Contents

Section 1: Mitral Valve

Case 1: 2
Alagic N, Elsayed M, Uygur B, Adarna LG, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Pudussery Kattalan JJ, Nanda NC

Case 2: 3
Roomi AU, Shah A, Siddiqui LI, Elsayed M, Bulur S, Nanda NC

Case 3: 4
Uygur B, Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 4: Giant Left Atrium 5
Abdullah Al Shafi Majumder, AKM Monwarul Islam

Case 5: Rheumatic Severe Mitral Stenosis Percutaneous Mitral Balloon Valvuloplasty (PMBV) 10
Ahmad S Omran

Case 6: 13
Adarna LG, Elsayed M, Alagic N, Uygur B, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Pudussery Kattalan JJ, Nanda NC

Case 7: A Mass by Any Other Name 14
Ronald B Williams, Valentyna Ivanova, Sirikarn Napan, June A Yamrozik, Moneal Shah, Robert WW Biederman

Case 8: 18
Chahwala JR, Elsayed M, Alagic N, Adarna LG, Bhagatwala K, Bulur S, Turaga NSN, Nanda NC

Case 9: 19
Alagic N, Adarna LG, Elsayed M, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Mohamed A, Gupta N, Nanda NC

Case 10: Evaluation of Mitral Regurgitation 20
Naveen Garg, Kanwal K Kapur

Case 11: 22
Bulur S, Nanda NC

Case 12: 24
Alagic N, Elsayed M, Adarna LG, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Mohamed A, Gupta N, Pudussery Kattalan JJ, Nanda NC

Case 13: 25
Adarna LG, Chahwala JR, Elsayed M, Alagic N, Bhagatwala K, Bulur S, Turaga NSN, Mohamed A, Gupta N, Nanda NC

Case 14: Flail Anterior Mitral Valve Leaflet 26
Ahmad S Omran

Case 15: Flail Posterior Mitral Valve Leaflet 28
Ahmad S Omran

Case 16: 30
Nilda Espinola-Zavaleta, Salomon Rivera-Peralta, Hugo Rodriguez-Zanella, Jose Antonio Arias-Godinez, Maria Eugenia Ruiz-Esparza, Nydia Avila-Vanzzini, Juan Francisco Fritche-Salazar, Angel Romero-Cardenas

Case 17: 31
Mohamed A, Gupta N, Elsayed M, Nanda NC

Section 2: Aortic Valve, Aorta

Case 18: 34
Bulur S, Nanda NC

Case 19: 35
Adarna LG, Elsayed M, Chahwala JR, Bhagatwala K, Bulur S, Mohamed A, Gupta N, Nanda NC

Case 20: 36
Bulur S, Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 21: 38
Bulur S, Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 22: 39
Chahwala JR, Adarna LG, Mohamed A, Gupta N, Elsayed M, Bulur S, Alagic N, Nanda NC

Case 23: 40
Gupta N, Mohamed A, Elsayed M, Nanda NC

Case 24: 41
Bulur S, Nanda NC

Case 25: 42
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Taher A, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 26: 44
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 27: 45
Gupta N, Mohamed A, Elsayed M, Nanda NC

Case 28: 46
Gupta N, Mohamed A, Elsayed M, Nanda NC

Case 29: 49
Roomi AU, Shah A, Siddiqui LI, Elsayed M, Bulur S, Nanda NC

Case 30: A Patient with Severe Chest Pain 50
Hanumanth K Reddy, Raghuveer Kura, Dawn Hui, William M Pelton, Nishchayjit Basra

Case 31: 53
Elsayed Abo-Salem, Angel Lopez-Candales

Case 32: A Present from Nigeria 54
Inga Vaitenas, Zeina Ibrahim, Kameswari Maganti

Case 33: 58
Adarna LG, Nanda NC

Case 34: 59
Roomi AU, Shah A, Siddiqui LI, Gupta N, Mohamed A, Nanda NC

Case 35: Bicuspid Aortic Valve, Coarctation of the Aorta, Dissecting Aneurysm of the Ascending Aorta 60
Ahmad S Omran

Case 36: 63
Ahmed MI, Crosland WA, Gok G, Yuzbas B, Elguindy M, Esmat Ahmed AH, Tuck BC, Alli OO, McMahon WS, Nanda NC

