Carcinoma of the Bladder
Contemporary Issues in Cancer Imaging
A Multidisciplinary Approach

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Current titles in the series
Cancer of the Ovary
Lung Cancer
Colorectal Cancer
Carcinoma of the Esophagus
Carcinoma of the Kidney

Forthcoming titles in the series
Prostate Cancer
Squamous Cell Cancer of the Neck
Pancreatic Cancer
Interventional Radiological Treatment of Liver Tumors
Carcinoma of the Bladder

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Series foreword

Imaging has become pivotal in all aspects of the management of patients with cancer. At the same time it is acknowledged that optimal patient care is best achieved by a multidisciplinary team approach. The explosion of technological developments in imaging over the past years has meant that all members of the multidisciplinary team should understand the potential applications, limitations and advantages of all the evolving and exciting imaging techniques. Equally, to understand the significance of the imaging findings and to contribute actively to management decisions and to the development of new clinical applications for imaging, it is critical that the radiologist should have sufficient background knowledge of different tumors. Thus the radiologist should understand the pathology, the clinical background, the therapeutic options and prognostic indicators of malignancy.

Contemporary Issues in Cancer Imaging – A Multidisciplinary Approach aims to meet the growing requirement for radiologists to have detailed knowledge of the individual tumors in which they are involved in making management decisions. A series of single subject issues, each of which will be dedicated to a single tumor site, edited by recognised expert guest editors, will include contributions from basic scientists, pathologists, surgeons, oncologists, radiologists and others.

While the series is written predominantly for the radiologist, it is hoped that individual issues will contain sufficient varied information so as to be of interest to all medical disciplines and to other health professionals managing patients with cancer. As with imaging, advances have occurred in all these disciplines related to cancer management and it is our fervent hope that this series, bringing together expertise from such a range of related specialties, will not only promote the understanding and rational application of modern imaging but will also help to achieve the ultimate goal of improving outcomes for patients with cancer.

Rodney H. Reznek
London
Cancer of the urinary bladder encompasses a range of cell types, the most common in Western societies being transitional cell carcinoma (TCC). These neoplasms are characterized by a spectrum from indolent, polypoid tumors to sessile, more biologically aggressive lesions. Initial management relies heavily on cytoscopic procedures, but as disease becomes more advanced, imaging becomes central to decision making. This volume draws together contributions from various specialities, including pathology, surgery, and clinical and medical oncology. The aim is to inform the radiologist of the range of surgical procedures which has been developed, and the possibilities for management with radiotherapy. Cytotoxic chemotherapy can be used in neoadjuvant, adjuvant and palliative settings. The role of imaging in diagnosis of disease of the urothelium, the techniques for staging bladder cancer and detection of metastatic disease are each discussed in separate chapters. Imaging following treatment, including effects on normal tissues, is also covered, and the multidisciplinary nature of management of bladder neoplasms is emphasized. In line with the ethos of the Contemporary Issues in Cancer Imaging series, it is hoped that this volume will give radiologists a broader view of the technical aspects of treatment, and colleagues in other specialities will be able to further their understanding of the contribution imaging can make in our endeavors to cure the disease and control symptoms in patients with bladder cancer.

David MacVicar