

## Trisomy 18 Radiological Society Of North America

This manual is a comprehensive guide to radiological imaging for the diagnosis of diseases and disorders in children. The fourth edition has been fully revised and features many new topics, providing the latest advances in the field. Divided into 35 chapters, the book covers all the main imaging modalities – CT, MRI, ultrasound and digital radiography, and their use in the diagnosis of disorders in different body systems. Numerous radiological images, tables and boxes further enhance the extensive text. Key points Comprehensive guide to radiological imaging in children Fully revised, fourth edition, featuring many new topics and latest advances Covers all the main imaging modalities accompanied by radiological photographs, tables and boxes Previous edition (9789350252055) published in 2011

FETAL ANOMALIES Advances in ultrasound technology are reshaping the field of health care for obstetricians and pediatric specialists. Detailed fetal imaging has enabled medical professionals to detect fetal structural anomalies and research practical guidelines for prenatal diagnosis and postnatal management. Fetal Anomalies: Ultrasound Diagnosis and Postnatal Management is a practical sourcebook with images of structural fetal malformations on a continuum that begins at the stage of ultrasonographic identification, progressing to characterization in the newborn period, and culminating in repair and postoperative follow up. This comprehensive text correlates pre- and post-natal images with the type of treatment appropriate to structural anomalies of the different organ systems. Numerous examples from each organ system are included and the material is clinically oriented. Fetal Anomalies: Ultrasound Diagnosis and Postnatal Management reviews such topics as: Externally visible defects Skeletal dysplasia Central nervous, gastrointestinal, urinary, and genital systems Umbilical cord anomalies Abnormalities specific to multiple pregnancies Abnormalities of amniotic fluid volume Abnormalities that elude prenatal detection Incorporating the pictorial strengths of an atlas with the didactic utility of a reference work, Fetal Anomalies: Ultrasound Diagnosis and Postnatal Management is a unique book bridging various specialties that comprise maternal-fetal medicine, such as obstetrics, diagnostic imaging, neonatology, perinatology, surgery, and urology.

Covering the entire spectrum of this fast-changing field, Diagnostic Imaging: Obstetrics, fourth edition, is an invaluable resource for radiologists, perinatologists, and trainees—anyone who requires an easily accessible, highly visual reference on today's obstetric imaging. Dr. Paula J. Woodward and a team of highly regarded experts provide up-to-date information on recent advances in technology and the understanding of fetal development and disease processes to help you make informed decisions at the point of care. The text is lavishly illustrated, delineated, and referenced, making it a useful learning tool as well as a handy reference for daily practice. Serves as a one-stop resource for key concepts and information on obstetric imaging, including a wealth of new material and content updates throughout Features more than 3,000 illustrations (grayscale, 3D, color, and pulsed-wave Doppler ultrasound; fetal MR; extensive clinical and/or pathologic correlation; and full-color illustrations) 1,300 additional digital images, and 175 new ultrasound video clips Features updates from cover to cover including new information on the genetic basis of fetal diseases, as well as new diagnoses and management protocols; additional and expanded differential diagnoses; and recent consensus guidelines and practice standards Covers dramatic new changes in technology, including recent innovations in 3D ultrasound and fetal MRI, as well as the earliest ultrasound findings seen with each condition due to improved ultrasound technology Reflects a multidisciplinary, collaborative approach to diagnosis, management, and treatment between radiologists, perinatologists, pediatricians, and surgeons Includes embryology and anatomy overview chapters, along with pertinent differential diagnoses for comprehensive coverage Uses bulleted, succinct text and highly templated chapters for quick comprehension of essential

information at the point of care

"The definitive work in genetic evaluation of newborns. I cannot recommend it strongly enough." -Judith G. Hall As demand continues to exceed availability when it comes to clinical geneticists, *Genetic Consultations in the Newborn* offers an essential new resource for practitioners everywhere: a streamlined diagnostic manual that connects subtle symptoms of newborn dysmorphism to their differential diagnosis. Comprising more than 60 chapters organized by system and symptom, this book facilitates fast, expert navigation from recognition to management in syndromes that manifest during the newborn period. Richly illustrated and packed with pearls of practical wisdom from the authors' decades of practice, it empowers readers to recognize the outward signs and symptoms crucial for an effective diagnosis. For geneticists, neonatologists, pediatricians, and anyone else who cares for infants in their first days of life, *Genetic Consultations in the Newborn* provides an essential and unmatched resource for navigating one of the most challenging areas of clinical practice. It should not be missed.

