## **VOLUME 2: MEDICINE UPDATE 2016-1**

SECTION 9	FOOD	NUTRITION AND LIFESTYLE	
AZZ		Diet and Healthy Aging Sonia Arora, Krishma Virk, Vitull K Gupta	527
		Nutritional Supplements in India: How Safe are they? Ruby Sound, Shashank R Joshi	534
		B <sub>12</sub> Deficiency in India: Clinical Relevance and Management  Pradip Joshi, KS Kajal	539
		Adulteration and Safety Issues in Packaged Food Industry: The Unpalatable Truth Sandhya Kamath	545
		Food Allergies Maria A Lagarde, Yogesh Govil	550
		Science of Happiness and Spiritualism  Ashok Panagariya	554
		Sahaja Yoga Meditation: A Simple, Fast Way to Reduce Stress and Enhance Well-being Sandeep Rai, Madhur Rai	559
		Role of Yoga and Meditation for Lifestyle Diseases Mohit D Gupta, Girish MP, Parth Sthapak	561
SECTION 10	META	ABOLIC MADE AND A STATE OF THE	
		Metabolic Syndrome and Cardiovascular Risk: Indian Perspective  Gurmukh S Sainani, Namrata Shindekar	571
		Recent Lipid Guidelines: Lessons for us Mohan Bhargava, Ravi Prakash, Prachal Bhargava	577
		New Guidelines for Management of Dyslipidemia: Are they Relevant to Indian Population? JPS Sawhney, Saurabh Bagga, Simran Sawhney, Dapo Iluyomade	581
	116.	Statins and Cancer Prevention Vikas Khurana, Shikhar Khurana	586
		Novel Lipid-lowering Therapeutics SN Narasingan	589
		PCSK9 Inhibitor: A New Molecule for Dyslipidemia Veerappa Kothiwale, C Prudhvi	595
		PCSK9 Inhibitors: Potential as Future Lipid-lowering Agents! PC Manoria, Pankaj Manoria, Piyush Manoria, SK Parashar	599
		Osteoporosis in India: Prevention and Management Satyabrata Ganguly, Bidyut K Das	605
		Obesity in India: Prevalence, Implications and Management Nihar Mehta, Vishal Vanani	610
		Obesity Determinants: Genetics or Epigenetics Soumitra Ghosh	616
	123.	A Decade of Experience in Bariatric Surgery in Indian Patients Shashank Shah, Poonam Shah, Ashish Ahuja	619
SECTION 11	HYP	ERTENSION 6869 X 4769 Shaddad Rhead beyond buomfold nodeons X2	
102	124.	Role of Inflammation in Hypertension: Its Therapeutic Implications Sanjay Jain, SK Pondaiah	627
	125.	Blood Pressure Variability: Importance in Management of CVD  M Chenniappan	630

		Home Blood Pressure Monitoring: Clinical Utility in India A Muruganathan	636
	127.	Ambulatory Blood Pressure Monitoring  Mangesh Tiwaskar, Shilpa Tiwaskar, Parveen Dhingra	641
	128.	Treatment of Hypertension in 2016: Role of Beta-blockers Satya Narayan Routray, Chander Bowry, Dipak Ranjan Das	648
	129.	Treatment of Hypertension in 2016: Role of Diuretics T Govindan Unni	651
	130.	Management of Hypertension in 2016: Role of Calcium Channel Blockers Kamlesh Tewary, AK Das	656
	131.	Treatment of Hypertension in 2016: Role of ACE-Inhibitors  Abhay N Rai, Mritunjay K Singh	660
	132.	Treatment of Hypertension in 2016: Role of Angiotensin Receptor Blockers BR Bansode	664
	133.	Rational Combination Therapies for Managing Hypertension NK Soni, VB Jindal	667
	134.	Gazing the Crystal Ball: Future of Hypertension BB Thakur, Smita Thakur	670
	135.	Indian Hypertension Guidelines: Evolution and Key Lessons Siddharth Shah	677
SECTION 12	INFE	ECTIOUS DISEASES	
	Mala	ria	
	136.	Recent Change in the Behavior of Plasmodium  Debasis Chakrabarti, Swaroop K Baruah	683
	137.	Changing Clinical Scenario of Malaria Amar Pazare	688
	138.	Current Guidelines on Management of Malaria in India Manoj K Mohapatra, Pradip K Mohanty	690
	Deng	que	
		Clinical Presentation and Systemic Manifestations of Dengue Fever RR Chaudhary, KK Dwivedi, Narinder Sharma	697
	140.	Dengue Fever: Prevalence, Profile and Management in India Manab K Ghosh, Bibhuti Saha, Sandeep Puri	701
	Typh	noid	
		Typhoid Fever: Presentation and Management Strategies in 2016  Uttam K Paul, Smarajit Banik	706
	142.	Typhoid Fever: Overview with Recent Advances Surendra Daga	712
	Swin	ne Flu	
		Clinical Presentation of Swine Flu: An Overview Sanjiv Maheshwari, Swapnil Samadhiya	715
	144.	H1N1 (Swine Flu) in India: Issues in Diagnosis, Management and Prophylaxis Falguni S Parikh, Sweta Shah	718
	Ence	ephalitis	
		Cryptococcal Meningitis  Dolanchampa Modak	722
	146.	Japanese Encephalitis Bhupen Barman, KG Lynrah, Pranjal Phukan	726