Case 37: 65
Elsayed M, Gupta N, Mohamed A, Nanda NC

Section 3: Tricuspid and Pulmonary Valves, Pulmonary Hypertension

Case 38: 68
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 39: Severe Secondary Tricuspid Regurgitation.....69
Ahmad S Omran

Case 40: 71
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 41: 72
Gupta N, Mohamed A, Elsayed M, Nanda NC

Case 42: 73
Elsayed M, Thind M, Nanda NC

Case 43: 76
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 44: 77
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Bulur S, Nanda NC

Case 45: 78
Bulur S, Nanda NC

Case 46: 79
Bulur S, Nanda NC

Case 47: 80
Taher A, Elsayed M, Nanda NC

Case 48: 81
Bulur S, Nanda NC

Case 49: 82
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 50: 83
Mohamed A, Gupta N, Elsayed M, Nanda NC

Section 4: Prostheses, Rings and Clips

Case 51 86
Chahwala JR, Celiker E, Bulur S, Nanda NC

Case 52 A Prosthetic Mitral Valve Case with Fever and LBBB 87
Sibel Catirli Enar

Case 53 88
Elsayed M, Nanda NC

Case 54 History 89
Padmini Varadarajan

Case 55 Prosthetic Valve Thrombosis: A Complex Disorder that Requires Careful Imaging 91
Nishath Quader, Hyde M Russell, Sheridan Meyers, Vera H Rigolin

Case 56: Prosthetic Mitral Valve Obstruction: Real-Time Three-dimensional Transesophageal Echocardiography-Guided Diagnosis and Management 95
Rajesh Janardhanan

Case 57: Accelerated Bioprosthetic Mitral Valve Degeneration Resulting in Severe Mitral Stenosis 97
Ahmad S Omran

Case 58 99
Chisato Izumi

Case 59 History 102
Madeline Jankowski, Daniel R Schimmel, Vera H Rigolin

Case 60 Mechanical Mitral Valve Dehiscence, Severe Paravalvular Leak 106
Ahmad S Omran

Case 61 TEE in Mitral Valve Repair and Persistent Microangiopathic Hemolytic Anemia 109
John D Groarke, Judy R Mangion

Case 62 111
Adarna LG, Chahwala JR, Celiker E, Bulur S, Nanda NC

Case 63 112
Bulur S, Nanda NC

Case 64 Mitral Annuloplasty Ring Dehiscence 113
Ahmad S Omran

Case 65 116
Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bulur S, Nanda NC

Case 66 ..... *117*
Elsayed M, Alli O, Adarna LG, Alagic N, Uygur B, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Kattalan JJ, Nanda NC

Case 67 ..... *118*
Bulur S, Nanda NC

Case 68 ..... *119*
Bulur S, Elsayed M, Nanda NC

Case 69 ..... *120*
Adarna LG, Elsayed M, Uygur B, Alagic N, Chahwala JR, Bhagatwala K, Bulur S, Turaga NSN, Kattalan JJ, Nanda NC

Case 70 Mitraclip Repair in Degenerative Mitral Valve Disease *121*
Ahmad S Omran

Case 71 Mitraclip Detachment *124*
Ahmad S Omran

Case 72 ..... *127*
Adarna LG, Nanda NC

Case 73 Premature Degeneration of Bioprosthetic Aortic Valve *128*
Jaehoon Chung, Leon J Frazin

Case 74 Rocking Valve *130*
Armin Barekatain, Ahmed Abuzaid, Aiman Smer

Case 75 ..... *132*
Fabiola B Sozzi, Francois Bourlon

Case 76 Failed Transcatheter Aortic Valve Replacement (TAVR) *134*
Ahmad S Omran

Case 77 Bioprosthetic Aortic Valve Endocarditis *136*
Ahmad S Omran

Case 78 ..... *139*
Roomi AU, Shah A, Siddiqui LI, Gupta N, Mohamed A, Nanda NC

Case 79 Abstract *140*
Ibrahim Osman, Robert Hartman, C Bogdan Marcu, Rajasekhar Nekkanti

