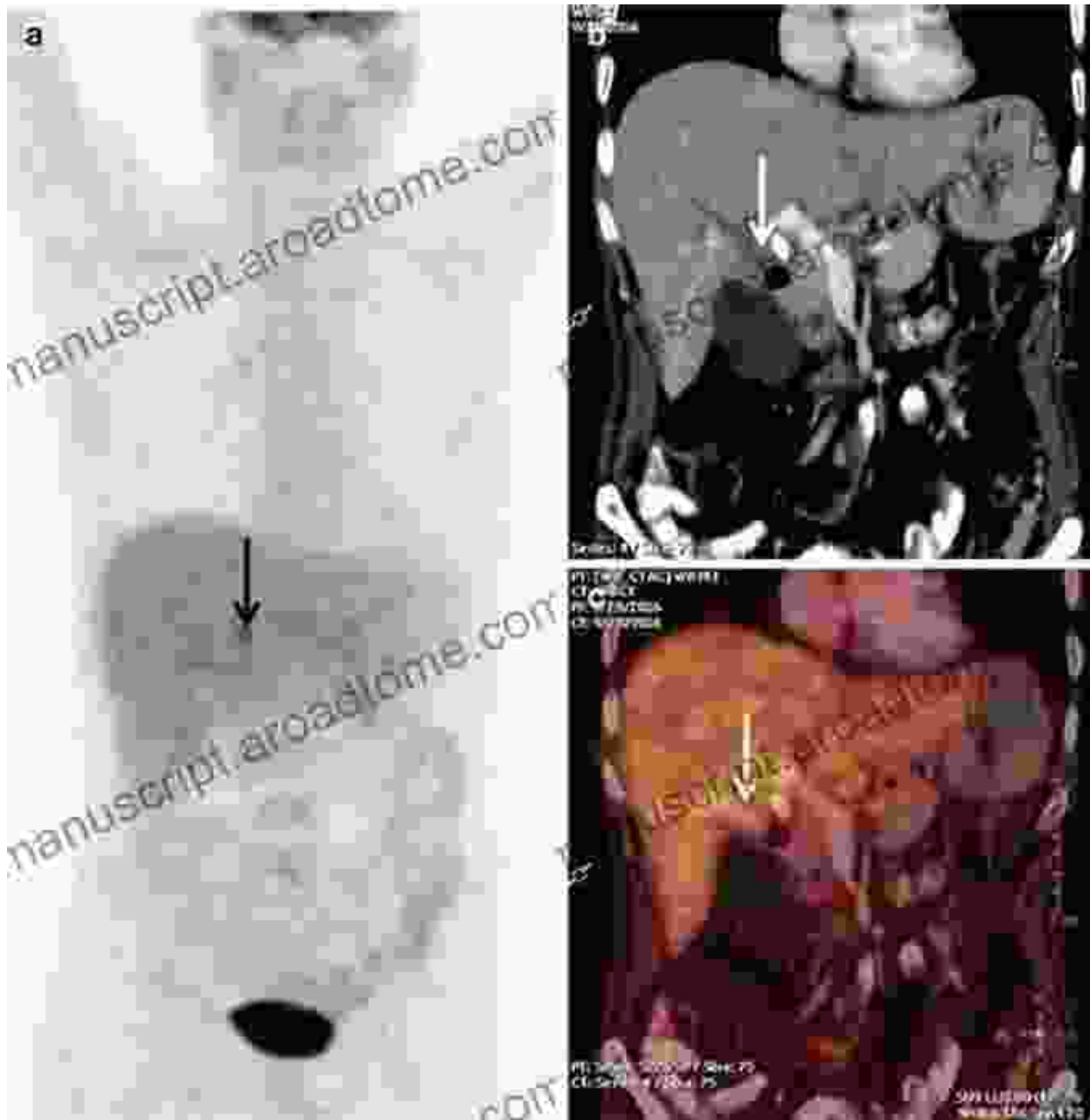
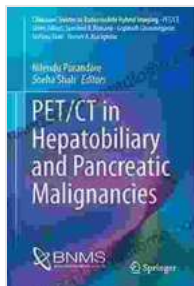


PET CT in Hepatobiliary and Pancreatic Malignancies: A Comprehensive Guide for Clinicians



PET CT imaging has become an essential tool in the detection and management of hepatobiliary and pancreatic malignancies. This

comprehensive guide for clinicians provides a detailed overview of the latest advances in PET CT technology, interpretation, and clinical applications, making it an essential resource for healthcare professionals involved in the care of patients with these malignancies.



PET/CT in Hepatobiliary and Pancreatic Malignancies (Clinicians' Guides to Radionuclide Hybrid Imaging)

by Sarah L. Thomson

★★★★☆ 4.7 out of 5

Language : English
File size : 3933 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 103 pages
Screen Reader : Supported



PET CT in Hepatobiliary Malignancies

PET CT imaging plays a crucial role in the diagnosis, staging, and surveillance of hepatobiliary malignancies, including hepatocellular carcinoma (HCC), cholangiocarcinoma, and gallbladder cancer. FDG-PET CT is the most widely used PET tracer for hepatobiliary malignancies, and it has been shown to have high sensitivity and specificity for the detection of these tumors.

PET CT can also be used to assess the response to therapy in patients with hepatobiliary malignancies. A decrease in FDG uptake following treatment is indicative of a good response, while an increase in FDG uptake is suggestive of disease progression.

PET CT in Pancreatic Malignancies

PET CT imaging is also a valuable tool in the diagnosis, staging, and surveillance of pancreatic malignancies, including pancreatic adenocarcinoma, neuroendocrine tumors, and cystic neoplasms. FDG-PET CT is the most commonly used PET tracer for pancreatic malignancies, but other tracers, such as ¹⁸F-choline and ⁶⁸Ga-DOTATATE, may also be used in certain cases.

PET CT can help to differentiate between benign and malignant pancreatic lesions, and it can also be used to assess the extent of disease and identify metastatic lesions.

Clinical Applications of PET CT in Hepatobiliary and Pancreatic Malignancies

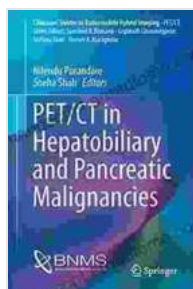
PET CT imaging has a wide range of clinical applications in the management of hepatobiliary and pancreatic malignancies, including:

- **Diagnosis:** PET CT can help to diagnose hepatobiliary and pancreatic malignancies by detecting tumors that may not be visible on other imaging modalities, such as ultrasound or CT.
- **Staging:** PET CT can help to determine the extent of disease and identify metastatic lesions, which is essential for planning treatment.
- **Surveillance:** PET CT can be used to monitor patients with hepatobiliary or pancreatic malignancies for recurrence of disease following treatment.
- **Assessment of response to therapy:** PET CT can be used to assess the response to therapy in patients with hepatobiliary or pancreatic malignancies. A decrease in FDG uptake following treatment is

indicative of a good response, while an increase in FDG uptake is suggestive of disease progression.

- **Prognostication:** PET CT can be used to prognosticate patients with hepatobiliary or pancreatic malignancies. Patients with a high FDG uptake on PET CT have a worse prognosis than patients with a low FDG uptake.

PET CT imaging is a powerful tool that can be used to improve the diagnosis, staging, surveillance, and management of hepatobiliary and pancreatic malignancies. This comprehensive guide for clinicians provides a detailed overview of the latest advances in PET CT technology, interpretation, and clinical applications, making it an essential resource for healthcare professionals involved in the care of patients with these malignancies.



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