

Preface

Contemporary Renal Imaging



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Editors

This issue of *Radiologic Clinics of North America* provides a timely and practical state-of-the-art update on imaging the kidneys for the practicing radiologist. Changes in this area have occurred at a rapid pace in imaging diagnosis and treatment as well as in technologic developments and clinical management paradigms. Ongoing advances in imaging have introduced new challenges, including the optimization and standardization of protocols, interpretation, and reporting across radiologic practices. In this issue, authors provide a broad and in-depth summary of the current state-of-the-art in renal imaging with a focus on renal mass imaging and intervention by some of the leading authorities in the field today. The articles are designed as a practical and fairly comprehensive review of traditional topics covering computed tomography (CT), MR imaging, and US imaging as well as contrast reactions and imaging pitfalls. There is also an article on protocol optimization for comprehensive renal evaluation by indication and an article on renal mass reporting. Another article provides an update on solid renal mass characterization on CT and MR imaging, and one article covers renal mass biopsy and ablation. For a look into the future, additional articles focus on advances in radiomics and artificial

intelligence for renal mass characterization, and a practical update on hereditary renal cell carcinoma and imaging implications. Finally, additional articles are included addressing the role of imaging in surveillance of low-risk renal masses, new thoughts on cystic renal masses, postoperative and postprocedural imaging, and imaging the kidneys in the setting of trauma.

All of the articles are designed to be highly practical in nature, focusing on that which is most relevant to radiologists' daily imaging activities. It is hoped that the reader will be able to apply insights from these articles to enhance their practice and ultimately benefit patient care.

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