

## **Section 1 - Patients and their treatment**

- 1.1: *An older patient's story*, Timothy M. Cox
- 1.2: *A younger patient's experience of healthcare*
- 1.3: *The patient in control*, Rosamund Snow
- 1.4: *What do patients need?*, Des Spence
- 1.5: *Medical ethics*, Mike Parker, Suleman Mehrunisha
- 1.6: *Principles of clinical decision making*, Tim Peto, Philippa Peto

## **Section 2 - Background to medicine**

- 2.1: *Science in medicine: when, how, and what*, William F. Bynum
- 2.2: *Evolutionary medicine*, Nesse Randolph
- 2.3: *The global burden of disease*, Vos Theo, Alan Lopez, and Christopher Murray
- 2.4: *Large-scale randomized evidence: trials and meta-analyses of trials*, Colin Baigent, R. Collins, R. Peto, R. Gray, and S. Parish
- 2.5: *Bioinformatics*, Afzal Chaudhry
- 2.6: *Clinical Pharmacology*, Kevin O'Shaughnessy
- 2.7: *Biological Therapies in rheumatic diseases*, John Isaacs, Nishanthi Thalayasingam
- 2.8: *Traditional Medicine exemplified by Traditional Chinese Medicine*, Youyou Tu, Fulong Liao, and Jiang Tingliang
- 2.9: *Engaging patients in therapeutic development*, Emil Kakkis, Max Bronstein
- 2.10: *Medicine quality, physicians and patients*, Paul Newton
- 2.11: *Preventive medicine*, David Mant
- 2.12: *Medical screening*, Nick Wald
- 2.13: *Health promotion*, Evelyne de Leeuw
- 2.14: *Deprivation and health*, Harry Burns
- 2.15: *How much should rich country governments spend on healthcare?*, Allyson M. Pollock and David Price
- 2.16: *Financing healthcare in low- income developing countries: A challenge for equity in health*, Luis G. Sambo, Jorge Simões, and Maria do Rosario O. Martins
- 2.17: *Research in the developed world*, Jeremy Farrar
- 2.18: *Fostering medical and health research in resource-constrained countries*, Malegapuru (William) Makgoba, Steve Tollman
- 2.19: *Regulation versus innovation in medicine*, Michael Rawlins

2.20: *Human disasters*, Amartya Sen

2.21: *Humanitarian medicine*, Amy Kravitz

2.22: *Complementary and Alternative medicine*, Edzard Ernst

### **Section 3 - Cell biology**

3.1: *The cell*, George Banting, Paul Luzio

3.2: *The genomic basis of medicine*, James Lupski, Pawel Stankiewicz

3.3: *Cytokines*, Iain B. McInnes

3.4: *Ion channels and disease*, Francis M. Ashcroft, Paulo Tammaro

3.5: *Intracellular signalling*, Rodrigo Andres Floto

3.6: *Apoptosis in health and disease*, Mark Arends, Chris Gregory

3.7: *Stem cells and regenerative medicine*, Siddharthan Chandran, Alexis Joannides, and Ludovic Vallier

3.8: *The evolution of therapeutic antibodies*, Herman Waldmann, Gregory Winter

3.9: *Circulating DNA for molecular diagnostics*, Dennis Lo, Rossa Chiu

### **Section 4 - Immunological mechanisms**

4.1: *The innate immune system*, Paul Bowness

4.2: *The complement system*, Marina Botto, Matthew Pickering

4.3: *Adaptive immunity*, Paul Klenerman, Constantino Lopez

4.4: *Immunodeficiency*, Dinakantha Kumararatne, Sophie Hambleton, Sara Marshall

4.5: *Allergy*, Pamela Ewan

4.6: *Autoimmunity*, Antony Rosen

4.7: *Principles of transplantation immunology*, Kathryn J. Wood, Elizabeth Wallin

### **Section 5 - Principles of clinical oncology**

5.1: *Epidemiology of cancer*, Anthony Swerdlow, Richard Peto

5.2: *The nature and development of cancer: cancer mutations and their implications*, James Brenton

5.3: *The genetics of inherited cancers*, Rosalind Eeles

5.4: *Cancer immunity and immunotherapy*, Charles Drake

5.5: *Clinical features and management*, Martin Gore, Tim Eisen

5.6: *Systemic treatment and radiotherapy*, Rajesh Jena, Peter Harper

5.7: *Medical management of breast cancer*, Tim Crook

### **Section 6 - Old age medicine**

- 6.1: *Ageing and clinical medicine*, Neil Pendleton, Claire Steves
- 6.2: *Frailty and sarcopenia*, Andrew Clegg, Harnish Patel
- 6.3: *Optimising well being into old age*, Steve Iliffe
- 6.4: *Older people and acute medical illness*, Simon Controy, Jay Banerjee
- 6.5: *Age atuning general hospital services*, Graham Ellis, Alasdair MacLulich, and Rowan Harwood
- 6.6: *Supporting older peoples' care in other specialist services*, Jugdeep Dhesi, Judith Partridge, and Jacqueline Close
- 6.7: *Drugs and prescribing*, Miles Witham, Denis O'Mahony, and Jacob George
- 6.8: *Falls, Faints and Fragility Fractures*, Tash Masud, Fiona Kearney
- 6.9: *Bladder and bowels*, Susie Orme, Danielle Harari
- 6.10: *Neurodegenerative disorders in older people*, John Hindle
- 6.11: *Promotion of healthy living, dignity and quality of life*, Eileen Burns, Claire Scampion

### **Section 7 - Pain & Palliative Care**

- 7.1: *Introduction to palliative care*, Susan Salt
- 7.2: *Pain management*, Marie Fallon
- 7.3: *Management of other symptoms*, Regina McQuillan
- 7.4: *Care of the dying person*, Suzanne Kite, Adam Hurlow

