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Magnetic Resonance Angiography (MRA)

**AMA CPT / ADA CDT / AHA NUBC**

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**Jurisdiction**

Delaware  
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 Maryland  
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 Pennsylvania

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**Notice Period End Date**

N/A

**CMS National Coverage Policy**

Title XVIII of the Social Security Act, Section 1862(a)(1)(A) states that no Medicare payment shall be made for items or services which are not reasonable and necessary for the diagnosis or treatment of illness or injury.

Title XVIII of the Social Security Act, Section 1862(a)(7). This section excludes routine physical examinations.

Title XVIII of the Social Security Act, Section 1833(e) states that no payment shall be made to any provider for any claim that lacks the necessary information to process the claim.

42 CFR Section 410.32 states that diagnostic tests may only be ordered by treating physician (or other treating practitioner acting within the scope of his or her license and Medicare requirements).

CMS Pub. 100-2, Medicare Benefit Policy Manual, Chapter 6, Section 220.3 Outpatient Diagnostic Services.

CMS Pub. 100-2, Medicare Benefit Policy Manual, Chapter 15, Section 80 Requirements for Diagnostic X-Ray, Diagnostic Laboratory, and Other Diagnostic Tests.

CMS Pub. 100-2, Medicare Benefit Policy Manual, Chapter 16, Section 20 Services Not Reasonable and Necessary.

CMS Pub. 100-4, Medicare Claims Processing Manual, Chapter 4 Part B Hospital.

CMS Pub. 100-4, Medicare Claims Processing Manual, Chapter 13, Section 40 Magnetic Resonance Imaging (MRI) Procedures.

Pub. 100-03, Chapter 1, Section 220.3.

Medicare Claims Processing Manual, Pub 100.04, Chapter 13, Section 40.1.

Medicare Coverage Issues Manual Transmittal 170.

Medicare Carriers Manual, Part 3 - Claims Process Transmittal 1795.

Medicare Intermediary Manual, Part 3 - Claims Process Transmittal 1883.

Program Memorandum, B-01-28.

## **Coverage Guidance**

### **Coverage Indications, Limitations, and/or Medical Necessity**

**Notice:** It is not appropriate to bill Medicare for services that are not covered (as described by this entire LCD) as if they are covered. When billing for non-covered services, use the appropriate modifier.

Compliance with the provisions in this policy may be monitored and addressed through post payment data analysis and subsequent medical review audits.

Magnetic resonance angiography (MRA) is a non-invasive diagnostic test that is an application of magnetic resonance imaging (MRI). By analyzing the amount of energy released from tissues exposed to a strong magnetic field, MRA provides images of normal and diseased blood vessels as well as visualization and quantification of blood flow through these vessels.

This LCD is a restatement of the National Coverage Determination for MRI and MRA documented in CMS Publication 100-03, Medicare National Coverage Determinations Manual, Part 4, Section 220.2.A.2 Magnetic Resonance Imaging (MRI).

Currently covered indications include using MRA for specific conditions to evaluate flow in internal carotid vessels of the head and neck, peripheral arteries of lower extremities, abdomen and pelvis, and the chest. Coverage is limited to MRA units that have received FDA premarket approval, and such units must be operated within the parameters specified by the approval. In addition, the services must be reasonable and necessary for the diagnosis or treatment of the specific patient involved. (CMS Publication 100-03, Medicare National Coverage Determinations Manual, Chapter 1, Part 4, Section 220.2.B.2).

## **COVERED INDICATIONS**

### **I. HEAD AND NECK**

Studies have proven that MRA is effective for evaluating flow in internal carotid vessels of the head and neck. However, not all potential applications of MRA have been shown to be reasonable and necessary. All of the following criteria must apply in order for Medicare to provide coverage for MRA of the head and neck:

- MRA is used to evaluate the carotid arteries, the circle of Willis, the anterior, middle or posterior cerebral arteries, the vertebral or basilar arteries or the venous sinuses;
- MRA is performed on patients with conditions of the head and neck for which surgery is anticipated and may be found to be appropriate based on the MRA. These conditions include, but are not limited to, tumor, aneurysms, vascular malformations, vascular occlusion or thrombosis. Within this broad category of disorders, medical necessity is the underlying determinant of the need for an MRA in specific diseases. The medical records should clearly justify and demonstrate the existence of medical necessity; and,
- MRA and contrast angiography (CA) are not expected to be performed on the same patient for

diagnostic purposes prior to the application of anticipated therapy. Only one of these tests will be covered routinely unless the physician can demonstrate the medical need to perform both tests. (CMS Publication 100-03, Medicare National Coverage Determinations Manual, Chapter 1, Part 4, Section 220.2.B.2a).

MRA is appropriately used to verify the presence of a condition, suspected because of findings from another test (usually an imaging study). For example, a patient who presents with a transient ischemic attack (TIA) should not undergo MRA simply because he might have a lesion which is amenable to surgery. However, if that patient has a carotid bruit and is found by Doppler study to have carotid stenosis, an MRA may be appropriate to evaluate the stenotic section of artery for surgical intervention. Please note that the anticipated surgery may be a percutaneous procedure such as carotid angioplasty with stent insertion.

Another patient may present with a headache; it is not appropriate to proceed directly to MRA to rule out the possibility of an intracranial aneurysm. However, if that patient was found to have a clinically significant amount of blood in the cerebrospinal fluid, or the patient demonstrated signs and symptoms strongly suggesting an unruptured intracranial aneurysm, an MRA (or cerebral angiogram) may be appropriate.

An MRA is not considered medically necessary for screening asymptomatic patients for intracranial aneurysms.