*Essentials of Pediatric Radiology: A Multimodality Approach* provides a concise overview of both basic and complex topics encountered by pediatric radiologists in their daily practice. Written by leading pediatric radiologists from renowned children's hospitals, it focuses particularly on multimodality imaging, covering the full gamut of radiologic diagnostic techniques, including conventional radiography and ultrasound, Doppler ultrasound, up-to-date CT and MRI techniques, and PET-CT. Each chapter is generously illustrated with high quality images, as well as graphs, tables, decision flowcharts and featured cases. Chapters are arranged according to pathologies, rather than organ systems, providing the reader with clinically-oriented information when employing 'whole body' techniques or analysing scans involving multiple anatomical sites. The book is complemented by an outstanding free access website of sample cases containing questions and answers that enable readers to test their diagnostic proficiency - see <http://essentials-of-pediatric-radiology.com>. A key text for pediatric radiology fellows, radiology residents and general radiologists, this is also essential reading for all pediatricians.

This volume provides a practical overview of the ethical issues arising in pediatric practice. The case-based approach grounds the bioethical concepts in real-life situations, covering a broad range of important and controversial topics, including informed consent, confidentiality, truthfulness and fidelity, ethical issues relating to perinatology and neonatology, end-of-life issues, new technologies, and problems of justice and public health in pediatrics. A dedicated section also addresses the topics of professionalism, including boundary issues, conflicts of interests and relationships with industry, ethical issues arising during training, and dealing with the impaired or unethical colleague. Each chapter contains a summary of the key issues covered and recommendations for approaching similar situations in other contexts. *Clinical Ethics in Pediatrics: A Case-Based Textbook* is an essential resource for all physicians who care for children, as well as medical educators, residents and scholars in clinical bioethics. This unique book facilitates recognition and identification of the fetal abnormalities seen in ultrasound. It is the only resource that provides so much detail about all of the fetal abnormalities currently known. Enables readers to approach a given diagnostic challenge either by looking up its sonographic presentation, or by turning directly to the name of the syndrome that they believe is responsible. An easy-to-use organization makes it simple for readers to locate the most reliable information available today. Enables readers to approach a given diagnostic challenge either by looking up its sonographic presentation, or by turning directly to the name of the syndrome that they believe is responsible. Lists the syndromes associated with any sonographic finding and provides guidance on its differential diagnosis. Cross-references to discussions of individual syndromes make it easy to locate further information on each condition. Explores the full range of syndromes that are known to cause

malformations in the fetus. Sonographic images are accompanied by concise discussions of prenatal diagnosis, differential diagnosis, detectability at various gestational ages, and common features. Cross-references point the way to other syndromes with similar sonographic characteristics. Examines sonographic findings that are potentially associated with chromosomal abnormalities, and discusses the issues that surround the management of these fetuses. Investigates the specific malformations and problems associated with monochorionic twins. Features over 582 crisp illustrations that depict the sonographic appearance of a full range of fetal abnormalities.

The field of liver tumors in children has seen tremendous therapeutic advances over recent years. This has been achieved through a much better understanding of the biology of disease, improved diagnostic procedures, refined methods of pretreatment tumor staging, the implementation of highly efficient chemotherapy and surgery, detailed monitoring of toxicity, and careful follow-up strategies. International controlled trials have played a key role in these advances, and many leading figures in the trials are among the editors and authors of this book. Their principal goal in *Hepatic Tumors in Children* is to provide the reader with a complete update on this complex and rapidly evolving field. All aspects of an impressive success story are covered, disclosing how the outcome of a previously devastating disease has been so dramatically improved. This book will prove essential reading for all who are involved in the care of children with liver tumors.

The second edition of *The Floppy Infant* is devoted to the recognition and diagnosis of the floppy infant syndrome. It includes a review of some of the more important causes and provides a practical approach to the assessment and management such children require. The text of the first edition has been completely revised, but the emphasis has not changed: it remains an immensely practical and up-to-date handbook for the clinician.