### **Section 8 - Infectious diseases**

- 8.1.1: *Biology of pathogenic microorganisms*, Duncan Maskell, James Wood
- 8.1.2: *Clinical features and general management of patients with severe infections*, Duncan Young, Peter Watkinson
- 8.2.1: *Clinical approach to patient with suspected infection*, Christopher Ellis
- 8.2.2: *Fever of unknown origin*, Steven Vanderschueren
- 8.2.3: *Nosocomial infection*, Ian C.J.W. Bowler, Matthew Scarborough
- 8.2.4: *Infection in the immunocompromised host*, Jonathan Cohen, Elham Khatamzas
- 8.2.5: *Antimicrobial chemotherapy*, Alisdair P. MacGowan
- 8.3.1: *Immunization*, David Goldblatt, Mary Ramsay
- 8.4.1: *Travel & expedition medicine*, Chris P. Conlon, Susanna Dunachie
- 8.5.1: *Respiratory tract viruses*, Malik Peiris
- 8.5.2: *Herpesviruses (excluding Epstein Barr virus)*, Patrick Sissons

- 8.5.3: *Epstein-Barr virus*, Alan B. Rickinson
- 8.5.4: *Poxviruses*, Geoffrey L. Smith
- 8.5.5: *Mumps: epidemic parotitis*, B.K. Rima
- 8.5.6: *Measles*, H.C. Whittle, Peter Aaby
- 8.5.7: *Nipah and Hendra virus encephalitides*, C.T. Tan
- 8.5.8: *Enterovirus infections*, Phillip Minor, Ulrich Desselberger
- 8.5.9: *Virus infections causing diarrhoea and vomiting*, Philip Dormitzer, Ulrich Desselberger
- 8.5.10: *Rhabdoviruses: rabies and rabies-related lyssaviruses*, M.J. Warrell, David A. Warrell
- 8.5.11: *Colorado tick fever & other arthropod-borne reoviruses*, M.J. Warrell, David A. Warrell
- 8.5.12: *Alphaviruses*, Ann Powers
- 8.5.13: *Rubella*, Pat Tookey, Jennifer M. Best
- 8.5.14: *Flaviviruses (excepting Dengue)*, Nikos Vasilakis, Shannan Rossi
- 8.5.15: *Dengue*, Bridget A. Wills, Leo Yee-Sin
- 8.5.16: *Bunyaviridae*, James W. LeDuc, Dennis Bente
- 8.5.17: *Arenaviruses*, Jan ter Meulen
- 8.5.18: *Filoviruses*, Jan ter Meulen
- 8.5.19: *Papovaviruses and polyomaviruses*, Raphael P. Viscidi, Chen Sabrina Tan
- 8.5.20: *Parvovirus B19*, Kevin E. Brown
- 8.5.21: *Hepatitis viruses (excluding hepatitis C virus)*, Matthew Cramp, Ashwin Dhanda
- 8.5.22: *Hepatitis C virus*, Paul Klenerman, Jane Collier
- 8.5.23: *HIV and AIDS*, Sarah Fidler, Tim Peto, Philip Goulder, and Christopher Conlon
- 8.5.24: *HIV in low- and middle-income countries*, Kevin M. De Cock, Alison D. Grant
- 8.5.25: *HTLV-1, HTLV-2 and associated diseases*, K (Tine) Verdonck, Eduardo Gotuzzo
- 8.5.26: *Viruses and cancer*, Robin A. Weiss
- 8.5.27: *Orf and Milker's Nodule*, Emma Aarons, David Warrell
- 8.5.28: *Molluscum contagiosum*, David Warrell and Christopher Conlon
- 8.5.29: *Newly discovered viruses*, Harriet Hughes, Susanna Froude
- 8.6.1: *Diphtheria*, Delia B. Bethell, Tran Tinh Hien
- 8.6.2: *Streptococci and enterococci*, Dennis L. Stevens, Sarah E. Hobday

- 8.6.3: *Pneumococcal infections*, Anthony J. Scott
- 8.6.4: *Staphylococci*, Kyle Popovich, Robert Weinstein, and Bala Hota
- 8.6.5: *Meningococcal infections*, Petter Brandtzaeg
- 8.6.6: *Neisseria gonorrhoeae*, Magnus Unemo, Jackie Sherrard
- 8.6.7: *Enterobacteria and bacterial food-poisoning*, Pennington Hugh
- 8.6.8: *Pseudomonas aeruginosa*, Sharon Peacock, Gavin Koh
- 8.6.9: *Typhoid and paratyphoid fevers*, Chris Parry, Buddha Basnyat
- 8.6.10: *Intracellular klebsiella infections (donovanosis and rhinoscleroma)*, Nicole Stoesser
- 8.6.11: *Anaerobic bacteria*, Anilrudh A. Venugopal, David W. Hecht
- 8.6.12: *Cholera*, A.A.M. Lima, Dick Guerrant
- 8.6.13: *Haemophilus influenzae*, Esther Robinson
- 8.6.14: *Haemophilus ducreyi & chancroid*, Nigel O'Farrell
- 8.6.15: *Bordetella infection*, Cameron Grant
- 8.6.16: *Melioidosis & glanders*, Sharon Peacock,
- 8.6.17: *Plague: Yersinia pestis*, Michael B. Prentice
- 8.6.18: *Other Yersinia infections - yersiniosis*, Michael B. Prentice
- 8.6.19: *Pasteurella*, Marina S. Morgan
- 8.6.20: *Francisella tularensis infection*, Petra C.F. Oyston
- 8.6.21: *Anthrax*, A. Brown
- 8.6.22: *Brucellosis*, Juan D. Colmenero, Pilar Morata
- 8.6.23: *Tetanus*, Louisa Thwaites, Lam Minh Yen
- 8.6.24: *Clostridium difficile*, Mark Wilcox, David Eyre
- 8.6.25: *Botulism, gas gangrene, and clostridial gastrointestinal infections*, D.L. Stevens, Michael J. Aldape, and Amy E. Bryant
- 8.6.26: *Tuberculosis*, Richard E. Chaisson, Jean B. Nachega
- 8.6.27: *Disease caused by environmental mycobacteria*, Jakko van Ingen, P.D.O. Davies
- 8.6.28: *Leprosy (Hansen's disease)*, Diana N.J. Lockwood
- 8.6.29: *Buruli ulcer: Mycobacterium ulcerans infection*, W.M. Meyers, Françoise Portaels
- 8.6.30: *Actinomycosis*, Klaus P. Schaal
- 8.6.31: *Nocardiosis*, Roderick J. Hay

