Imaging and Focal Therapy of Early Prostate Cancer (Chapter) Palacios 2015 11. Imaging and Focal Therapy of Early Prostate Cancer evaluable scientific data is very limited. As a result, several alternative techniques have been proposed and tested for tissue ablation. These include photodynamic therapy, and cryosurgery. However, the lack of randomized trials makes it difficult to compare their efficacy and safety. In this context, laser therapy and cryosurgery are the most common approaches used in clinical practice. Laser therapy involves the use of a laser beam to create a coagulative necrosis in the targeted tissue. Cryosurgery, on the other hand, involves the use of a cryoprobe to freeze the target tissue, resulting in necrosis. Both techniques have been shown to be effective in the treatment of localized prostate cancer. However, they also have some limitations, such as the potential for severe complications and the need for additional treatments. Research is ongoing to improve the efficacy of these treatments and to develop new approaches for focal therapy. The role of MRI is crucial in the management of focal therapy, as it allows for accurate planning and monitoring of the treatment. MRI provides high-resolution images of the prostate, which can be used to identify the location and extent of the disease. This information is essential for selecting the appropriate treatment and for assessing the response to therapy. In conclusion, focal therapy is an emerging treatment option for localized prostate cancer, with the potential to offer a less invasive and more effective treatment compared to traditional radical treatment. However, further research is needed to better understand the long-term outcomes and complications of these treatments. MRI offers an important role in the evaluation and management of focal therapy, and its use will continue to grow in the future.

Focal Therapy of Prostate Cancer (Chapter) Shihab 2010 12. Focal Therapy of Prostate Cancer aims to treat the target tumor while minimizing damage to surrounding tissue. It is an emerging approach that is particularly useful for patients with localized prostate cancer, as it offers the potential for a less invasive and safer treatment compared to traditional therapies. Focal therapy techniques include cryotherapy, high-intensity focused ultrasound (HIFU), and laser ablation. In cryotherapy, extremely cold temperatures are used to freeze the target tissue, while in HIFU, sound waves are used to heat the tumor. Laser ablation involves the use of a laser beam to create a coagulative necrosis in the targeted tissue. These techniques are usually performed under MRI guidance, which allows for precise targeting of the tumor. The role of MRI is crucial in the management of focal therapy, as it allows for accurate planning and monitoring of the treatment. MRI provides high-resolution images of the prostate, which can be used to identify the location and extent of the disease. This information is essential for selecting the appropriate treatment and for assessing the response to therapy. In conclusion, focal therapy is an emerging treatment option for localized prostate cancer, with the potential to offer a less invasive and more effective treatment compared to traditional radical therapy. However, further research is needed to better understand the long-term outcomes and complications of these treatments. MRI offers an important role in the evaluation and management of focal therapy, and its use will continue to grow in the future.

MRI of the Prostate, An Issue of Radiologic Clinics of North America (Chapter) Axel 2015 13. The role of MRI is crucial in the evaluation and management of focal therapy, as it allows for accurate planning and monitoring of the treatment. MRI provides high-resolution images of the prostate, which can be used to identify the location and extent of the disease. This information is essential for selecting the appropriate treatment and for assessing the response to therapy. In conclusion, focal therapy is an emerging treatment option for localized prostate cancer, with the potential to offer a less invasive and more effective treatment compared to traditional radical therapy. However, further research is needed to better understand the long-term outcomes and complications of these treatments. MRI offers an important role in the evaluation and management of focal therapy, and its use will continue to grow in the future.

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Molecular & Diagnostic Imaging in Prostate Cancer—Mukesh G. Harisinghani 2012-11-15 This completely new and updated issue covers the most important topics in male pelvic imaging. Among the articles in this issue are discussions of Imaging of prostate cancer, the scrotum, male pelvic cancer theranostics across the emergent field, with discussion of biomarkers, molecular imaging, imaging guided therapy, nanotechnology, and personalized medicine and future perspectives. Supports elimination of multi-step approaches and reduces delays in treatments through combinatorial diagnosis and therapy Fully assesses imaging-guided cancer therapy. Discussion also includes nanoplatforms incorporating both cancer imaging and therapeutic components, as well as clinical translation imaging, and individualized treatments towards the personalization of cancer treatment. Cancer Theranostics describes the identification of novel biomarkers to diagnose, stage, and monitor prostate cancer for improved diagnostics and therapeutics.

Surgery: Clinical and Imaging Considerations, MRI/MRCP of Benign and Malignant Biliary Conditions, and more! Richard Abramson, will comprehensively review imaging of the hepatobiliary system. Articles will include: Hepatic MRI Techniques, Optimization, and Artifacts, MR Imaging for Hepatitis, Liver and Biliary Imaging, and more.

Interstitial Prostate Brachytherapy—György Kovács 2013-06-12 Prostate brachytherapy has been the subject of heated debate among surgeons and the proponents of alternative treatments. This work expanded upon current research with the goal of increasing the accuracy of ultrasound therapy and cancer treatment. This honors thesis explores new methods for increasing the accuracy of ultrasound therapy and cancer treatment. This honors thesis explores new methods for ultrasound therapy and cancer treatment.

Radical Imaging in Hematological Malignancies—György Kovács 2013-12-06 One of the first book's to deal specifically with imaging of the entire spectrum of hematological malignancies. The use of the latest imaging modalities is well described, and an important aspect of the book is the role of imaging techniques in determining patients' management and outcomes. Surgery is defined as a sub-specialty of radiology that encompass a wide range of diagnostic and therapeutic procedures. This book will be of great interest to radiologists and hematologists.

Imaging and Ultrasound Imaging for BBG: Current and Future Applications—György Kovács 2012-12-06 This book provides a comprehensive overview of ultrasound imaging for the treatment of prostate cancer. It will be of great interest to radiologists and hematologists. This book will be of great interest to radiologists and hematologists.