CONTENTS

1. Congenital Anomalies of Kidney and Ureter 1

1.1 Antenatal Pelviureteric Junction Obstruction 1
1.2 Bilateral Pelviureteric Junction Obstruction 3
1.3 Circumcaval Ureter 6
1.4 Crossed Renal Fused Ectopia 11
1.5 Retroiliac Ureter with Contralateral Transverse Malrotation of Kidney 14
1.6 Double Moiety with Pelviureteric Junction Obstruction Lower Moiety 17
1.7 Ectopic Pelvic Kidney 21
1.8 Ectopic Ureter 23
1.9 Equivocal Pelviureteric Junction Obstruction 27
1.10 Extrarenal Pelvis and Calyces 29
1.11 Incomplete Duplication of Ureter 32
1.12 Megapelvis 34
1.13 Primary Megaureter 38
1.14 Parapelvic Cyst 43
1.15 Pelviureteric Junction Obstruction with Ectopic Kidney 45
1.16 Persistent Umbilical Artery Causing Ureteral Obstruction 47
1.17 Pelviureteric Junction Obstruction with Calculi 50
1.18 Pelviureteric Junction Obstruction with Malrotated Kidney 53
1.19 Pelviureteric Junction Obstruction with Megapelvis 55
1.20 Pelviureteric Junction Obstruction with Single Kidney 57
1.21 Pelvic Ectopic Kidney 58
1.22 Ureterocele 60
1.23 Vesicoureteral Reflux 69

2. Congenital Anomalies of Lower Urinary Tract 71

2.1 Chordee without Hypospadias 71
2.2 Complete Duplication of Urethra 73
2.3 Penile Duplication 75
2.4 Bladder Exstrophy in Adult Males 77
2.5 Epispadias 80
2.6 Incomplete Duplication of Urethra 83
2.7 Megalourethra 86
2.8 Posterior Urethral Valve 88
2.9 Parameatal Cyst 91
2.10 Paraureteric Bladder Diverticulum 92
2.11 Undescended Testis 94
2.12 Penoscrotal Transposition 96
2.13 Webbed Penis 97

3. Adrenal Gland 98

3.1 Adrenal Pheochromocytoma 98
3.2 Adrenal Adenoma 101
3.3 Adrenal Cortical Adenoma Mimicking Pheochromocytoma 105
3.4 Adrenal Cyst 108
3.5 Conn's Syndrome 110
3.6 Castleman's Disease Mimicking Adrenal Tumor 111
3.7 Multiple Pheochromocytoma 114
3.8 Pheochromocytoma Involving Right Renal Artery 116
3.9 Pheochromocytoma with Calcification 118
3.10 Recurrent Pheochromocytoma 121

4. Kidney Tumors 126

4.1 Angiomyolipoma 126
4.2 Divergent Differential Pelvic Tumor 131
4.3 Hydatid Cyst of Kidney 135
4.4 Incidental Large Renal Tumors 139
4.5 Incidental Renal Cell Carcinoma with Adrenal Hyperplasia 141
4.6 Left Renal Cell Carcinoma with IVC Thrombus 143
4.7 Mucinous Adenocarcinoma of Renal Pelvis 147
4.8 Primary Malignant Neuroepithelial Tumors of the Kidney 152
4.9 Renal Cell Carcinoma—Partial Nephrectomy 156
4.10 Sarcomatoid Renal Cell Carcinoma 158
4.11 Cystic Renal Cell Carcinoma 161
4.12 Renal Cell Carcinoma Mimicking Adrenal Tumors 163
4.13 Renal Cell Carcinoma with Cholelithiasis 165
4.14 Renal Cell Carcinoma with Hypercalcemia 167
4.15 Renal Cell Carcinoma with Inferior Vena Cava Thrombus 172
4.16 Renal Cell Carcinoma with Metastasis 175
4.17 Pyrexia of Unknown Origin as Presentation for Renal Cell Carcinoma with Lung Metastasis 180
4.18 Renal Cell Carcinoma with Renal Calcification 184
4.19 Renal Cell Carcinoma with Calculi 185
4.20 Renal Pseudotumor 193
4.21 Renal Tumor with Renal Cyst 199
4.22 Splenic Tumor Mimicking Renal Cell Carcinoma 204
4.23 Incidental Detection of Transitional Cell Carcinoma of the Renal Pelvis 210
4.24 Von Hippel-Lindau Disease 216

5. Upper Tract Urothelial Tumor 221

5.1 Bilateral Transitional Cell Carcinoma of the Upper Tract 221
5.2 Small Superior Calyceal Tumor 229
5.3 Transitional Cell Carcinoma of the Renal Pelvis 232

6. Urolithiasis 237

6.1 Bilateral Renal Stones 237
6.2 Crossed Renal Ectopia with Calculi 241
6.3 Eggshell Calcification of Kidney 246
6.4 Endemic Calculi 249
6.5 Horseshoe Kidney with Calculi 253
6.6 Matrix Calculi 256
6.7 Megaureter with Calculi 258
6.8 Milk of Calcium in Kidney 261
6.9 Postnephrectomy Residual Ureteric Calculi 263
6.10 Prostatic Calculi 264
6.11 Steinstrasse Following Extracorporeal Shock Wave Lithotripsy 266
6.12 Ureteric Calculus—Abnormal Shape 269
6.13 Ureteric Stricture Following Ureteroscopy 271