	147.	Acute Febrile Encephalopathy Trupti H Trivedi, U Sundar	730
	148.	Rickettsial Fever in India (Scrub Typhus) Shantanu K Kar, Bhagirathi Dwibedi, Jayanta K Panda	737
	149.	Scrub Typhus: Prevalence and Profile in India Prasanta K Bhattacharya	744
	150.	Overview of Ebola Virus K Shankar, K Taruni	748
	151.	Kala-azar: Prevalence, Presentation and Management in India Shyam Sundar, Jaya Chakravarty	752
	152.	Brucellosis Rajiv Raina, JPS Gill	, 756
	153.	Systemic Antifungal Treatment: Current Principles and Practice  Ajai K Garg, AK Agarwal, GD Sharma	761
	154.	Hemophagocytic Lymphohistiocytosis Dinesh Gupta, Ram Singh, Anita Tahlan	768
	155.	Neglected Tropical Diseases: Burden in Asian Countries Partha S Karmakar, Lokeshwar Singh	773
	156.	Adult Vaccination in India RK Singal, Vivek Pal Singh	778
SECTION 13	SEP	SIS AND ANTIBIOTICS	
	157.	Clinical Approach to a Patient with Sterile Pyuria  Mohanjeet Kaur, Mary John	787
	158.	MRSA, VRE, NDM: Prevalence, Prevention and Management in Indian Scenario Saurabh Srivastava, Dheerendra Kuber, Bornali Borua	792
	159.	Diabetes and Sepsis: Indian Scenario Jayant K Panda, Manoranjan Behera	798
	160.	Evaluation and Management of Severe Sepsis and Septicemic Shock MPS Chawla, Amit Bery	805
	161.	Current Management of Sepsis Narendra Rungta, Pramod Sarwa	813
	162.	Antimicrobial Stewardship in a Resource Limited Setting Like India Akashdeep Singh, Gurpreet S Wander, Sangram Singh	817
	163.	Newer Antibiotics in India: Dosages and Routes of Administration  Dinesh Khullar, Rahul Grover	820
	164.	Inhaled Antibiotics Vasu Vardhan, Anil Abbot, Puneet Saxena	825
	165.	Penems: Where do they Stand? Nitin Abhyankar, Sandeep Kaushal	829
	166.	War against Antibiotic Resistance: What can be Done  Jyoti Goyal, RK Mani	833
SECTION 14	TOX	CICOLOGY	
	167.	Organophosphorus Poisoning in India Virendra Kumar Goyal	841
	168.	Health Effects of Toxic Gases in India Gurusaran Sidhu, Ankit Walia, Abhitej Sidhu	845

