

Abdominal magnetic resonance

(eds Angelo Vanzulli, Giovanni Morana, Stefano Colagrande, Luigi Grazioli)

Preface

GENERAL SECTION

Stefano Colagrande, Pasquale Paolantonio

Introduction

Symbols, acronyms and glossary

Genesis and intrinsic parameters of signal
Extrinsic parameters
Signal encoding and basic K-space concepts
Pulse sequences
Saturation techniques
K-space sampling strategies
Diffusion images
MR quantification
General and flow semeiotics
Acquisition: angiography sequences
Equipment
Artifacts
MR safety

SPECIAL SECTION

Contrast media

Giovanni Morana, Luigi Grazioli et al

- Safety on MRI contrast agents (*Alfonso Ragozzino et al*)

Liver

Luigi Grazioli, Giovanni Morana et al

- Hepatopathy and cirrhosis
- Non-cirrhotic and oncological liver

MR in pediatrics - Liver tumors

Maria Pia Bondioni, Marcello Napolitano et al

Portal system

Alfonso Ragozzino et al

Liver transplantation: pre- and postoperative evaluations

Rita Golfieri et al

Gallbladder and biliary system

Alfonso Ragozzino et al

MR in pediatrics - Choledocal cysts and malformations

Maria Pia Bondioni, Marcello Napolitano et al

Pancreas

Giovanni Morana et al

Spleen

Alessandro Stecco et al

Gastrointestinal system

Andrea Laghi et al

- Esophagus
- Stomach
- Small bowel
- Colon
- Rectal cancer (*Andrea Delli Pizzi, Regina Beets-Tan*)
- Anal canal

Kidney and urinary tract

- Kidney (*Maria Assunta Cova et al*)

MR in pediatrics - Kidney tumors

Marcello Napolitano, Maria Pia Bondioni et al

- Urinary tract (*Maria Assunta Cova et al*)

MR in pediatrics - Urinary tract malformations

Marcello Napolitano, Maria Pia Bondioni et al

- Bladder (*Maria Assunta Cova et al*)

MR in pediatrics - Bladder tumor

Maria Assunta Cova et al

Morphological and functional MR-urography

Antonio Luna Alcalá

Adrenal glands

Roberta Ambrosini, Luigi Grazioli et al

MR in pediatrics - Neuroblastoma and extra-adrenal neuroblastic tumors

Marcello Napolitano, Maria Pia Bondioni et al

Peritoneum

Roberta Ambrosini et al

Retroperitoneum

Giulia Zamboni et al

MR in pediatrics - Retroperitoneal tumors

Marcello Napolitano, Maria Pia Bondioni et al

Female genital system

Maria Assunta Cova et al

- Annexa
- Uterus and cervix
- Urethra
- Vagina and vulva

Male reproductive system

Pietro Torricelli et al

- Prostate
- Seminal vesicles and vas deferens
- Didymus and epididymus
- Penis and urethra

Abdominal magnetic resonance angiography

Angelo Vanzulli, Pietro Gemma

Whole-body magnetic resonance imaging in oncology

Giuseppe Petralia et al

MR evaluation after oncological therapy

Dow-Mu Koh