

Contents

Foreword	vii
Preface	ix
Acknowledgments	xi
Contributors	xvii

PART I BASIC SCIENCE

1 The Cell	3
<i>Ray K. Iles</i>	
2 Animal Models in Genitourinary Malignancies	36
<i>Prabhakar Rajan and Hing Y. Leung</i>	

PART II CLINICAL ASPECTS AND INVESTIGATIONS

3 Radiological Investigations in Genitourinary Cancer	61
<i>Audrey E.T. Jacques and Rodney H. Reznik</i>	
4 Hematuria and Hematospermia: Clinical Evaluation and Principles of Management	107
<i>Khurshid R. Ghani and Vinod H. Nargund</i>	
5 Nuclear Medicine in Urological Cancer	122
<i>John Buscombe</i>	
6 Anesthetic Considerations in Genitourinary Cancer Patients ...	141
<i>Alistair F. McNarry and Heather Hackett</i>	
7 Laparoscopy in Urological Oncology	158
<i>Jose R. Colombo, Jr., Georges-Pascal Haber, and Inderbir S. Gill</i>	
8 Clinical Trials and Their Principles	179
<i>Denise C. Babineau and Michael W. Kattan</i>	
9 Principles of Chemotherapy for Genitourinary Cancer	194
<i>Sujith Kalmadi and Derek Raghavan</i>	

xiv Contents

10	Principles of Radiotherapy in Urologic Tumors	213
	<i>Irwin H. Lee and Howard M. Sandler</i>	
11	Clinical Emergencies in Genitourinary Cancers	224
	<i>Lewis W. Chan and Andrew J. Richards</i>	
12	Renal Failure, Dialysis, and Transplantation: Management of Tumors in Solitary Kidney and Bilateral Renal Tumors	235
	<i>Raj C. Thuraisingham</i>	
13	Diet and Genitourinary Cancer	250
	<i>Sona Kapoor and Jeetesh Bhardwa</i>	

PART III SYSTEMIC GENITOURINARY ONCOLOGY

14	Renal Cell Carcinoma	
14.1	Renal Cell Carcinoma: Overview	263
	<i>Ziya Kirkali and Cag Cal</i>	
14.2	Nonsurgical Management of Metastatic Renal Cell Carcinoma ..	281
	<i>Brian I. Rini and Ronald M. Bukowski</i>	
15	Tumors of the Adrenal Gland	298
	<i>Veronica Moyes and Shern L. Chew</i>	
16	Urothelial Tumors	
16.1	Superficial Bladder Cancer	317
	<i>T.R. Leyshon Griffiths and J. Kilian Mellon</i>	
16.2	Upper Urinary Tract Transitional Cell Carcinoma	339
	<i>D. Michael A. Wallace</i>	
16.3	Surgical Management: Cystectomy and Urinary Diversion	348
	<i>Murugesan Manoharan and Alan M. Nieder</i>	
16.4	Multidisciplinary Care of Invasive Bladder Cancer: Emerging Roles of Chemotherapy	361
	<i>Derek Raghavan and Howard M. Sandler</i>	
16.5	Management of Metastatic Bladder Cancer	377
	<i>Matthew D. Galsky and Dean F. Bajorin</i>	
16.6	Urethral Cancer (Excluding Penile Cancer)	390
	<i>Priyadarshi Kumar and Vinod H. Nargund</i>	
17	Testis	
17.1	Germ Cell Tumors	401
	<i>R.T.D. Oliver, Jonathan Shamash, and Vinod H. Nargund</i>	
17.2	Radiotherapy in the Management of Testicular Germ Cell Tumors	445
	<i>Dag Josefsen and Sophie D. Fosså</i>	

18 Prostate	
18.1 Epidemiology, Pathology, and Pathogenesis	451
<i>Sheilagh V. Reid and Freddie C. Hamdy</i>	
18.2 Clinical Presentation, Diagnosis, and Staging	470
<i>Vinod H. Nargund</i>	
18.3 Surgical Management of Carcinoma of the Prostate	482
<i>Vinod H. Nargund</i>	
18.4 Expectant Management of Early Prostate Cancer	497
<i>Nicholas J. Van As and Christopher C. Parker</i>	
18.5 Radiation Therapy for Clinically Localized Prostate Cancer	505
<i>Michael A. Papagikos and W. Robert Lee</i>	
18.6 Endocrine Manipulation	518
<i>Shandra S. Wilson and E. David Crawford</i>	
18.7 Hormone-Refractory Prostate Cancer: A Rational Approach to Chemotherapy	536
<i>Derek Raghavan</i>	
18.8 Investigational Therapies for Prostate Cancer	544
<i>Suresh Radhakrishnan and Frank Chinegwundoh</i>	
19 Cancer of the Penis and Scrotum	566
<i>Simon Horenblas and Bin K. Kroon</i>	
20 Nonurological Cancers Affecting the Urinary Tract	576
<i>Julie C. Walther and Melanie E.B. Powell</i>	
Appendixes	
A Abbreviations	597
B Tumor, Node, Metastasis Classification	598
C Performance Status	599
D Partin Tables and Kattan Nomograms	600
Index	607