## **II. PERIPHERAL ARTERIES OF LOWER EXTREMITIES**

Studies have proven that MRA of peripheral arteries is useful in determining the presence and extent of peripheral vascular disease in lower extremities. This procedure is non-invasive and has been shown to find occult vessels in some patients for which those vessels were not apparent when CA was performed. Medicare will cover either MRA or CA to evaluate peripheral arteries of the lower extremities. However, both MRA and CA may be useful in some cases, such as:

- A patient has had CA and this test was unable to identify a viable run-off vessel for bypass. When exploratory surgery is not believed to be a reasonable medical course of action for this patient, MRA may be performed to identify the viable runoff vessel; or
- A patient has had MRA, but the results are inconclusive. (CMS Publication 100-03, Medicare National Coverage Determinations Manual, Chapter 1, Part 4, Section 220.2.B.2.b).

## **III. ABDOMEN AND PELVIS**

### **Pre-operative Evaluation of Patients Undergoing Elective Abdominal Aortic Aneurysm (AAA) Repair**

MRA is covered for pre-operative evaluation of patients undergoing elective AAA repair if the scientific evidence reveals MRA is considered comparable to CA in determining the extent of AAA, as well as in evaluating aortoiliac occlusion disease and renal artery pathology that may be necessary in the surgical planning of AAA repair. These studies also reveal that MRA could provide a net benefit to the patient. If preoperative CA is avoided, then patients are not exposed to the risks associated with invasive procedures, contrast media, end-organ damage, or arterial injury.

### **Imaging the Renal Arteries and the Aortoiliac Arteries in the Absence of AAA or Aortic Dissection**

MRA coverage is expanded to include imaging the renal arteries and the aortoiliac arteries in the absence of AAA or aortic dissection. MRA should be obtained in those circumstances in which using MRA is expected to avoid obtaining CA, when physician history, physical examination, and standard assessment tools provide insufficient information for patient management, and obtaining an MRA has a high probability of positively affecting patient management. However, CA may be ordered after obtaining the results of an MRA in those rare instances where medical necessity is demonstrated. (CMS Publication 100-03, Medicare National Coverage Determinations Manual, Chapter 1, Part 4, Section 220.2.B.2.c).

An MRA of the abdomen for evaluation of possible renal artery stenosis would not be considered medically necessary without some evidence consistent with renovascular hypertension. Such evidence might include:

- a history of early or late onset of hypertension, hypertension refractory to medication, or worsening renal function;
- the presence of a renal artery bruit;
- laboratory tests (elevated serum renins, increasing creatinine); or
- other radiologic tests (ultrasound, captopril scintigraphy, or other imaging showing small kidney or unequal kidney sizes).

#### **IV. CHEST**

##### **Diagnosis of Pulmonary Embolism**

Current scientific data has shown that diagnostic pulmonary MRAs are improving due to recent developments such as faster imaging capabilities and gadolinium-enhancement. However, these advances in MRA are not significant enough to warrant replacement of pulmonary angiography in the diagnosis of pulmonary embolism for patients who have no contraindication to receiving intravenous iodinated contrast material. Patients who are allergic to iodinated contrast material face a high risk of developing complications if they undergo pulmonary angiography or computed tomography angiography. Therefore, Medicare will cover MRA of the chest for diagnosing a suspected pulmonary embolism when it is contraindicated for the patient to receive intravascular iodinated contrast material.

##### **Evaluation of Thoracic Aortic Dissection and Aneurysm**

Studies have shown that MRA of the chest has a high level of diagnostic accuracy for pre-operative and post-operative evaluation of aortic dissection of aneurysm. Depending on the clinical presentation, MRA may be used as an alternative to other non-invasive imaging technologies, such as transesophageal echocardiography and CT. Generally, Medicare will provide coverage only for MRA or for CA when used as a diagnostic test. However, if both MRA and CA of the chest are used, the physician must demonstrate the medical need for performing these tests.

All other uses of MRA are non-covered unless coverage is specifically indicated.

##### **NON-COVERED INDICATIONS**

The following MRA services are considered NOT medically reasonable and necessary at this time:

- MRA of the spinal canal and contents
- MRA of the upper extremities

**NOTE:** This LCD does not address cardiac magnetic resonance imaging delineated in CPT codes 75557-75565.

Italicized and/or quoted material is excerpted from the American Medical Association, Current Procedural Terminology (CPT) codes.

## **Coding Information**

### **Bill Type Codes:**

Contractors may specify Bill Types to help providers identify those Bill Types typically used to report this service. Absence of a Bill Type does not guarantee that the policy does not apply to that Bill Type. Complete absence of all Bill Types indicates that coverage is not influenced by Bill Type and the policy should be assumed to apply equally to all claims.

012x	Hospital Inpatient (Medicare Part B only)
013x	Hospital Outpatient
083x	Ambulatory Surgery Center
085x	Critical Access Hospital

### **Revenue Codes:**

Contractors may specify Revenue Codes to help providers identify those Revenue Codes typically used to report this service. In most instances Revenue Codes are purely advisory; unless specified in the policy services reported under other Revenue Codes are equally subject to this coverage determination. Complete absence of all Revenue Codes indicates that coverage is not influenced by Revenue Code and the policy should be assumed to apply equally to all Revenue Codes.

**NOTE:** The contractor has identified the Bill Type and Revenue Codes applicable for use with the CPT/HCPCS codes included in this LCD. Providers are reminded that not all CPT/HCPCS codes listed can be billed with all Bill Type and/or Revenue Codes listed. CPT/HCPCS codes are required to be billed with specific Bill Type and/or Revenue Codes. Providers are encouraged to refer to the CMS Internet-Only Manual (IOM) Pub. 100-04 Claims Processing Manual for further guidance.

