

CONTENTS

I INTRODUCTION

- | | | |
|----|---|----------|
| 1. | Practice of Medicine
<i>Siddharth N. Shah</i> | 1 |
| 2. | Medical Ethics
<i>Sunil K. Pandya</i> | 4 |

II INFECTION

- | | | |
|----|--|-----------|
| 1 | Basic Considerations of Infections
<i>Rajeev Soman</i> | 7 |
| 2 | Laboratory Diagnosis of Infections
<i>Camilla Rodrigues</i> | 8 |
| 3 | Antimicrobial Therapy
<i>K. Ramamoorthy</i> | 10 |
| 4 | Septicaemia
<i>K. Ramamoorthy, Sanjay Wagle</i> | 20 |
| 5 | Pyrexia of Unknown Origin
<i>M. Maiya</i> | 21 |
| 6 | Infections in the Immunocompromised Host
<i>V. R. Joshi</i> | 23 |
| 7 | Nosocomial Infections
<i>M. E. Yeolekar</i> | 25 |
| 8 | Syndromic Approach to Infectious Diseases including Sexually Transmitted Diseases
<i>Rajeev Soman</i> | 28 |
| 9 | Staphylococcal Infections
<i>D. Rama Rao</i> | 31 |
| 10 | Streptococcal Infections
<i>B. S. Chaubey</i> | 32 |
| 11 | Pneumococcal Infections
<i>Praveen K. Jain</i> | 34 |
| 12 | Meningococcal Infections
<i>Arun B. Shah</i> | 35 |
| 13 | Gonococcal Infections
<i>Milind Y. Nadkar</i> | 36 |
| 14 | Diphtheria
<i>R. P. Khubchandani</i> | 37 |
| 15 | Clostridial Infections
<i>F. D. Dastur</i> | 39 |
| 16 | <i>Haemophilus influenzae</i> Infections
<i>M. Sabir</i> | 43 |
| 17 | Legionella
<i>Zarir F. Udawadia</i> | 44 |
| 18 | Pertussis (Whooping Cough)
<i>Y. K. Amdekar</i> | 45 |
| 19 | Gram Negative Enteric Bacilli, <i>Pseudomonas</i>, <i>Campylobacter</i> Infections
<i>Rajeev Soman</i> | 46 |
| 20 | Enteric Fever
<i>B. B. Thakur</i> | 49 |

- | | | |
|----|--|-----------|
| 21 | Bacillary Dysentery
<i>M. A. Kabeer</i> | 54 |
| 22 | Cholera
<i>A. R. Chogle</i> | 55 |
| 23 | Helicobacter Pylori Infection
<i>Sucharita A. Nanivadekar</i> | 56 |
| 24 | Plague and Other Yersinia Infections
<i>Sandhya A. Kamath</i> | 58 |
| 25 | Melioidosis
<i>Sandhya A. Kamath</i> | 59 |
| 26 | Bartonellosis and Bacillary Angiomatosis
<i>R. B. Phatak</i> | 60 |
| 27 | Brucellosis
<i>H. B. Rajashekhar</i> | 60 |
| 28 | Donovanosis (Granuloma Inguinale)
<i>Milind Y. Nadkar</i> | 61 |
| 29 | Actinomycosis and Nocardiosis
<i>V. R. Mehta</i> | 62 |
| 30 | Anaerobic Infections
<i>Ajita P. Mehta</i> | 63 |
| 31 | Atypical Mycobacteria
<i>K. C. Mohanty</i> | 64 |
| 32 | Mycobacterium Leprae Infection
<i>Chetan Oberai</i> | 65 |
| 33 | Syphilis
<i>Rui J. Fernandes</i> | 68 |
| 34 | Non-Syphilitic Treponematoses
<i>V. B. Saxena</i> | 71 |
| 35 | Leptospirosis
<i>Dilip R. Karnad</i> | 73 |
| 36 | Other Spirochaetal Infections: Rat Bite Fever and Lyme Disease
<i>N. K. Hase</i> | 74 |
| 37 | Rickettsial Infections
<i>D. K. Mitra</i> | 76 |
| 38 | Chlamydial Infections
<i>Dilip Mathai</i> | 78 |
| 39 | Mycoplasma Infections
<i>Dilip Mathai</i> | 79 |
| 40 | Basic Considerations of Viral Diseases
<i>T. Jacob John</i> | 80 |
| 41 | Common Viral Respiratory Infections
<i>Anuradha A. Shah</i> | 81 |
| 42 | Respiratory Syncytial Viral Infections
<i>R. B. Phatak</i> | 83 |
| 43 | Herpes Virus Infections
<i>Tushar P. Medhekar</i> | 83 |
| 44 | Human Papilloma Virus and Parvovirus Infections
<i>Pushpa D. Gupte</i> | 85 |

