

Table of Contents

Introduction	7
Supervision of Diagnostic Tests	12
Supervision of Therapeutic Services	14
Professional and Technical Components	16
Multiple Procedure Payment Reduction.....	17
Hospital Billing for Implanted Devices.....	18
Discontinued Procedures	21
Moderate Sedation	23
Evaluation and Management Services	26
Anticoagulation Management	27
Cardiac Monitoring Devices	29
Holter Monitors.....	30
Mobile Cardiovascular Telemetry	32
Cardiac Event Recorders	34
Subcutaneous cardiac rhythm monitors.....	37
Pulmonary Artery Pressure Monitoring	38
Other Diagnostic Tests	39
Microvolt T-Wave Alternans Testing	43
Cardiovascular Stress Testing.....	44
Tilt Table Testing.....	47
Six-Minute Walk Test	48
Echocardiography	49
Bioimpedance	62
Nuclear Cardiovascular Exams	63
Cardiac CT and CTA.....	70
Pacemakers	73
Temporary Pacemakers	78
Transvenous & Epicardial Pacemakers	79
Leadless Pacemaker Systems	89
Cardiac Contractility Modulation	91
Wireless Cardiac Stimulation System for Left Ventricular Pacing	91
Implantable Defibrillators	105
Medicare Coverage and Payment	107
ICD Procedure Coding	112
S-ICD Procedure Coding.....	133
Wearable Cardioverter-Defibrillator	136
Device Interrogation and Programming	137
Transtelephonic Pacemaker Monitoring	1442
Analysis of Antitachycardia Pacemaker.....	144
AV and VV Optimization	145

Table of Contents

Electrophysiology Services	149
Diagnostic EP Studies	150
Catheter Ablation	156
EP Follow-Up Studies	165
Documentation of Electrophysiology Procedures	167
Cardiac Catheterization	185
Non-CHD Cardiac Catheterization.....	187
Catheterization for CHD	194
Pharmacologic Agent Administration	199
Exercise Challenge Tests.....	201
Swan-Ganz Catheterization.....	202
Other Procedures	204
Endovascular Imaging.....	206
Coronary Flow Reserve Measurement	208
Endomyocardial Biopsy	209
Percutaneous Cardiac Interventions	221
Angioplasty, Atherectomy, and Stent Placement	225
Bypass Graft Interventions	231
Intervention for Acute MI	236
Chronic Total Occlusion	239
Coronary Thrombectomy.....	241
Coronary Thrombolysis	243
Intravascular Brachytherapy	244
Intra-Aortic Balloon Pump.....	245
Percutaneous Ventricular Assist Devices	247
Closure of Septal Defects.....	249
Procedures for Patent Ductus Arteriosus.....	250
Septal Reduction Therapy	252
Transcatheter Aortic Valve Replacement	254
Transcatheter Pulmonary Valve Replacement.....	258
Transcatheter Mitral Valve Repair	260
Mitral Valve Implantation/Replacement	262
Closure of Paravalvular Leak	263
Closure of Left Atrial Appendage.....	265
Peripheral Vascular Procedures	275
General Definitions.....	276
Arterial Catheter Placement Codes	278
Arterial Anatomy.....	280
Catheterization Coding Guidelines	283
Aortography.....	286
Selective Renal Arteriograms	287
Visceral Arteriograms	290
Lower Extremity Arteriograms	291
Pelvic Arteriograms	294
Peripheral Angiography with Heart Cath	295

Table of Contents

Peripheral Interventions	307
Revascularization	310
Iliac Revascularization.....	316
Femoral/Popliteal Revascularization	319
Tibial/Peroneal Revascularization	321
Renal and Visceral Angioplasty	324
Renal and Visceral Stent Placement	326
Renal and Visceral Atherectomy	328
Renal Denervation.....	329
Peripheral Mechanical Thrombectomy	330
Peripheral Intravascular Ultrasound	333
Index	344