0615	Magnetic Resonance Technology (MRT) - MRA - Head and Neck
0616	Magnetic Resonance Technology (MRT) - MRA - Lower Extremities
0618	Magnetic Resonance Technology (MRT) - MRA - Other

## **CPT/HCPCS Codes**

**Group 1 Paragraph: Note:** Providers are reminded to refer to the long descriptors of the CPT codes in their CPT book.

### **Group 1 Codes:**

70544 Mr angiography head w/o dye  
70545 Mr angiography head w/dye  
70546 Mr angiograph head  
w/o&w/dye  
70547 Mr angiography neck w/o dye  
70548 Mr angiography neck w/dye  
70549 Mr angiograph neck  
w/o&w/dye  
71555 Mri angio chest w or w/o dye  
72198 Mr angio pelvis w/o & w/dye  
73725 Mr ang lwr ext w or w/o dye  
74185 Mri angio abdom w orw/o dye  
C8900 MRA w/cont, abd  
C8901 MRA w/o cont, abd  
C8902 MRA w/o fol w/cont, abd  
C8909 MRA w/cont, chest  
C8910 MRA w/o cont, chest  
C8911 MRA w/o fol w/cont, chest  
C8912 MRA w/cont, lwr ext  
C8913 MRA w/o cont, lwr ext  
C8914 MRA w/o fol w/cont, lwr ext  
C8918 MRA w/cont, pelvis  
C8919 MRA w/o cont, pelvis  
C8920 MRA w/o fol w/cont, pelvis

### **Group 2 Paragraph: Non-Covered Services**

**ICD-10-CM codes do not support the medical necessity for CPT codes listed below as they are always non-covered.**

### **Group 2 Codes:**

72159 Mr angio spine w/o&w/dye  
 73225 Mr angio upr extr w/o&w/dye  
 C8931 MRA, w/dye, spinal canal  
 C8932 MRA, w/o dye, spinal canal  
 C8933 MRA, w/o&w/dye, spinal canal  
 C8934 MRA, w/dye, upper extremity  
 C8935 MRA, w/o dye, upper extr  
 C8936 MRA, w/o&w/dye, upper extr

## ICD-10 Codes that Support Medical Necessity

**Group 1 Paragraph:** It is the provider's responsibility to select codes carried out to the highest level of specificity and selected from the ICD-10-CM code book appropriate to the year in which the service is rendered for the claim(s) submitted.

**MRA of the Head & Neck** (70544, 70545, 70546, 70547, 70548, and 70549) are covered for these diagnoses:

### Group 1 Codes:

ICD-10 Code	Description
A52.05	Other cerebrovascular syphilis
A52.19	Other symptomatic neurosyphilis
C00.0	Malignant neoplasm of external upper lip
C00.1	Malignant neoplasm of external lower lip
C00.2	Malignant neoplasm of external lip, unspecified
C00.3	Malignant neoplasm of upper lip, inner aspect
C00.4	Malignant neoplasm of lower lip, inner aspect
C00.5	Malignant neoplasm of lip, unspecified, inner aspect
C00.6	Malignant neoplasm of commissure of lip, unspecified
C00.8	Malignant neoplasm of overlapping sites of lip
C01	Malignant neoplasm of base of tongue
C02.0	Malignant neoplasm of dorsal surface of tongue



C02.1 Malignant neoplasm of border of tongue  
C02.2 Malignant neoplasm of ventral surface of tongue  
C02.3 Malignant neoplasm of anterior two-thirds of tongue, part unspecified  
C02.4 Malignant neoplasm of lingual tonsil  
C02.8 Malignant neoplasm of overlapping sites of tongue  
C02.9 Malignant neoplasm of tongue, unspecified  
C03.0 Malignant neoplasm of upper gum  
C03.1 Malignant neoplasm of lower gum  
C03.9 Malignant neoplasm of gum, unspecified  
C04.0 Malignant neoplasm of anterior floor of mouth  
C04.1 Malignant neoplasm of lateral floor of mouth  
C04.8 Malignant neoplasm of overlapping sites of floor of mouth  
C04.9 Malignant neoplasm of floor of mouth, unspecified  
C05.0 Malignant neoplasm of hard palate  
C05.1 Malignant neoplasm of soft palate  
C05.2 Malignant neoplasm of uvula  
C05.8 Malignant neoplasm of overlapping sites of palate  
C06.0 Malignant neoplasm of cheek mucosa  
C06.1 Malignant neoplasm of vestibule of mouth  
C06.2 Malignant neoplasm of retromolar area  
C06.89 Malignant neoplasm of overlapping sites of other parts of mouth  
C06.9 Malignant neoplasm of mouth, unspecified  
C07 Malignant neoplasm of parotid gland  
C08.0 Malignant neoplasm of submandibular gland  
C08.1 Malignant neoplasm of sublingual gland  
C08.9 Malignant neoplasm of major salivary gland, unspecified  
C09.0 Malignant neoplasm of tonsillar fossa  
C09.1 Malignant neoplasm of tonsillar pillar (anterior) (posterior)  
C09.8 Malignant neoplasm of overlapping sites of tonsil  
C10.0 Malignant neoplasm of vallecula  
C10.1 Malignant neoplasm of anterior surface of epiglottis  
C10.2 Malignant neoplasm of lateral wall of oropharynx  
C10.3 Malignant neoplasm of posterior wall of oropharynx  
C10.4 Malignant neoplasm of branchial cleft  
C10.8 Malignant neoplasm of overlapping sites of oropharynx  
C10.9 Malignant neoplasm of oropharynx, unspecified  
C11.0 Malignant neoplasm of superior wall of nasopharynx  
C11.1 Malignant neoplasm of posterior wall of nasopharynx  
C11.2 Malignant neoplasm of lateral wall of nasopharynx  
C11.3 Malignant neoplasm of anterior wall of nasopharynx  
C11.8 Malignant neoplasm of overlapping sites of nasopharynx  
C11.9 Malignant neoplasm of nasopharynx, unspecified  
C12 Malignant neoplasm of pyriform sinus  
C13.0 Malignant neoplasm of postcricoid region  
C13.1 Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect  
C13.2 Malignant neoplasm of posterior wall of hypopharynx  
C13.8 Malignant neoplasm of overlapping sites of hypopharynx  
C13.9 Malignant neoplasm of hypopharynx, unspecified