45	Smallpox <i>S. M. Sapatnekar</i>	87	2	Pathophysiology of HIV Infection <i>Sanjay Pujari</i>	149
46	Measles <i>Swati Y. Bhawe</i>	88	3	Virology of Human Immunodeficiency Virus <i>D. A. Gadkari</i>	151
47	Mumps <i>Veena Kalra</i>	90	4	Clinical Approach to a Patient with HIV Infection <i>J. S. Sorabjee</i>	152
48	Enteroviruses and Poliomyelitis <i>Madhuri Kulkarni</i>	91	5	Laboratory Diagnosis of HIV Infection/AIDS <i>Atul K. Patel</i>	154
49	Viral Gastroenteritis <i>Meenakshi N. Mehta</i>	95	6	Opportunistic Infections in AIDS <i>M. E. Yeolekar</i>	156
50	Rabies <i>J. K. Dutta</i>	95	7	Antiretroviral Therapy <i>Alaka Deshpande</i>	158
51	Marburg and Ebola Virus Diseases <i>S. Chandrasekharan</i>	98	8	Future Directions in HIV Infection and AIDS <i>P. L. Joshi</i>	159
52	Dengue, Japanese Encephalitis and Other Arbovirus Infections <i>M. E. Yeolekar</i>	99	<hr/>		
53	Lymphocytic Choriomeningitis and Other Arena Virus Infections <i>Vasant V. Jayakar</i>	102	IV GENETICS		
54	Malaria <i>Dilip R. Karnad</i>	104	1	Basic Considerations of Genetics <i>K. G. Nair</i>	161
55	Amoebiasis <i>P. C. Bhattacharya</i>	108	2	The Human Genome : Mapping and Applications <i>K. S. Varadhachary</i>	164
56	Giardiasis <i>Avi Hakim</i>	109	3	Clinical Genetics <i>Mrudula Phadke</i>	168
57	Cryptosporidiosis and Other Protozoal Infections <i>P. C. Bhattacharya</i>	110	4	Gene Therapy <i>Rita Mulherkar</i>	174
58	Leishmaniasis <i>C. P. Thakur</i>	111	5	Genetic Basis of Cancer and Oncogenes <i>S. H. Advani</i>	175
59	Trypanosomiasis <i>C. P. Thakur</i>	114	6	Genetic Testing and Counselling <i>N. B. Kumta, K. S. Varadhachary</i>	177
60	Pneumocystis Carinii and Toxoplasmosis <i>J. S. Sorabjee</i>	115	<hr/>		
61	Ankylostomiasis, Ascariasis and Other Nematodal Infestations <i>M. E. Yeolekar</i>	118	V IMMUNOLOGY		
62	Tapeworm, Cysticercosis, Hydatid Disease and Other Cestode Infestations <i>S. M. Sapatnekar</i>	123	1	Biology of the Immune System and Immune Response <i>K. S. Varadhachary</i>	180
63	Filariasis and Other Related Infections <i>G. Subramanyam Reddy</i>	126	2	Laboratory Diagnostics of Immune Disease <i>Ramnath Misra</i>	189
64	Schistosomiasis <i>Kirti C. Patel</i>	130	3	Primary Immunodeficiency Syndrome <i>Ashok Chandra</i>	192
65	Systemic Fungal Infections <i>D. D. S. Kulpati</i>	131	4	Acquired Immunodeficiency Other than AIDS <i>Alaka Deshpande</i>	195
66	Adult Vaccines and Immunoglobulins <i>Rajeev Soman</i>	138	5	Immunoinflammatory Disorders <i>Sukumar Mukherjee</i>	195
67	Protection of Health Care Workers <i>Rajeev Soman</i>	144	6	Immunology of Infection and Nutrition <i>Ashok Chandra</i>	199
68	Hospital Infection Control <i>Rohini Kelkar</i>	146	7	Tumour Immunology <i>Purvish M. Parikh</i>	201
<hr/>			8	Transplantation Immunology and Clinical Immunogenetics <i>N. K. Mehra</i>	203
III HIV AND AIDS			9	Immunopharmacology <i>Sukumar Mukherjee</i>	209
1	Basic Considerations and Epidemiology of HIV Infection <i>R. Sajithkumar</i>	148	<hr/>		
<hr/>			VI CLINICAL PHARMACOLOGY		
1	Basic Considerations of Clinical Pharmacology <i>Nilima A. Kshirsagar</i>	214			

2	Pharmacodynamics	216
	<i>M. U. R. Naidu</i>	
3	Therapeutic Drug Monitoring	218
	<i>Sudeshna S. Dalvi, Nithya J. Gogtay, Nilima A. Kshirsagar</i>	
4	Drug Interactions	219
	<i>Nilima A. Kshirsagar</i>	
5	Adverse Drug Reactions	221
	<i>Nithya J. Gogtay, Sten Olsson, Nilima A. Kshirsagar</i>	
6	New Drug Delivery Systems	222
	<i>Aravinda Babu P.</i>	

VII NUTRITION

1	Basic Considerations of Nutrition	224
	<i>Kamala Krishnaswamy</i>	
2	Assessment of Nutritional Status	228
	<i>Kshitish Chandra Samal</i>	
3	Protein Energy Malnutrition	230
	<i>K. Vijayaraghavan</i>	
4	Water Soluble Vitamins	234
	<i>Kamala Krishnaswamy</i>	
5	Fat soluble vitamins	239
	<i>Siddharth N. Shah, Gautam R. Shroff</i>	
6	Minerals and Trace Elements	242
	<i>Binay Prasad</i>	
7	Food-borne Toxic Diseases	245
	<i>Falguni S. Parikh</i>	
8	Free Radicals and Antioxidants	246
	<i>Siddharth N. Shah</i>	