The bestselling guide to the medical management of common genetic syndromes —now fully revised and expanded A review in the *American Journal of Medical Genetics* heralded the first edition of *Management of Genetic Syndromes* as an "unparalleled collection of knowledge." Since publication of the first edition, improvements in the molecular diagnostic testing of genetic conditions have greatly facilitated the identification of affected individuals. This thorough revision of the critically acclaimed bestseller offers original insights into the medical management of sixty common genetic syndromes seen in children and adults, and incorporates new research findings and the latest advances in diagnosis and treatment of these disorders. Expanded to cover five new syndromes, this comprehensive new edition also features updates of chapters from the previous editions. Each chapter is written by an expert with extensive direct professional experience with that disorder and incorporates thoroughly updated material on new genetic findings, consensus diagnostic criteria, and management strategies. Edited by two of the field's most highly esteemed experts, this landmark volume provides: A precise reference of the physical manifestations of common genetic syndromes, clearly written for professionals and families Extensive updates, particularly in sections on diagnostic criteria and diagnostic testing, pathogenesis, and management A tried-and-tested, user-friendly format, with each chapter including information on incidence, etiology and pathogenesis, diagnostic criteria and testing, and differential diagnosis Up-to-date and well-written summaries of the manifestations followed by comprehensive management guidelines, with specific advice on evaluation and treatment for each system affected, including references to original studies and reviews A list of family support organizations and resources for professionals and

families Management of Genetic Syndromes, Third Edition is a premier source to guide family physicians, pediatricians, internists, medical geneticists, and genetic counselors in the clinical evaluation and treatment of syndromes. It is also the reference of choice for ancillary health professionals, educators, and families of affected individuals looking to understand appropriate guidelines for the management of these disorders. From a review of the first edition: "An unparalleled collection of knowledge . . . unique, offering a gold mine of information." —American Journal of Medical Genetics

This book offers a unique and focused study of the use of ultrasound during the first trimester, a critical time in a fetus' development. It includes basic examination guidelines as well as cutting-edge ultrasound modalities, including Doppler and three-dimensional ultrasound, for the period immediately preceding conception through early embryology. Beginning with a discussion of the safety and efficacy of diagnostic ultrasound and the use of this modality for the evaluation and treatment of infertility, recognized experts in the field explore conditions that may interfere with normal conception or development, including maternal diseases that would benefit from early scanning, elements of teratology, multiple gestations, ectopic pregnancy, gestational trophoblastic disease, fetal anomalies and invasive procedures in the first trimester. Numerous illustrations and figures are provided to serve as aids for understanding key concepts. First-Trimester Ultrasound is a valuable resource for many, in or after training, in obstetrics and gynecology, radiology, emergency medicine, family medicine and genetics.

This fully revised edition of Fundamentals of Diagnostic Radiology conveys the essential knowledge needed to understand the clinical application of imaging technologies. An ideal tool for all radiology residents and students, it covers all subspecialty areas and current imaging modalities as utilized in neuroradiology, chest, breast, abdominal, musculoskeletal imaging, ultrasound, pediatric imaging, interventional techniques and nuclear radiology. New and expanded topics in this edition include use of diffusion-weighted MR, new contrast agents, breast MR, and current guidelines for biopsy and intervention. Many new images, expanded content, and full-color throughout make the fourth edition of this classic text a comprehensive review that is ideal as a first reader for beginning residents, a reference during rotations, and a vital resource when preparing for the American Board of Radiology examinations. More than just a book, the fourth edition is a complete print and online package. Readers will also have access to fully searchable content from the book, a downloadable image bank containing all images from the text, and study guides for each chapter that outline the key points for every image and table in an accessible format—ideal for study and review. This is the 1 volume set.

NORD Guide to Rare Disorders is a comprehensive, practical, authoritative guide to the diagnosis and management of more than 800 rare diseases. The diseases are discussed in a uniform, easy-to-follow format—a brief description, signs and symptoms, etiology, related disorders, epidemiology, standard treatment, investigational treatment, resources, and references. The book includes a complete directory of orphan drugs, a full-color atlas of visual diagnostic signs, and a Master Resource List of support groups and helpful organizations. An index of symptoms and key words offers physicians valuable assistance in finding the information they need quickly.

Combines clinical images, full-color illustrations and bulleted text to create a

comprehensive, up-to-date resource for learning and review.

All the gamuts pertaining to the nervous system have been excerpted into this book from Reeder and Felson's Gamuts in Radiology, the world's best known, most trusted, and most comprehensive guide to radiologic differential diagnosis. Clinicians are given easy access to complete lists of possible causes that guide the interpretation of findings or patterns on MR, CT, angiography, and plain film studies. The user-friendly listings are concise and well organized. They are arranged by relative frequency to help radiologists, neuroradiologists, and residents arrive at an immediate diagnosis. Other features include a slim 5"x8" trim size for handy portability and an easy-to-read single-column format. This ideal pocket guide is a must have for everyday use in clinical practice and is also an excellent teaching tool and study guide for board exams.

