

Table of Contents

HOW TO USE THIS BOOK—	1
INTRODUCTION—	3
CODING BASICS—	7
PHYSICIAN PAYMENT BASICS—	39
HOSPITAL OUTPATIENT PROSPECTIVE PAYMENT SYSTEM (HOPPS)—	49
BASIC INTERVENTIONAL RADIOLOGY CODING RULES—	55
DIAGNOSTIC ANGIOGRAPHY CODING—	65
CERVICOCEREBRAL ANGIOGRAPHY—	65
<i>Cervicocerebral Arch Angiography—</i>	67
<i>Carotid Cervical Angiography—</i>	71
<i>Carotid Cerebral Angiography—</i>	74
<i>Vertebral Angiography—</i>	77
<i>External Carotid Angiography—</i>	80
<i>Cervicocerebral Variations—</i>	83
<i>Anatomic Variations—</i>	84
DESCENDING THORACIC AORTA ANGIOGRAPHY—	88
<i>Spinal Angiography—</i>	91
<i>Internal Mammary Angiography—</i>	94
<i>Bronchial Angiography—</i>	96
VISCERAL AND RENAL ANGIOGRAPHY—	99
<i>Celiac Artery Angiography—</i>	102
<i>Superior Mesenteric Artery (SMA) Angiography—</i>	106
<i>Inferior Mesenteric Artery (IMA) Angiography—</i>	109
<i>Renal Angiography—</i>	112
<i>Other Visceral Vasculature—</i>	115
UPPER EXTREMITY ANGIOGRAPHY—	118
ABDOMINAL AORTOGRAPHY AND LOWER EXTREMITY ANGIOGRAPHY —	122
<i>Abdominal Aortography and Run-off—</i>	122
<i>Pelvic Vasculature—</i>	130
DIAGNOSTIC ARTERIOVENOUS (AV) SHUNTS—	133
VENOGRAPHY—	138
<i>Central Venous Coding – Vena Cava—</i>	139
<i>Extremity Venous Coding—</i>	141
<i>Visceral Venous Coding—</i>	144
<i>Head and Neck Venous Coding—</i>	147
PULMONARY ANGIOGRAPHY—	149
THE PORTAL SYSTEM—	152
VASCULAR INTERVENTIONAL CODING—	155
VASCULAR ACCESS DEVICE PLACEMENT—	155
<i>Non-Tunneled / Temporary Central Venous Access—</i>	158
<i>Tunneled / Permanent Central Venous Access—</i>	161
<i>Catheter Check—</i>	165
<i>Catheter Maintenance—</i>	167
THROMBOLYSIS AND OTHER INFUSION THERAPY—	170
PERCUTANEOUS THROMBECTOMY—	176
TRANSCATHETER EMBOLIZATION—	181
VASCULAR FILTER PLACEMENT—	187