C33 Malignant neoplasm of trachea  
C69.01 Malignant neoplasm of right conjunctiva  
C69.02 Malignant neoplasm of left conjunctiva  
C69.11 Malignant neoplasm of right cornea  
C69.12 Malignant neoplasm of left cornea  
C69.21 Malignant neoplasm of right retina  
C69.22 Malignant neoplasm of left retina  
C69.31 Malignant neoplasm of right choroid  
C69.32 Malignant neoplasm of left choroid  
C69.41 Malignant neoplasm of right ciliary body  
C69.42 Malignant neoplasm of left ciliary body  
C69.51 Malignant neoplasm of right lacrimal gland and duct  
C69.52 Malignant neoplasm of left lacrimal gland and duct  
C69.61 Malignant neoplasm of right orbit  
C69.62 Malignant neoplasm of left orbit  
C69.81 Malignant neoplasm of overlapping sites of right eye and adnexa  
C69.82 Malignant neoplasm of overlapping sites of left eye and adnexa  
C70.0 Malignant neoplasm of cerebral meninges  
C70.9 Malignant neoplasm of meninges, unspecified  
C71.0 Malignant neoplasm of cerebrum, except lobes and ventricles  
C71.1 Malignant neoplasm of frontal lobe  
C71.2 Malignant neoplasm of temporal lobe  
C71.3 Malignant neoplasm of parietal lobe  
C71.4 Malignant neoplasm of occipital lobe  
C71.5 Malignant neoplasm of cerebral ventricle  
C71.6 Malignant neoplasm of cerebellum  
C71.7 Malignant neoplasm of brain stem  
C71.8 Malignant neoplasm of overlapping sites of brain  
C71.9 Malignant neoplasm of brain, unspecified  
C75.1 Malignant neoplasm of pituitary gland  
C75.2 Malignant neoplasm of craniopharyngeal duct  
C75.3 Malignant neoplasm of pineal gland  
C75.4 Malignant neoplasm of carotid body  
C75.5 Malignant neoplasm of aortic body and other paraganglia  
C79.31 Secondary malignant neoplasm of brain  
C79.32 Secondary malignant neoplasm of cerebral meninges  
C79.49 Secondary malignant neoplasm of other parts of nervous system  
D18.02 Hemangioma of intracranial structures  
D18.09 Hemangioma of other sites  
D32.0 Benign neoplasm of cerebral meninges  
D32.9 Benign neoplasm of meninges, unspecified  
D33.0 Benign neoplasm of brain, supratentorial  
D33.1 Benign neoplasm of brain, infratentorial  
D33.3 Benign neoplasm of cranial nerves  
D35.2 Benign neoplasm of pituitary gland  
D35.3 Benign neoplasm of craniopharyngeal duct  
D35.4 Benign neoplasm of pineal gland  
D35.5 Benign neoplasm of carotid body

D35.6 Benign neoplasm of aortic body and other paraganglia  
D42.0 Neoplasm of uncertain behavior of cerebral meninges  
D42.1 Neoplasm of uncertain behavior of spinal meninges  
D42.9 Neoplasm of uncertain behavior of meninges, unspecified  
D43.0 Neoplasm of uncertain behavior of brain, supratentorial  
D43.1 Neoplasm of uncertain behavior of brain, infratentorial  
D43.4 Neoplasm of uncertain behavior of spinal cord  
D49.6 Neoplasm of unspecified behavior of brain  
F01.50 Vascular dementia without behavioral disturbance  
F01.51 Vascular dementia with behavioral disturbance  
G08 Intracranial and intraspinal phlebitis and thrombophlebitis  
G43.401 Hemiplegic migraine, not intractable, with status migrainosus  
G43.409 Hemiplegic migraine, not intractable, without status migrainosus  
G43.411 Hemiplegic migraine, intractable, with status migrainosus  
G43.419 Hemiplegic migraine, intractable, without status migrainosus  
G45.0 Vertebro-basilar artery syndrome  
G45.3 Amaurosis fugax  
G45.8 Other transient cerebral ischemic attacks and related syndromes  
G45.9 Transient cerebral ischemic attack, unspecified  
G50.0 Trigeminal neuralgia  
G50.8 Other disorders of trigeminal nerve  
H34.01 Transient retinal artery occlusion, right eye  
H34.02 Transient retinal artery occlusion, left eye  
H34.03 Transient retinal artery occlusion, bilateral  
H34.11 Central retinal artery occlusion, right eye  
H34.12 Central retinal artery occlusion, left eye  
H34.13 Central retinal artery occlusion, bilateral  
H34.211 Partial retinal artery occlusion, right eye  
H34.212 Partial retinal artery occlusion, left eye  
H34.213 Partial retinal artery occlusion, bilateral  
H34.231 Retinal artery branch occlusion, right eye  
H34.232 Retinal artery branch occlusion, left eye  
H34.233 Retinal artery branch occlusion, bilateral  
H34.9 Unspecified retinal vascular occlusion  
H47.021 Hemorrhage in optic nerve sheath, right eye  
H47.022 Hemorrhage in optic nerve sheath, left eye  
H47.023 Hemorrhage in optic nerve sheath, bilateral  
H47.11 Papilledema associated with increased intracranial pressure  
H47.141 Foster-Kennedy syndrome, right eye  
H47.142 Foster-Kennedy syndrome, left eye  
H47.143 Foster-Kennedy syndrome, bilateral  
H47.41 Disorders of optic chiasm in (due to) inflammatory disorders  
H47.42 Disorders of optic chiasm in (due to) neoplasm  
H47.43 Disorders of optic chiasm in (due to) vascular disorders  
H47.49 Disorders of optic chiasm in (due to) other disorders  
H47.521 Disorders of visual pathways in (due to) neoplasm, right side  
H47.522 Disorders of visual pathways in (due to) neoplasm, left side  
H47.531 Disorders of visual pathways in (due to) vascular disorders, right side

