

# Preface

*PET-CT: A Case-Based Approach* provides practical clinical examples of studies performed with FDG on a state-of-the-art dedicated PET-CT device. Detailed histories and correlative imaging findings are given in each case to demonstrate the level of detail required for image interpretation and the capabilities of this instrumentation. Impressions are followed by relevant discussion points and insightful “pearls and pitfalls,” all designed to provide novice as well as experienced readers a brief but concise summary of the advantages and limitations of using this technology in the clinical setting. Images are presented in PET only, CT only and fused format to highlight the advantages of this hybrid technology in displaying the spectrum of normal and pathological findings in the cases selected. Chapter 1 covers the fundamentals of PET-CT imaging with FDG including normal physiology, normal variants and technical artifacts. Chapters 2 to 12 and 15 to 26 cover a spectrum of clinical applications in oncology including common indications in lung and colorectal cancer, as well as less common cancers, such as germ cell tumors and nerve sheath tumors. The use of PET-CT in unknown primary malignancies is also covered in Chapter 15. In addition to brain tumors, Chapter 4 covers general neurological applications such as epilepsy. Cardiac and infectious disease applications are covered in Chapters 13 and 14. Finally Chapter 27 covers PET-CT applications using F-18 fluoride for bone scans. The book has two appendices. The first is a brief review of reimbursement policies; the second focuses on instrumentation.

This book is ideal for nuclear medicine practitioners, radiologists, and residents, as well as referring clinicians interested in learning more about how this new medical imaging technology can be applied in their patient populations.

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PET-CT

A Case Based Approach

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