VENOUS SAMPLING—	190
SAPHENOUS VEIN ABLATION AND THERAPY—	192
BALLOON ANGIOPLASTY—	196
ATHERECTOMY—	205
VASCULAR STENT PLACEMENT—	210
NEUROVASCULAR INTERVENTIONAL PROCEDURES—	218
TRANSJUGULAR INTRAHEPATIC PORTOSYSTEMIC SHUNT (T.I.P.S.)—	226
ARTERIOVENOUS (AV) SHUNT INTERVENTIONS—	230
INTRAVASCULAR ULTRASOUND (IVUS)—	237
ENDOVASCULAR THORACIC AND ABDOMINAL AORTIC STENT GRAFTS—	239
ENDOVASCULAR ILIAC STENT GRAFTS—	248
NON-VASCULAR INTERVENTIONAL CODING—	253
URINARY SYSTEM—	253
<i>Percutaneous Antegrade Pyelogram—</i>	253
<i>Nephrostomy Tube Placement—</i>	255
<i>Nephrostogram—</i>	257
<i>Nephrostomy Tube Check and Change—</i>	259
<i>Ureteral Stent Placement, Check, and Change—</i>	262
<i>Nephroureteral Stent Placement, Check, and Change—</i>	267
<i>Ureteroplasty and Intentional Ureteral Occlusion—</i>	270
<i>Percutaneous Dilation of a Nephrostomy Tract—</i>	273
<i>Percutaneous Nephrolithotomy—</i>	275
<i>Whitaker Test, Foley Catheters, Cystostomy—</i>	278
BILIARY SYSTEM—	281
<i>Percutaneous Transhepatic Cholangiography (PTHC)—</i>	281
<i>External Biliary Drainage—</i>	283
<i>Internal/External Biliary Drainage—</i>	285
<i>Biliary Tube Cholangiogram—</i>	288
<i>Biliary Catheter Change—</i>	290
<i>Biliary Catheter Reinsertion or Revision—</i>	292
<i>Percutaneous Biliary Ductal Dilation and Stenting—</i>	294
<i>Biliary Stone Extraction—</i>	299
<i>Percutaneous Cholecystostomy—</i>	302
GASTROINTESTINAL (GI) SYSTEM—	304
<i>Oral GI Tubes—</i>	304
<i>Esophageal Dilation and Stent Placement—</i>	306
<i>Gastrointestinal Tube Placements—</i>	308
<i>Gastrojejunostomy—</i>	311
<i>Gastrointestinal Tube Replacement—</i>	314
<i>Gastrointestinal Tube Check & Mechanical Removal of Obstructing Material—</i>	316
<i>Colonic Stent—</i>	318
<i>Paracentesis—</i>	320
<i>Peritoneal-Venous Shunt—</i>	322
<i>Non-Tunneled Peritoneal Catheter Placement—</i>	323
<i>Tunneled Peritoneal Catheter Placement—</i>	324
<i>Injection/Fibrin Sheath Disruption of Peritoneal Dialysis Catheter—</i>	327
SPINAL INTERVENTIONS—	329
<i>Vertebroplasty—</i>	329
<i>Kyphoplasty & Sacroplasty—</i>	332
<i>Intervertebral Disc Aspiration—</i>	335
<i>Intradiscal Annuloplasty (IDET)—</i>	337
MISCELLANEOUS—	339
<i>Bronchial Stent—</i>	339
LESS COMPLEX INTERVENTIONAL PROCEDURE CODING—	341
SIALOGRAPHY—	341

BIOPSIES, PERCUTANEOUS—	342
ABSCESS DRAINAGE PROCEDURES—	348
<i>Percutaneous Abscess Drainage—</i>	348
<i>Abscess Catheter Management—</i>	351
<i>Puncture or Aspiration of Fluid Collection—</i>	354
<i>Fistula or Sinus Tract Study—</i>	356
<i>Thoracentesis—</i>	357
CHEST TUBE FOR PNEUMOTHORAX—	360
<i>Tunneled Chest Tube for Effusion—</i>	363
CYST PROCEDURES—	366
<i>Cyst/Fluid Aspiration—</i>	366
FIDUCIAL MARKERS—	369
RADIOFREQUENCY (RF) ABLATION—	371
<i>Non-RF Tissue Ablation—</i>	376
LYMPHOCELE OR CYST ABLATION—	378
BREAST INTERVENTIONS—	380
<i>Breast Needle Biopsy—</i>	380
<i>Stereotactic Breast Biopsy—</i>	383
<i>Breast Hookwire Localization—</i>	385
<i>Ultrasound Breast Cyst Aspiration—</i>	388
<i>Galactogram—</i>	390
<i>Sentinel Node Lymphoscintigraphy and Radiotherapy of the Breast—</i>	392
GYNECOLOGICAL INTERVENTIONS—	395
<i>Hysterosalpingography—</i>	395
<i>Hysterosonography—</i>	397
<i>Therapeutic Uterine Interventions (Including Endometrial Cryoablation and Fallopian Tube Dilation)—</i>	398
ARTHROGRAPHY —	400
JOINT ASPIRATION AND INJECTION—	403
LYMPHANGIOGRAPHY—	406
SPINAL INTERVENTIONS—	408
<i>Myelography—</i>	408
<i>Discography—</i>	410
<i>Blood Patch—</i>	412
<i>CSF Leak—</i>	414
<i>Lumbar Puncture—</i>	416
<i>Ventriculoperitoneal Shunt—</i>	418
<i>Intrathecal Chemotherapy—</i>	419
<i>Epidural Steroid Injection—</i>	420
<i>Epidural Infusion—</i>	422
<i>Neurolytic Epidural Injection—</i>	425
<i>Facet Injections—</i>	427
<i>Nerve Root Blocks (Transforaminal Epidural Injection)—</i>	432
<i>Somatic and Sympathetic Nerve Blocks—</i>	434
<i>Destruction by Neurolytic Agent—</i>	437
<i>Trigger Point Injections—</i>	439
<i>Tendon Sheath or Tendon Origin Injections—</i>	441
NON-INVASIVE VASCULAR DIAGNOSTIC STUDIES—	443
OVERVIEW—	443
ARTERIAL STUDIES—	445
<i>Transcranial Doppler—</i>	445
<i>Extracranial Physiologic Study—</i>	447
<i>Extracranial Cerebrovascular Duplex—</i>	449
NON-INVASIVE VASCULAR STUDIES OF THE UPPER EXTREMITY ARTERIES—	451
<i>Upper Extremity Arterial Segmental Physiologic Evaluation—</i>	451
<i>Upper Extremity Duplex—</i>	453

