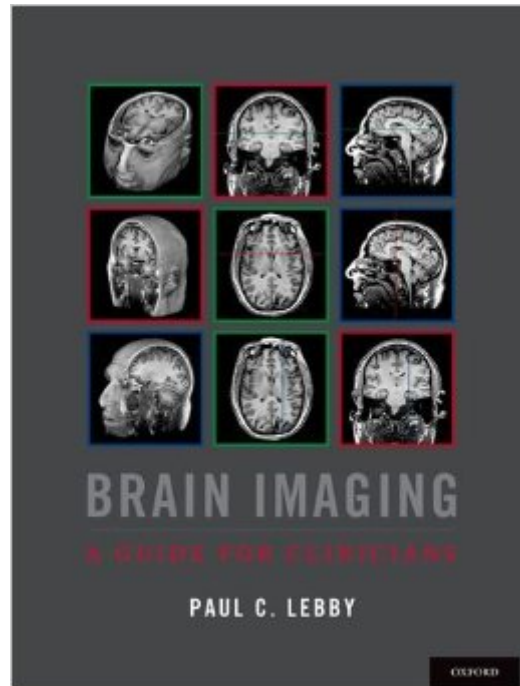


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Brain Imaging: A Guide For Clinicians



Synopsis

Brain Imaging: A Guide for Clinicians is designed to provide a foundation of information necessary for those wishing to integrate brain imaging into their practice, or to those who currently review brain scans but have minimal formal training in neuroimaging. The guide covers a range of topics important to those using brain imaging, such as the strengths and weaknesses of the many different techniques currently available, the factors that may influence the use of imaging data, common pitfalls or artifacts that may be misleading to the clinician, the most appropriate techniques to use given a specific clinical question or condition, how to interpret information presented on a brain image, and also how many pathological conditions appear on a variety of brain scanning techniques or sequences. This guide also provides detailed information regarding the identification of primary brain regions, anatomical structures, systems or pathways using both two-dimensional and three-dimensional imaging techniques. A brain atlas is included using both CT and MRI sequences to facilitate the reader's ability to identify most primary brain structures. A novel color-coded system is used throughout this guide to assist the reader in identifying slice locations and orientations. Images with green borders are displayed in the axial plane, with the slice location being shown on other orthogonal image planes by a green line. Similarly, images with a red border are displayed in the coronal plane and those with a blue border are displayed using a sagittal plane; red and blue reference lines are displayed on orthogonal slices to identify the slice location. The crosshairs formed by the color-coded reference lines optimize the reader's ability to identify primary anatomical structures or pathological markers and processes. Chapters in this book progress from a general description of the clinical use of brain images and the interpretation of scans, to more complex material involving neuroanatomy and imaging technology. Real-life examples of clinical cases are integrated into all chapters of this guide. Brain Imaging: A Guide for Clinicians features hundreds of images derived from traumatic and non-traumatic pathologies to provide the reader with examples of conditions most often seen in the clinic. PEARL-PERIL sections outline critical information for the clinician, along with many tables and charts designed to provide general information required when interpreting brain images.

Book Information

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Customer Reviews

I'm a resident physician training to be a psychiatrist, currently on a radiology rotation. This text has been an excellent resource to expand my knowledge of neurological radiology because it's written for non-radiologists who want to be able to competently read imaging in order to make clinical applications, such as anticipating deficits and evaluating for prognosis. It's written to be read for learning, not as a clinical reference - not that parts of it couldn't be used as this. It's good at making practical applications and delineating the limitations of imaging. I would recommend this book to other psychiatrists as well as neurologists and perhaps mid levels working in neuroscience. I suspect that this is too superficial for neurosurgeons. The book does assume the reader has already learned some neuroanatomy elsewhere.

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