- 8.6.32: *Rat bite fevers (Streptobacillus moniliformis and Spirillum minus infection)*, Andrew Woodhouse
- 8.6.33: *Lyme borreliosis*, John Nowakowski
- 8.6.34: *Relapsing fevers*, David A. Warrell
- 8.6.35: *Leptospirosis*, Nick Day
- 8.6.36: *Nonvenereal endemic treponematoses: yaws, endemic syphilis (bejel), and pinta*, Michael Marks, David Mabey, and Oriol Mitjà
- 8.6.37: *Syphilis*, Basil Donovan, Phillip Read
- 8.6.38: *Listeriosis*, Herbert Hof
- 8.6.39: *Legionellosis and legionnaires' disease*, Jordi Carratala Fernandez, Diego Viasus
- 8.6.40: *Rickettsiosis*, Philippe Parola, Didier Raoult, and Karolina Griffiths
- 8.6.41: *Scrub typhus*, Daniel Paris, Nicholas P. J. Day
- 8.6.42: *Coxiella burnetti infections (Q fever)*, Thomas J. Marrie
- 8.6.43: *Bartonellosis, excluding B bacilliformis*, Bruno B. Chomel, Henri-Jean Boulouis, Matthew J. Stuckey, Jean-Marc Rolain
- 8.6.44: *Bartonella bacilliformis infection*, A. Llanos-Cuentas, Ciro Maguina-Vargas
- 8.6.45: *Chlamydial infections*, Patrick Horner, David Mabey, David Taylor-Robinson, Magnus Unemo
- 8.6.46: *Mycoplasmas*, Jorgen Jensen, David Taylor-Robinson
- 8.6.47: *A checklist of bacteria associated with infection in humans*, John Paul
- 8.7.1: *Fungal infections*, Roderick J. Hay
- 8.7.2: *Cryptococcosis*, William G. Powderly,
- 8.7.3: *Coccidioidomycosis*, Gregory M. Anstead, John R. Graybill
- 8.7.4: *Paracoccidioidomycosis*, M. A. Shikanai-Yasuda
- 8.7.5: *Pneumocystis jiroveci*, Robert F. Miller, Christopher Eades
- 8.7.6: *Taralomyces (Penicillium) marneffeii infection*, Khuanchai Supparatpinyo, Romanee Chaiwarith
- 8.7.7: *Microsporidiosis*, Louis Weiss
- 8.8.1: *Amoebic infections*, Richard Knight
- 8.8.2: *Malaria*, Arjen Dondorp
- 8.8.3: *Babesiosis*, Philippe Brasseur

- 8.8.4: *Toxoplasmosis*, Eskild Petersen, Oliver Liesenfeld
- 8.8.5: *Cryptosporidium and cryptosporidiosis*, Simone M. Cacciò
- 8.8.6: *Cyclospora and cyclosporiasis*, Paul Kelly
- 8.8.7: *Cystoisospora*, Louis Weiss
- 8.8.8: *Sarcocystosis (sarcosporidiosis)*, John Cooper
- 8.8.9: *Giardiasis and balantidiasis*, Lars Eckmann
- 8.8.10: *Blastocystis infection*, Richard Knight
- 8.8.11: *Human African trypanosomiasis*, Reto Brun, Johannes Blum
- 8.8.12: *Chagas disease*, Michael Miles
- 8.8.13: *Leishmaniasis*, Diana Lockwood
- 8.8.14: *Trichomoniasis*, Jane R. Schwebke
- 8.9.1: *Cutaneous filariasis*, G. M. Burnham
- 8.9.2: *Lymphatic filariasis*, Richard Knight
- 8.9.3: *Guinea worm disease (dracunculiasis)*, Richard Knight
- 8.9.4: *Strongyloidiasis, hookworm & other gut strongyloid nematodes*, Michael Brown
- 8.9.5: *Gut and tissue nematode infections acquired by ingestion*, Peter Chiodini, David Grove
- 8.9.6: *Angiostrongylus*, Richard Knight
- 8.10.1: *Cestodes (tapeworms)*, Richard Knight
- 8.10.2: *Cystic hydatid disease (Echinococcus granulosus)*, Pedro Moro, Hector H. Garcia, and Armando E. Gonzalez
- 8.10.3: *Cysticercosis*, Hector H. Garcia, R. H. Gilman
- 8.11.1: *Schistosomiasis*, David Dunne, Birgitte Vennervald
- 8.11.2: *Liver fluke infections*, Ross Andrews, Paiboon Sithithaworn, Trevor Petney, and Khuntikeo Narong
- 8.11.3: *Lung flukes (paragonimiasis)*, Udomsak Silachamroon, Sirivan Vanijanonta
- 8.11.4: *Intestinal trematode infections*, Alastair McGregor
- 8.12: *Non-venomous arthropods*, John Paul
- 8.13: *Pentostomiasis (porocephalosis, linguatulosis/ linguatuliasis or tongue worm infection)*, D. A. Warrell

## **Section 9 - Sexually transmitted diseases**

- 9.1: *Epidemiology of sexually transmitted diseases*, David Mabey, Anita Vas-Falcao