VIII METABOLISM

1	Basic Considerations of Metabolism	250
	<i>Sidhartha Das</i>	
2	Disorders of Lipid Metabolism	250
	<i>Sidhartha Das, V. Mohan</i>	
3	Inborn Errors of Carbohydrate Metabolism	258
	<i>Siddharth N. Shah</i>	
4	Inborn Errors of Amino Acid Metabolism	260
	<i>D. K. Hazra</i>	
5	Disorders of Purine Metabolism	264
	<i>Ashutosh Narayan Singh</i>	
6	Disorders of Adipose Tissue and Obesity	264
	<i>Shashank R. Joshi</i>	
7	Wilson's Disease	266
	<i>R. K. Goyal</i>	
8	Iron Metabolism and Iron Overload Syndromes	267
	<i>Sunil J. Parekh</i>	
9	Porphyrias	270
	<i>Pradeep G. Talwalkar, Raghunath B. Phatak</i>	
10	Disorders of Melanin Pigment	273
	<i>Bibhuti B. Tripathy</i>	
11	Amyloidosis	275
	<i>Siddharth N. Shah</i>	

IX PULMONOLOGY

1	Basic Considerations of Pulmonology	278
	<i>Randeep Guleria, J. S. Guleria</i>	
2	Clinical Approach to a Patient with Pulmonary Disease	281
	<i>P. S. Shanker</i>	
3	Diagnostic Procedures in Pulmonary Disorders	284
	<i>Ashok A. Mahashur</i>	
4	Disorders of Upper Respiratory Tract	288
	<i>D. D. S. Kulpati</i>	
5	Bronchial Asthma	291
	<i>Virendra Singh</i>	
6	Chronic Obstructive Lung Disease	296
	<i>S. K. Sharma</i>	
7	Pneumonias	301
	<i>A. J. Pai Dhungat</i>	
8	Bronchiectasis, Lung Abscess, Empyema	305
	<i>J. N. Pande</i>	
9	Pulmonary Tuberculosis	310
	<i>K. C. Mohanty</i>	
10	Fungal Infections of the Lung	314
	<i>D. Behera</i>	
11	Diffuse Interstitial Lung Disease	318
	<i>S. K. Jindal</i>	
12	Hypersensitivity Pneumonitis and Eosinophilic Lung Disease	322
	<i>Farokh E. Udvardia</i>	
13	Occupational and Environmental Lung Diseases	327
	<i>Ashok A. Mahashur</i>	
14	Sarcoidosis	329
	<i>Samir K. Gupta</i>	
15	Solitary Pulmonary Nodule	332
	<i>Randeep Guleria</i>	
16	Disorders of Ventilation and Sleep Related Disorders	334
	<i>H. S. Hira</i>	
17	Congenital Lung Anomalies	335
	<i>Prabhat R. Das</i>	
18	Pulmonary Embolism and Deep Venous Thrombosis	337
	<i>Jamshed D. Sunavala</i>	
19	Diseases of Pleura, Mediastinum and Diaphragm	342
	<i>C. N. Deivanayagam</i>	
20	Atelectasis and Pulmonary Fibrosis	348
	<i>J. M. Joshi</i>	
21	Drug-induced Lung Disease	351
	<i>J. S. Guleria</i>	

X CARDIOLOGY

1	Basic Considerations of Cardiology	354
	<i>Sushil C. Munsli</i>	

2	Clinical Approach to a Patient with Cardiovascular Disease	358	29	Percutaneous Coronary Interventions and Other Therapeutic Applications of Cardiac Catheterisation	500
	<i>G. S. Sainani</i>			<i>Satyavan Sharma, Bharat Dalvi</i>	
3	Electrocardiography	356	30	Surgical Management of Non-Coronary Heart Diseases	504
	<i>H. S. Wasir</i>			<i>Solomon Victor</i>	
4	Stress Testing	376	31	Surgical Revascularisation of the Myocardium and Cardiac Transplantation	509
	<i>Shanker Krishnaswami</i>			<i>M. R. Girinath</i>	
5	Echocardiography	380	32	Diseases of the Aorta	510
	<i>Ravi R. Kasliwal</i>			<i>Manotosh Panja</i>	
6	Electrophysiology	384	33	Peripheral Arterial Diseases	515
	<i>Yash Y. Lokhandwala, Amit M. Vora</i>			<i>Murlidhar S. Rao</i>	
7	Radiology and Imaging in Cardiology	386	34	Diseases of the Veins	519
	<i>G. R. Jankharia</i>			<i>D. Rama Rao</i>	
8	Cardiac Catheterisation and Angiocardiology	390	35	Diseases of the Lymphatics	521
	<i>Ashwin B. Mehta, M.L. Bhatia</i>			<i>Gurpreet S. Wander</i>	
9	Nuclear Cardiology	394	<hr/>		
	<i>R. D. Lele</i>		XI GASTROENTEROLOGY		
10	Heart Failure	396	1	Basic Considerations of Gastroenterology	523
	<i>Upendra Kaul</i>			<i>H. G. Desai</i>	
11	Acute Rheumatic Fever	405	2	Clinical Approach to a Patient with Gastrointestinal Disease	525
	<i>U. A. Kaul</i>			<i>S. R. Naik</i>	
12	Valvular Heart Disease	410	3	Investigations of Gastrointestinal Disorders	526
	<i>Ravi R. Kasliwal</i>			<i>R. H. Kalro</i>	
13	Non-Rheumatic Valvular Heart Diseases	422	4	Gastrointestinal Endoscopy	528
	<i>P. C. Manoria</i>			<i>Gourdas Chouduri</i>	
14	Infective Endocarditis	425	5	Disorders of the Mouth and Salivary Glands	530
	<i>Lekha Pathak</i>			<i>Prabha Sawant</i>	
15	Atherosclerosis	430	6	Oesophageal Disorders	531
	<i>Siddharth N. Shah</i>			<i>Shobna J. Bhatia</i>	
16	Ischaemic Heart Disease	432	7	Peptic Ulcer Disease	536
	<i>K. K. Sethi</i>			<i>M. Narendranathan</i>	
17	Myocardial Infarction	441	8	Diseases of the Stomach and Duodenum	539
	<i>D. B. Pahljani</i>			<i>Pankaj Dhawan</i>	
18	Cardiogenic Shock	446	9	Gastrointestinal Bleeding	543
	<i>Prafulla G. Kerkar</i>			<i>Rakesh Kochhar</i>	
19	Cardiac Rehabilitation	449	10	Diarrhoea	547
	<i>Aashish S. Contractor, Aasit S. Shah</i>			<i>B. S. Ramakrishna</i>	
20	Essential Hypertension	452	11	Malabsorption Syndrome	551
	<i>M. Paul Anand</i>			<i>S. R. Naik</i>	
21	Secondary Hypertension	461	12	Tropical Sprue	553
	<i>Jamshed J. Dalal</i>			<i>V. I. Mathan</i>	
22	Congenital Heart Disease	465	13	Constipation	554
	<i>Shanker Krishnaswami</i>			<i>Kartar Singh</i>	
23	Cardiac Arrhythmias	475	14	Disorders of Gastrointestinal Motility	557
	<i>Yash Y. Lokhandwala, Amit M. Vora</i>			<i>Sanjeev Khanna</i>	
24	Sudden Cardiac Death	482	15	Functional Gastrointestinal Disorders	559
	<i>Sudhir R. Naik</i>			<i>Philip Abraham</i>	
25	Heart in Systemic Diseases	484	16	Abdominal Tuberculosis	562
	<i>Aspi R. Billimoria</i>			<i>Nirmal Kumar</i>	
26	Cor Pulmonale and Pulmonary Hypertension	487	17	Inflammatory Bowel Disease	567
	<i>M. J. Gandhi</i>			<i>Deepak Kumar Bhasin</i>	
27	Disorders of the Myocardium	490	18	Other Disorders of the Small Intestine and Colon	570
	<i>G. Vijayaraghavan</i>			<i>D. N. Guha Mazumdar</i>	
28	Diseases of the Pericardium	496			
	<i>Aspi R. Billimoria</i>				