	169.	Poisonings and Extracorporeal Therapy: Role of a Nephrologist  Manisha Sahay	851
	170.	Current Concepts in Management of Snakebite: A Case-based Discussion Vinay Rampal, V Palaniappan	857
	171.	Aluminum Phosphide Poisoning in Northern Central India SB Siwach	862
	172.	Hair Dye Poisoning Neelima Singh, Sushma Trikha, Priyam Singh	866
	173.	Corrosive Poisoning: Prevalence and Management Yalaka Rami Reddy, Ajay Kumar, Rakesh Kochhar	868
SECTION 15	HUN	MAN IMMUNODIFICIENCY VIRUS	1105
	174.	HIV Infected—Where do I go? Services for HIV Infected Persons in the Country BB Rewari, Vimlesh Purohit	875
	175.	HIV-TB: Deadly Synergy PK Aggrawal	880
	176.	HIV and Tuberculosis Sanjeev Sinha, BB Rewari	884
,	177.	HIV in Critical Care Atul K Patel, Sanjay Pujari	890
	178.	Combination Antiretroviral Therapy BB Rewari, Sudhir Chawla	893
	179.	National ART Guidelines Subhasish K Guha, Dipanjan Bandyopadhyay	899
	180.	Nutrition in HIV/AIDS: A Clinician's Perspective S Bhagyabati Devi, T Jeeten K Singh, Ksh Birendra Singh	905
SECTION 16	TUB	ERCULOSIS  PROPERTY OF THE PRO	
10	181.	Tuberculosis Mimics Alaka Deshpande	913
	182.	Lymph Node Tuberculosis: Conflicts and Controversies  Jalil Chowdhury, Sandeep Chhabra, Aminder Singh	918
	183.	Xpert MTB/RIF in the Diagnosis of Tuberculosis: Challenging the Gold Standard Abhenil Mittal, Abhishek Sharma, Mikashmi Kohli, SK Sharma	923
	184.	Musculoskeletal Manifestations of Tuberculosis  Harpreet Singh, Sameer Arora	931
	185.	Abdominal Tuberculosis: What's New?  Vishal Sharma, Rajoo Singh Chinna, Atul Sachdev	934
	186.	Tubercular Meningitis: From Controversy to Consensus Kameshwar Prasad, Deepti Vibha	940
	187.	Current Concepts in Treatment of Tuberculosis: RNTCP, WHO and Indian Guidelines  Prashant Prakash, Prabhat Agarwal	944
	188.	Management of ATT Hepatotoxicity PK Sharma, Navjyot Kaur, Parmod Mittal	953
	189.	Diabetes Mellitus and Tuberculosis: Double Trouble Alladi Mohan, J Harikrishna, Prabath Kumar	958
	190.	Nontuberculous Mycobacterial Infection: Growing Problem in Community  Harsh Toshniwal, Vipul Shah, Manoj Shevkani, Kalpak Bhatt	962

SECTION 17	RESI	PIRATORY SYSTEM	
	191.	Health Effects of Air Pollution SK Jindal, Anil Vij	969
	192.	Health Effects of Smokeless Tobacco Products Inderpaul S Sehgal, Digambar Behera	973
	193.	Bronchoscopy: Where it Helps? Parvaiz A Koul	978
	194.	Advances in Asthma Management Devasahayam J Christopher, T Balamugesh	985
	195.	Recent Trends in Management of Bronchial Asthma Mohd Sabir, SK Kochar, VK Tundwal	991
	196.	Severe Asthma: Recognition and Management Nishtha Singh, Virendra Singh, Kulwant S Bhatia	998
	197.	Asthma-COPD Overlap Syndrome: What's in a Name?  Puneet Saxena, Vishal Chopra	1001
	198.	Chronic Obstructive Pulmonary Disease Update 2016  Aloke G Ghoshal, Avik Ghoshal, Indranil Halder	1006
	199.	Cor Pulmonale Akashdeep Singh, Gurpreet S Wander, Raghav Mohan	1011
	200.	Nonspecific Interstitial Pneumonia Deepak Talwar, Karamvir Goyal, Anjana Talwar	1018
	201.	Idiopathic Pulmonary Fibrosis: New Hopes with Newer Therapies  Ajay Handa, Akashdeep Singh	1023
	202.	Interstitial Lung Disease: Recent Trends in its Management PS Shanker	1028
	203.	Algorithmic Approach for the Management of Pleural Effusion  Agam Vora, Navneet Singh	1033
	204.	Obstructive Sleep Apnea in India: Prevalence, Profile and Management  Ranjit Kumar Singh	1038
	205.	Pulmonary Rehabilitation AK Janmeja, Deepak Aggarwal, Anil Kashyap	1043
SECTION 18	NEU	JROLOGY	
	206.	Headache Management: From Plants to Implants Sumit Singh, VN Mishra	1049
	207.	First Seizure: How to Approach?  Mrinal Kanti Roy	1053
	208.	Temporal Lobe Epilepsy: Clinical Presentation and Management  V Nagaraajan	1057
	209	Do we Really Require Newer Antiepileptic Drugs?  Bhupendra Chaudhary, Binay Karak	1061
	210.	Status Epilepticus Gagandeep Singh, Parampreet Kharbanda, Monika Singla	1064
	211.	Current Guidelines for the Management of Stroke Abhijeet K Kohat, Shirish M Hastak, Subhash Kaul	1069
	212	. Recent Advances in the Management of Acute Ischemic Stroke  MV Padma Srivastava	1075

