

## **Section 1**

- 1.1: Pathogenesis of urinary tract infection, *Ased Ali*
- 1.2: Antimicrobial agents, *Kathy Walton, Sally Ager*
- 1.3: Hospital acquired urinary tract infection, *Roger Bayston*
- 1.4: Cystitis/pyelonephritis, *Bjorn Wullt, Magnus Grabe*
- 1.5: Renal and retroperitoneal abscess, *Alice Hartley, Toby Page*
- 1.6: Tuberculosis and parasitic infestations involving the urogenital system, *Christiaan F. Heyns*
- 1.7: Inflammation: Prostatitis syndrome, *Florian M.E. Wagenlehner, Adrian Pilatz, Th. Bschiepfer, Thomas Diemer, Wolfgang Weidner*
- 1.8: Inflammation: Epididymitis and scrotal abscess, *Mary Garthwaite*
- 1.9: Fournier's, *Francesco Greco, Paolo Fornara*
- 1.1: Sexually transmitted diseases, *Emma J. McCarty, Wallace Dinsmore*
- 1.11: Painful bladder syndrome/Interstitial cystitis, *Magnus Fall*

## **Section 2**

- 2.1: Epidemiology of stone disease, *Benjamin W. Turney, John Reynard*
- 2.2: Kidney stones: types and predisposing factors, *Benjamin W. Turney, John Reynard*
- 2.3: Evaluation of stone former, *Glenn Preminger, Muhammad Waqas Iqbal, Michael Lipkin*
- 2.4: Prevention of calcium oxalate stone formation, *Benjamin W. Turney, John Reynard*
- 2.5: Prevention of other non-calcium stones, *Muhammad Waqas Iqbal, Glenn Preminger, Michael Lipkin*
- 2.6: Stone fragmentation techniques: Extracorporeal shock wave lithotripsy, *Andreas Neisius, Glenn Preminger, Michael Lipkin*
- 2.7: Intracorporeal techniques of stone fragmentation, *Gastón M. Astroza, Glenn Preminger, Michael Lipkin*
- 2.8: Kidney stones: presentation and diagnosis, *Benjamin W. Turney, John Reynard*
- 2.9: Watchful waiting for stone disease, *Benjamin W. Turney, John Reynard*
- 2.10: Retrograde intrarenal surgery: Flexible ureterorenoscopy, *Glenn Preminger, Gastón M. Astroza, Michael Lipkin*
- 2.11: Kidney stone treatment: Percutaneous nephrolithotomy (PCNL), *Andreas Neisius, Glenn Preminger, Michael Lipkin*
- 2.12: Open stone surgery for kidney stones, *Glenn Preminger, Gastón M. Astroza, Michael Lipkin*
- 2.13: Medical therapy (dissolution therapy), *Benjamin W. Turney, John Reynard*
- 2.14: Ureteric stones: Presentation and diagnosis, *Benjamin W. Turney, John Reynard*
- 2.15: Ureteric stones: Acute management, *Samarjit Rai, Zachariah G. Goldsmith, Glenn Preminger, Michael Lipkin*
- 2.16: Ureteral stones: Indications for intervention, *Charles D. Scales*
- 2.17: Surgical treatment options for ureteric stones: Techniques and complications, *Zachariah G. Goldsmith, Glenn Preminger, Michael Lipkin*
- 2.18: Management of ureteric stones in pregnancy, *Benjamin W. Turney, John Reynard*
- 2.19: Bladder stones, *Benjamin W. Turney, John Reynard*
- 2.2: Upper urinary tract obstruction, *Mark Sullivan, John Henderson, Inderbir Gill*
- 2.21: The principles of endourology, *Stephen Keoghane, Mark Sullivan*
- 2.22: Principles of laparoscopic and robotic urological surgery, *Mark Sullivan, Nilay Patel, Inderbir Gill*

## **Section 3**

- 3.1: Anatomy, neurophysiology and pharmacological control mechanisms of the bladder, *Donna Daly, Christopher Chapple*

- 3.2: Urodynamics, *Hashim Hashim, Julie Ellis-Jones*
- 3.3: Urinary incontinence principles, *Christopher Chapple, Nadir Osman*
- 3.4: Assessment of urinary incontinence, *Marcus Drake*
- 3.5: Stress urinary incontinence, *Christopher Chapple, Altaf Mangera*
- 3.6: Pelvic organ prolapse, *Roland Morley, Eduardo Cortes, Mohammed Belal, Arun Sahai*
- 3.7: Urgency incontinence and OAB, *Christopher Chapple, Altaf Mangera*
- 3.8: Urinary fistula, *Christopher Chapple, Nadir Osman*
- 3.9: Urethral diverticula, *Christopher Chapple, Nadir Osman*
- 3.1: Faecal incontinence, *Christopher Chapple*
- 3.11: Urinary retention in women, *Clare Fowler, Jalesh Panicker*
- 3.12: Spinal cord injury, *Simon Harrison*
- 3.13: Non-traumatic neurourology, *Clare Fowler, Jalesh Panicker*

