

# Table of Contents

<b>HOW TO USE THIS BOOK–</b>	<b>1</b>
<b>INTRODUCTION–</b>	<b>3</b>
<b>CODING BASICS–</b>	<b>7</b>
<b>PHYSICIAN PAYMENT BASICS–</b>	<b>35</b>
<b>HOSPITAL OUTPATIENT PROSPECTIVE PAYMENT SYSTEM (HOPPS)–</b>	<b>47</b>
<b>BASIC ENDOVASCULAR SURGERY CODING RULES–</b>	<b>55</b>
<b>DIAGNOSTIC ANGIOGRAPHY CODING–</b>	<b>65</b>
CERVICOCEREBRAL ANGIOGRAPHY–	65
<i>Cervicocerebral Arch Angiography–</i>	67
<i>Carotid Cervical Angiography–</i>	70
<i>Carotid Cerebral Angiography–</i>	72
<i>Vertebral Angiography–</i>	75
<i>External Carotid Angiography–</i>	78
<i>Cervicocerebral Variations–</i>	81
<i>Anatomic Variations–</i>	82
DESCENDING THORACIC AORTA ANGIOGRAPHY–	86
<i>Spinal Angiography–</i>	89
<i>Internal Mammary Angiography–</i>	92
<i>Bronchial Angiography–</i>	94
VISCERAL AND RENAL ANGIOGRAPHY–	97
<i>Celiac Artery Angiography–</i>	100
<i>Superior Mesenteric Artery (SMA) Angiography–</i>	104
<i>Inferior Mesenteric Artery (IMA) Angiography –</i>	107
<i>Renal Angiography–</i>	110
<i>Other Visceral Vasculature–</i>	113
UPPER EXTREMITY ANGIOGRAPHY–	116
ABDOMINAL AORTOGRAPHY AND LOWER EXTREMITY ANGIOGRAPHY –	120
<i>Abdominal Aortography and Run-off–</i>	120
<i>Pelvic Vasculature–</i>	125
DIAGNOSTIC ARTERIOVENOUS (AV) SHUNTS–	128
VENOGRAPHY–	131
<i>Central Venous Coding – Vena Cava–</i>	132
<i>Extremity Venous Coding–</i>	134
<i>Visceral Venous Coding–</i>	137
<i>Head and Neck Venous Coding–</i>	140
PULMONARY ANGIOGRAPHY–	142
THE PORTAL SYSTEM–	145
<b>VASCULAR INTERVENTIONAL CODING–</b>	<b>149</b>
VASCULAR ACCESS DEVICE PLACEMENT–	149
<i>Non-Tunneled / Temporary Central Venous Access–</i>	152
<i>Tunneled / Permanent Central Venous Access–</i>	154
<i>Catheter Check–</i>	158
<i>Catheter Maintenance–</i>	160
THROMBOLYSIS AND OTHER INFUSION THERAPY–	163

PERCUTANEOUS THROMBECTOMY—	169
TRANSCATHETER EMBOLIZATION—	174
VASCULAR FILTER PLACEMENT—	180
VENOUS SAMPLING—	183
BALLOON ANGIOPLASTY—	185
ATHERECTOMY—	193
VASCULAR STENT PLACEMENT—	198
NEUROVASCULAR INTERVENTIONAL PROCEDURES—	205
TRANSJUGULAR INTRAHEPATIC PORTOSYSTEMIC SHUNT (T.I.P.S.)—	213
ARTERIOVENOUS (AV) SHUNT INTERVENTIONS—	217
INTRAVASCULAR ULTRASOUND (IVUS)—	224
ENDOVASCULAR THORACIC AND ABDOMINAL AORTIC STENT GRAFTS—	226
ENDOVASCULAR ILIAC STENT GRAFTS—	235
<b>OPEN VASCULAR SURGERY CODING—</b>	<b>239</b>
THORACIC AORTIC ANEURYSM—	239
WOUNDS OF THE GREAT VESSELS—	244
AORTIC ANOMALIES—	246
EMBOLECTOMY/THROMBECTOMY (OPEN)—	249
VENOUS RECONSTRUCTION—	253
DIRECT REPAIR OR EXCISION OF ANEURYSM OR PSEUDOANEURYSM—	256
REPAIR OF ARTERIOVENOUS FISTULA—	264
REPAIR OF BLOOD VESSELS—	267
THROMBOENDARTERECTOMY—	271
ANGIOSCOPY—	275
BYPASS GRAFTS, GRAFT HARVESTING, COMPOSITE GRAFTS, AND ADJUVANT TECHNIQUES—	277
ARTERIAL TRANSPOSITION—	289
EXPLORATION/REVISION/EXCISION—	292
SAPHENOUS VEIN ABLATION AND THERAPY—	298
HEMODIALYSIS ACCESS—	302
PORTAL DECOMPRESSION PROCEDURES—	308
LIGATION—	311
ENDOSCOPY—	315
LOWER EXTREMITY AMPUTATIONS—	316
DECOMPRESSIVE FASCIOTOMY—	320
PACEMAKER AND EVENT RECORDER—	323
PACING CARDIOVERTER-DEFIBRILLATOR—	332
<b>OTHER INTERVENTIONAL PROCEDURE CODING—</b>	<b>343</b>
NON-TUNNELED PERITONEAL CATHETER PLACEMENT—	343
TUNNELED PERITONEAL CATHETER PLACEMENT—	345
INJECTION/MANIPULATION OF PERITONEAL DIALYSIS CATHETER—	347
<i>Thoracentesis—</i>	348
CHEST TUBE FOR PNEUMOTHORAX—	350
TUNNELED CHEST TUBE FOR EFFUSION—	352
<b>NON-INVASIVE VASCULAR DIAGNOSTIC STUDIES—</b>	<b>355</b>
OVERVIEW—	355
ARTERIAL STUDIES—	357
<i>Transcranial Doppler—</i>	357
<i>Extracranial Physiologic Study—</i>	359
<i>Extracranial Cerebrovascular Duplex—</i>	361
NON-INVASIVE VASCULAR STUDIES OF THE UPPER EXTREMITY ARTERIES—	363
<i>Upper Extremity Arterial Segmental Physiologic Evaluation—</i>	363