213.	Cerebral Venous Sinus Thrombosis: What a Physician Must Know?  UK Misra, J Kalita, V Bansal	1080
214.	Stroke Mimics PK Maheshwari, A Pandey	1087
215.	Carotid Artery Disease: When and how to Treat?  Dheeraj Khurana, Atul Mathur, Biplab Das, Sarju Ralhan	1090
216.	Muscular Dystrophy: A Clinical Approach Satish V Khadilkar, NA Nadkarni	1096
217.	Clinical Approach to Movement Disorders Vinay Goyal, Birinder S Paul	1101
218.	Recent Advances in the Management of Demyelinating Neuropathies: Indian Perspective Anup K Bhattacharya, Bhaskar Ghosh	1105
219.	Demyelinating Central Nervous System Disorders in India: An Update Lekha Pandit	1111
220.	Autoimmune Encephalitis: Channelopathy/Synaptopathy/Circuitopathy  Alexander Mathew	1117
221.	Motor Neuron Disease: Indian Scenario Sudesh Prabhakar, Roopa Rajan	1123
222.	From Early to Advanced Parkinson's Disease: How Treatment Approach Changes?  U Meenakshisundaram, UM Sreenivas	1128
223.	Approach to Patient with Coma  8 Vengamma	1133
224.	Raised Intracranial Pressure without Focal Neurological Signs Sumeet Singla, AK Agarwal, Payal Jain	1139
225.	Role of Decompressive Craniectomy in Malignant Middle Cerebral Artery Infarction Rajinder Bansal, Ashwani Chaudhary, Hanish Bansal	1143
GAS	TROENTEROLOGY	
226.	Irritable Bowel Syndrome: What is New in Diagnosis and Treatment?  Uday C Ghoshal	1149
227.	Treatment Modalities in Gastroesophageal Reflux Disease  Manish S Bhatnagar, Nidhi Bhatnagar	1155
228.	Inflammatory Bowel Disease in India: Profile, Pattern and Management  Ajit Sood, Vandana Midha	1159
229.	IBDOME: IBD from Primary Phenotypes to Immune-mediated Disorders Shishira Bharadwaj, Gursimran S Kochhar, Bo Shen	1163
230.	Crohn's Disease: An Update Charles N Bernstein	1172
231.	Role of Probiotics in Gastrointestinal Diseases Sethu Babu	1179
232.	Development of GI Endoscopy: A Snapshot Nageshwar Reddy	1183
233.	Management of Acute Pancreatitis Divya Yadav, Prabhleen Chahal	1189
	-	1189 1193
	214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225.  GAS 226. 227. 228. 229. 230.	<ul> <li>214. Stroke Mimics PK Maheshwari, A Pandey</li> <li>215. Carotid Artery Disease: When and how to Treat? Dheeraj Khurana, Atul Mathur, Biplob Das, Sarju Ralhan</li> <li>216. Muscular Dystrophy: A Clinical Approach Satish V Khadilkar, NA Nadkarni</li> <li>217. Clinical Approach to Movement Disorders Vinay Goyal, Birinder S Paul</li> <li>218. Recent Advances in the Management of Demyelinating Neuropathies: Indian Perspective Anup K Bhattacharya, Bhaskar Ghosh</li> <li>219. Demyelinating Central Nervous System Disorders in India: An Update Lekha Pandit</li> <li>220. Autoimmune Encephalitis: Channelopathy/Synaptopathy/Circuitopathy Alexander Mathew</li> <li>221. Motor Neuron Disease: Indian Scenario Sudesh Prabhakar, Roopa Rajan</li> <li>222. From Early to Advanced Parkinson's Disease: How Treatment Approach Changes? U Meenakshisundaram, UM Sreenivas</li> <li>223. Approach to Patient with Coma B Vengamma</li> <li>224. Raised Intracranial Pressure without Focal Neurological Signs Sumeet Singla, AK Agarwal, Payal Jain</li> <li>225. Role of Decompressive Craniectomy in Malignant Middle Cerebral Artery Infarction Rajinder Bansal, Ashwani Chaudhary, Hanish Bansal</li> <li>GASTROENTEROLOGY</li> <li>226. Irritable Bowel Syndrome: What is New in Diagnosis and Treatment? Uday C Ghoshal</li> <li>227. Treatment Modalities in Gastroesophageal Reflux Disease Manish S Bhatnagar, Nidhi Bhatnagar</li> <li>228. Inflammatory Bowel Disease in India: Profile, Pattern and Management Ajit Sood, Vandana Midha</li> <li>229. IBDOME: IBD from Primary Phenotypes to Immune-mediated Disorders Shishira Bharadwaj, Gursimran S Kochhar, Bo Shen</li> <li>230. Crohn's Disease: An Update Charles N Bernstein</li> <li>231. Role of Probiotics in Gastrointestinal Diseases</li> </ul>