- 9.2:*Sexual behaviour*, Catherine H. Mercer, Annie M. Johnson
- 9.3:*Sexual history and examination*, Gary Brook, Jackie Sherrard, and Graziano Luzzi
- 9.4:*Vaginal discharge*, Paul Nyirjesy
- 9.5:*Urethritis*, Paddy Horner
- 9.6:*Ano-genital ulcers*, Raj Patel, Patrick French
- 9.7:*Ano-genital lumps*, Charles Lacey, Henry de Vries
- 9.8:*Pelvic inflammatory disease*, Jonathan Ross
- 9.9:*Principles of contraception*, Zara Haider

**Section 10 - Environmental medicine, occupational medicine, and poisoning**

- 10.1:*Introduction*, Jonathan Ayers
- 10.2.1:*Occupational and environmental health*, Raymond Agius, Sen Debasish
- 10.2.2:*Occupational safety*, Lawrence Waterman, Michelle Twigg
- 10.2.3:*Aviation medicine*, Michael Bagshaw
- 10.2.4:*Diving medicine*, Mark Glover
- 10.2.5:*Noise*, David Koh, Tar-Ching Aw
- 10.2.6:*Vibration*, Tar-Ching Aw
- 10.3.1:*Air pollution*, Om Kurmi, Kin Bong Hubert Lam
- 10.3.2:*Heat*, M.A. Stroud
- 10.3.3:*Cold*, M.A. Stroud
- 10.3.4:*Drowning*, Peter Fenner
- 10.3.5:*Lightning and electrical injuries*, Chris Andrews
- 10.3.6:*Diseases of high terrestrial altitudes*, Eric Swenson, Tyler J. Albert
- 10.3.7:*Radiation*, Jill Meara
- 10.3.8:*Disasters: earthquakes, volcanic eruptions, hurricanes & floods*, Peter J. Baxter
- 10.3.9:*Bioterrorism*, Manfred Green
- 10.4.1:*Poisoning by drugs and chemicals*, J.A. Vale, Nick Bateman, and Sally Bradberry
- 10.4.2:*Injuries, envenoming, poisoning, allergic reactions caused by animals*, D. A. Warrell
- 10.4.3:*Poisonous fungi*, D. A. Warrell, Hans Persson
- 10.4.4:*Poisonous plants*, Michael Eddleston, Hans Persson

**Section 11 - Nutrition**



11.1: *Macronutrient metabolism*, Keith N. Frayn, Rhys Evans

11.2: *Vitamins*, Tom Hill, David Bender

11.3: *Minerals and trace elements*, Katherine Younger

11.4: *Severe malnutrition*, Alan Jackson

11.5: *Diseases of affluent societies and the need for dietary change*, Jim Mann, Stewart Truswell

11.6: *Obesity*, Sadaf Farooqi

11.7: *Artificial nutrition support*, Jeremy Woodward

## **Section 12 - Metabolic disorders**

12.1: *The inborn errors of metabolism - general aspects*, Timothy M. Cox

12.2: *Protein-dependent Inborn errors of metabolism*, George Hoffman, Stefan Koelker

12.3.1: *Glycogen storage diseases*, Robin Lachmann, Timothy M. Cox

12.3.2: *Inborn errors of fructose metabolism*, Timothy M. Cox

12.3.3: *Disorders of galactose, pentose, and pyruvate metabolism*, Timothy M. Cox

12.4: *Disorders of purine and pyrimidine metabolism*, Lynette Fairbanks, Tony Marinaki, and Richard W. E. Watts

12.5: *The porphyrias*, Timothy M. Cox

12.6: *Lipid and lipoprotein disorders*, James Scott, Jaimini Cegla

12.7.1: *Hereditary haemochromatosis*, William J. H. Griffiths, Timothy M. Cox

12.7.2: *Inherited diseases of copper metabolism: Wilson's Disease and Menke's Disease*, Pramod Mistry, Michael Schilsky

12.8: *Lysosomal disease*, Patrick B. Deegan, Timothy M. Cox

12.9: *Disorders of peroxisomal metabolism in adults*, Anthony Wierzbicki

12.10: *Hereditary disorders of oxalate metabolism the primary hyperoxalurias*, Christopher Danpure, Sonia Fargue, and Dawn Milliner

12.11: *Disturbances of acid base homeostasis*, Julian Seifter

12.12.1: *The acute phase response and C-reactive protein*, Mark Pepys

12.12.2: *Hereditary periodic fever syndrome*, Helen Lachmann, Philip Hawkins, and Stefan Berg

12.12.3: *Amyloidosis*, Mark Pepys, Philip Hawkins

12.13: *Alpha-1 antitrypsin deficiency and the serpinopathies*, David A. Lomas

### **Section 13 - Endocrine disorders**

*13.1: Principles of hormone action*, V. Krishna Chatterjee, Mark Gurnell, and Rob Fowkes

*13.2.1: Disorders of the anterior pituitary gland*, John Wass, Niki Karavitaki

*13.2.2: Disorders of the posterior pituitary gland*, John Wass, Niki Karavitaki, and Shahzada K. Ahmed

*13.3.1: The thyroid gland and disorders of thyroid function*, Anthony P. Weetman, Kristien Boelaert

*13.3.2: Thyroid cancer*, Kristien Boelaert, Anthony P. Weetman

*13.4: Parathyroid disorders & diseases altering calcium metabolism*, Rajesh V. Thakker

*13.5.1: Disorders of the adrenal cortex*, Mark Sherlock, Will Drake, and Mark Gurnell

*13.5.2: Congenital adrenal hyperplasia*, Nils Krone

*13.6.1: Ovarian disorders*, Stephen Franks

*13.6.2: Disorders of male reproduction*, Pierre Bouloux

*13.6.3: Benign breast disease*, Gael M. MacLean

*13.6.4: Sexual dysfunction*, Ian Eardley

*13.7.1: Normal growth and its disorders*, Gary Butler

*13.7.2: Normal puberty and its disorders*, Fiona Ryan, Sejal Patel

*13.7.3: Normal and abnormal sexual differentiation*, Ahmed Faisal, Angela Lucas-Herald