19	Anorectal Disorders <i>Rakesh Aggarwal, Shobna J. Bhatia</i>	572
20	Disorders of Peritoneum <i>Chetan Bhatt</i>	574
21	Disorders of Diaphragm <i>M. P. Sharma</i>	578

XII HEPATOLOGY

1	Bilirubin Metabolism <i>Abhijeet Choudhary</i>	580
2	Clinical Approach to a Patient with Hepatic Disease <i>H. G. Desai</i>	582
3	Investigations of Hepatic Disorders <i>R. H. Kalro</i>	584
4	Imaging in Hepatobiliary Disorders <i>Shrinivas B. Desai</i>	587
5	Endoscopic Retrograde Cholangiopancreatography <i>Sharad C. Shah</i>	593
6	Enterically-Transmitted Viral Hepatitis (Hepatitis A and E) <i>Rakesh Aggarwal</i>	594
7	Viral Hepatitis B, C, D, G <i>Deepak Amarapurkar</i>	597
8	Acute Liver Failure <i>S. K. Acharya</i>	600
9	Chronic Liver Disease <i>S. K. Sarin</i>	604
10	Alcoholic Liver Disease <i>S. K. Acharya</i>	606
11	Cirrhosis of Liver <i>Philip Abraham</i>	610
12	Complications of Cirrhosis of Liver <i>Sharad C. Shah</i>	614
13	Non - Cirrhotic Portal Hypertension <i>S. K. Sarin</i>	621
14	Inherited Metabolic Disorders of the Liver <i>P. Advaitam</i>	623
15	Drug and Liver Injury <i>Nilima A. Kshirsagar</i>	625
16	Parasitic Diseases of the Liver <i>Samir R. Shah</i>	626
17	Liver Tumours <i>K. M. Mohandas</i>	629
18	Liver and Hepatocyte Transplantation <i>C. M. Habibullah</i>	631
19	Nutrition in Liver Disorders <i>S. K. Sarin</i>	633
20	Cholestasis <i>Y. K. Chawla</i>	634
21	Pregnancy and Liver Disorders <i>Raja Sambandan</i>	639
22	Liver in Systemic Diseases <i>Chetan Bhatt</i>	640
23	Diseases of the Gall Bladder and Biliary Tract <i>Rakesh Tandon</i>	642

