1. Record Nr. UNINA9910791051403321

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Titolo	Pediatric Imaging Essentials : Radiography, Ultrasound, CT, and MRI in Neonates and Children / / by: Riccabona, Michael
Pubbl/distr/stampa	Stuttgart, Germany ; ; New York, New York : , : Thieme, , 2014 ©2014
ISBN	3-13-258029-5 3-13-166211-5
Edizione	[1st ed.]
Descrizione fisica	1 online resource (348 pages) : illustrations
Disciplina	618.9200754
Soggetti	Pediatric diagnostic imaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"633 illustrations."
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Pediatric Imaging Essentials: Radiography, Ultrasound, CT, and MRI in Neonates and Children -- Title Page -- Copyright -- Contributors -- Preface -- List of Abbreviations -- Contents -- 1 Special Imaging Issues in Children -- 1.1 General Introduction, Basic Considerations -- 1.2 Importance of Radiation Protection in Children -- 1.3 Radiography and Fluoroscopy -- 1.4 Technique and Clinical Value of Ultrasound in Pediatric Radiology -- 1.5 Special Aspects of Computed Tomography in Children -- 1.6 Special Aspects of Magnetic Resonance Imaging in Children -- 2 Imaging of the Pediatric Chest -- 2.1 Chest Radiography, Computed Tomography, and Magnetic Resonance Imaging-Lung, Pleura, and Thoracic Cage -- 2.2 Mediastinum -- 2.3 Basic Principles of Thoracic Ultrasound in Children -- 2.4 The Pediatric Breast -- 2.5 Important Aspects of Cardiac Imaging in Newborns and Children -- 3 Imaging of the Pediatric Gastrointestinal Tract -- 3.1 Imaging Modalities and Prerequisites -- 3.2 Congenital Anomalies of the Gastrointestinal Tract -- 3.3 Neonatal Gastrointestinal Problems and Complications -- 3.4 Acquired Gastrointestinal Changes after the Neonatal Period -- 3.5 Congenital and Acquired Abnormalities of the Liver, Bile Ducts, and Pancreas -- 3.6 Important Disorders of the Spleen -- 4 Imaging of the Pediatric Central Nervous System and Spine -- 4.1 Radiography, Computed Tomography, and Magnetic Resonance

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5.9 (Poly)cystic Kidney Diseases and Nephropathies -- 5.10 Urinary Tract Involvement by Systemic Disease, Bladder Dysfunction -- 5.11 Imaging of the Pediatric Female Genital Tract -- 5.12 Imaging of the Pediatric Male Genital Tract -- 5.13 Intersex, Urogenital Sinus, and Anogenital Malformations -- 5.14 Other -- 6 Imaging of Pediatric Trauma -- 6.1 Introduction and General Considerations -- 6.2 Growth Disorders -- 6.3 Imaging of Fractures -- 6.4 Nomenclature and Classification -- 6.5 Frequency of Various Fractures in Children -- 6.6 Cranial and Craniofacial Injuries -- 6.7 Spinal Injuries -- 6.8 Visceral Injuries and Children in Emergency Room -- 6.9 Sports-Related Injuries and Chronic Trauma -- 6.10 Child Abuse -- 6.11 Obstetric Trauma -- 6.12 Intraocular Foreign Bodies -- 7 The Pediatric Musculoskeletal System -- 7.1 Normal Skeleton and Variants -- 7.2 Regional Skeletal Malformations, Abnormalities of Bone Shape and Arrangement -- 7.3 Congenital Hip Dysplasia -- 7.4 Spinal Column -- 7.5 Osteochondrosis and Aseptic Necrosis -- 7.6 Osteomyelitis -- 7.7 Diseases of Joints -- 7.8 Changes in Soft Tissues -- 8 Pediatric Oncoradiology -- 8.1 General Introduction and Basic Principles -- 8.2 Tumors of the Brain, Orbit, and Spine -- 8.3 Neuroblastoma, Adrenal Masses, and Thoracic Tumors -- 8.4 Tumors of the Urogenital Tract -- 8.5 Gastrointestinal Tumors and Tumors of Liver, Pancreas, Spleen, Bowel, and Mesentery -- 8.6 Important Tumors of Muscle, Bone, and Soft-Tissue -- 8.7 Systemic Oncologic Diseases -- 9 Syndromes, Metabolic Disorders, and Other Characteristic Features in Children -- 9.1 Introduction -- 9.2 Hormone Deficiencies and Growth Disorders -- 9.3 Adrenal Involvement in Hormonal Disorders -- 9.4 Abnormalities of Thyroid Gland and Thyroid Metabolism -- 9.5 Typical Bony Changes in Syndromic Disorders.
9.6 Examples of Syndromic Conditions with Skeletal Involvement -- 9.7 Metabolic Disorders -- Index.

Sommario/riassunto

For all radiologists diagnosing infants and children, knowledge of best practices in pediatric imaging is essential to safely obtaining high-quality images and achieving accurate diagnoses. This practical text covers current guidelines and key topics in the field, including choice of modality, equipment and dosages, child-specific diseases, typical imaging findings, differential diagnostic aspects, and safety factors. This book is invaluable for all clinicians and radiologists who diagnose and manage this sensitive population. Special Features: Explores the use of all standard imaging modalities in children as compared to adults, especially with regard to ultrasound, CT, and MRI Supplies more than 600 high-quality images to help in interpreting findings, including imaging of suspected child abuse Shows how to adapt examination protocols and equipment requirements for the specialized needs of pediatric patients Describes important safety protection measures in children utilizing the ALARA principle of radiation exposure (As Low As Reasonably Achievable) Summarizes a wide array of pediatric diseases and disorders in a concise, checklist format, including clinical features, imaging findings, differential diagnosis, associated syndromes, and treatment recommendations Includes lists of indications, summary tables, imaging protocols, case studies, and quiz questions to test your knowledge This book provides a

fundamental understanding of imaging in infants and children and is an ideal, practice-oriented reference for residents, fellows in pediatric radiology, and general radiologists. It is also written for pediatricians, pediatric surgeons, and other interested doctors and specialists who want to know more about imaging specifics in the pediatric age group.