<i>Upper Extremity Duplex</i> –	365
NON-INVASIVE VASCULAR STUDIES OF THE LOWER EXTREMITY ARTERIES–	367
<i>Lower Extremity Arterial Segmental Physiologic Evaluation</i> –	367
<i>Lower Extremity Duplex</i> –	370
NON-INVASIVE VASCULAR STUDIES OF THE AORTA –	372
NON-INVASIVE VASCULAR STUDIES OF THE RENAL AND OTHER VISCERAL ARTERIES–	374
PENILE VESSEL ASSESSMENT–	376
VENOUS SYSTEM–	377
<i>Non-Invasive Vascular Studies Extremity Veins</i> –	377
<i>Upper Extremity Segmental Physiologic Evaluation</i> –	377
<i>Extremity Venous Duplex</i> –	379
VEIN MAPPING–	381
NON-INVASIVE VASCULAR STUDIES OF ARTERIAL VENOUS HEMODIALYSIS ACCESS SITES–	382
<b>COMPUTED TOMOGRAPHIC ANGIOGRAPHY (CTA)–</b>	<b>385</b>
CTA OF THE CHEST–	391
CTA OF THE ABDOMEN–	393
CTA OF THE PELVIS–	395
CTA OF THE UPPER AND LOWER EXTREMITY–	397
CTA OF ABDOMINAL AORTA AND BILATERAL ILIOFEMORAL LOWER EXTREMITY RUN-OFF–	399
CTA OF THE CEREBROVASCULAR SYSTEM–	401
CORONARY COMPUTED TOMOGRAPHIC ANGIOGRAPHY–	403
HYBRID CT–	407
<b>MAGNETIC RESONANCE ANGIOGRAPHY (MRA)–</b>	<b>409</b>
MRA OF THE CHEST–	418
MRA OF THE ABDOMEN–	420
MRA OF THE PELVIS–	422
MRA OF THE UPPER AND LOWER EXTREMITY–	424
MRA OF THE CEREBROVASCULAR SYSTEM–	426
CARDIAC MAGNETIC RESONANCE IMAGING (MRI)–	428
<b>EVALUATION AND MANAGEMENT (E&amp;M) CODING–</b>	<b>431</b>
<b>APPENDIX A - PROCEDURES THAT MUST BE PERFORMED SELECTIVELY–</b>	<b>463</b>
<b>APPENDIX B - CODES FOR PROCEDURES THAT ARE ADD-ON PROCEDURES–</b>	<b>464</b>
<b>APPENDIX C - CODES FOR PROCEDURES INCLUDING CONSCIOUS SEDATION–</b>	<b>465</b>
<b>APPENDIX D - 2009 INPATIENT ONLY PROCEDURES–</b>	<b>466</b>
<b>APPENDIX E - DEVICE CODES–</b>	<b>467</b>
<b>APPENDIX F - HOSPITAL DEVICE EDITS–</b>	<b>469</b>
<b>APPENDIX G - AMA CPT CODES &amp; LONG DESCRIPTIONS–</b>	<b>475</b>
<b>APPENDIX H - Q &amp; A–</b>	<b>499</b>
<b>APPENDIX I - EXCERPTS - NATIONAL CCI POLICY MANUAL–</b>	<b>501</b>
<b>APPENDIX J - CHARGE SHEETS –</b>	<b>513</b>

<b>APPENDIX K – ANATOMICAL CHARTS–</b>	<b>523</b>
<b>WORD INDEX–</b>	<b>547</b>
<b>CODE INDEX–</b>	<b>555</b>