24	Acute Cholecystitis <i>Rakesh Tandon</i>	644
25	Acute Pancreatitis <i>C. S. Pitchumoni</i>	647

XIII NEPHROLOGY

1	The Kidney - Introduction to Structure and Function <i>Bhupendra Gandhi</i>	653
2	Clinical Approach to a Patient with Renal Disease <i>Alan F. Almeida</i>	656
3	Glomerulonephritis <i>K. S. Chugh, Vivekanand Jha</i>	661
4	Tubulo-interstitial Nephropathy <i>P. D. Gulati</i>	668
5	Renal Tubular Disorders <i>Raj Kumar Sharma</i>	672
6	Renal Hypertension <i>S. C. Dash</i>	676
7	Urinary Tract Infection and Pyelonephritis <i>Vidya N. Acharya</i>	681
8	Calculous Disease and Obstructive Uropathy <i>M. M. Rajapurkar</i>	684
9	Hereditary and Developmental Disorders of the Kidney <i>M. S. Amaesan</i>	688
10	Acute Renal Failure <i>K. K. Malhotra</i>	691
11	Chronic Renal Failure <i>K. K. Malhotra</i>	695
12	Dialysis and Related Therapies in Renal Failure <i>N. C. Talwalkar</i>	699
13	Renal Transplantation <i>Bharat V. Shah</i>	702
14	Kidney in Systemic Diseases <i>B. K. Sharma</i>	706
15	Tropical Nephropathies <i>M. Thomas Mathew</i>	710
16	Drugs, Toxins and the Kidney <i>Chakko Korula Jacob</i>	714
17	Preventive Nephrology <i>Vidya N. Acharya</i>	718
18	Disorders of Fluids and Electrolytes <i>Vinay Sakhuja</i>	719
19	Acid-Base Disorders <i>Vinay Sakhuja</i>	725

XIV NEUROLOGY

1	Basic Considerations of Neurology <i>R. S. Wadia</i>	731
2	Clinical Approach to a Patient with Neurological Illness <i>S. Venkataraman</i>	734
3	Electrodiagnosis in Neurology <i>Arun B. Taly</i>	737

4	Headache <i>K. Ravishankar</i>	747	30	Peripheral Neuropathy <i>Anupam Dasgupta</i>	888
5	Raised Intracranial Pressure and Hydrocephalus <i>V. S. Mehta</i>	755	31	Disorders of the Autonomic Nervous System (ANS) <i>Shyamal Sen</i>	899
6	Disorders of Consciousness <i>C. J. Vas</i>	759	32	Disorders of Muscles <i>Ambar Chakravarty</i>	904
7	Dementia <i>S. K. Bhabha</i>	762	33	Myasthenia Gravis and Other Neuromuscular Disorders <i>G. K. Ahuja</i>	912
8	Aphasias <i>S. M. Katrak</i>	765	34	Neurorehabilitation <i>Anil D. Desai, Vimal Telang</i>	915
9	Disorders of Cranial Nerves <i>S. M. Katrak</i>	769	<hr/> XV HAEMATOLOGY <hr/>		
10	Seizure Disorders <i>J. M. K. Murthy</i>	779	1	Haematopoiesis <i>K. V. Krishna Das</i>	918
11	Sleep Disorders <i>Sridhar Sharma</i>	791	2	Approach to a Patient with Anaemia <i>B. C. Mehta</i>	922
12	Cerebrovascular Disorders <i>P. M. Dalal</i>	796	3	Approach to a Patient with Bleeding <i>Sunil J. Parekh</i>	925
13	Pyogenic Infections of The Central Nervous System <i>Ravindra Kumar Garg</i>	810	4	Approach to a Patient with Splenomegaly <i>S. K. Bichile</i>	928
14	Neurotuberculosis <i>Ambar Chakravarty</i>	814	5	Iron Deficiency Anaemia <i>B. C. Mehta</i>	930
15	Viral Infections of The Central Nervous System <i>N. E. Bharucha</i>	819	6	Megaloblastic Anaemia <i>Janmejaya Nayak</i>	934
16	Neurosyphilis <i>R. S. Wadia</i>	824	7	Hereditary Haemolytic Anaemia <i>M. B. Agarwal</i>	939
17	Fungal and Parasitic Diseases of the Nervous System <i>S. K. Bhabha</i>	826	8	Acquired Haemolytic Anaemias <i>Farah Jijina</i>	944
18	Demyelinating Diseases <i>M. M. Mehndiratta</i>	831	9	Anaemias of Ineffective Erythropoiesis <i>Mathew Thomas</i>	947
19	Extrapyramidal Disorders <i>B. S. Singhal</i>	835	10	Acute Leukaemias <i>S. H. Advani</i>	949
20	Cerebellar Disorders <i>Arun B. Shah</i>	841	11	Chronic Myeloid Leukaemia and Other Myeloproliferative Disorders <i>Tapan K. Saikia</i>	956
21	Nutritional and Toxic Disorders of the Nervous System <i>U. K. Misra</i>	848	12	Myelodysplastic Syndromes <i>Vinod Kochupillai</i>	958
22	Metabolic Disorders of the Nervous System <i>Vrajesh Udani</i>	853	13	Plasma Cell Dyscrasias <i>Pankaj M. Shah</i>	960
23	Brain Tumours <i>P. N. Tandon</i>	861	14	Bone Marrow Failure States <i>Lt. Col. Velu Nair</i>	963
24	Head Injury <i>Sunil K. Pandya</i>	865	15	Neutropaenias <i>S. K. Bichile</i>	967
25	Developmental Anomalies of Central Nervous System <i>D. Nagaraja</i>	868	16	Disorders of Coagulation <i>Alok Srivastava</i>	968
26	Spinal Cord Disorders - I <i>Krishnamoorthy Srinivas, N. Subbulakshmy</i>	872	17	Platelet Disorders <i>Divyesh G. Mehta</i>	973
27	Spinal Cord Disorders - II <i>S. Venkataraman, S.P. Gorthi</i>	878	18	Thrombotic Disorders <i>Mammen Chandy</i>	976
28	Motor Neurone Disease <i>Pratap C. Sanchetee</i>	882	19	Blood Transfusions <i>Sandhya A. Kamath</i>	980
29	Cervical and Lumbar Spondylosis <i>Kalyan B. Bhattacharyya</i>	885	20	Haemopoietic Stem Cell (Bone Marrow) Transplantation <i>Mammen Chandy, Alok Srivastava</i>	983