Section 5: Endocarditis

Case 80 Hemodynamics in the ICU *146*
Naveen Garg, Kanwal K Kapur

Case 81 Transesophageal Three-Dimensional Echocardiography in Mitral Valve Endocarditis *150*
Arnav Kumar, Masood Ahmad

Case 82 Infective Endocarditis of Mitral Valve *152*
Ahmad S Omran

Case 83 Infective Endocarditis Complicated with Acute Pulmonary Edema 154
Aiman Smer, Muhammad Soubhi Azzouz

Case 84 156
Dinesh Gautam, Rahul Choudhary, Gaurav Singhal, Kotti K, Aashish Agarwal, Elsayed M, Nanda NC

Case 85 Multimodality Imaging for a Mitral Valve Mass 158
Moneal Shah, Robert WW Biederman

Case 86 Severe Cardiac Compromise due to Skin Infection (Pediatric Patient) 160
José Carlos Armendariz Ferrari, Yudy Miluska Roldan Concha, Alfredo Sotomayor Estrada

Case 87 Papillary Muscle Rupture Versus Fungal Mass 164
Naveen Garg, Kanwal K Kapur

Case 88 167
Pizzano Nelson

Case 89 169
Uygur B, Bulur S, Nanda NC

Case 90 170
Bulur S, Elsayed M, Nanda NC

Case 91 173
Gulotta JC, Gaba S, Bulur S, Joson M, Sungur A, Nanda NC

Section 6: Coronary Artery Disease

Case 92 176
Guler EC, Nanda NC

Case 93 177
Elkaryoni A, Arisha MJ, Barssoum K, Mohamed A, Nanda NC

Case 94 178
Taher A, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bulur S, Nanda NC

Case 95 179
Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 96 180
Alagic N, Adarna LG, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Bulur S, Nanda NC

Case 97 181
Adarna LG, Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Nanda NC

Case 98 182
Kul Aggarwal, Archana Vasudevan, Sudarshan Balla

Case 99 Inferior Wall Pseudoaneurysm following Myocardial Infarction 184
Tuan Mai, Craig Broberg, Luke Burchill

Case 100 LV Pseudoaneurysm 186
Arash Seratnahaei, Vincent L Sorrell

Case 101 188
Virginia Michelis

Case 102 192
Adarna LG, Elsayed M, Taher A, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Bulur S, Nanda NC

Case 103 Post-Myocardial Infarction Septal Rupture (Post MI VSD) 193
Ahmad S Omran

Case 104 Rupture of Papillary Muscle following Reperfusion....195
Marina Leitman, Boris Orlov, Eli Peleg, Zvi Vered

Case 105 199
Roomi AU, Shah A, Siddiqui LI, Elsayed M, Bulur S, Nanda NC

Case 106 201
Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bulur S, Nanda NC

Case 107 202
Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bulur S, Nanda NC

Case 108 204
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Bulur S, Nanda NC

Case 109 Large Mass Compressing the Right Ventricular Outflow Tract 205
Alok Saurav, Aiman Smer

Case 110 207
Roomi AU, Shah A, Siddiqui LI, Gupta N, Mohamed A, Nanda NC

Case 111 208
Mohamed A, Gupta N, Elsayed M, Nanda NC

Section 7: Left Ventricle, Right Ventricle and Cardiomyopathy

Case 112: Short of Breath....210
Ramdas G Pai

Case 113: 212
Alagic N, Adarna LG, Chahwala JR, Elsayed M, Uygur B, Turaga NSN, Bulur S, Bhagatwala K, Elkaryoni A, Arisha MJ, Nanda NC

Case 114: 213
Chahwala JR, Elsayed M, Alagic N, Adarna LG, Bhagatwala K, Bulur S, Turaga NSN, Nanda NC

Case 115: 214
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 116: 215
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Bulur S, Nanda NC

Case 117: 216
Anastasia Vamvakidou, Roxy Senior

Case 118: 217
Bhagatwala K, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 119: 218
Bulur S, Elsayed M, Nanda NC

Case 120: 219
Bulur S, Nanda NC

Case 121: 220
Alagic N, Nanda NC

Case 122: 221
Bulur S, Nanda NC

Case 123: 222
Chahwala JR, Bhagatwala K, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Bulur S, Nanda NC