H47.532 Disorders of visual pathways in (due to) vascular disorders, left side  
H47.631 Disorders of visual cortex in (due to) neoplasm, right side of brain  
H47.632 Disorders of visual cortex in (due to) neoplasm, left side of brain  
H47.641 Disorders of visual cortex in (due to) vascular disorders, right side of brain  
H47.642 Disorders of visual cortex in (due to) vascular disorders, left side of brain  
H49.01 Third [oculomotor] nerve palsy, right eye  
H49.02 Third [oculomotor] nerve palsy, left eye  
H49.03 Third [oculomotor] nerve palsy, bilateral  
H49.11 Fourth [trochlear] nerve palsy, right eye  
H49.12 Fourth [trochlear] nerve palsy, left eye  
H49.13 Fourth [trochlear] nerve palsy, bilateral  
H49.21 Sixth [abducent] nerve palsy, right eye  
H49.22 Sixth [abducent] nerve palsy, left eye  
H49.23 Sixth [abducent] nerve palsy, bilateral  
H53.121 Transient visual loss, right eye  
H53.122 Transient visual loss, left eye  
H53.123 Transient visual loss, bilateral  
H53.131 Sudden visual loss, right eye  
H53.132 Sudden visual loss, left eye  
H53.133 Sudden visual loss, bilateral  
H53.40 Unspecified visual field defects  
H53.461 Homonymous bilateral field defects, right side  
H53.462 Homonymous bilateral field defects, left side  
H53.47 Heteronymous bilateral field defects  
H81.41 Vertigo of central origin, right ear  
H81.42 Vertigo of central origin, left ear  
H81.43 Vertigo of central origin, bilateral  
H93.11 Tinnitus, right ear  
H93.12 Tinnitus, left ear  
H93.13 Tinnitus, bilateral  
I26.02 Saddle embolus of pulmonary artery with acute cor pulmonale  
I26.92 Saddle embolus of pulmonary artery without acute cor pulmonale  
I60.01 Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation  
I60.02 Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation  
I60.11 Nontraumatic subarachnoid hemorrhage from right middle cerebral artery  
I60.12 Nontraumatic subarachnoid hemorrhage from left middle cerebral artery  
I60.21 Nontraumatic subarachnoid hemorrhage from right anterior communicating artery  
I60.22 Nontraumatic subarachnoid hemorrhage from left anterior communicating artery  
I60.31 Nontraumatic subarachnoid hemorrhage from right posterior communicating artery  
I60.32 Nontraumatic subarachnoid hemorrhage from left posterior communicating artery  
I60.4 Nontraumatic subarachnoid hemorrhage from basilar artery  
I60.51 Nontraumatic subarachnoid hemorrhage from right vertebral artery  
I60.52 Nontraumatic subarachnoid hemorrhage from left vertebral artery  
I60.6 Nontraumatic subarachnoid hemorrhage from other intracranial arteries  
I60.8 Other nontraumatic subarachnoid hemorrhage  
I61.0 Nontraumatic intracerebral hemorrhage in hemisphere, subcortical  
I61.1 Nontraumatic intracerebral hemorrhage in hemisphere, cortical  
I61.3 Nontraumatic intracerebral hemorrhage in brain stem

I61.4 Nontraumatic intracerebral hemorrhage in cerebellum  
I61.5 Nontraumatic intracerebral hemorrhage, intraventricular  
I61.6 Nontraumatic intracerebral hemorrhage, multiple localized  
I61.8 Other nontraumatic intracerebral hemorrhage  
I62.01 Nontraumatic acute subdural hemorrhage  
I62.02 Nontraumatic subacute subdural hemorrhage  
I62.03 Nontraumatic chronic subdural hemorrhage  
I62.1 Nontraumatic extradural hemorrhage  
I62.9 Nontraumatic intracranial hemorrhage, unspecified  
I63.00 Cerebral infarction due to thrombosis of unspecified precerebral artery  
I63.011 Cerebral infarction due to thrombosis of right vertebral artery  
I63.012 Cerebral infarction due to thrombosis of left vertebral artery  
I63.02 Cerebral infarction due to thrombosis of basilar artery  
I63.031 Cerebral infarction due to thrombosis of right carotid artery  
I63.032 Cerebral infarction due to thrombosis of left carotid artery  
I63.09 Cerebral infarction due to thrombosis of other precerebral artery  
I63.10 Cerebral infarction due to embolism of unspecified precerebral artery  
I63.111 Cerebral infarction due to embolism of right vertebral artery  
I63.112 Cerebral infarction due to embolism of left vertebral artery  
I63.12 Cerebral infarction due to embolism of basilar artery  
I63.131 Cerebral infarction due to embolism of right carotid artery  
I63.132 Cerebral infarction due to embolism of left carotid artery  
I63.19 Cerebral infarction due to embolism of other precerebral artery  
I63.211 Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries  
I63.212 Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries  
I63.22 Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries  
I63.231 Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries  
I63.232 Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries  
I63.29 Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries  
I63.311 Cerebral infarction due to thrombosis of right middle cerebral artery  
I63.312 Cerebral infarction due to thrombosis of left middle cerebral artery  
I63.321 Cerebral infarction due to thrombosis of right anterior cerebral artery  
I63.322 Cerebral infarction due to thrombosis of left anterior cerebral artery  
I63.331 Cerebral infarction due to thrombosis of right posterior cerebral artery  
I63.332 Cerebral infarction due to thrombosis of left posterior cerebral artery  
I63.341 Cerebral infarction due to thrombosis of right cerebellar artery  
I63.342 Cerebral infarction due to thrombosis of left cerebellar artery  
I63.39 Cerebral infarction due to thrombosis of other cerebral artery  
I63.411 Cerebral infarction due to embolism of right middle cerebral artery  
I63.412 Cerebral infarction due to embolism of left middle cerebral artery  
I63.421 Cerebral infarction due to embolism of right anterior cerebral artery  
I63.422 Cerebral infarction due to embolism of left anterior cerebral artery  
I63.431 Cerebral infarction due to embolism of right posterior cerebral artery  
I63.432 Cerebral infarction due to embolism of left posterior cerebral artery  
I63.441 Cerebral infarction due to embolism of right cerebellar artery  
I63.442 Cerebral infarction due to embolism of left cerebellar artery  
I63.49 Cerebral infarction due to embolism of other cerebral artery