SECTION 20	HEPATOLOGY	
	236. NASH—Newer Trends in Management: A US Perspective  Tavankit Singh, Gursimran S Kochhar, Arthur J McCullough	1205
	<ol> <li>NASH—Newer Trends in Management: An Indian Perspective         Rajesh Upadhyay, Anupam Prakash     </li> </ol>	1208
	238. NASH for Clinicians Deepak Amarapurkar	1213
	<ol> <li>Hepatitis B: Prevalence, Presentation and Management in South Asians         Anjan Saikia, Mamun Al Mahtab     </li> </ol>	1220
	240. Physician's Role in Eradicating Hepatitis C  Amrish Sahney, SK Sarin	1224
	241. Management of Acute Liver Failure  Mithun Sharma, Sandeep Sidhu	1233
	242. Acute Liver Failure in India: How is it Different from the West?  Bhaskar Nandi, Omesh Goyal	1241
	243. Guidelines for Decompensated Alcoholic Liver Disease: UK Perspective N Summers, S Ramakrishnan	1246
	244. Recent Advances in Medical Management of Portal Hypertension  Sandeep Satsangi, YK Chawla	1251
	245. Organ Transplantation in India: Medicolegal and Ethical Issues Ashok K Taneja, Ravindra Gupta, Hardev Ramandeep Girn, Akshat Taneja	1256
	246. Liver Transplantation in India: Social and Medical Aspects and Current Status  Mohamed Rela, Gomathy Narasimhan	1261
	247. Approach to Obstructive Jaundice: Role of Endoscopic Ultrasound and ERCP Nageshwar Reddy	1265
	VOLUME 3: MEDICINE UPDATE 2016-2	
SECTION 21	GENERAL CARDIOLOGY	
-	248. Epidemiology of Heart Disease in India	1271

		sommet Newton Salest	
SECTION 21	GEN	ERAL CARDIOLOGY	
	248.	Epidemiology of Heart Disease in India Rajeev Gupta, Kulwant Singh	1271
	249.	Management of Congenital Heart Diseases in Adults S Ramakrishnan, Rajiv Kumar	1277
	250.	Acute Rheumatic Fever: Application of Revised Jones Criteria in Indian Context  IB Vijayalakshmi	1284
	251.	Pulmonary Arterial Hypertension (Primary and Secondary): Current Classification and Indian Perspective Jagdish Hiremath, Kaushik Sheth	1289
	252.	Infective Endocarditis in Developing Country Ravi S Math, Shyam S Kothari	1294
	253.	Management of Acute Pulmonary Embolism: Recent Guidelines  Ankur Gupta, Manojkumar Rohit	1303
	254.	Diseases of the Aorta (Dissection, Aneurysm): Therapeutic Options Available in Our Country Sanjay Mehrotra, VS Prakash	1307
	255.	Challenges of Takayasu Arteritis in India Sanjay Tyagi, Manotosh Panja, Prattay Guha Sarkar, Swati Tyagi	1314

	256.	Anemia and Cardiac Diseases in India: Prevalence, Consequence and Management Yash Paul Sharma, Prafull Sharma, Anita Sharma, Kanupriya Vashishth	1323
	257.	Venous Diseases: Role of Pharmacotherapy and Interventions Budnur C Srinivas, Bhupinder Singh	1329
	258.	Interventional Procedures to Salvage Visceral Bleeding Emergencies Sanjiv Sharma, Bishav Mohan	1335
	259.	Impact of Recent Advances in Technology (Devices and Stents) on Practice of Cardiology Mathew Samuel Kalarickal, Vijay Kumar S	1341
	260.	Novel Oral Anticoagulant Drugs: Where and How to Use? Subhash Varma, Uday Yanamandra, Vikas Suri	1351
SECTION 22	ISCH	IEMIC HEART DISEASE	1577
	261.	Chronic Stable Angina: Medical Therapy versus Revascularization VK Bahl, Neeraj Parakh	1361
	262.	Pharmacological Management of Refractory Angina VK Katyal, Abhishek Goyal, Ashima Katyal	1366
	263.	PCI versus CABG: In Search of Best Treatment for Ischemic Heart Disease Prakash P Punjabi, Sajiram Sarvananthan, Jaspal S Kooner	1372
	264.	Bioabsorbable Scaffolds Stents: Current Role in Coronary Interventions and Future Perspective Praveen Chandra, Niraj Gupta	1378
	265.	Use of Chest Pain Protocols to Improve Patient Care Richard A Chazal	1383
	266.	Acute Coronary Syndrome: Management Protocol in Primary and Tertiary Care Setup Tejas Patel, Sanjay Shah	1388
	267.	Dual Antiplatelet Therapy in Various Cardiovascular Disorders: When and how Long to use? Santanu Guha, Dipankar Ghosh Dastidar, Nandita Ghosh Dastidar	1394
	268.	What have we Learned from Acute Coronary Syndrome Registries in India?  PP Mohanan, MN Krishnan	1402
	269.	Thrombolytic Agents: Which, when and how to use in Acute MI?  I Sathyamurthy, K Jayanthi	1410
	270.	Ischemic Preconditioning VN Mishra, Sameer Vyas, Ishan Mishra	1415
	271.	Thrills of Primary Angioplasty in Acute Myocardial Infarction Lekha A Pathak, Salil Shirodkar, Sachin K Patil, Ronak Ruparelia	1421
	272.	Pharmacoinvasive Therapy: A New Paradigm in Management of STEMI in India Sreenivas K Arramraju, Vuppaladadhaim Hariram	1427
	273.	Protocol-based STEMI Management in India Suma M Victor, Thomas Alexander, Ajit Mullasari S	1434
	274.	Management of STEMI in Resource-limited Settings Lekha A Pathak , Salil Shirodkar, Ronak Ruparelia	1438
SECTION 23	HEA	RT FAILURE, CARDIOMYOPATHY AND ARRHYTHMIA	
1547	275.	Heart Failure: Prevalence, Pattern and Profile in India  Ajay Bahl, KK Talwar	1445
	276.	Biomarkers in Heart Failure: An Update  Amal Kumar Banerjee	1449
	277.	A Step Care Management of Systolic Heart Failure Saumitra Ray	1454