Case 124: 223
Arisha MJ, Elkaryoni A, Nanda NC

Case 125 224
Bulur S, Nanda NC

Case 126 Echo Guided Versus Adaptive CRT Optimization 225
Ghazwan Elias, Mohammed Hasoon, Christian S Breburda

Case 127 228
Sridhar Venkatachalam, Masood Ahmad

Case 128 230
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 129 231
Adarna LG, Bulur S, Alagic N, Uygur B, Nanda NC

Case 130 232
Gupta N, Mohamed A, Elsayed M, Nanda NC

Case 131 233
Andre Dias, Nikoloz Koshkelashvili, Aman Amanullah

Case 132 Chest Pain and Shortness of Breath in a Physician 235
Hanumanth K Reddy, Raghuveer Kura, Rakesh Sharma, Ravi Komatireddy, Nishchayjit Basra

Case 133 237
Claudia Carolina Cajas-Morales, Nilda Espinola-Zavaleta, Jose Antonio Arias-Godinez, Juan Francisco Fritche-Salazar, Nydia Avila-Vanzzini, Maria Eugenia Ruiz-Esparza, Angel Romero-Cardenas, Maria Del Sol Ordaz

Case 134 239
Bulur S, Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Nanda NC

Case 135 240
Mohamed A, Gupta N, Elsayed M, Taher A, Nanda NC

Case 136 Non-Compaction Cardiomyopathy with LV Thrombus 241
Supawat Ratanapo, Gyanendra K Sharma

Case 137 243
Bulur S, Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 138 244
Bulur S, Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 139 245
Bulur S, Nanda NC

Case 140 247
Taher A, Elsayed M, Adarna LG, Bulur S, Nanda NC

Case 141 248
Mark H Goldberger, Stephen Helmke

Case 142 Patient HH Presentation 255
Amgad N Makaryus

Case 143 Echo in Carcinoid Heart Disease 259
Yuchi Han, Martin St John Sutton

Case 144 262
Bhagatwala K, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 145 Hypertrophic Cardiomyopathy 263
Ashley Nickerson, Vincent L Sorrell

Case 146 265
Elsayed M, Gupta N, Mohamed A, Nanda NC

Case 147 266
Thind M, Joson M, Gaba S, Elsayed M, Bulur S, Guvenc T, Elguindy M, Nanda NC

Case 148 Thick Heart with Fast Rhythm 269
Aiman Smer, Amjad Kabach

Case 149 271
Bulur S, Elsayed M, Nanda NC

Case 150 272
Anastasia Vamvakidou, Roxy Senior

Case 151 273
Elsayed M, Thind M, Joson M, Chahwala JR, Nanda NC

Case 152 274
Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 153 275
Bulur S, Nanda NC

Section 8: Pericardial Disorders

Case 154 278
Ajay Jindal

Case 155 279
Taher A, Elsayed M, Bulur S, Nanda NC

Case 156 280
Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 157 281
Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 158 Echo Free Space Misdiagnosed as Pericardial Effusion 282
Tevfik Fikret Ilgenli

Case 159 285
Bulur S, Elsayed M, Nanda NC

Case 160 286
Bulur S, Nanda NC

Case 161 Constrictive Pericardial Disease 287
Juliet Ryan, Nicholas Furiasse, Michael Cuttica, Hyde Russell, Vera H Rigolin

Case 162 290
Edgar Argulian, Farooq Chaudhry

Case 163 Right Diagnosis 293
Naveen Garg, Kanwal K Kapur

Case 164 Constrictive Pericarditis 295
Ahmad S Omran

Case 165 298
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 166 299
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 167 300
Bulur S, Nanda NC

Case 168 301
Elsayed M, Nanda NC

Case 169 302
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 170 303
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 171 304
Bulur S, Adarna LG, Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Taher A, Mohamed A, Arisha MJ, Elkaryoni A, Nanda NC

Section 9: Tumors and Masses

Case 172 306
Mohamed Ayan, Jitendra Pandya, Aiman Smer

Case 173 307
Roomi AU, Elsayed M, Bulur S, Nanda NC

Case 174 309
Elsayed M, Kalra R, Mustafa IA, Uygur B, McGiffin DC, Chahwala JR, Nanda NC

Case 175 311
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 176 Filling Defect or Lack of Flow? 312
Soung Ick Cho, Zarina Alam, Alma Tozaj , Mohsin Alam