I63.511 Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery

I63.512 Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery

I63.521 Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery

I63.522 Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery

I63.531 Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery

I63.532 Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery

I63.541 Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery

I63.542 Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery

I63.59 Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery

I63.6 Cerebral infarction due to cerebral venous thrombosis, nonpyogenic

I63.8 Other cerebral infarction

I65.01 Occlusion and stenosis of right vertebral artery

I65.02 Occlusion and stenosis of left vertebral artery

I65.03 Occlusion and stenosis of bilateral vertebral arteries

I65.1 Occlusion and stenosis of basilar artery

I65.21 Occlusion and stenosis of right carotid artery

I65.22 Occlusion and stenosis of left carotid artery

I65.23 Occlusion and stenosis of bilateral carotid arteries

I65.8 Occlusion and stenosis of other precerebral arteries

I65.9 Occlusion and stenosis of unspecified precerebral artery

I66.01 Occlusion and stenosis of right middle cerebral artery

I66.02 Occlusion and stenosis of left middle cerebral artery

I66.03 Occlusion and stenosis of bilateral middle cerebral arteries

I66.11 Occlusion and stenosis of right anterior cerebral artery

I66.12 Occlusion and stenosis of left anterior cerebral artery

I66.13 Occlusion and stenosis of bilateral anterior cerebral arteries

I66.21 Occlusion and stenosis of right posterior cerebral artery

I66.22 Occlusion and stenosis of left posterior cerebral artery

I66.23 Occlusion and stenosis of bilateral posterior cerebral arteries

I66.3 Occlusion and stenosis of cerebellar arteries

I66.8 Occlusion and stenosis of other cerebral arteries

I67.1 Cerebral aneurysm, nonruptured

I67.89 Other cerebrovascular disease

I68.2 Cerebral arteritis in other diseases classified elsewhere

I72.0 Aneurysm of carotid artery

I72.8 Aneurysm of other specified arteries

I76 Septic arterial embolism

I77.0 Arteriovenous fistula, acquired

I77.1 Stricture of artery

I77.2 Rupture of artery

I77.3 Arterial fibromuscular dysplasia

I77.5 Necrosis of artery

I77.6	Arteritis, unspecified
I77.71	Dissection of carotid artery
I77.74	Dissection of vertebral artery
I77.89	Other specified disorders of arteries and arterioles
I82.C11	Acute embolism and thrombosis of right internal jugular vein
I82.C12	Acute embolism and thrombosis of left internal jugular vein
I82.C13	Acute embolism and thrombosis of internal jugular vein, bilateral
M30.0	Polyarteritis nodosa
M31.5	Giant cell arteritis with polymyalgia rheumatica
M31.6	Other giant cell arteritis
M32.19	Other organ or system involvement in systemic lupus erythematosus
M32.8	Other forms of systemic lupus erythematosus
Q28.2	Arteriovenous malformation of cerebral vessels
Q28.3	Other malformations of cerebral vessels
Q61.3	Polycystic kidney, unspecified
Q85.00	Neurofibromatosis, unspecified
Q85.01	Neurofibromatosis, type 1
Q85.02	Neurofibromatosis, type 2
R22.0	Localized swelling, mass and lump, head
R22.1	Localized swelling, mass and lump, neck
R29.5	Transient paralysis
R29.6*	Repeated falls
R29.818*	Other symptoms and signs involving the nervous system
R29.898*	Other symptoms and signs involving the musculoskeletal system
R42	Dizziness and giddiness
R55	Syncope and collapse
R90.0	Intracranial space-occupying lesion found on diagnostic imaging of central nervous system
R90.82	White matter disease, unspecified
R93.0	Abnormal findings on diagnostic imaging of skull and head, not elsewhere classified
S05.41XA	Penetrating wound of orbit with or without foreign body, right eye, initial encounter
S05.42XA	Penetrating wound of orbit with or without foreign body, left eye, initial encounter
S06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter
S06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter

S06.5X1A Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter

S06.5X2A Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter

S06.5X3A Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter

S06.5X4A Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter

S06.5X5A Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter

S06.5X6A Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter

S06.5X9A Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter

S06.6X0A Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter

S06.6X1A Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter

S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter

S06.6X3A Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter

S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter

S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter

S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter

S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter

S09.0XXA Injury of blood vessels of head, not elsewhere classified, initial encounter

S09.0XXS Injury of blood vessels of head, not elsewhere classified, sequela

S15.001S Unspecified injury of right carotid artery, sequela

S15.002S Unspecified injury of left carotid artery, sequela

S15.011A Minor laceration of right carotid artery, initial encounter

S15.011S Minor laceration of right carotid artery, sequela

S15.012A Minor laceration of left carotid artery, initial encounter

S15.012S Minor laceration of left carotid artery, sequela

S15.019A Minor laceration of unspecified carotid artery, initial encounter

S15.021A Major laceration of right carotid artery, initial encounter

S15.021S Major laceration of right carotid artery, sequela

S15.022A Major laceration of left carotid artery, initial encounter

S15.022S Major laceration of left carotid artery, sequela

S15.029A Major laceration of unspecified carotid artery, initial encounter

S15.091A Other specified injury of right carotid artery, initial encounter

S15.092A Other specified injury of left carotid artery, initial encounter

S15.101S Unspecified injury of right vertebral artery, sequela

S15.102S Unspecified injury of left vertebral artery, sequela

S15.111A Minor laceration of right vertebral artery, initial encounter



S15.111S Minor laceration of right vertebral artery, sequela  
 S15.112A Minor laceration of left vertebral artery, initial encounter  
 S15.112S Minor laceration of left vertebral artery, sequela  
 S15.121A Major laceration of right vertebral artery, initial encounter  
 S15.121S Major laceration of right vertebral artery, sequela  
 S15.122A Major laceration of left vertebral artery, initial encounter  
 S15.122S Major laceration of left vertebral artery, sequela  
 S15.8XXA Injury of other specified blood vessels at neck level, initial encounter  
 S15.8XXS Injury of other specified blood vessels at neck level, sequela  
 T82.311A Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter  
 T82.318A Breakdown (mechanical) of other vascular grafts, initial encounter  
 T82.321A Displacement of carotid arterial graft (bypass), initial encounter  
 T82.328A Displacement of other vascular grafts, initial encounter  
 T82.331A Leakage of carotid arterial graft (bypass), initial encounter  
 T82.338A Leakage of other vascular grafts, initial encounter  
 T82.391A Other mechanical complication of carotid arterial graft (bypass), initial encounter  
 T82.398A Other mechanical complication of other vascular grafts, initial encounter  
 T85.01XA Breakdown (mechanical) of ventricular intracranial (communicating) shunt, initial encounter  
 T85.02XA Displacement of ventricular intracranial (communicating) shunt, initial encounter  
 T85.03XA Leakage of ventricular intracranial (communicating) shunt, initial encounter  
 T85.09XA Other mechanical complication of ventricular intracranial (communicating) shunt, initial encounter  
 T85.110A Breakdown (mechanical) of implanted electronic neurostimulator (electrode) of brain, initial encounter  
 T85.118A Breakdown (mechanical) of other implanted electronic stimulator of nervous system, initial encounter  
 T85.120A Displacement of implanted electronic neurostimulator (electrode) of brain, initial encounter  
 T85.128A Displacement of other implanted electronic stimulator of nervous system, initial encounter

**Group 1 Medical Necessity ICD-10 Codes Asterisk Explanation: \*\*Report this code for patients presenting with signs and symptoms strongly suggesting an intracerebral aneurysm, without the MRA finding of an aneurysm.**

**Showing 1 to 392 of 392 entries in Group 1**

**Group 2 Paragraph: MRA of the Peripheral Arteries of Lower Extremities (73725, C8912, C8913, C8914) are covered for the following diagnoses:**

**Group 2 Codes:**

<b>ICD-10 Code</b>	<b>Description</b>
D18.09	Hemangioma of other sites
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E10.59	Type 1 diabetes mellitus with other circulatory complications
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene
E11.59	Type 2 diabetes mellitus with other circulatory complications
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene
I70.201	Unspecified atherosclerosis of native arteries of extremities, right leg
I70.202	Unspecified atherosclerosis of native arteries of extremities, left leg
I70.203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs
I70.211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg
I70.212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg
I70.213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs
I70.221	Atherosclerosis of native arteries of extremities with rest pain, right leg
I70.222	Atherosclerosis of native arteries of extremities with rest pain, left leg
I70.223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
I70.231	Atherosclerosis of native arteries of right leg with ulceration of thigh
I70.232	Atherosclerosis of native arteries of right leg with ulceration of calf
I70.233	Atherosclerosis of native arteries of right leg with ulceration of ankle
I70.234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot
I70.241	Atherosclerosis of native arteries of left leg with ulceration of thigh
I70.242	Atherosclerosis of native arteries of left leg with ulceration of calf
I70.243	Atherosclerosis of native arteries of left leg with ulceration of ankle
I70.244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot
I70.261	Atherosclerosis of native arteries of extremities with gangrene, right leg
I70.262	Atherosclerosis of native arteries of extremities with gangrene, left leg
I70.263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs
I70.311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg
I70.312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg
I70.313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70.321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg
I70.322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg

- I70.323 Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs
- I70.331 Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh
- I70.332 Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf
- I70.333 Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle
- I70.334 Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot
- I70.341 Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh
- I70.342 Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf
- I70.343 Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle
- I70.344 Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot
- I70.361 Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg
- I70.362 Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg
- I70.363 Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs
- I70.411 Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
- I70.412 Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
- I70.413 Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs
- I70.421 Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
- I70.422 Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
- I70.423 Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
- I70.431 Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh
- I70.432 Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf
- I70.433 Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle
- I70.434 Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot
- I70.441 Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh
- I70.442 Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf
- I70.443 Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle
- I70.444 Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot

