

<<头颅MRI成像 MRI Imaging of the Skull and Brain>>

图书基本信息

书名：<<头颅MRI成像 MRI Imaging of the Skull and Brain>>

13位ISBN编号：9783540522935

10位ISBN编号：354052293X

出版时间：1995-1

出版时间：Oversea Publishing House

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页数：808

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### 内容概要

Subject of the book is MR imaging in all kinds of diseases that may affect the skull and brain. Primary purpose of the book is to provide the reader with a descriptive as well as pictorial overview of MRI in the various pathologic processes. An important additional purpose is to explain how to make the best use of MRI if a particular disease is suspected. Extensive information on differential diagnosis will also be included.

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书籍目录

CHAPTER 1 Fundamental Physics and Chemistry Wilfred Loeffler: Hanns-Joachim Weinmann, Heinz Gries, Ulrich Speck Introduction Nuclear Magnetic Resonance Relaxation Image Formation Pulse Sequences and Image Contrast Gradient Echo Sequences Steady State Sequences Spin Echo Sequences Inversion Recovery Sequences Instrumentation Magnet System Gradient System RF Electronics RF Coils Computer System, Display System, and Software Potential Hazards Image Artifacts Chemical Shift Misregistration Edge Ringing (Truncation Artifact) Aliasing (Wrap-Around Artifact) Metal Artifacts Magnetic Susceptibility Gradient Nonlinearity and Magnet Inhomogeneity Motion and Flow Artifacts Flow Imaging and MR Angiography Phase-Sensitive Methods Inflow-Enhancement Methods Contrast Agents Mechanism of Contrast Enhancement, Types of Contrast Agents Gd-DTPA/Dimeglumine ReferencesCHAPTER 2 Principles of Examination and Interpretation Scott Mirowitz, Klaus Sartor Introduction Safety Considerations Patient Preparation and Monitoring Examination Techniques General Objectives Standard (Spin Echo) Pulse Sequences Special Pulse Sequences Imaging Protocols Imaging Strategies Image Analysis and Interpretation ReferencesCHAPTER 3 Normal Anatomy Klaus Sartor Introduction Brain and Skull Maturation General Features of the Adult Brain Normal Aging of the Brain Cerebral Hemispheres Deep and Midline Cerebral Structures Brainstem and Cerebellum Cranial Nerves and Sellar Region Cerebral Blood Vessels and Meninges Orbit and Cranium ReferencesCHAPTER 4 Developmental Anomalies Klaus Sartor Introduction Gross Morphology Differentiation of Gray and White Matter and Myelination Neoplastic Degeneration Other Structural Abnormalities Functional Anatomy Associated Extracranial Anomalies Disorders of Dorsal Induction Encephaloceles Chiari I and II Malformations Syringohydromyelia and Syringobulbia Disorders of Ventral Induction Holoprosencephaly Neuroepithelial Cysts Dandy-Walker MalformationCHAPTER 5 Mechanical TraumaCHAPTER 6 Tumors and Related ConditionsCHAPTER 7 Vascular DiseasesCHAPTER 8 Infection and InflammationsCHAPTER 9 Demyelinating and Degenerative DiseasesCHAPTER 10 Miscellaneous ConditionsSubject Index

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