What started as the notes from a Massachusetts General Hospital resident is now the second edition of a well-respected exam review tool. Primer of Diagnostic Imaging covers the standard subspecialties, as well as radiologic physics, nuclear physics, nuclear medicine, radio-pharmaceuticals, and interventional radiology. Information is presented in a concise, semi-outline style, and all important concepts are illustrated with line drawings. Throughout, tables dispense important clinical and imaging information. \* Features nearly 1,800 images, with coverage of all standard subspecialties, plus radiation physics, nuclear physics, nuclear imaging, contrast agents, and interventional radiology

This teaching atlas provides a comprehensive and practical overview of fetal ultrasound technology, providing up-to-date diagnosis and examination guidelines for all clinically important anomalies and diseases. Incorporating an impressive collection of sonographic images and plates, the book provides an invaluable visual aid in recognizing even the most difficult-to-interpret ultrasound findings.

This book provides a concise yet comprehensive source of current information on Down syndrome. It focuses on exciting areas of research on chromosome editing, neurogenomics and diseases associated with Down syndrome. Research workers, scientists, medical graduates and physicians will find this book as an excellent source for consultation and references. Key features of this book are chromosome engineering in Down syndrome, mental retardation and cognitive disability, prenatal diagnosis and diseases associated with Down syndrome. Although aimed primarily for research workers on Down syndrome, we hope that the appeal of this book will extend beyond the narrow confines of academic interest and be exciting to wider audience, especially parents, relatives and health care providers who work with infants and children with Down syndrome. Nowadays, nobody can imagine practicing obstetrics without using obstetrical ultrasound. Working in the prenatal diagnosis field requires dedication, patience, skills, experience, caution, and empathy. The concept of this book was guided by the desire to provide some help to the ultrasound operators. On a daily basis, they are confronted with the challenging task of ruling out or suspecting/confirming the diagnosis of fetal anomalies, either structural or chromosomal. The chapters of this book contain objective and exhaustive

updated reviews of the pertinent literature, so that the reader would have a wide reference basis on each subject. Yet, many authors scan the fetus themselves or are directly involved with managing pregnancies with structural malformations or chromosomal anomalies. They kindly shared their personal experience and lessons learned over the years. This book is beneficial for all the professionals working in the prenatal diagnosis.

Obstetric Imaging will help you detect fetal abnormalities with greater confidence and accuracy. Covering MRI as well as ultrasound and interventional procedures, it equips you with expert tips for recognizing and addressing problems that you might otherwise miss. Obstetric Imaging provides the advanced guidance you need to recognize fetal health challenges early and respond effectively! Get advanced clinical guidance from a preeminent team of international maternal-fetal medicine specialists and obstetrician/gynecologists. See perfect examples of normal and variant anatomy, as well as the full range of fetal syndromes, with 1,318 images, 361 in full color. Know how to get optimal diagnostic accuracy from ultrasound and when to use MRI instead. Effectively perform image-guided interventions including amniocentesis, fetal transfusion, selective laser photocoagulation, radiofrequency ablation, fetal shunt placement, and more. Master important nuances of sonography by watching 69 videos online. Access Obstetric Imaging online at [www.expertconsult.com](http://www.expertconsult.com), view all the videos, and download all the images.

This book provides a concise yet comprehensive source of current information on Down syndrome. Research workers, scientists, medical graduates and paediatricians will find it an excellent source for reference and review. This book has been divided into four sections, beginning with the Genetics and Etiology and ending with Prenatal Diagnosis and Screening. Inside, you will find state-of-the-art information on: 1. Genetics and Etiology 2. Down syndrome Model 3. Neurologic, Urologic, Dental

This text encompasses the most essential information in the field of pediatric radiology in a concise, easy-to-use source. Highly focused, succinct chapters, organized by symptom, help readers to select the most appropriate imaging approaches and arrive at correct diagnoses based on patients' presenting signs. Most significantly, the book separates coverage of neonates from material on older infants and children, since radiographic presentation differs so dramatically between these two groups. Includes valuable chapters on the neonate with respiratory distress, the neonate with birth trauma, the child and adolescent with abdominal pain and recognising cases of child abuse Describes all relevant imaging modalities used in pediatric radiology, including conventional radiology, computed tomography, ultrasonography, magnetic resonance imaging and nuclear medicine Begins each section with images and descriptions of normal anatomy as a foundation for better understanding of abnormal radiologic images Discusses specific technical considerations and common mistakes, and provides memory hints and charts for quick reference Features over 525 outstanding,

never-before-published illustrations that cover the entire gamut of pediatric imaging findings

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.