Case 177 History 316
Ramdas G Pai

Case 178 318
Elsayed M, Hsiung MC, Meggo-Quiroz LD, Elguindy M, Uygur B, Tandon R, Guvenc T, Keser N, Vural MG, Bulur S, Chahwala JR, Abtahi F, Nanda NC

Case 179 320
Thind M, Ahmed MI, Gok G, Joson M, Elsayed M, Tuck BC, Townsley MM, Klas B, McGiffin DC, Nanda NC

Case 180 Thrombus in Transit 324
Omer Iqbal, Paul O'Malley

Case 181 Left Retinal Vein Occlusion in Sinus Rhythm 326
Sibel Catirli Enar

Case 182 An Uncommon Case of Left Atrial Appendage Thrombus During Dabigatran Therapy 328
Pasquale Palmiero, Annapaola Zito, Fiorella Devito, Roberta Romito, Maurizio Campaniello, Ottavio Di Cillo, Maria Maiello, Marco Matteo Ciccone

Case 183 330
Giove GC, Singla I, Mishra J, Nanda NC

Case 184 332
Taher A, Elsayed M, Nanda NC

Case 185 Right Atrial Myxoma 333
Ahmad S Omran

Case 186 Hemoptysis During Pregnancy 335
Desiree M Younes, Smadar Kort

Case 187 Left Atrial Myxoma 339
Ahmad S Omran

Case 188 LA Myxoma 341
Roomi AU, Elsayed M, Bulur S, Nanda NC

Case 189 Incidental Finding of Left Atrial Mass *342*
Muhammad Soubhi Azzouz, Aiman Smer

Case 190 Unusual Anatomic Location of a Left Atrial Myxoma *343*
Ahmad S Omran

Case 191 Evaluation of LV Mass *346*
Naveen Garg, Kanwal K Kapur

Case 192 Mitral Valve Fibroelastoma (A "Sea Anemone" within the Heart) *349*
Ahmad S Omran

Case 193 What is Around the Mitral Valve? *352*
Alberto Barón Castañeda

Case 194 Papillary Fibroelastomas *355*
Jiang Leng, Mara Slawsky

Case 195 History *357*
Rajiv Patel, Jayant Patel, Julius M Gardin

Case 196 Thymoma *359*
Elsayed M, Hsiung MC, Kalra R, Mustafa IA, Uygur B, Chahwala JR, Nanda NC

Case 197 Lymphoma *360*
Thind M, Hsiung MC, Gok G, Elsayed M, Joson M, Nanda NC

Case 198 Left Atrial Mass *365*
Daniel W Groves, Robert A Quaife, Amber D Khanna, Ernesto E Salcedo

Case 199 A Duck in the Heart? *367*
Inga Vaitenas, Nicholas Furiasse, Kameswari Maganti

Case 200 An Unusual Case of Renal Cell Carcinoma with a Distant Right Ventricular Metastasis and without Vena Cava Inferior Involvement *370*
Mustafa Gökhan Vural, Murat Aksoy, Sabiye Sevinç, Saadet Demirtaş, Türker Pabuçcu, Harun Kiliç, Ramazan Akdemir, Ersan Tatli, Nurgül Keser

Case 201 Unusual Chest Pain *373*
José Carlos Armendáriz Ferrari

Case 202 A Rare Case of Pedunculated LV Hemangioma Evaluated by 3D Echocardiography and Compared with Myxoma *377*
Naveen Garg, Kanwal K Kapur

Case 203 Multiple Intracardiac Masses Presented with Complete Heart Block *381*
Mohamed Ayan, Mohsin Salih

Case 204 ..... *382*
Roomi AU, Shah A, Siddiqui LI, Gupta N, Mohamed A, Nanda NC

Case 205 ..... *383*
Leng Jiang

Case 206 ..... *388*
Bulur S, Nanda NC

Case 207 389
Mohamed A, Elsayed M, Kalra R, Bulur S, Nanda NC, Arisha MJ, Elkaryoni A, Mohamed AH, Gupta N

Case 208 391
Roomi AU, Elsayed M, Bulur S, Nanda NC

Case 209 392
Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bhagatwala K, Nanda NC