		Metabolic Syndrome, Occult Cardiovascular Disease and Diastolic Heart Failure: A Triple Jeopardy HK Chopra, Manmohan Singh	1462
		Angiotensin Receptor Neprilysin Inhibition: A New Paradigm in Cardiovascular Disease Management Kamal K Sethi, Subrato K Datta	1470
	280.	Latest Advances in the Management of Heart Failure with Preserved Ejection Fraction Shibba T Chhabra, Inder S Anand	1473
		Profile and Pattern of Cardiomyopathies in India  Ajay Bahl	1479
	282.	Hypertrophic Cardiomyopathy: Current Concepts PB Jayagopal, Aftab Khan, Jain T Kallarakal, Debabrata Bera	1482
	283.	Cardiac Sarcoidosis/Tuberculosis: Not so Uncommon cause of VT/Cardiomyopathy in our Country  Daljeet K Saggu, C Narasimhan	1489
	284.	Role of Heart Rate in Cardiovascular Diseases Sunil Sathe, Anish Chandarana	1493
	285.	Ventricular Ectopy: Is it Benign or a Predictor of Heart Failure and Death?  Praveg Goyal, Rajesh Vijayvergiya	1496
	286.	Syncope: Causes and Clinical Evaluation Niraj Yadav, Anoop K Gupta	1499
	287.	Algorithm for Syncope Management  IVMR Tammi Raju, Nandan Putti, B Hygriv Rao	1504
	288.	Sudden Cardiac Death: Challenges and Opportunities Sumeet S Chugh	1510
	289.	Newer Investigations for Diagnosis of Rhythm Abnormalities: Éxternal Loop Recorder and Internal Loop Recorder Nayani Makkar, Balbir Singh	1515
	290.	Single Chamber, Dual Chamber and Rate Responsive Pacemakers: Which one in what Indication? Sandeep Thakkar, Arun K Chopra	1518
	291.	Advances in Pacing Modalities: MR Compatibility, Atrial Fibrillation Prevention and the Leadless Pacemakers Vanita Arora	1523
	292.	Role of Complex Devices in Cardiac Disorder: AICD, Cardiac Resynchronization Therapy and Combo Devices Archana Rao, Raj Pradhan	1528
	293.	Atrial Fibrillation: Current Treatment Options SB Gupta	1531
	294.	Warfarin Therapy: Issues in Initiation, Monitoring and Follow-up in day-to-day Practice Sandeep Bansal	1536
	295.	What All is Possible in Electrophysiology and where do We Stand in India?  Anitha Sathishkumar, Naved Aslam, Ulhas Pandurangi, M Khalilullah	1540
ECTION 24	CRI	TICAL CARE	
	296.	Communication with Family of Intensive Care Patients  Vivek Kumar, Vikas Loomba	1547
	297	. Standards of Quality Assurance in Indian ICU Rajesh Pande, Jigeshu Devatia	1551