*13.8: Pancreatic endocrine disorders & MEN*, Stephen Bloom, Tricia Tan, and Bernard Khoo

*13.9.1: Diabetes mellitus*, Colin Dayan, Julia Platts

*13.9.2: Hypoglycaemia*, Mark Evans, Ben Challis

*13.10: Hormonal manifestations of non-endocrine disorders*, John Wass, Tom Barber

*13.11: The pineal gland and melatonin*, Jo Arendt, Tim Cox

### **Section 14 - Medical disorders in pregnancy**

*14.1: Physiological changes of normal pregnancy*, David J. Williams

*14.2: Nutrition in pregnancy*, David J. Williams

*14.3: Medical management of normal pregnancy*, David J. Williams

*14.4: Hypertension in pregnancy*, Fergus McCarthy

*14.5: Renal disease in pregnancy*, Kate Wiles

- 14.6: *Heart disease in pregnancy*, Catherine E. Head
- 14.7: *Thrombosis in pregnancy*, Peter McCallum, Louise Bowles
- 14.8: *Chest disease in pregnancy*, Tina Hartert, Meredith Pugh
- 14.9: *Liver and gastrointestinal disease during pregnancy*, Cath Williamson, Michael Heneghan
- 14.10: *Diabetes in pregnancy*, Bryony Jones, Anne Dornhurst
- 14.11: *Endocrine disease in pregnancy*, David Carty
- 14.12: *Neurological conditions in pregnancy*, Pooja Dissan
- 14.13: *The skin in pregnancy*, Gudula Kirtschig, Fenella Wojnarowska
- 14.14: *Autoimmune rheumatic disorders & vasculitis in pregnancy*, Cathy Nelson-Piercy, May Ching Soh
- 14.15: *Maternal infection in pregnancy*, Rosie Burton
- 14.16: *Fetal effects of maternal infection*, Lawrence Impey
- 14.17: *Blood disorders in pregnancy*, David Perry, Katharine Lowndes
- 14.18: *Malignant disease in pregnancy*, Robin A. F. Crawford
- 14.19: *Maternal critical care*, Rupert Gauntlett
- 14.20: *Prescribing in pregnancy*, Lucy MacKillop, Charlotte Frise
- 14.21: *Contraception for women with medical diseases*, Aarthi Mohan

### **Section 15 - Gastroenterological disorders**

- 15.1: *Structure and function of the gastrointestinal tract*, Satish Keshav, Michael FitzPatrick
- 15.2: *Symptoms of gastrointestinal disease*, Jeremy Woodward
- 15.3.1: *Colonoscopy and flexible sigmoidoscopy*, James East, Brian P. Saunders
- 15.3.2: *Upper gastrointestinal endoscopy*, James East, George Webster
- 15.3.3: *Radiology of the gastrointestinal tract*, Michael Maher, Fiona Moloney
- 15.3.4: *Investigation of gastrointestinal function*, Jervoise Andreyev
- 15.4.1: *The acute abdomen*, Justin Davies, Simon Buczacki
- 15.4.2: *Gastrointestinal Bleeding*, Vanessa Brown, TA Rockall
- 15.5: *Immune disorders of the gastrointestinal tract*, Arthur Kaser, Joya Bhattacharyya
- 15.6: *The mouth and salivary glands*, John Gibson, Douglas Robertson
- 15.7: *Diseases of the oesophagus*, Rebecca C. Fitzgerald, Massimiliano di Pietro
- 15.8: *Peptic ulcer disease*, Joseph Sung, Mok Hing Yiu

15.9.1: *Hormones and the gastrointestinal tract*, Rebecca Scott, T.M. Tan, S.R. Bloom

15.9.2: *Carcinoid syndrome*, B. Khoo, T.M. Tan, S.R. Bloom

15.10.1: *Differential diagnosis and investigation of malabsorption*, Alastair Forbes, Victoria Mulcahy

15.10.2: *Bacterial overgrowth of the small intestine*, Ray Playford, Stephen Middleton

15.10.3: *Coeliac disease*, David Sanders, Peter Mooney

15.10.4: *Gastrointestinal lymphomas*, Kikkeri N. Naresh

15.10.5: *Disaccharidase Deficiency*, Timothy M. Cox

15.10.6: *Whipple's Disease*, Didier Raoult, Florence Fenollar

15.10.7: *Effects of massive bowel resection*, Stephen Middleton, Simon Gabe, Raymond Playford

15.10.8: *Malabsorption syndromes in the Tropics*, Vineet Ahuja, Govind Makharia

15.11: *Crohn's disease*, Miles Parkes, Tim Raine

15.12: *Ulcerative colitis*, Peter Irving, Jeremy Sanderson

15.13: *Irritable bowel syndrome*, Qasim Aziz, Adam Farmer

15.14: *Colonic diverticular disease*, Niel Mortensen, Nicholas Buchs, Roel Hompes, Shazad Ashraf

15.15: *Congenital abnormalities of the gastrointestinal tract*, Uhlig Holm

15.16: *Cancers of the gastrointestinal tract*, J. Bridgewater, Stephen Pereira, Peter Labib,

15.17: *Vascular disorders of the GI tract*, Ray Boyapati

15.18: *Gastrointestinal infections*, Sarah O'Brien

15.19: *Miscellaneous disorders of the bowel*, Alexander E. S. Gimson

15.20: *Structure and function of the liver, biliary tree and pancreas*, Alexander E. S. Gimson, William Gelson

15.21: *Pathobiology of chronic liver disease*, Wajahat Mehal

15.22.1: *Investigation and management of jaundice*, Jane Collier

15.22.2: *Cirrhosis and ascites*, Arroyo Vicente, Javier Fernández

15.22.3: *Portal hypertension and variceal bleeding*, Peter Hayes, Marcus Robertson

