

TABLE OF CONTENTS

KEY TO CODE LISTINGS	3
1 INTRODUCTION.....	9
2 MEDICARE PROGRAM OVERVIEW	11
Medicare Payment Systems	11
3 RESOURCES	23
Federal Register.....	23
National Coverage Determinations	24
Local Coverage Determinations.....	24
Medicare Administrative Contractors	26
Other Payer Policies	28
CMS Internet Only Manuals	29
Other CMS Resources.....	30
National Correct Coding Initiative	31
Bundling vs. Packaging	35
Physician Supervision of Diagnostic Tests	37
Documentation Requirements	39
Documentation of E/M Services.....	39
Documentation of Radiology Services	41
Electronic Health Records.....	44
Authentication.....	47
Medical Necessity.....	50
Orders for Diagnostic Tests	51
Appropriate Use Criteria.....	55
Advance Beneficiary Notices	56
Date of Service	62
Place of Service.....	63
Patient Relationship Categories.....	66
Independent Diagnostic Testing Facilities	67
About Coding.....	69
HCPCS Codes	70
Diagnosis Codes.....	71
Coding Radiology Reports.....	72
Fluoroscopy and Spot Images.....	83
Unlisted Procedures	85
4 DIAGNOSTIC RADIOGRAPHY	87
Head and Neck X-Rays.....	90
Chest X-Rays	97
X-Rays of Spine and Pelvis	101
Upper Extremity X-Rays.....	113
Lower Extremity X-Rays.....	118
Abdomen X-Rays	124

Gastrointestinal Tract Studies	127
Urinary Tract Studies	133
Gynecologic and Obstetrical Studies	136
Other X-Ray and Fluoroscopic Studies.....	137
Bone Density Studies.....	146
X-Ray and Fluoroscopy FAQs	153
5 BREAST PROCEDURES	155
Breast Imaging.....	162
Percutaneous Breast Procedures	169
Breast Procedure FAQs.....	182
6 ULTRASOUND	185
Ultrasound of Head and Neck.....	189
Ultrasound of Chest.....	190
Ultrasound of Abdomen and Retroperitoneum.....	191
Ultrasound of Spinal Canal	196
Obstetrical Ultrasound	197
Non-Obstetric Pelvic Ultrasound	205
Scrotal & Transrectal Ultrasound.....	208
Extremity Ultrasound	209
Other Ultrasound Services.....	211
About Vascular Ultrasound.....	216
Vascular Ultrasound Codes.....	220
Ultrasound FAQs.....	229
7 COMPUTED TOMOGRAPHY (CT).....	231
CT/CTA of Head and Neck.....	236
CT/CTA of Thorax and Heart	238
CT Lung Cancer Screening.....	244
CT of the Spine	248
CT/CTA of the Extremities	251
CT of Abdomen and Pelvis	253
CTA of Abdomen, Pelvis, and Legs.....	258
Other CT Services	261
CT/CTA FAQs	269
8 MAGNETIC RESONANCE IMAGING	273
MRI/MRA of Head and Neck.....	278
MRI/MRA of Chest and Heart	284
Breast MRI.....	286
MRI/MRA of Spine and Pelvis	289
Extremity MRI/MRA	291
Abdominal MRI/MRA	294
Other MR Procedures.....	297
MRI/MRA FAQs.....	300

9 POSITRON EMISSION TOMOGRAPHY	303
PET and PET-CT Procedure Codes	308
Oncologic FDG PET	315
Oncologic NaF-18 PET	320
Oncologic Studies with Other Agents	321
Dementia Studies	322
Cardiac Studies	324
Other Studies	325
Positron Emission Tomography FAQs	326
10 NUCLEAR MEDICINE	329
Nuclear Endocrine Studies	333
Nuclear Heme-Lymph Studies	338
Nuclear Gastrointestinal Studies	340
Nuclear Musculoskeletal Studies	346
Nuclear Cardiovascular Studies	348
Nuclear Respiratory Studies	359
Nuclear Nervous System Studies	362
Nuclear Genitourinary Studies	364
Other Nuclear Studies	367
Therapeutic Nuclear Medicine	371
Nuclear Medicine FAQs	374
11 IMAGING AGENTS	377
Discarded Drugs and Radiopharmaceuticals	378
Low and High Osmolar Contrast Material	382
MRI Contrast Agents	384
Radiopharmaceuticals	385
Other Imaging Agents	393
Imaging-Related Drugs	394
APPENDIX A MODERATE SEDATION AND VR PATIENT PROCEDURAL DISSOCIATION.....	395
APPENDIX B RADIOLOGY DICTATION TEMPLATE.....	401
APPENDIX C DIAGNOSIS CODING GUIDELINES	403
APPENDIX D NON HOSPITAL TEST SUPERVISION	407
APPENDIX E HOSPITAL TEST SUPERVISION	411
APPENDIX F UNLISTED CODES.....	413
APPENDIX G CMS REFERENCES AND RESOURCES	419
APPENDIX H ADDITIONAL CODING RESOURCES	423