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Titolo	Contrast-Enhanced Ultrasound in Pediatric Imaging / / edited by Paul S. Sidhu, Maria E. Sellars, Annamaria Deganello
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-49691-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XVII, 275 p.) : 185 illus., 164 illus. in color
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Nota di contenuto	Physiology of Microbubble agents -- Safety of Microbubble agents -- Quantitate measurements of Microbubble agents -- Legal aspects of Microbubble use in children -- How to set up a CEUS service for children -- Paediatric focal liver disease – clinical perspective -- CEUS in focal liver lesions in children -- CEUS in Paediatric Transplantation -- Blunt Abdominal Trauma in Children – clinical perspective -- CEUS in Blunt Abdominal Trauma -- Vesico-ureteric reflux – clinical perspective -- Ce VUS – current experience and technique -- Ce VUS – advanced techniques of CEUS imaging -- CEUS in the Paediatric Testis -- Lung CEUS in childhood pneumonia -- CEUS in Inflammatory bowel disease -- CEUS in Childhood Oncology -- CEUS in Neurosurgery -- Cost effectiveness of CEUS in paediatric practice.
Sommario/riassunto	This book is a comprehensive guide to the rapidly evolving field of contrast-enhanced ultrasound (CEUS) in the child. The uses and interpretation of CEUS are clearly explained with the aid of numerous illustrations. The coverage encompasses both established indications, such as focal liver lesions, abdominal solid organ injury, and vesicoureteral reflux, and a range of newer applications. Extensive information is also provided on microbubble agents and their use in the pediatric age group, as well as on practical aspects of setting up a CEUS

service for children. CEUS is a safe imaging method that is ideal for the young patient and can be used for problem solving in a number of clinical situations. Ultrasound combined with microbubble contrast avoids the ionizing radiation of a CT examination, the use of iodinated contrast, the need for sedation or a general anesthetic, and the complexities of MR imaging. In bringing readers up to date with best practice and the latest innovations in CEUS, this book will be of value for pediatric radiologists, pediatric sonographers/technicians, and pediatricians.