XVI ONCOLOGY

1	Basic Considerations of Oncology	987
	<i>S. H. Advani</i>	
2	Clinical Approach to a Patient with Cancer	991
	<i>Vinod Raina, Avinash M. Deo</i>	
3	Cancer Chemotherapy	994
	<i>Vinod Raina, Atul Sharma</i>	
4	Principles of Radiotherapy	997
	<i>G. K. Rath</i>	
5	Malignant Disorders of Lymphoid Cells	1000
	<i>Purvish M. Parikh</i>	
6	Breast Cancer	1006
	<i>Vinod Raina</i>	
7	Urogenital Cancers	1008
	<i>R. Gopal</i>	
8	Gastrointestinal Tumours	1011
	<i>K. M. Mohandas</i>	
9	Lung Cancer and Other Pulmonary Tumours	1015
	<i>Kirti M. Patel</i>	
10	Head and Neck Cancers	1020
	<i>Manisha Bhutani</i>	
11	Gynaecological Tumours	1021
	<i>P. P. Bapsy</i>	
12	Soft Tissue Tumours	1025
	<i>Tapan K. Saikia</i>	
13	Paediatric Tumours	1028
	<i>T. G. Sagar</i>	
14	Paraneoplastic Syndromes	1032
	<i>D. Raghunadha Rao</i>	
15	Oncological Emergencies	1035
	<i>S. K. Bichile</i>	

XVII ENDOCRINOLOGY

1	Basic Considerations of Endocrinology	1038
	<i>J. K. Agrawal</i>	
2	Clinical Approach to a Patient with Endocrine Disease	1040
	<i>J. K. Agrawal</i>	
3	Disorders of the Hypothalamus and Pineal Gland	1042
	<i>Abdul Hamid Zargar</i>	
4	Disorders of the Posterior Pituitary	1043
	<i>G. R. Sridhar</i>	
5	Disorders of the Anterior Pituitary	1046
	<i>R. V. Jayakumar</i>	
6	Disorders of the Thyroid Gland	1051
	<i>Padma S. Menon</i>	
7	Disorders of the Parathyroid Glands	1061
	<i>K. Kannan</i>	
8	Disorders of the Adrenal Glands	1066
	<i>K. D. Nihalani</i>	
9	Disorders of the Gonads	1077
	<i>Shashank R. Joshi</i>	
10	Disorders of Growth and Development	1085
	<i>S. K. Singh</i>	

11	Disorders of Puberty	1089
	<i>Y. R. Sachdev</i>	
12	Miscellaneous Endocrine Disorders	1092
	<i>Premlata K. Varthakavi</i>	

XVIII DIABETOLOGY

1	Basic Considerations of Diabetes Mellitus	1097
	<i>A. Ramachandran, A. K. Das</i>	
2	Pathophysiology of Diabetes Mellitus	1098
	<i>Bibhuti B. Tripathy, Siddharth N. Shah</i>	
3	Clinical Approach to a Patient with Diabetes Mellitus	1104
	<i>B. K. Sahay</i>	
4	Diagnosis of Diabetes Mellitus	1106
	<i>P. G. Talwalkar, R. B. Phatak</i>	
5	Management of Diabetes Mellitus	1108
	<i>Siddharth N. Shah, R. B. Phatak</i>	
6	Acute Complications of Diabetes Mellitus	1113
	<i>V. Seshiah</i>	
7	Chronic Complications of Diabetes Mellitus	1117
	<i>V. Mohan</i>	
8	Hypoglycaemia	1123
	<i>Siddharth N. Shah</i>	
9	Prevention of Diabetes Mellitus	1126
	<i>A. K. Das</i>	
10	Diabetes Mellitus and Pregnancy	1128
	<i>Usha Sriram</i>	
11	Diabetic Foot	1130
	<i>Sharad Pendsey</i>	
12	Diabetic Retinopathy	1134
	<i>P. Namperumalsamy</i>	

XIX RHEUMATOLOGY

1	Basic Considerations and Approach to Rheumatological Disease	1137
	<i>Arvind Chopra</i>	
2	Regional Pain Syndromes	1141
	<i>Rohini Handa</i>	
3	Generalised Pain Syndromes	1145
	<i>Siddharth Kumar Das</i>	
4	Low Back Pain	1148
	<i>C. Panchapakesa Rajendran</i>	
5	Osteoarthritis and Crystal Deposition Diseases	1151
	<i>Siddharth Kumar Das, Anand N. Malaviya</i>	
6	Gout	1157
	<i>U. R. K. Rao</i>	
7	Rheumatoid Arthritis	1160
	<i>Prakash K. Pispati</i>	
8	Seronegative Spondyloarthropathy	1164
	<i>Sukhbir Singh Uppal</i>	
9	Systemic Lupus Erythematosus	1171
	<i>V. R. Joshi</i>	