This basic text introduces the reader to all facets of pediatric imaging from the importance of understanding X-ray exposure to children through the appropriate indications for ordering a particular examination. It covers basic problems in each organ system. There is a quiz after most of the clinical chapters. The text is aimed at the novice, while the pictures of classic important imaging findings are designed to test the mature pediatric caregiver and the radiologist beginning training. The information conveyed in this text is essential for pediatric house staff, entering radiology residents, pediatric nurse practitioners, emergency room physicians, and practicing pediatricians. It will be valuable to all physicians who deal with children as a segment of their practice. This book serves as the basic text for any of the above individuals taking a rotation through a pediatric imaging department and for orienting pediatric personnel within the imaging department.

Written by the world's preeminent authorities on diagnostic ultrasound, the Second Edition of this bestseller guides readers through the use of ultrasound to detect and identify birth defects--including heart malformations, kidney obstructions, intestinal blockages, lung abnormalities, and more. The book offers up-to-date advice on what to look for, given a certain risk or clinical history, and how to perform and interpret the ultrasound examination. More than 1,600 images--including full-color throughout--provide a true-to-life view of ultrasound findings. Each anomaly is discussed in an easy-to-follow format that covers characteristic features...pathogenesis and etiology...differential diagnosis...prognosis...and management. This edition includes brief tables of teratogens and information on genetic markers.

Ultrasound is the main diagnostic tool in the prenatal detection of congenital abnormalities. The Fetal Medicine Foundation has recognized the importance of this tool by setting up a program of training and certification to help establish high standards of scanning on an international scale. *Diagnosis of Fetal Abnormalities: The 18-23-Week Scan* provides the basis of learning for the theoretical component of this program. The book is a complete, authoritative clinician's textbook on using ultrasound in the prenatal detection of congenital abnormalities. It summarizes the prevalence, etiology, prenatal sonographic features and prognosis for both common and rare fetal abnormalities.

Advances in cytogenetics continue to crop up in wonderful ways, and we know exponentially more about chromosomes now than mere decades ago. Likewise, the necessary skills in offering genetic counseling continue to evolve. This new edition of *Chromosome Abnormalities in Genetic Counseling* offers a practical, up-to-date guide for the genetic counselor to marshal cytogenetic data and analysis clearly and effectively to families.

Chest wall deformities encompass a variety of congenital and acquired pathologies that affect the pediatric and the adult population. This comprehensive work offers detailed state of the art information on the changing paradigms in ultrastructural evaluation, diagnosis, clinical investigation, and treatment and reflects the shift towards conservative and minimally invasive treatment options. The combination of concise descriptions and high-quality images will provide the reader with a clear understanding of all relevant concepts. Diagnostic and imaging modalities are analysed in depth, and surgical procedures are explained step by step with the

aid of clear, informative illustrations. Experts in the management of chest wall deformities from all over the world have contributed their experiences and approaches, making this a unique textbook in the field and an ideal reference work for clinicians and surgeons.?

This important new publication summarises the recent exciting advances in screening for Down's syndrome. It addresses important clinical questions such as: risk assessment, who to screen, when to screen, which techniques to use, and the organisation of screening programmes nationally and internationally. An international and authoritative team of authors has been invited to assess the latest developments in this rapidly advancing area. The volume provides a critical and much needed evaluation of the potential and limitations of new and established techniques for screening for Down's syndrome. It will serve as an essential source of information for all those involved in pre-natal diagnosis and the provision of obstetric care.

- Heavily illustrated atlas covers entire development from week 1 through birth.
- Enables the Radiologist or Obstetrician to monitor progress, and the Pathologist to see what went wrong.
- Cross-disciplinary expertise; authors are a leading Pediatric Radiologist, a Geneticist, and an expert in abnormal pediatric skeletal development.

