

Contents

SECTION 1: ARTIFICIAL INTELLIGENCE

- | | |
|---|---|
| 1. Artificial Intelligence: General Approach | 3 |
| 2. Artificial Intelligence: Application in Cardiology | 6 |

SECTION 2: HYPERTENSION

- | | |
|--|----|
| 3. Essential Hypertension: General Approach | 13 |
| 4. Essential Hypertension: Management | 16 |
| 5. Secondary Hypertension: General Approach | 19 |
| 6. Secondary Hypertension: Obstructive Sleep Apnea | 21 |
| 7. Renal Hypertension: Chronic Kidney Disease | 24 |
| 8. Renal Hypertension: Renovascular Hypertension | 28 |
| 9. Secondary Hypertension: Primary Aldosteronism | 32 |
| 10. Secondary Hypertension: Pheochromocytoma | 35 |
| 11. Secondary Hypertension: Cushing's Syndrome | 39 |
| 12. Resistant Hypertension | 42 |

SECTION 3: DYSLIPIDEMIA

- | | |
|------------------------------------|----|
| 13. Dyslipidemia: General Approach | 47 |
| 14. Dyslipidemia: Management | 51 |

SECTION 4: CORONARY ARTERY DISEASE

- | | |
|--|----|
| 15. Atherosclerotic Coronary Artery Disease: Definition | 57 |
| 16. Non-ST-segment Elevation Myocardial Infarction: Approach | 59 |
| 17. Non-ST Elevated Myocardial Infarction: Medical Management | 62 |
| 18. Non-ST Elevated Myocardial Infarction: Invasive Management | 66 |

19. Unstable Angina: Present Status and Management	68
20. Acute ST-elevation Myocardial Infarction: Reperfusion	70
21. ST-elevation Myocardial Infarction: Predischage and Postdischarge Program	75
22. Coronary Artery Disease: Chronic Coronary Syndrome	79
23. Coronary Artery Disease: Special Situations–Myocardial Infarction with Nonobstructive Coronary Artery	85
24. Coronary Artery Disease: Special Situations–Spontaneous Coronary Artery Dissection	87
25. Special Situations Chronic Kidney Disease and Coronary Artery Disease	89
26. Coronary Artery Bypass Graft Surgery: What the Cardiologist Should Know?	92

SECTION 5: HEART FAILURE

27. Heart Failure: Definition and Types	97
28. Heart Failure: Clinical Assessment	99
29. Management of Heart Failure with Reduced Ejection Fraction	101
30. Heart Failure Variants	104
31. Advanced Heart Failure	109
32. Advanced Heart Failure: Cardiac Device Therapy	112
33. Acute Heart Failure: Approach	116
34. Acute Heart Failure: Management	119
35. Heart Failure: Special Situation	124

SECTION 6: PULMONARY HYPERTENSION

36. Pulmonary Hypertension: Basic Approach	129
37. Pulmonary Hypertension: Management Algorithm	134

SECTION 7: MYOCARDITIS AND CARDIOMYOPATHY

38. Myocarditis	143
39. Peripartum Cardiomyopathy	148
40. Arrhythmogenic Right Ventricular Cardiomyopathy	152

- | | |
|---|------------|
| 41. Takotsubo Syndrome | 158 |
| 42. Noncompaction Cardiomyopathy | 161 |

SECTION 8: INFECTIVE AND AUTOIMMUNE DISEASE

- | | |
|--|------------|
| 43. Rheumatic Fever: Approach | 167 |
| 44. Acute Rheumatic Fever: Management | 169 |
| 45. Infective Endocarditis: General Approach | 172 |
| 46. Infective Endocarditis: Diagnostic Criteria | 176 |
| 47. Infective Endocarditis: Management | 180 |

SECTION 9: ATRIAL FIBRILLATION

- | | |
|---|------------|
| 48. Atrial Fibrillation: Basic Approach | 185 |
| 49. Atrial Fibrillation: Management | 189 |
| 50. Atrial Fibrillation Management: Special Situations | 194 |

SECTION 10: SYNCOPE

- | | |
|--------------------------------------|------------|
| 51. Syncope: General Approach | 201 |
| 52. Syncope: Management | 205 |

SECTION 11: PRIMARY ELECTRICAL ABNORMALITY

- | | |
|--|------------|
| 53. Primary Electrical Abnormality: Cardiac Channelopathy | 213 |
| 54. Primary Electrical Abnormality: Congenital Long QT Syndrome | 214 |
| 55. Primary Electrical Abnormality: Short QT Syndrome | 218 |
| 56. Primary Electrical Abnormality: Brugada Syndrome | 220 |
| 57. Primary Electrical Abnormality: Catecholaminergic Polymorphic Ventricular Tachycardia | 224 |
| 58. Primary Electrical Abnormality: Early Repolarization Syndrome | 226 |

SECTION 12: SUDDEN CARDIAC DEATH

59. Sudden Cardiac Death: General Approach	231
60. Sudden Cardiac Death in General Population	234
61. Sudden Cardiac Death in Dilated Cardiomyopathy	237
62. Sudden Cardiac Death in Ischemic Cardiomyopathy	239
63. Sudden Cardiac Death in Hypertrophic Cardiomyopathy	243

SECTION 13: CARDIO-ONCOLOGY

64. Cardio-Oncology: General Approach	249
65. Cardio-Oncology: Chemotherapy	253
66. Cardio-Oncology: Radiation Therapy	257

SECTION 14: GERIATRIC CARDIOLOGY

67. Degenerative Cardiovascular Disease	263
68. Cardiac Cachexia and Falls in Cardiovascular Disease	270
69. Sarcopenia, Frailty, and Cardiovascular Disease	273

SECTION 15: SPORT CARDIOLOGY

70. Sport Cardiology and Athlete's Heart	279
71. Sudden Cardiac Death in Athlete	281

SECTION 16: ACUTE VASCULAR SYNDROME

72. Acute Pulmonary Embolism: General Approach	287
73. Acute Pulmonary Embolism: Management	290
74. Acute Aortic Syndrome: Approach	293
75. Acute Aortic Syndrome: Imaging and Management	296
76. Acute Limb Ischemia: General Approach	300
77. Acute Limb Ischemia: Imaging and Management	303