10	Antiphospholipid Syndrome <i>Lata S. Bichile</i>	1176	10	Brain Death and Support of the Brain-dead Organ Donor <i>Sunil Shroff, S. Mahendran</i>	1251
11	Vasculitides <i>Anand N. Malaviya</i>	1177	11	Metabolic and Renal Problems in the Critically Ill <i>H. Sudarshan Ballal</i>	1254
12	Systemic Sclerosis <i>Amita Aggarwal</i>	1184	12	Nutritional Support of the Critically Ill <i>K. Sriram, Pravin Amin</i>	1259
13	Mixed Connective Tissue Disease and Overlap Syndromes <i>Milind Y. Nadkar</i>	1186	<hr/> XXII POISONING AND TOXICOLOGY <hr/>		
14	Miscellaneous Rheumatological Disorders <i>Milind Y. Nadkar</i>	1187	1	Basic Considerations of Poisoning <i>Surjit Singh</i>	1263
15	Polymyositis and Dermatomyositis <i>Nirupa E. Borges</i>	1190	2	Plant Poisons <i>Praveen Aggarwal</i>	1265
16	Paediatric Rheumatic Disorders <i>B. G. Dharmanand</i>	1191	3	Drug Poisoning <i>Dilip R. Karnad</i>	1268
17	Infectious Arthritis <i>V. Krishnamurthy</i>	1195	4	Organophosphate Poisoning <i>Rustom S. Wadia</i>	1271
18	Heritable Connective Tissue Diseases <i>N. B. Kumta</i>	1197	5	Aluminium Phosphide Poisoning <i>S. N. Chugh</i>	1272
<hr/> XX BONE DISORDERS <hr/>			6	Other Pesticide Poisoning <i>Surjit Singh</i>	1274
1	Bone and Bone Mineral Metabolism <i>S. P. S. Teotia</i>	1202	7	Alcohols Poisoning <i>Milind Y. Nadkar</i>	1276
2	Investigations and Diagnosis of Bone Disease <i>Amrisha Mithal</i>	1206	8	Corrosive Acid Poisoning <i>Sandhya A. Kamath</i>	1277
3	Rickets and Osteomalacia <i>Y. K. Amdekar, Shashank R. Joshi</i>	1211	9	Corrosive Alkalies Poisoning <i>Sandhya A. Kamath</i>	1278
4	Osteoporosis <i>S. N. A. Rizvi</i>	1214	10	Snake Bites and Arthropods Envenomation <i>Pradeep Bambery</i>	1279
5	Developmental Disorders of Bone <i>Mohini Teotia</i>	1216	11	Scorpion Sting <i>H. S. Bawaskar</i>	1282
6	Miscellaneous Osteopathies <i>S. N. A. Rizvi</i>	1220	12	Heavy Metal Poisoning <i>Praveen Aggarwal</i>	1284
<hr/> XXI CRITICAL CARE MEDICINE <hr/>			13	Lathyrism <i>Nadir E. Bharucha</i>	1288
1	Basic Considerations of Critical Care <i>Ram E. Rajagopalan</i>	1223	14	Fluorosis <i>S. P. S. Teotia</i>	1289
2	Monitoring The Critically Ill Patient <i>Dilip R. Karnad</i>	1224	15	Epidemic Dropsy <i>G. K. Dube</i>	1291
3	Hypotension and Shock <i>Vineet Nayyar, George John</i>	1227	16	Miscellaneous Poisonings <i>Jyoti Prakash Wali</i>	1292
4	Septic Shock <i>Farhad Kapadia</i>	1231	<hr/> XXIII DERMATOLOGY <hr/>		
5	Acute Respiratory Failure <i>Praveen K. Jain, Ashit M. Bhagwati</i>	1232	1	Basic Considerations of Dermatology <i>Ameet R. Valia, R. G. Valia</i>	1298
6	Mechanical Ventilation <i>Shirish Prayag</i>	1235	2	Bacterial Skin Infections <i>Gurumohan Singh</i>	1300
7	Acute Respiratory Distress Syndrome <i>Ashok A. Mahashur</i>	1239	3	Fungal Skin Infections <i>S. L. Wadhwa, Uday Khopkar</i>	1302
8	Cardiopulmonary Resuscitation <i>R. Rajaram</i>	1241	4	Viral Skin Infections <i>K. Siddappa</i>	1305
9	Neurological Critical Care <i>G. S. Umamaheswara Rao, G. R. Arunodaya</i>	1247	5	Protozoal and Parasitic Skin Infestations <i>P. N. Arora</i>	1307