Section 10: Congenital Heart Disease

Case 210 394
Alagic N, Nanda NC

Case 211 395
Bulur S, Arisha MJ, Nanda NC

Case 212 398
Susan T Laing, Beverly Smulevitz

Case 213 400
Sudarshan Balla, Archana Vasudevan, Kul Aggarwal

Case 214 402
Gautam D, Choudhary R, Singhal G, Kotti K, Agarwal A, Elsayed M, Nanda NC

Case 215 404
Chahwala JR, Elsayed M, Alagic N, Uygur B, Turaga NSN, Adarna LG, Bulur S, Nanda NC

Case 216 Ventricular Septal Defect 405
Gyanendra K Sharma

Case 217 407
Naveen Garg, Kanwal K Kapur

Case 218 410
Kasprzak Jaroslaw

Case 219 412
Ahmed MI, Gok G, Yuzbas B, Burkhart J, Escañuela MGA, Alli OO, Nanda NC

Case 220 414
Bulur S, Turaga NSN, Kalla A, Elsayed M, Alagic N, Uygur B, Chahwala JR, Adarna LG, Nanda NC

Case 221 416
Murzilli Romina, Leo Laura Anna, Faletra Francesco

Case 222 Echocardiographic Diagnosis of Coronary Artery Fistula 418
Tao Yu Lee, Shoa-Lin Lin

Case 223 421
Jose Ricardo FP, Kishan Jasti, Robert WW Biederman, Rachel Hughes-Doichev

Case 224 Clinical History 424
Shelley Sarson, Sanjiv J Shah, Jyothy John Puthumana

Case 225 428
Daniel W Groves, Amber D Khanna, Robert A Quaife, Ernesto E Salcedo

Case 226 431
Armin Baraktain, Ahmed Abuzaid, Aiman Smer

Case 227 Discrete Subaortic and Aortic Stenosis....432
Saurabh Sharma, Aman Amanullah

Case 228 Transthoracic 3D Echocardiography in Assessment of Stented Coarctation of Aorta 434
Arnav Kumar, Masood Ahmad

Case 229 Absent Pulmonary Valve Syndrome....437
Claudia Carolina Cajas-Morales, Nilda Espinola-Zavaleta, Jose Antonio Arias-Godinez, Juan Francisco Fritche-Salazar, Nydia Avila-Vanzzini, Maria Eugenia Ruiz-Esparza, Angel Romero-Cardenas, Maria del Sol Ordaz

Case 230 439
Ramdas G Pai

Case 231 440
Sangeeta Shah

Case 232 441
Sozzi B Fabiola, Iacuzio Laura

Case 233 Ebstein's Anomaly....443
Roomi AU, Elsayed M, Bulur S, Arisha MJ, Nanda NC

Case 234 Young Adult with Cyanotic Congenital Heart Disease....445
Vidya Nadig, Anurag Sahu, Vincent L Sorrell

Case 235 Dyspnea and a Mass in the Heart Leading to a Diagnosis of a Rare Congenital Heart Defect....447
Megan Y Kamath, Rachel Hughes-Doichev

Case 236 450
Alagic N, Elsayed M, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Bulur S, Nanda NC

Case 237 451
Susan T Laing, Beverly Smulevitz

Case 238 Transposition of the Great Arteries (D-TGA) with Previous Mustard/Senning Operation 453
Ahmad S Omran

Case 239 456
Salomon Rivera-Peralta, Nilda Espinola-Zavaleta, Hugo Rodriguez-Zanella, Jose Antonio Arias-Godinez, Maria Eugenia Ruiz-Esparza, Nydia Avila-Vanzzini, Juan Francisco Fritche-Salazar, Angel Romero-Cardenas

Case 240 Congenitally Corrected Transposition of the Great Arteries (L-TGA), Tricuspid Valve Replacement....458
Ahmad S Omran

Case 241 461
Mohamed Morsy, Patricia Rodriguez Lozano, Luba Frank, Shreyas Modi, Masood Ahmad

Case 242 465
Hugo Zanella, Nilda Espinola-Zavaleta, Salomon Rivera-Peralta, Jose Antonio Arias-Godinez, Nydia Avila-Vanzzini, Maria Eugenia Ruiz-Esparza, Juan Francisco Fritche