		Scoring System in Critically III: Does it Help in Prognostication?  Shivakumar Iyer, Jignesh Shah	1554
		Advances in Hemodynamic Monitoring in Intensive Care Unit in India KC Misra, Venkat Raman K	1559
		Optimizing Nutrition in Critically III Ramakrishnan N, Sriram K	1563
		Practical Approach for Management of Electrolyte Disturbances in ICU Sundaram Arulrhaj, Aarathy Kannan, Ajinkya Borhade, Sachin Babhalsure	1567
		Do's and Don'ts in Hyponatremia Bikramjyoti, Ankur Gupta	1573
		Approach to Management of Hyponatremia Sanjay Pandya	1577
	304.	Optimizing Pharmacotherapy in the Critically III Patient Dilip R Karnad, Gauri Saroj	1582
	305.	Anaphylaxis: How Best to Manage Siddharth Marda	1586
	306.	Infections in ICU: Indian Scenario  AP Misra, Rajesh Mahajan	1590
	307.	Simplified Algorithm for ABG Interpretation Pradip Dalvi, Sumit Ray, Sameer Jog	1595
	308.	Arterial Blood Gas Analysis for Physicians  Atul Bhasin	1600
	309.	Acid-base Problems in Diabetic Ketoacidosis  Dinesh Gupta, Gursimran Kaur, Akriti Gupta	1604
	310.	What a Physcian should Know about Mechanical Ventilation? Rajesh Chawla, Updesh Sidhu, Aakanksha Chawla	1607
	311.	Mechanical Ventilation, Difficulty in Weaning: How to Approach?  AP Singh, Gurinder Mohan	1613
	312.	Ventilator-associated Pneumonia A Bhagwati	1618
	313.	Critical Illness Polyneuropathy Gurinder Mohan, AP Singh, Ranjeet Kaur	1623
	314.	Continuous Renal Replacement Therapy in ICU Settings Vivek Gupta, Etienne Macedo, Ravinder L Mehta	1627
	315.	Extracorporeal Membrane Oxygenation: A New Therapeutic  Modality—Where We are in India  Poonam Malhotra, Venkat Goyal, Pranay Oza	1634
	316.	Fungal Infections in the ICU Chandana Reddy, BK Aggarwal	1639
ECTION 25	MED	DICAL DISORDERS IN WOMEN AND PREGNANCY	
	317.	Hypertensive Disorders in Pregnancy: Newer Mechanisms  C Venkata S Ram	1649
	318.	Thyroid Disorders in Pregnancy Lalit K Meher, Sujoy Ghosh	1653
	319.	Rheumatic Diseases in Pregnancy: Common Conundrums Facing Physicians  May Ching Soh	1661

	320.	Obstetric Critical Care: Challenges and Approach Niteen D Karnik, Anish Gupta	1669
	321.	Complex Medical Disorders in Pregnancy  Mandish K Dhanjal	1675
	322.	Drug Doses Adjustment in Pregnancy Deepak Gupta, Pooja Tandon, Gurleen Wander	1682
	323.	Gynecological Cancers: Presentation and Evaluation from a Physician's Perspective Jayanta Chatterjee, Sadaf Ghaem-Maghami	1686
	324.	National Guidelines for Diagnosis of Gestational Diabetes Mellitus V Seshiah, V Balaji, Madhuri S Balaji	1691
SECTION 26	JOU	RNAL CLUB	
	325.	How to Read and Interpret a Journal Article: Biostatistics for the Clinician Tiny Nair	1699
4	326.	Lessons Learnt from Significant Trials in NEJM in Last Three Years: Translating into Practices in India Anupam Prakash, Nirupam Prakash, Nupur Jain	1703
	327.	Lessons Learnt from Significant Trials in Gastroenterology in Last Three Years Vikram Bhatia, Vishal Sharma, Vineet Ahuja	1707
	328.	Lessons Learnt from Significant Recent Trials in Cardiology in Last Three Years S Nagendra Boopathy, Manish Bansal, K Sarat Chandra	1712
	329.	Recent Advances in Neurology Based on Significant RCTs in Last Three Years  Apoorva Pauranik	1718
	330.	Landmark Trials in Cardiology Saurabh Mehrotra, Sundeep Mishra	1725
SECTION 27	GER	RIATRICS	
	331.	Preventive Medicare for the Elderly  Mahesh Marda	1733
	332.	Urinary Incontinence in Elderly  Jyotirmoy Pal, Swati Kumar, Anindya Sarkar	1736
	333.	. Adult Vaccination  Jyotirmoy Pal, Sattick Siddanta, Subhodeep Gupta, Praneet Wander	1742
	334.	Frailty: What Physicians should Know?  Astha Koolwal, Ashish Goel	1748
	335.	. Geriatric Syndromes Dinesh Gupta, Gursimran Kaur, Akriti Gupta	1753
	336.	Dementia In India: Prevalence and Management Suvarna Alladi, Jaydip R Chaudhuri	1759
SECTION 28	GEN	NERAL (SOFT SKILLS AND SOCIAL ASPECTS)	
	337	. What is Health? BM Hegde	1767
	338	. Art and Science of Medicine 2016 Shashank R Joshi	1770
	339	. Importance of Communication Skills for Doctors KK Pareek, Girish Mathur, GD Ramchandani	1775