NON-INVASIVE VASCULAR STUDIES OF THE LOWER EXTREMITY ARTERIES–	455
<i>Lower Extremity Arterial Segmental Physiologic Evaluation–</i>	455
<i>Lower Extremity Duplex–</i>	458
NON-INVASIVE VASCULAR STUDIES OF THE AORTA–	460
NON-INVASIVE VASCULAR STUDIES OF THE RENAL AND OTHER VISCERAL ARTERIES–	462
PENILE VESSEL ASSESSMENT–	464
VENOUS SYSTEM–	465
<i>Non-Invasive Vascular Studies Extremity Veins–</i>	465
<i>Upper Extremity Segmental Physiologic Evaluation–</i>	465
<i>Extremity Venous Duplex–</i>	467
VEIN MAPPING–	469
NON-INVASIVE VASCULAR STUDIES OF ARTERIAL VENOUS HEMODIALYSIS ACCESS SITES–	470
COMPUTED TOMOGRAPHIC ANGIOGRAPHY (CTA)–	473
CTA OF THE CHEST–	480
CTA OF THE ABDOMEN–	482
CTA OF THE PELVIS–	484
CTA OF THE UPPER AND LOWER EXTREMITY–	486
CTA OF ABDOMINAL AORTA AND BILATERAL ILIOFEMORAL LOWER EXTREMITY RUN-OFF–	488
CTA OF THE CEREBROVASCULAR SYSTEM–	490
CORONARY COMPUTED TOMOGRAPHIC ANGIOGRAPHY–	492
HYBRID CT–	495
MAGNETIC RESONANCE ANGIOGRAPHY (MRA)–	497
MRA OF THE CHEST–	506
MRA OF THE ABDOMEN–	508
MRA OF THE PELVIS–	510
MRA OF THE UPPER AND LOWER EXTREMITY–	512
MRA OF THE CEREBROVASCULAR SYSTEM–	514
CARDIAC MAGNETIC RESONANCE IMAGING (MRI)–	516
APPENDIX A - PROCEDURES THAT MUST BE PERFORMED SELECTIVELY–	519
APPENDIX B - CODES FOR PROCEDURES THAT ARE ADD-ON PROCEDURES–	520
APPENDIX C - CODES FOR PROCEDURES INCLUDING CONSCIOUS SEDATION–	521
APPENDIX D - 2010 INPATIENT ONLY PROCEDURES–	522
APPENDIX E - DEVICE CODES–	523
APPENDIX F - HOSPITAL DEVICE EDITS–	525
APPENDIX G - AMA CPT CODES & LONG DESCRIPTIONS–	529
APPENDIX H - Q & A–	555
APPENDIX I - EXCERPTS - NATIONAL CCI POLICY MANUAL–	557
APPENDIX J - CHARGE SHEETS–	578
APPENDIX K - ANATOMICAL CHARTS–	586
WORD INDEX–	612
CODE INDEX–	621