#### **Section 4**

- 4.1: Principles of reconstructive urology, *Anthony R. Mundy, Daniela E. Andrich*
- 4.2: Upper urinary tract reconstruction, *Anthony R. Mundy, Daniela E. Andrich*
- 4.3: Lower urinary tract reconstruction, *Anthony R. Mundy, Daniela E. Andrich*
- 4.4: Urethral strictures, *Anthony R. Mundy, Daniela E. Andrich*
- 4.5: Upper urinary tract trauma, *Anthony R. Mundy, Daniela E. Andrich*
- 4.6: Lower urinary tract trauma, *Anthony R. Mundy, Daniela E. Andrich*
- 4.7: Genital trauma, *Anthony R. Mundy, Daniela E. Andrich*
- 4.8: General principles of trauma, *Graham Sleat, David Noyes*

#### **Section 5**

- 5.1: Bladder outflow obstruction, *Christopher Chapple, Altaf Mangera*
- 5.2: Retention in men, *Mark Speakman*
- 5.3: Benign prostatic hyperplasia, *Nikesh Thiruchelvam*

#### **Section 6**

- 6.1: Epidemiology of prostate cancer, *Tim Key, Alison J. Price*
- 6.2: Molecular biology of prostate cancer, *Ines Teles Alves, Jan Trapman, Guido Jenster*
- 6.3: Prostate Cancer: Pathology, *Rodolfo Montironi, Liang Cheng, Antonio Lopez-Beltran, Roberta Mazzucchelli, Matteo Santoni*
- 6.4: Prostate-Specific Antigen and Biomarkers for Prostate Cancer, *Hans Lilja*
- 6.5: Screening for prostate cancer, *Fritz H. Schröder*
- 6.6: Clinical features, assessment and imaging of prostate cancer, *Anders Bjartell, David Ulmert*
- 6.7: Prostate cancer: treatment of localised disease, *Matthew Cooperberg, Peter Carroll*
- 6.8: Focal therapy for prostate cancer, *Hashim Uddin Ahmed, Louise Dickinson, Mark Emberton*
- 6.9: High risk prostate cancer, *S. Joniau, S. Van Bruwaene, J. Karnes, G. De Meerleer, P. Gontero, M. Spahn, A. Briganti*
- 6.1: Technology and prostatectomy, *Giacomo Novara, Alexander Mottrie, Filiberto Zattoni, Vincenzo Ficarra*
- 6.11: Metastatic disease in prostate cancer, *Noel W. Clarke*
- 6.12: Novel therapies and emerging strategies for the treatment of patients with castration-resistant prostate cancer (CRPC), *Deborah Mukherji, Johann De Bono, Aurelius Omlin, Carmel Pezaro*
- 6.13: Bladder and upper urinary tract cancer, *Mieke Goossens, Frank Buntin, Maurice P. Zeegers*
- 6.14: Molecular biology of bladder cancer, *Dan Theodorescu, Neveen Said*

- 6.15: Pathology of bladder and upper urinary tract tumours, *Arndt Hartmann, Simone Bertz*
- 6.16: Screening for bladder cancer, *Maurice P. Zeegers, Maree Brinkman*
- 6.17: General overview of bladder cancer, *Richard J. Bryant, James W. Catto*
- 6.18: The investigation of haematuria, *Richard J. Bryant, James W. Catto*
- 6.19: Low and intermediate risk non-muscle invasive bladder cancer, *Yair Lotan, Aditya Bagrodia*
- 6.2: Bladder cancer: high-grade non-muscle invasive disease, *Richard P. Meijer, B.W.G. van Rhijn, Alexandre R. Zlotta*
- 6.21: Muscle invasive bladder cancer (pT2-4), *George Thalmann, Pascal Zehnder*
- 6.22: Chemotherapy in the treatment of invasive and metastatic bladder cancer, *Cora N. Sternberg, Fabio Calabrò*
- 6.23: Squamous cell bladder cancer, *Max Burger, Roman Mayr*
- 6.24: Adenocarcinoma of the bladder, *Ofer Yossepowitch, Roy Mano*
- 6.25: Urothelial carcinomas of the upper urinary tract, *Morgan Roupert, Pierre Colin, Tarek P. Gonheim*
- 6.26: The aetiology, epidemiology, clinical features and investigation of kidney cancer, *David Cranston, Mark Sullivan, Nilay Patel*
- 6.27: Genetics and molecular biology of renal cancer, *Eamonn Maher, Mariam Jafri*
- 6.28: Pathology of renal cancer and other tumours affecting the kidney, *Antonio Lopez-Beltran, Rodolfo Montironi, Liang Cheng*
- 6.29: Treatment of localized renal cell cancer, *Michael Jewett, Ashraf Almatar*
- 6.3: Ablative technologies for renal cancer, *Jeffrey A. Cadeddu, Ephrem Olweny, Stephen Faddegon*
- 6.31: Kidney cancer: Treatment of locally advanced and low volume metastatic disease, *Tim O'Brien, Amit Patel*
- 6.32: Treatment of metastatic renal cancer, *Tim Eisen, Han Wong*
- 6.33: Testicular cancer, *Christian Winter, Peter Albers*
- 6.34: Pathology of testicular tumours, *John Goepel*
- 6.35: Testis cancer, *Axel Heidenreich*
- 6.36: Penile cancer, *Simon Horenblas, Rosa Djajadiningrat*
- 6.37: Adrenocortical cancer, *Steve Ball, Sajid Kalathil*
- 6.38: Treatment of adrenal tumours, *Saba Balasubramanian, A. Bagul*