Next generation sequencing (NGS) has surpassed the traditional Sanger sequencing method to become the main choice for large-scale, genome-wide sequencing studies with ultra-high-throughput production and a huge reduction in costs. The NGS technologies have had enormous impact on the studies of structural and functional genomics in all the life sciences. In this book, Next Generation Sequencing Advances, Applications and Challenges, the sixteen chapters written by experts cover various aspects of NGS including genomics, transcriptomics and methylomics, the sequencing platforms, and the bioinformatics challenges in processing and analysing huge amounts of sequencing data. Following an overview of the evolution of NGS in the brave new world of omics, the book examines the advances and challenges of NGS applications in basic and applied research on microorganisms, agricultural plants and humans. This book is of value to all who are interested in DNA sequencing and bioinformatics across all fields of the life sciences.

Gamuts in Radiology is the world's most complete, best known, and most trusted guide to radiologic differential diagnosis. Since 1975, radiologists the world over have used it to ensure that every diagnostic possibility is considered. For the Fourth Edition, Dr. Maurice M. Reeder has assembled an all-new board of Section Editors who have completely revised and updated their respective sections. New features in the fourth edition include: over 250 new gamuts, updates in more than 80 percent of the previous gamuts, an entire new section on obstetrical ultrasound.

This third edition of Pediatric Radiology-a volume in The Requisites in Radiology series-covers everything from basic principles of interpreting diagnostic imaging studies through cutting-edge techniques. Expert authors Johan G. Blickman, MD, PhD and Patrick D. Barnes, MD are now joined by Bruce R. Parker, MD to provide the latest advances in pediatric radiology in a convenient, quick-access format with high-quality images. This edition features a greater emphasis on differential diagnosis, neuron functional imaging, and coverage of the dynamic topic of cardiac MR. You'll have everything you need to succeed in radiology examinations, subspecialty rotations, and clinical practice. Provides comprehensive yet concise coverage of the core material fundamental to this subspecialty for learning and quick reference. Presents material in a logical anatomic sequence, organized by organ system with eight chapters covering an overview of pediatric imaging, chest, heart, gastrointestinal tract, accessory organs of digestion, genitourinary tract, the skeletal system, and neuroimaging. Features a multi-modality approach to provide you with the most common imaging approaches tailored to each organ system. Emphasizes that pediatric diagnosis is a distinct specialty, as opposed to an aberration from standard adult diagnosis. Includes tables, boxes, pearls, key concepts, and differential diagnosis throughout the text to make key material accessible and easy to

reference. Presents expanded coverage-by more than 20%-on the basics of interpreting diagnostic imaging studies of infants and children so you get an even more comprehensive guide that still maintains its concise format. Reflects the advances and changes in the field through extensive updates to many of the images and all the chapters, tables, boxes, FAQs, and Pearls & Pitfalls. Provides new insights from additional co-author Bruce R. Parker, MD-a respected authority in the field-for new approaches to the material. Features an increased emphasis on neuron functional imaging to highlight the recent developments in this area. Includes more differential diagnosis and integrates the diagnosis of emergency conditions throughout out the text so you can quickly and easily identify conditions accurately. Captures the prominent and fast-moving area of cardiac MR to keep you abreast of hot new technologies.

Fetal medicine has emerged as a separate subspecialty over the last 30 years as a result of major advances in a number of areas, in particular ultrasound imaging, cytogenetics, molecular biology and biochemistry. The widespread use of antenatal screening and diagnostic tests has led to an increased need for obstetricians to have knowledge and skills in fetal medicine. This book provides the information that underpins training programmes in fetal medicine and integrates science and clinical disciplines in a practical and useful way. Clinical sections include: the latest advances in prenatal screening; a systems-based presentation of the diagnosis and management of fetal malformations; complete coverage of common and rare fetal conditions including growth restriction, endocrine and platelet disorders, early pregnancy loss, and twins/multiple pregnancy. More focus on important basic-science concepts, such as maternofetal cell trafficking, and the relevance to clinical management.

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.

### Chromosome Abnormalities and Genetic CounselingOUP USA

Rapid advances are taking place in the field of imaging. This results in the need for re-evaluating and redefining the role of a modality in different clinical scenarios. Coupled to this, particularly in paediatric radiology is the need for ensuring patient safety. The industry has made significant attempts to minimize radiation exposures in imaging and this is pre-requisite that cannot be over-emphasized in children. Paediatric radiology is already a well-established subspecialty in the West, but in the developing world due to the paucity of trained radiologists in proportion to our population, every practicing radiologist needs to be aware of the special needs and disease entities in children. The third edition of the book has been designed to

include current recommendations, guidelines and existing knowledge on the subject. The content of all chapters has been updated, while some have been significantly restructured. New chapters have also been added. It is our earnest hope that our readers will find this text informative and that it will aid in their learning process and daily practice.

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