		Lost Art of Bedside Manners  Anil Chaturvedi	1780
		Challenges Faced by Medical Profession Today  Ajay Kumar	1782
	342.	Legal Issues in Medicine: Present Day Challenges for Indian Physicians KK Aggarwal	1788
	343.	Business Strategy Primer for Physicians  Amit K Ghosh, Karthik Ghosh	1797
	344.	Developing an Emergency Medicine Department in an Indian Nursing Home or Hospital Sarabmeet S Lehl, Angel Rajan Singh, Monica Gupta	1803
	345.	Air Ambulance Services in India: Current Status, Problems and Future Prospects Munish Prabhakar, Geeta Kampani, Rajesh Kakkar	1809
	346.	Evidence-based Medicine Vitull K Gupta, Meghna Gupta, Gurpreet S Wander	1813
	347.	Collaborative Research and the Practicing Clinician Subramanian Shankar	1818
	348.	Drug Interactions in Day-to-Day Clinical Practice: Which One's We Must Keep in Mind Shankar Hotchandani, Chirag Mistry, Kaza Ahluwalia, Uday Bansal	1821
	349.	Preoperative Cardiovascular Evaluation and Perioperative Cardiovascular Medical Management Michael A Mikhail, Arya B Mohabbat, Amit K Ghosh	1827
	350.	Some Recent Issues: E-Cigarettes, Fecal Transplant, Bronchial Thermoplasty, Medical Marijuana Tanu Shweta Pandey	1832
	351.	All Things Flow, Nothing Abides BM Hegde	1837
	352.	The American Medical Association, its Strategic Plan, and the Impact on Health and Health Care in the US Andrew W Gurman	1839
SECTION 29	THE	FUTURE (GENETICS, IT)	
CR1	353.	From Genome to Genetic Medicine: Opportunities and Challenges Narinder K Mehra, Deepali K Bhat, Neeraj Kumar, Ajay K Baranawal	1847
	354.	Cardiovascular Disease in South Asians: Risk Factors, Genetics and Environment  Dharambir K Sanghera, Sunita Dodani	1853
	355.	Genetics in Chronic Medical Disorders Suman Kapur	1859
	356.	Medicine in the Future: Genomes and Smartphones Navjit Dullet, Praneet Wander	1861
	357.	Risk Management in Primary Care (Role of Information Technology)  Gursharan Singh, Gurwinder S Virk	1865
	358.	Smartphones in Medicine: Augmenting Bedside Clinical Skills and Beyond SV Kulkarni, Sagar Sinha, Adhar Kulkarni, Aditya S Kulkarni	1868
	359.	Should Smartphones or Tablets be Used in Front of Patients?  Amitabh Sagar, Harmeet S Dhooria	1874
	360.	Digital Medicine in United States: Implications for Indian Healthcare  Praneet Wander, Ashish Atreja	1879

and reference for	30

MIS		

361.	How to Combat the Threat of Diabetes, Coronary Artery Disease and Stroke in India? Ashok K Das	1887
362.	Diuretics in Hypertension . Kunal Kothari	1890
363.	Hypertension Guidelines: From Confusion to Clarity, Thanks to SPRINT C Venkata S Ram	1895
364.	Rationale and Importance of Combination Drug Therapy in Hypertension Amit A Bharadiya, C Venkata S Ram	1899
365.	Invasive Fungal Infections: Current Concepts  Deven Juneja, Ankur Gupta, Pritam Gupta	1905
366.	Chronic Kidney Disease: Epidemiology and Solutions Anupam Bhel, Gaurav Sagar, Sanjiv Jasuja	1912
367.	Dengue Fever Shibendu Ghosh, Prabuddha Mukhopadhyay, Saumen Bhat	1917
368.	Insulin Therapy in Diabetes Mellitus: When, Which and How? Sudhir Bhandari	1922
369.	Early Aggressive Management of Type 2 Diabetes Shashank R Joshi, Saurabh Arora	1926
370	Controversies in the Treatment of Acute Pancreatitis Rakesh Tandon	1930
371.	How to Interpret Bacterial Load and MIC in Culture Report Smarajit Banik, Sanjay Kumar Mallick	1935
372.	Ultrasonography in Chest Diseases BNBM Prasad, Sudhir Saxena, Monika Goyal	1939
373.	Common Pitfalls in Day-to-Day Management of Diabetes Mellitus Siddharth N Shah	1944
374.	Role of Dual Peroxisome Proliferator-activated Receptor Agonist in Diabetic Dyslipidemia Jayanta K Panda, Prakash C Panda, Smita K Panda	1948
375.	Myths and Pearls in the Management of Rheumatoid Arthritis Sukumar Mukherjee, Somnath Bhar	1951
376.	Management of Hepatic Encephalopathy Rajesh Upadhyay, VK Gupta, Shubhra Gupta, Praneet Wander	1956
377.	Large Vessel Vasculitis Milind Y Nadkar, Madhur Maheshwaari	1961

Index

1965