

Contents

Authors	vi
Preface	ix
1. Anatomy of the Genitourinary Tract	1
Emil A. Tanagho, MD	
2. Embryology of the Genitourinary System	17
Emil A. Tanagho, MD	
3. Symptoms of Disorders of the Genitourinary Tract	31
Jack W. McAninch, MD	
4. Physical Examination of the Genitourinary Tract	41
Emil A. Tanagho, MD	
5. Urologic Laboratory Examination	50
Karl J. Kreder, Jr., MD, & Richard D. Williams, MD	
6. Radiology of the Urinary Tract	65
Hedvig Hricak, MD, PhD, & William Okuno, MD	
7. Vascular Interventional Radiology	120
Allan I. Bloom, MD, Shelley R. Marder, MD, & Roy L. Gordon, MD	
8. Percutaneous Endourology & Ureterorenoscopy	127
Joachim W. Thüroff, MD, & Christian P. Gilfrich, MD	
9. Laparoscopic Surgery	146
Howard N. Winfield, MD, FRCS, FACS	
10. Radionuclide Imaging	183
Barry A. Kogan, MD, Robert S. Hattner, MD, & Jeffrey A. Cooper, MD	
11. Retrograde Instrumentation of the Urinary Tract	196
Marshall L. Stoller, MD	
12. Urinary Obstruction & Stasis	208
Emil A. Tanagho, MD	
13. Vesicoureteral Reflux	221
Emil A. Tanagho, MD	
14. Bacterial Infections of the Genitourinary Tract	237
Simon N. McRae, MD, & Linda M. Dairiki Shortliffe, MD	
15. Specific Infections of the Genitourinary Tract	265
Emil A. Tanagho, MD	
16. Sexually Transmitted Diseases	282
John N. Krieger, MD	

17. Urinary Stone Disease	291
<i>Marshall L. Stoller, MD, & Damien M. Bolton, MD</i>	
18. Extracorporeal Shock Wave Lithotripsy	321
<i>Marshall L. Stoller, MD</i>	
19. Injuries to the Genitourinary Tract	330
<i>Jack W. McAninch, MD</i>	
20. Immunology & Immunotherapy of Urologic Cancers	350
<i>Eric J. Small, MD</i>	
21. Urothelial Carcinoma: Cancers of the Bladder, Ureter, & Renal Pelvis	355
<i>Peter R. Carroll, MD</i>	
22. Renal Parenchymal Neoplasms	378
<i>Robert Dreicer, MD, MS, FACP, & Richard D. Williams, MD</i>	
23. Neoplasms of the Prostate Gland	399
<i>Joseph C. Presti, Jr., MD</i>	
24. Genital Tumors	422
<i>Joseph C. Presti, Jr., MD</i>	
25. Urinary Diversion & Bladder Substitution	436
<i>Peter R. Carroll, MD, & Susan Barbour, RN, MS, CETN</i>	
26. Urologic Laser Surgery	451
<i>J. Stuart Wolf, Jr., MD</i>	
27. Chemotherapy of Urologic Tumors	464
<i>Eric J. Small, MD</i>	
28. Radiotherapy of Urologic Tumors	472
<i>Joycelyn L. Speight, MD, PhD, & Mack Roach, III, MD</i>	
29. Neuropathic Bladder Disorders	498
<i>Emil A. Tanagho, MD, & Tom F. Lue, MD</i>	
30. Urodynamic Studies	516
<i>Emil A. Tanagho, MD</i>	
31. Urinary Incontinence	538
<i>Emil A. Tanagho, MD</i>	
32. Disorders of the Adrenal Glands	555
<i>J. Blake Tyrrell, MD</i>	
33. Disorders of the Kidneys	572
<i>Jack W. McAninch, MD</i>	
34. Diagnosis of Medical Renal Diseases	593
<i>Flavio G. Vincenti, MD, & William J.C. Amend, Jr., MD</i>	
35. Oliguria; Acute Renal Failure	605
<i>William J.C. Amend, Jr., MD, & Flavio G. Vincenti, MD</i>	
36. Chronic Renal Failure & Dialysis	610
<i>William J.C. Amend, Jr., MD, & Flavio G. Vincenti, MD</i>	
37. Renal Transplantation	614
<i>Peter N. Bretan, Jr., MD, & Michael J. Malone, MD</i>	

38. Disorders of the Ureter & Ureteropelvic Junction	628
	<i>Barry A. Kogan, MD</i>
39. Disorders of the Bladder, Prostate, & Seminal Vesicles	644
	<i>Emil A. Tanagho, MD</i>
40. Disorders of the Penis & Male Urethra	661
	<i>Jack W. McAninch, MD</i>
41. Disorders of the Female Urethra	676
	<i>Emil A. Tanagho, MD</i>
42. Disorders of the Testis, Scrotum, & Spermatic Cord	684
	<i>Jack W. McAninch, MD</i>
43. Skin Diseases of the External Genitalia	694
	<i>Timothy G. Berger, MD</i>
44. Abnormalities of Sexual Determination and Differentiation	699
	<i>Felix A. Conte, MD, & Melvin M. Grumbach, MD, DM (hon)</i>
45. Renovascular Hypertension	737
	<i>R. Ernest Sosa, MD, & E. Darracott Vaughan, Jr., MD</i>
46. Male Infertility	750
	<i>Paul J. Turek, MD</i>
47. Male Sexual Dysfunction	788
	<i>Tom F. Lue, MD</i>
Appendix: Normal Laboratory Values	811
	<i>Marcus A. Krupp, AB, MD</i>
Index	815