TEXT LEARNING AIDS: Charts for lab values, pathology findings, and sonographic findings clarify important information, and key terms with definitions help students retain key information. Based on the RCOG Training Module in Fetal Medicine, this book provides a knowledge base for practitioners in obstetrics and maternal-fetal medicine. European Practice in Gynaecology and Obstetrics is a series of books conceived and endorsed by the European Board and College of Obstetrics and Gynaecology (EBCOG). The topics chosen for each volume are those of significant clinical interest where treatment is changing in response to research findings and developments in practice. The volume editor and contributing authors are European specialists invited to contribute because of their expertise in their field. The books concentrate on various types of management used in European practice as well as published results. The authors present treatments for which a consensus exists and - when there is no consensus - they discuss the key elements of the controversy. Each book provides a review of the basic science, recent concepts in pathophysiology, clinical aspects, treatment and unresolved problems or controversies, as well as the major recent references. A final section provides multiple-choice questions for each chapter. Series concentrates on important and changing areas of clinical practice Each volume editor is a leading European expert in the field Contributors are drawn from a wide range of European countries All volumes include a review of basic science and pathophysiology, as well as clinical aspects, treatment, unresolved problems Current references are included for each chapter Multiple choice questions are provided at the end of each chapter This volume comes with a CD containing all the colour images in the book plus 106 extra images Covering pertinent basic science and offering today's most authoritative guidance on clinical management, Fetal Medicine, 3rd Edition, is a must-have resource for obstetricians and other healthcare professionals involved in care of the fetus. An international team of expert contributors delivers the knowledge and background you need to effectively diagnose and treat fetal disorders – everything from prenatal screening and diagnostic tests to common and rare prenatal conditions, early pregnancy loss, ethical issues, and much more. Focuses on fetal medicine throughout, bringing you today's most reliable information in both basic science and clinical topics. Offers updated information from cover to cover, including new coverage of genetics, embryology, and clinical management. Features new self-assessment questions and new images throughout – for a total of nearly 1,000 photographs and line drawings, as well as more than 150 quick-reference tables. Details fast-changing developments in fetal medicine, including advances in ultrasound imaging, cytogenetics, molecular biology, and biochemistry. Helps you learn and retrieve complex information quickly thanks to succinct, highly structured text; key points at the beginning of each chapter; and concise chapter summaries. This book contains a series of clinical cases that address and illustrate difficult problems in obstetric ultrasound. The approach is strongly didactic and will aid trainees in maternal-fetal medicine and obstetrics to appreciate potential pitfalls and recognize rare presentations. Each case sets out one page of text, then one of treatment algorithms, and then presents sample ultrasound scans. Learning objectives are given for each case, together with a short list of references and background reading. This established text covers the full range of obstetric ultrasound examinations that a sonographer would be expected to perform in a general hospital or secondary referral setting, and is the only text that combines the practicalities of learning how to perform these examinations with the information needed to carry them out in a clinical setting. It encourages students to think about their practice and provides the sonographer with the necessary tools to provide a 'gold standard' service. The most current, comprehensive question-and-answer review of diagnostic medical sonography for national certification examination preparation. This popular review covers all facets of ultrasound, including basic physics, vascular sonography, ob/gyn, transvaginal, transrectal, adult and pediatric echocardiography, and neurosonography. Includes hundreds of images and 12 pages in full color. An outstanding title from the popular Case Review Series, Obstetric and Gynecologic Ultrasound provides 119 case histories, with over 300 corresponding images, questions, answers, commentary, references, and more, to enhance your imaging interpretation skills in obstetric and gynecologic ultrasound. Its discussions incorporate the most recent knowledge from OB/GYN ultrasound literature, providing an excellent review for residents and practitioners alike. Turn to Obstetric and Gynecologic Ultrasound as excellent review for the Boards! Effectively prepare for certification, recertification, and practice with content that mimics the new format of board exams as well as the everyday clinical experience. Review the full range of imaging findings in obstetric in gynecologic ultrasound with the addition of fetal ultrasound and high-risk-pregnancy imaging. Access the most up-to-date information on fetal cardiac anomalies with expert guidance on the use of the 3-vessel view to access the outflow tracts; use of MRI in confirming and accessing fetal anomalies; ultrasound and MRI features of placenta accrete; and ultrasound evaluation of nuchal translucency, nuchal thickness, and fetal cystic hygroma. Boost your skills with 119 cases organized by level of difficulty, as well as multiple-choice questions, answers, rationales, and more. Ultrasound for Advanced Practitioners in Pregnancy and Women's Health is an indispensable resource for midwives, women's health nurse practitioners, OB/GYN physician assistants, nurses, and students. Using a scope of practice approach, it addresses specific clinical applications of ultrasound technology in all aspects of women's health care. Developed by an advanced practitioner for advanced practitioners, this text includes the basics of ultrasound technology, step-by-step illustrations, more than 100 ultrasound images, and study questions. What's more, it is also an ideal reference to prepare for the newly developed Midwife Sonography Certificate administered by the American Registry for Diagnostic Medical Sonography (ARDMS). Designed to accompany Diagnostic Medical Sonography: A Guide to Clinical Practice Abdomen and Superficial Structures, Third edition, this Workbook offers a full complement of self-study aids that actively engage students in learning and enable them to assess and build their knowledge as they advance through the text. Most importantly, it allows students to get the most out of their study time, with a variety of custom designed exercises to help them master each objective. Activities like Matching, Image Labeling, Multiple Choice, and Fill-in-the-Blank help students reinforce the learning Short Answer questions require students to test their understanding of chapter materials Image Evaluation/Pathology activities and Case Studies connect learning to the real-world setting by helping students apply the knowledge from each chapter Packed with more sonographic images than ever before, the third edition of the Atlas of Ultrasound in Obstetrics and Gynecology helps you better understand and interpret sonographic imagery, and improve diagnostic accuracy of ultrasound images. This comprehensive visual tutorial is split into two distinct sections: obstetrical ultrasound and gynecological ultrasound. Each section covers normal and abnormal anatomy, pathology, and interventional procedures. Fetal and perinatal medicine is a rapidly expanding field, and noninvasive imaging by means of ultrasonography and MRI is playing a major role in refining diagnosis and therapy. Recent technological advances in these imaging modalities now allow unprecedented morphological depiction of the fetus and excellent insight into complex pathologic conditions, as well as yielding superior guidance for therapeutic fetal interventions. I am very pleased that Professor F. Avni, a leading international pediatric radiologist, was prepared to take on the challenging task of preparing and editing this comprehensive and up-to-date overview of our knowledge in the area of fetal and perinatal imaging. He has been successful in engaging well-known experts with outstanding qualifications in fetal imaging to join him in this venture. I would like to congratulate Professor Avni and all contributing authors most sincerely for their excellent work. I am confident that this outstanding volume will meet with great interest not only from general as well as specialized pediatric radiologists but also from neonatologists and pediatricians. I trust it will enjoy the same success as many previous volumes in this series. ALBERT L. BAERT Leuven Preface Fetal and perinatal medicine would not have developed without the extensive use of obstetric ultrasound (US). In order to be efficient, the examination has to be performed very carefully and by sonologists fully conversant with the normal and abnormal development of the fetus.