6	Eczema <i>Ashok Kumar Bajaj</i>	1310	10	Psychiatric Emergencies <i>J. K. Trivedi</i>	1398
7	Photosensitivity Dermatitis <i>Nina Khanna</i>	1313	11	Treatment of Psychiatric Disorders <i>Amresh Shrivastava</i>	1401
8	Hypersensitivity Skin Disorders <i>R. G. Valia</i>	1315	<hr/> XXV RADIOLOGY AND IMAGING <hr/>		
9	Acne, Acneform Eruptions and Rosacea <i>M. A. Tutakane</i>	1318	1	Radiology in Medicine <i>Kakarla Subbarao</i>	1405
10	Hair and Nail Disorders <i>Ashok Kumar Bajaj</i>	1320	2	Ultrasonography <i>Suren V. Kothari</i>	1414
11	Pigmentary Skin Disorders <i>Uday Khopkar</i>	1322	3	CT Scan <i>Inder Talwar</i>	1418
12	Keratinisation and Papulosquamous Disorders <i>K. Pavithran</i>	1324	4	Magnetic Resonance Imaging <i>Shrinivas B. Desai</i>	1421
13	Vesiculobullous Skin Disorders <i>K. K. Raja Babu</i>	1329	5	Nuclear Medicine <i>R. D. Lele</i>	1427
14	Metabolic and Nutritional Skin Disorders <i>Bhushan Kumar</i>	1333	6	Positron Emission Tomography <i>A. M. Samuel</i>	1432
15	Skin Manifestations of Systemic Diseases <i>Uday Khopkar</i>	1337	<hr/> XXVI ENVIRONMENTAL MEDICINE <hr/>		
16	Developmental Skin Disorders <i>H. R. Jerajani</i>	1342	1	Basic Considerations of Environmental and Occupational Diseases <i>N. P. Misra</i>	1435
17	Skin Tumours <i>H. R. Jerajani</i>	1343	2	Environmental Pollution <i>Ashok A. Mahashur</i>	1435
18	Genetic Skin Disorders <i>Ganesh Pai</i>	1347	3	Environmental Disasters <i>N. P. Misra</i>	1437
19	Therapy of Skin Disease <i>C. R. Srinivas</i>	1348	4	Effects of Extremes of Temperature <i>N. R. Krishnan</i>	1440
20	Cutaneous Drug Reactions <i>Freny E. Billimoria</i>	1352	5	High Altitude Medicine <i>B. A. Krishna Prasad</i>	1442
21	Leprosy <i>B. K. Girdhar</i>	1357	6	Aviation Medicine <i>A. S. Kasthuri</i>	1444
22	Sexually Transmitted Diseases <i>Ravinder K. Pandhi</i>	1361	7	Effects of High Barometric Environment <i>M. J. John</i>	1446
23	Mucocutaneous Manifestations of AIDS <i>J. K. Maniar</i>	1365	8	Electric Shock and Lightning Injuries <i>Vrinda Kulkarni, Sandhya A. Kamath</i>	1447
<hr/> XXIV PSYCHIATRY <hr/>			9	Occupational Hazards <i>Y. N. Sinha</i>	1449
1	Basic Considerations of Psychiatry <i>Ashit Sheth</i>	1369	10	Radiation Hazards <i>B. A. Krishna</i>	1450
2	Organic Brain Syndromes <i>Ashit Sheth</i>	1371	<hr/> XXVII MISCELLANEOUS <hr/>		
3	Mood Disorders <i>Ashit Sheth</i>	1373	1	Pregnancy Medicine <i>M. Maiya</i>	1452
4	Psychotic Disorder and Schizophrenia <i>Ketan Parmar</i>	1378	2	Geriatric Medicine <i>Vinod Kumar</i>	1459
5	Anxiety Disorders <i>V. N. Vahia</i>	1381	3	Sexual Medicine <i>B. T. Tukol</i>	1463
6	Somatoform Disorders <i>V. N. Vahia</i>	1383	4	Sports Medicine <i>Anant Joshi</i>	1466
7	Psychosexual and Personality Disorders <i>Awdhesh K. Agarwal</i>	1384	5	Diet in Medical Diseases <i>Rupa Udeshi, Siddharth N. Shah</i>	1469
8	Alcohol and Substance Abuse <i>S. M. Channabasavanna, Pratima Murthy</i>	1389	6	Care of the Terminally Ill <i>Tapan K. Saikia</i>	1474
9	Interface of Medicine and Psychiatry <i>Ashit Sheth, Amresh Shrivastava</i>	1395			

7	Insurance Medicine <i>N. V. Apte</i>	1475	6.	Multi Drug Resistant (MDR) TB <i>J.M. Joshi</i>	1494
8	Yoga in Medicine <i>R. Nagarathna</i>	1476	7.	Antiretroviral Therapy - Update <i>Milind Nadkar</i>	1495
9	Exercise in Health and Disease <i>D. Rama Rao</i>	1477	8.	Cholesterol Absorption Inhibitors: Ezetimibe <i>Siddharth N. Shah</i>	1496
10	Perioperative Management <i>Prabha Adhikari</i>	1479	9.	Drug Eluting Stents <i>Satyavan Sharma</i>	1496
11	Index of Normal Values <i>Tester F. Ashavaid</i>	1481	10.	New Guidelines for Hypertension (JNC 7 Report) <i>M. Paul Anand</i>	1497
12	Legal Issues in Medicine <i>Y. P. Munjal, R.K. Singhal</i>	1486	11.	Modalities of Transplant Preservation <i>V.N. Acharya</i>	1498
13	Travel Medicine <i>Y. P. Munjal, A.P. Misra</i>	1487	12.	Newer Antiepileptic Drugs and Other Modalities of Treatment of Epilepsy <i>Ravindra Nath Sahay</i>	1500
<hr/>					
XXVIII RECENT ADVANCES					
1.	Newer Antibacterial and Antifungal Drugs <i>Rajeev Soman</i>	1491	13.	Newer Anticancer Drugs <i>Avinash Deo</i>	1501
2.	Severe Acute Respiratory Syndrome (SARS) <i>Falguni Parikh</i>	1491	14.	Newer Drugs in Psychiatry <i>Ketan Parmar</i>	1504
3.	Mad Cow Disease <i>Sandhya Kamath</i>	1492	15.	Coronary CT <i>Govind B. Chavhan, Bhavin Jankharia</i>	1506
4.	Bird Flu <i>Sandhya Kamath</i>	1492	16.	Cardiac MRI <i>Bhavin Jankharia</i>	1509
5.	Laboratory Diagnosis of Malaria <i>Dilip R. Karnad</i>	1493			
				INDEX	1513