## **Section 7**

- 7.1: Infertility: Assessment, *Gert R. Dohle*
- 7.2: Surgical treatment of male infertility, *Gert R. Dohle*
- 7.3: Sperm retrieval, *Oliver Kayes, Akwasi Amoako*
- 7.4: Vasectomy, *Yacov Reisman*
- 7.5: The management of fertility in spinal cord injury, *Mikkel Fode, Jens Sonksen*
- 7.6: Mechanism of penile erection, *Selim Cellek*
- 7.7: Pathophysiology and assessment, *Antonino Saccà, Andrea Salonia*
- 7.8: Medical therapy, *Hartmut Porst*
- 7.9: Surgical therapy, *Carlo Bettocchi, Marco Spilotros*
- 7.1: Ejaculatory disorders, *Chris G. McMahon*
- 7.11: Priapism, *Asif Muneer, David John Ralph*
- 7.12: The ageing male, *Geoff Hackett*
- 7.13: Peyronie s Disease, congenital curvature, and chordee: Epidemiology, pathophysiology, evaluation, and treatment, *Laurence A. Levine, William Brant, Stephen M. Larsen*
- 7.14: Male genital injury, *Giulio Garaffa, Salvatore Sansalone, David John Ralph*
- 7.15: Scrotal swelling, *Ates Kadioglu, Emre Salabas*
- 7.16: Penile reconstruction, *Giulio Garaffa, David John Ralph*

7.17: Penile augmentation, *Salvatore Sansalone, Giulio Garaffa, Ian Eardley, David John Ralph*

### **Section 8**

8.1: Prenatal diagnosis and perinatal urology, *David F.M. Thomas*

8.2: Urinary tract infection in children, *David F.M. Thomas*

8.3: Vesico ureteric reflux, *David F.M. Thomas*

8.4: Disorders of the kidney and upper urinary tract in children, *Kim Hutton*

8.5: Disorders of the urethra, *Kim Hutton, Ashok Daya Ram*

8.6: Neuropathic bladder and anorectal anomalies, *Henrik Steinbrecher*

8.7: Urinary incontinence and bladder dysfunction, *Henrik Steinbrecher*

8.8: Abnormalities of the bladder, *Peter Cuckow*

8.9: Hypospadias, *Peter Cuckow*

8.1: Disorders of the prepuce, *Kim Hutton, Ahmed A. Darwish*

8.11: Undescended testis and inguino-scrotal conditions in children, *David F.M. Thomas*

8.12: Disorders of sex development, *David F.M. Thomas*

8.13: Urological malignancies in children, *Roly Squire*

### **Section 9**

9.1: Renal function, *Chris A. O'Callaghan*

9.2: Acute kidney injury, *Edward Sharples, Wim van Biesen*

9.3: Chronic kidney disease and dialysis, *Richard J. Haynes, James A. Gilbert*

9.4: Obstructive uropathy, *Nilay Patel, John M. Henderson*

9.5: Kidney transplantation, *Jeff A. Lafranca, Dennis A. Hesselink, Frank J.M.F. Dor*

### **Section 10**

10.1: Ionising radiation and radiation protection, *Jeannette Kathrin Kraft, Peter Howells,*

10.2: Ultrasound, *Simon Freeman, Toby Wells*

10.3: CT, *Eugene Teoh, Michael Weston*

10.4: Magnetic resonance imaging in urology, *Uday Patel, Raj Das, Susan Heenan*

10.5: Interventional radiology, *Steven Kennish*

10.6: Radioisotopes in urology, *Sobhan Vinjamuri*