15.22.4: *Hepatic encephalopathy*, Debbie Shawcross, Paul Middleton

15.22.5: *Liver failure*, Rajiv Jalan, Jane Macnaughtan

15.22.6: *Liver transplantation*, John O'Grady

- 15.23.1:*Hepatitis A to E*, Alexander Graeme, Kate Nash
- 15.23.2:*Autoimmune hepatitis*, Gideon Hirschfield, G. J. Webb
- 15.23.3:*Primary biliary cholangitis*, David Jones, Jessica Dyson
- 15.23.4:*Primary sclerosing cholangitis*, Roger W. Chapman, Kate Williamson
- 15.24.1:*Alcoholic liver disease*, Ewan Forrest
- 15.24.2:*Non-alcoholic fatty liver disease*, Quentin Anstee, Chris Day
- 15.24.3:*Drug-induced liver disease*, Guruprasad Aithal
- 15.24.4:*Vascular disorders of the liver*, Alexander Gimson
- 15.24.5:*The liver in systemic disease*, James Neuberger
- 15.24.6:*Primary and secondary liver tumours*, Michael Allison, Graeme Alexander, David Lomas
- 15.24.7:*Liver and biliary diseases in infancy and childhood*, Richard Thompson
- 15.25:*Diseases of the gallbladder and biliary tree*, Colin Johnson, Mark Wright
- 15.26.1:*Acute pancreatitis*, Ross Carter, Colin McKay, Euan Dickson
- 15.26.2:*Chronic pancreatitis*, Marco Bruno, Djuna Cahen
- 15.26.3:*Tumours of the pancreas*, Steve Pereira, James Skipworth

## **Section 16 - Cardiovascular disorders**

- 16.1.1:*Blood vessels and the endothelium*, Keith Channon, Patrick Vallance
- 16.1.2:*Cardiac physiology*, Rhys Evans, Kenneth MacLeod, Steven B. Marston, and Nicholas J. Severs
- 16.2.1:*Chest pain, breathlessness and fatigue*, Jeremy Dwight
- 16.2.2:*Syncope and palpitation*, Kim Rajappan, A. C. Rankin, A. D. McGavigan, and S. M. Cobbe
- 16.3.1:*Electrocardiography*, Andrew R. Houghton, David Gray
- 16.3.2:*Echocardiography*, Adrian P. Banning, Andrew R. J. Mitchell, and James D. Newton
- 16.3.3:*Cardiac investigations: nuclear, MRI and CT*, Nikant Sabharwal, Andrew Kelion, Theo Karamitos, and Stefan Neubauer
- 16.3.4:*Cardiac catheterisation and angiography*, Edward D. Folland
- 16.4:*Cardiac arrhythmias*, Matthew Ginks, Gregory Y. H. Lip, D. Lane, S. M. Cobbe, A. D. McGavigan, and A. C. Rankin
- 16.5.1:*Epidemiology and general pathophysiological classification of heart*

*failure*, Theresa McDonagh, Kaushik Guha

16.5.2:*Acute heart failure: definitions, investigation and management*, Andrew L. Clark, John G. F. Cleland

16.5.3:*Chronic heart failure: definitions, investigation and management*, John G. F. Cleland, Andrew L. Clark

16.5.4:*Cardiorenal syndrome*, Darren Green, Philip Kalra

16.5.5:*Cardiac transplantation and mechanical circulatory support*, Jayan Parameshwar, Steven Tsui

16.6:*Valvular heart disease*, Michael Henein

16.7.1:*Myocarditis*, Jay W. Mason

16.7.2:*The cardiomyopathies: hypertrophic, dilated, restrictive and right ventricular*, William J. McKenna, Perry Elliot, and Oliver Guttman

16.7.3:*Special heart muscle disorders*

16.8:*Pericardial disease*, Michael Henein

16.9.1:*Acute rheumatic fever*, Jonathan R. Carapetis

16.9.2:*Endocarditis*, James L. Harrison, Bernard D. Prendergast, and William A. Littler

16.9.3:*Cardiac disease in HIV infection*, Peter F. Currie

16.9.4:*Cardiovascular syphilis*, Krishna Somers

16.10:*Tumours of the heart*, Thomas A. Traill

16.11:*Cardiac involvement in genetic disease*, Thomas A. Traill

16.12:*Congenital heart disease in the adult*, S. A. Thorne

16.13.1:*Biology & pathology of atherosclerosis*, Robin P. Choudhury, Edward A. Fisher

16.13.2:*Coronary heart disease: epidemiology and prevention*, Goodarz Danaei, Kazem Rahimi

16.13.3:*Management of stable angina*, Adam D. Timmis

16.13.4:*Management of acute coronary syndromes*, Keith A. A. Fox, Rajesh K. Kharbanda

16.13.5:*Percutaneous interventional cardiac procedures*, Edward D. Folland

16.13.6:*Coronary artery bypass and valve surgery*, Rana Sayeed, David Taggart

16.14.1:*Acute aortic syndromes*, Andrew R. J. Mitchell, James D. Newton, and Adrian P. Banning

