

PET-CT: A Case-Based Approach

P.S. Conti, A. Kaushik, eds.

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Professor Conti, who is a pioneer in the development of the clinical application of PET and PET/CT, published the first edition of *PET-CT: A Case-Based Approach* in 2005. This second edition again presents correlative 3-dimensional cross-sectional PET using ^{18}F -FDG and CT images that highlight normal and abnormal findings of common and uncommon pathologies, especially cancers. Each case example is accompanied by a concise medical history of the patient and an interpretation of the PET/CT images. "Pearls and pitfalls" and insightful discussions are included to help readers understand the pathology, diagnosis, imaging approach, and treatment. Also discussed are pathophysiology and imaging techniques, including artifacts, advantages, and limitations in the clinical setting.

This book is organized into 17 chapters, the first of which deals with the fundamentals of PET/CT using ^{18}F -FDG. Chapters 2–10 discuss clinical applications of PET/CT in various common and less common cancers. Chapter 11 discusses bone PET/CT using

^{18}F -NaF in malignant and benign diseases. Chapters 12 and 13 examine neurologic applications of PET/CT, and Chapter 14 deals with pediatric cases. Cardiac and granulomatous diseases are described in Chapters 15 and 16, and the final chapter, Chapter 17, introduces newer PET tracers such as ^{18}F -florbetapir, diacetyl-bis (N^4 -methylthiosemicarbazone), ^{18}F -fluoromisonidazole, and ^{18}F -fluorothymidine. However, ^{18}F -fluciclovine and ^{68}Ga -DOTATATE are not included.

This book is a valuable resource for physicians and trainees in nuclear medicine and radiology, as well as being a way for referring physicians to learn more about how PET/CT can be applied in clinical practice.

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