Case 243 467
Leo Laura Anna, Murzilli Romina, Faletra Francesco

Case 244 469
Arisha MJ, Mohamed AH, Elkaryoni A, Barssoum K, Mohamed A, Ibrahim D, Tageldin M, Gupta N, Nanda NC

Case 245 Echocardiographic Diagnosis of a Rare Cardiac Anomaly 470
Aditi Naniwadekar, Olayinka Afolabi-Brown, Aman Amanullah

Case 246 474
Roomi AU, Elsayed M, Bulur S, Nanda NC

Case 247 Left Sided SVC 476
Roomi AU, Elsayed M, Bulur S, Adarna LG, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Nanda NC

Section 11: Miscellaneous

Case 248 480
Alagic N, Chahwala JR, Adarna LG, Bhagatwala K, Uygur B, Turaga NSN, Elsayed M, Bulur S, Arisha MJ, Nanda NC

Case 249 482
Nanda NC, Bulur S

Case 250 483
Bulur S, Nanda NC

Case 251 484
Adarna LG, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Bhagatwala K, Taher A, Mohamed A, Gupta N, Bulur S, Arisha MJ, Nanda NC

Case 252 485
Mohamed A, Gupta N, Elsayed M, Nanda NC

Case 253 486
Bulur S, Nanda NC

Case 254 487
Bulur S, Nanda NC

Case 255 Curious Case of Three Continuous-Wave Doppler Envelopes; The Triphasic Valve Sign....488
Sourabh Prabhakar, Robert WW Biederman

Case 256 491
Bulur S, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Nanda NC

Case 257 492
Taher A, Elsayed M, Alagic N, Uygur B, Turaga NSN, Chahwala JR, Adarna LG, Taher A, Mohamed A, Gupta N, Bulur S, Nanda NC

Case 258 493
Syed Arman Husain, Robert WW Biederman

Case 259 495
Nanda NC, Mohamed A, Arora G, Mahajan A, Sankhyan P, Joson M, Elsayed M

Case 260 496
Mohamed A, Arora G, Mahajan A, Sankhyan P, Joson M, Elsayed M, Nanda NC

Case 261 497
Mohamed A, Arora G, Mahajan A, Sankhyan P, Joson M, Elsayed M, Nanda NC

Case 262 498
Nanda NC, Arora G, Mohamed A, Mahajan A, Sankhyan P, Joson M, Elsayed M

Case 263 499
Bulur S, Elsayed M, Nanda NC

Case 264 500
Nanda NC, Keser N, Mohamed A, Arora G, Mahajan A, Sankhyan P, Joson M, Elsayed M

Case 265 501
Mohamed A, Arora G, Mahajan A, Sankhyan P, Joson M, Elsayed M, Nanda NC

Case 266 502
Arora G, Mohamed A, Elsayed M, Nanda NC

Case 267 503
Arora G, Mohamed A, Elsayed M, Arisha MJ, Nanda NC

Case 268 504
Nanda NC, Mohamed A, Elsayed M

Case 269 509
Mohamed A, Arora G, Kemaloglu Ozkt, Mahajan A, Sankhyan P, Joson M, Elsayed M, Arisha MJ, Nanda NC

Case 270 Clinical Presentation 510
Smadar Kort

Case 271 512
Virginia Michelis

Case 272 516
Rohit Tandon, Ravinder Pal Singh, Maninder Singh

Case 273 517
Nanda NC, Mohamed A, Keser N, Arora G, Mahajan A, Sankhyan P, Joson M, Gok G, Elsayed M

Case 274 518
Elsayed M, Nanda NC

Case 275 519
Choudhary R, Gautam D, Mohamed A, Elsayed M, Nanda NC

Case 276 520
Virginia Michelis

Case 277 523
Roomi AU, Shah A, Siddiqui LI, Gupta N, Mohamed A, Arisha MJ, Nanda NC

Case 278 524
Shah A, Roomi AU, Siddiqui LI, Gupta N, Mohamed A, Nanda NC

Case 279 525
Nanda NC, Elsayed M

Case 280 526
Sangeeta Shah

Case 281 528
Sridhar Venkatachalam, Masood Ahmad

Case 282 531
Elsayed Abo-Salem, Sherif Sakr

Index 533