16.14.2:*Peripheral arterial disease*, Janet Powell, Alun Davies

- 16.14.3: *Cholesterol embolism*, Christopher Dudley
- 16.15.1: *Structure and function of the pulmonary circulation*, Nicholas W. Morrell
- 16.15.2: *Pulmonary hypertension*, Nicholas W. Morrell
- 16.16.1: *Deep venous thrombosis and pulmonary embolism*, Paul D. Stein, Fadi Matta, and John D. Firth
- 16.16.2: *Therapeutic anticoagulation*, David Keeling
- 16.17.1: *Essential hypertension: definition, epidemiology and pathophysiology*, Bryan Williams
- 16.17.2: *Essential hypertension: diagnosis, assessment and treatment*, Bryan Williams, John D. Firth
- 16.17.3: *Secondary hypertension*, Morris J. Brown, Fraz Mir
- 16.17.4: *Mendelian disorders causing hypertension*, Nilesh J. Samani, Maciej Tomaszewski
- 16.17.5: *Hypertensive urgencies and emergencies*, Gregory Y. H. Lip, Gareth Beevers
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- 17.2: *Cardiac arrest*, Gavin Perkins, Jasmeet Soar, Jerry P. Nolan, and David A. Gabbott,
- 17.3: *Anaphylaxis*, Anthony F. T. Brown
- 17.4: *Preparing patients with medical conditions for major surgery*, Rupert Pearse, Tom Abbott
- 17.5: *Acute respiratory failure*, Mark Griffiths, Simon Finney, Jeremy Cordingley, and Susannah Leaver,
- 17.6: *The circulation and circulatory support in the critically ill*, Michael Pinsky
- 17.7: *Management of raised intracranial pressure*, David K. Menon
- 17.8: *Sedation and analgesia in the ICU*, Michael Reade
- 17.9: *Metabolic and endocrine changes in acute and chronic critical illness*, Greet Van den Berghe, Eva Boonen
- 17.10: *Palliative and end of life care in the ICU*, Philip Levin, Charles Sprung
- 17.11: *Neurological death and organ donation*, Paul Murphy

17.12: *Medical problems in ICU survivors*, T Jack Iwashyna, Mark Mikkelsen

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18.1.2: *Airways and alveoli*, Pallav Shah

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18.3.1: *Respiratory function tests*, G. J. Gibson

18.3.2: *Thoracic imaging*, Sue Copley

18.3.3: *Bronchoscopy, thoracoscopy and tissue biopsy*, Pallav Shah

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18.4.2: *Pneumonia in the normal host*, Wei Shen Lim

18.4.3: *Nosocomial pneumonia*, Wei Shen Lim

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18.4.5: *Pulmonary complications of HIV infection*, Anton Pozniak, Julia Choy,

18.5.1: *Upper airway obstruction*, Matthew Hind, James Hull

18.5.2: *Sleep-related breathing disorders*, Mary Morrell, Matthew Hind, Julia Kelly,  
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18.7: *Asthma*, Andrew Menzies-Gow, Alexandra Nanzer-Kelly

18.8: *Chronic obstructive pulmonary disease*, Nicholas Hopkinson

18.9: *Bronchiectasis*, Wilson Robert

18.10: *Cystic fibrosis*, Andrew Bush, Caroline Elston

18.11.1: *Diffuse parenchymal lung disease: an introduction*, Athol U. Wells, Felicia Teo

18.11.2: *Idiopathic pulmonary fibrosis*, Athol U. Wells, P. Molyneaux, and A. G.

Nicholson

18.11.3: *Bronchiolitis obliterans and cryptogenic organising pneumonia*, Athol U.  
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18.11.4: *The lung in autoimmune rheumatic disorders*, Athol U. Wells, M. Kokosi

18.11.5: *The lung in vasculitis*, Athol U. Wells, G. P. Margaritopoulos

18.12: *Sarcoidosis*, Robert P. Baughman, Elyse E. Lower

18.13: *Pneumoconioses*, Peter Reid

18.14.1: *Diffuse alveolar haemorrhage*, Stephen Bourke, Gavin P. Spickett

18.14.2: *Eosinophilic pneumonia*, Stephen Bourke, Gavin P. Spickett



- 18.14.3:*Lymphocytic infiltrations of the lung*, Stephen Bourke
- 18.14.4:*Hypersensitivity pneumonitis*, Stephen Bourke, Gavin P. Spickett
- 18.14.5:*Pulmonary Langerhans cell histiocytosis*, Stephen Bourke
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- 18.16:*Lung transplantation*, Andrew Fisher, Peter Hopkins
- 18.17:*Pleural disease*, Nicholas Maskell, Duneesha de Fonseka
- 18.18:*Disorders of the thoracic cage and diaphragm*, Michael Polkey, John Shneerson
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- 18.19.2:*Pulmonary metastases*, Stephen G. Spiro
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- 19.1:*Structure and function - Joints and connective tissue*, Thomas Pap
- 19.2:*Clinical presentation and diagnosis of rheumatological disorders*, Christopher Deighton, Fiona Pearce
- 19.3:*Clinical investigation*, Michael Doherty, Peter C. Lanyon
- 19.4:*Back pain and regional disorders*, Carlo Ammendolia
- 19.5:*Rheumatoid arthritis*, John Isaacs, Kenneth Baker
- 19.6:*Spondyloarthritis and related conditions*, J. Braun, Joachim Sieper
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- 19.10:*Crystal-related arthropathies*, Michael Doherty, Edward Roddy
- 19.11.1:*Introduction*, David A. Isenberg, Ian A. Giles

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19.11.3:*Systemic sclerosis*, Christopher Denton

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19.11.5:*Myositis*, Ingrid Lundberg, Hector Chinoy, and Robert Cooper

19.11.6:*Large vessel vasculitis (Takayasu, GCA)*, Raashid Luqmani, Cristina Ponte

19.11.7:*ANCA associated vasculitis*, David Jayne

19.11.8:*Polyarteritis nodosa*, Loic Guillevin,

19.11.9:*Small vessel vasculitis*, Richard Watts

19.11.10:*Behcet's syndrome*, Hassan Yazici, Sebahattin Yurdakul, and Izznet Fresko

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20.2:*Inherited defects of connective tissue: Ehlers-Danlos syndrome, Marfan's syndrome, and pseudoxanthoma elasticum*, Nigel Burrows

20.3:*Osteomyelitis*, Martin McNally

20.4:*Osteoporosis*, Nick Harvey, Cyrus Cooper, and Juliet Compston

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21.2.1:*Disorders of water and sodium homeostasis*, Michael L. Moritz, Juan Carlos Ayus

