1. Record Nr. UNINA9910785137403321

Titolo	Extra-cranial applications of diffusion-weighted MRI / / edited by Bachir Taouli [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2011
ISBN	0-511-85114-6 1-107-21611-7 1-282-81799-X 9786612817991 0-511-90893-8 0-511-90819-9 0-511-90970-5 0-511-90690-0 0-511-77807-4 0-511-90562-9
Descrizione fisica	1 online resource (ix, 216 pages) : digital, PDF file(s)
Collana	Cambridge medicine Extra-cranial applications of diffusion-weighted MRI
Disciplina	616.07/548
Soggetti	Diffusion magnetic resonance imaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Basic physical principles of body diffusion-weighted imaging / Eric E. Sigmund and Jens Jensen -- Diffusion-weighted MRI of the liver / Bachir Taouli and Dow-Mu Koh -- Diffusion-weighted MRI of diffuse renal disease and kidney transplant / Frederik De Keyzer and Harriet C. Thoeny -- Diffusion-weighted MRI of focal renal masses / Sooah Kim and Bachir Taouli -- Diffusion-weighted MRI of the pancreas / Tomoaki Ichikawa [and others] -- Diffusion-weighted MRI of the prostate / Sophie F. Riches and Nandita DeSouza -- Breast applications of diffusion-weighted MRI / Yong Guo -- Diffusion-weighted MRI of lymph nodes / Thomas C. Kwee and Taro Takahara -- Diffusion-weighted MRI of female pelvic tumors / Hela Sbano and Anwar R. Padhani -- Diffusion-weighted MRI of the bone marrow and the spine / Olaf Dietrich and Andrea Baur-Melnyk -- Diffusion-weighted MRI of

soft tissue tumors / Masayuki Maeda -- Evaluation of tumor treatment response with diffusion-weighted MRI / Andriy M. Babsky, Shenghong Ju and Navin Bansal -- Diffusion-weighted MRI: future directions / Dow-Mu Koh and David J. Collins.

Sommario/riassunto

Continuous improvement in MRI technology in recent years has led to the application of diffusion-weighted MR imaging in organ systems outside the brain. Extra-Cranial Applications of Diffusion-Weighted MRI provides an extensive review of current and future applications of this imaging modality by world-renowned experts. Organized by organ system, each chapter is highly illustrated, offering a balance of protocols, illustrations and principles of image interpretation. An initial chapter provides an overview of relevant physics and other technical details, followed by detailed chapters on all major body systems including liver, kidney, prostate, breast and spine. A final chapter discusses assessment of therapy response. Written and edited by leading DW-MRI experts worldwide, Extra-Cranial Applications of Diffusion-Weighted MRI is an invaluable resource for radiology trainees, practising radiologists and for researchers in a wide variety of disciplines.