7. Genitourinary Tuberculosis 273

7.1 Genitourinary Tuberculosis —Augmentation Cystoplasty 276
7.2 Genitourinary Tuberculosis—Gastric Augmentation Cystoplasty with Trans-uretero-ureteral Anastomosis 278
7.3 Genitourinary Tuberculosis—Renal Failure 283
7.4 Genitourinary Tuberculosis with Congenital Single Kidney 285
7.5 Genitourinary Tuberculosis with Replacement of Ureter 287
7.6 Genitourinary Tuberculosis with Renal Calcification 289
7.7 Genitourinary Tuberculosis with Multiple Organ Involvement 292
7.8 Genitourinary Tuberculosis with Nonfunctioning Kidney with Thimble Bladder 294
7.9 Genitourinary Tuberculosis—Partial Nephrectomy 296
7.10 Tubercular Ureteric Stricture 297
7.11 Tubercular Bladder 299
7.12 Tubercular Epididymitis 302
7.13 Tubercular Prostatitis 304

8. Neurovesical Dysfunction 307

8.1 Neurogenic Bladder with Sphincteric Weakness 307
8.2 Neurogenic Bladder with Urethral Diverticulum 314
8.3 Pine Tree Appearance with Neurogenic Bladder 315
8.4 Neurogenic Bladder with Vesicoureteral Reflux and Chronic Kidney Disease 317
8.5 Neurogenic Bladder with Incontinence of Urine 319

9. Urinary Bladder Diseases 321

9.1 Bladder Cancer with Parotid Metastasis 321
9.2 Bladder Dysplasia 325
9.3 Bladder Pheochromocytoma 328
9.4 Cloacal Anomaly with Bladder Tumor 331
9.5 Cystitis Cystica Glandularis 335
9.6 Foreign Body—Urinary Bladder 340

9.7 Paraureteric Diverticulum with Tumor 344
9.8 Bladder Diverticulum in Adults 348
9.9 Carcinoma Urinary Bladder in a 128-Year-Old Man 351
9.10 Carcinoma Bladder with Renal Stone 353

10. Prostatic Diseases 356

10.1 Benign Prostatic Hyperplasia with Bladder Diverticulum 356
10.2 Benign Prostatic Hyperplasia with Chronic Renal Failure 359
10.3 Carcinoma Prostate with Family History 361
10.4 Carcinoma Prostate with Metastasis in Bladder 363
10.5 Concurrent Carcinoma Prostate and Pancreatic Cancer 366
10.6 Granulomatous Prostatitis 368
10.7 Large Prostate with No Obstruction 370
10.8 Malakoplakia Prostate 372
10.9 Metastasis Lower Ureter from Cancer Prostate 376
10.10 Peau D'orange from Prostate Cancer 379
10.11 Postradiation Hemorrhagic Cystitis for Cancer Prostate 381

11. Urethral Diseases 384

11.1 Congenital Anterior Urethral Obstruction 384
11.2 Continent Diversion for Stricture Urethra 386
11.3 Foreign Body in Urethra 392
11.4 Gunshot Injury with Stricture Urethra and Recto-urethral Fistula 395
11.5 Lateral Perineoscrotal Flap Urethroplasty 399
11.6 Neophallus with Urethral Fistula 406
11.7 Post-hypospadias Stricture Urethra 408
11.8 Stricture Urethra—Syringocele 410
11.9 Supraprostatic Stricture Urethra 412
11.10 Transitional Cell Carcinoma of the Male Urethra 416
11.11 Complex Urethral Stricture in Children 421
11.12 Congenital Urethral Diverticulum 426
11.13 Post-urethroplasty Urethral Diverticulum with Calculi 428

12. Testicular Tumors 433

12.1 Non-Hodgkin's Lymphoma of Testis 433
12.2 Post-orchidopexy Testicular Tumor 442
12.3 Nonseminomatous Germ Cell Tumor 444

13. Penile Diseases 451

13.1 Corporal Abscess 451
13.2 Fracture Penis 455
13.3 Penile Strangulation 457
13.4 Peyronie's Disease 460
13.5 Penile Carcinoma In Situ 466

13.6 Preputial Tumor 468
13.7 Penile Melanoma 470
13.8 Lateral Curvature of the Penis 472

14. Female Urology 475

14.1 Bladder Stone Over Tension-free Vaginal Tape 475
14.2 Choriocarcinoma Urethra 478
14.3 Female Epispadias in Adults 480
14.4 Failed Tension-free Vaginal Tape 483
14.5 Female Exstrophy Bladder and Complete Urethral Epispadias in Adult 485
14.6 Malignant Melanoma Female Urethra 487
14.7 Gartner's Cyst 489
14.8 Paraurethral Cyst 491
14.9 Vault Recurrence Following Carcinoma Cervix 493
14.10 Ureterovaginal Fistula 497
14.11 Female Urethral Carcinoma 501
14.12 Urethral Caruncle 503
14.13 Uterovesical Fistula 505
14.14 Vesicovaginal Fistula with Bladder Calculi 507
14.15 Post-hysterectomy Bilateral Ureteric and Bladder Injury 509
14.16 Ureterovaginal Fistula with Ureteral Duplication 513

15. Miscellaneous 515

15.1 Chyluria 515
15.2 Filarial Scrotum 517
15.3 Intersex—True Hermaphrodite 519
15.4 Pelvic Lipomatosis 522
15.5 Postnephrectomy Residual Kidney 526
15.6 Renal Artery Aneurysm 532
15.7 Renal Lymphangioma 534
15.8 Retroperitoneal Fibrosis 539
15.9 Retrovesical Hydatid Cyst 542

Index 545