21.2.2:*Disorders of potassium homeostasis*, John Firth

21.3:*Clinical presentation of renal disease*, John Firth

21.4:*Clinical investigation of renal disorders*, Andrew Davenport

21.5:*Acute kidney injury*, John Firth

21.6:*Chronic kidney disease*, Alastair Hutchinson

21.7.1:*Haemodialysis*, Robert Mactier

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21.7.3:*Renal transplantation*, Nick Torpey

21.8.1:*Immunoglobulin A nephropathy and Henoch Schönlein purpura*, John Feehally, Jonathan Barratt

21.8.2:*Thin membrane nephropathy*, John Feehally, Peter Topham

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21.9.1:*Acute tubulointerstitial nephritis*, Simon D. Roger

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21.10.1:*Diabetes mellitus and the kidney*, Rudy B. Bilous

21.10.2:*The kidney in systemic vasculitis*, David Jayne

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21.10.5:*Renal involvement in plasma cell dyscrasias, immunoglobulin-based amyloidoses, and fibrillary glomerulopathies, lymphomas, and leukaemias*, Franck Bridoux, Pierre Ronco, and Arnaud Jaccard

21.10.6:*Haemolytic uraemic syndrome*, David Kavanagh, Edwin Wong

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21.11:*Renal disease in the tropics*, Vivekenand Jha

21.12:*Renal involvement in genetic disease*, Dominique Joly, J. P. Grunfeld

21.13:*Urinary tract infection*, Charlie Tomson, Neil Sheerin

21.14:*Disorders of renal calcium handling, urinary stones, and nephrocalcinosis*, F. L.

Coe, Christopher Pugh, Elaine M. Worcester, and Andrew P. Evan

21.15:*The renal tubular acidoses*, John Sayer, Fiona E. Karet

21.16:*Disorders of tubular electrolyte handling*, Nine Knoers, Elena Levtchenko

21.17:*Urinary tract obstruction*, Muhammad Magdi Yaqoob, Kieran McCafferty

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21.19:*Drugs and the kidney*, Aine Burns, Caroline Ashley

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22.2.1:*Cellular and molecular basis of haematopoiesis*, Paresh Vyas

22.2.2:*Diagnostic techniques in the assessment of haematological malignancies*, Wendy Erber

22.3.1:*Granulocytes: function and dysfunction*, Nancy Berliner

22.3.2:*Myelodysplastic syndromes*, David Steensma, Charlotte Brierley

22.3.3:*Acute myeloid leukaemia*, Alan Burnett, Nigel Russell

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22.3.5:*The polycythaemias*, Ronald Hoffman, Daniel Aruch

22.3.6:*Thrombocytosis*, Ronald Hoffman, Daniel Aruch

22.3.7:*Primary myelofibrosis*, Jerry L. Spivak, Evan M. Braunstein

22.3.8:*Eosinophilia*, Peter F. Weller

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22.4.1:*Introduction to lymphopoiesis*, Nancy Berliner

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22.4.6:*Plasma cell myeloma and related monoclonal gammopathies*, Vincent Rajkumar, Vijaya Raj Kyle

22.5.1:*Inherited bone marrow failure syndromes*, Irene Roberts, Vijaya Raj Dokal

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- 22.6.1: *Introduction to erythropoiesis*, V. G. Sankaran
- 22.6.2: *Principles and classification of anaemia*, Chris Hatton, David Weatherall
- 22.6.3: *Anaemia as a challenge to world health*, David Roberts, David Weatherall
- 22.6.4: *Iron metabolism and its disorders*, J. Porter, Timothy Cox
- 22.6.5: *The anaemia of inflammation and chronic disease*, Sant-Rayn Pasricha, Hal Drakesmith
- 22.6.6: *Megaloblastic anaemia*, AV Hoffbrand,
- 22.6.7: *Disorders of globin structure and function*, D. J. Weatherall, D Hay
- 22.6.8: *Defective red cell maturation*, Stephen Fuller, James Wiley
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- 22.6.11: *G6PD deficiency*, Lucio Luzzatto
- 22.6.12: *Acquired haemolytic anaemias*, Leslie Silberstein, AA Powers
- 22.7.1: *Biology of haemostasis and thrombosis*, Gilbert C White, Harold Roberts, Nigel Key
- 22.7.2: *Evaluation of the patient with a bleeding tendency*, Trevor Baglin
- 22.7.3: *Thrombocytopenia and disorders of platelet function*, Nicola Curry, Susie Shapiro
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- 23.3: *Inherited skin disease*, David Kelsell, Thiviyani Maruthappu
- 23.4: *Autoimmune bullous diseases*, Kathy Taghipour, Fenella Wojnarowska
- 23.5: *Papulosquamous disease*, Chris Griffiths
- 23.6: *Dermatitis/eczema*, Roderick J. Hay
- 23.7: *Cutaneous vasculitis, connective tissue diseases, and urticaria*, Karen Harman, Wolha Shpadaruk
- 23.8: *Disorders of pigmentation*, Eugene Healy

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- 24.4.2: *Alzheimer's disease and other dementias*, Jonathan Schott
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- 24.5.6: *Brain death and prolonged disorders of consciousness*, Peter Hutchinson, John Pickard, and Ari Ercole
- 24.6.1: *Disorders of the visual pathways*, Christopher Kennard, Sara Ajina
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24.10.1:*Stroke: cerebrovascular disease*, Peter Rothwell

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24.12:*Disorders of cranial nerves*, Robert D. M. Hadden

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24.15:*The motor neuron diseases*, Pamela Shaw, Thomas Jenkins, and Alice Brockington

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24.17:*Inherited neurodegenerative diseases*, Swati Sathe

24.18:*Disorders of the neuromuscular junction*, David Hilton-Jones

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24.23: *Paraneoplastic neurological syndromes*, Jeremy Rees

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