- I70.461 Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg
- I70.462 Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg
- I70.463 Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs
- I70.511 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
- I70.512 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
- I70.513 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
- I70.521 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
- I70.522 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg
- I70.523 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
- I70.531 Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh
- I70.532 Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf
- I70.533 Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle
- I70.534 Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot
- I70.541 Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh
- I70.542 Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf
- I70.543 Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle
- I70.544 Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot
- I70.561 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg
- I70.562 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg
- I70.563 Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs
- I70.611 Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg
- I70.612 Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg
- I70.613 Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
- I70.621 Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg

I70.622 Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg  
 I70.623 Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs  
 I70.631 Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh  
 I70.632 Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf  
 I70.633 Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle  
 I70.634 Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot  
 I70.641 Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh  
 I70.642 Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf  
 I70.643 Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle  
 I70.644 Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot  
 I70.661 Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg  
 I70.662 Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg  
 I70.663 Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs  
 I72.3 Aneurysm of iliac artery  
 I72.4 Aneurysm of artery of lower extremity  
 I73.01 Raynaud's syndrome with gangrene  
 I73.1 Thromboangiitis obliterans [Buerger's disease]  
 I73.9 Peripheral vascular disease, unspecified  
 I74.3 Embolism and thrombosis of arteries of the lower extremities  
 I74.5 Embolism and thrombosis of iliac artery  
 I74.8 Embolism and thrombosis of other arteries  
 I75.021 Atheroembolism of right lower extremity  
 I75.022 Atheroembolism of left lower extremity  
 I75.023 Atheroembolism of bilateral lower extremities  
 I76 Septic arterial embolism  
 I77.1 Stricture of artery  
 I77.3 Arterial fibromuscular dysplasia  
 I77.5 Necrosis of artery  
 I77.6 Arteritis, unspecified  
 I77.72 Dissection of iliac artery  
 I77.79 Dissection of other artery  
 I77.89 Other specified disorders of arteries and arterioles  
 I79.1 Aortitis in diseases classified elsewhere  
 I79.8 Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere  
 I96 Gangrene, not elsewhere classified  
 Q27.32 Arteriovenous malformation of vessel of lower limb  
 Q27.39 Arteriovenous malformation, other site  
 S75.011A Minor laceration of femoral artery, right leg, initial encounter  
 S75.012A Minor laceration of femoral artery, left leg, initial encounter  
 S75.021A Major laceration of femoral artery, right leg, initial encounter  
 S75.022A Major laceration of femoral artery, left leg, initial encounter  
 S77.01XA Crushing injury of right hip, initial encounter

S77.02XA Crushing injury of left hip, initial encounter  
 S77.11XA Crushing injury of right thigh, initial encounter  
 S77.12XA Crushing injury of left thigh, initial encounter  
 S77.21XA Crushing injury of right hip with thigh, initial encounter  
 S77.22XA Crushing injury of left hip with thigh, initial encounter  
 S85.011A Laceration of popliteal artery, right leg, initial encounter  
 S85.012A Laceration of popliteal artery, left leg, initial encounter  
 S85.091A Other specified injury of popliteal artery, right leg, initial encounter  
 S85.092A Other specified injury of popliteal artery, left leg, initial encounter  
 S85.141A Laceration of anterior tibial artery, right leg, initial encounter  
 S85.142A Laceration of anterior tibial artery, left leg, initial encounter  
 S85.151A Other specified injury of anterior tibial artery, right leg, initial encounter  
 S85.152A Other specified injury of anterior tibial artery, left leg, initial encounter  
 S85.171A Laceration of posterior tibial artery, right leg, initial encounter  
 S85.172A Laceration of posterior tibial artery, left leg, initial encounter  
 S85.181A Other specified injury of posterior tibial artery, right leg, initial encounter  
 S85.182A Other specified injury of posterior tibial artery, left leg, initial encounter  
 S87.01XA Crushing injury of right knee, initial encounter  
 S87.02XA Crushing injury of left knee, initial encounter  
 S87.81XA Crushing injury of right lower leg, initial encounter  
 S87.82XA Crushing injury of left lower leg, initial encounter  
 S97.01XA Crushing injury of right ankle, initial encounter  
 S97.02XA Crushing injury of left ankle, initial encounter  
 S97.111A Crushing injury of right great toe, initial encounter  
 S97.112A Crushing injury of left great toe, initial encounter  
 S97.121A Crushing injury of right lesser toe(s), initial encounter  
 S97.122A Crushing injury of left lesser toe(s), initial encounter  
 S97.81XA Crushing injury of right foot, initial encounter  
 S97.82XA Crushing injury of left foot, initial encounter  
 T82.311A Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter  
 T82.318A Breakdown (mechanical) of other vascular grafts, initial encounter  
 T82.321A Displacement of carotid arterial graft (bypass), initial encounter  
 T82.328A Displacement of other vascular grafts, initial encounter  
 T82.331A Leakage of carotid arterial graft (bypass), initial encounter  
 T82.338A Leakage of other vascular grafts, initial encounter  
 T82.391A Other mechanical complication of carotid arterial graft (bypass), initial encounter  
 T82.398A Other mechanical complication of other vascular grafts, initial encounter  
 Z09 Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm

**Showing 1 to 167 of 167 entries in Group 2**

**Group 3 Paragraph: MRA of the Abdomen and Pelvis (74185, 72198, C8900, C8901, C8902, C8918, C8919, C8920)** are covered for the following diagnoses:

### Group 3 Codes:

ICD-10 Code	Description
C64.1	Malignant neoplasm of right kidney, except renal pelvis
C64.2	Malignant neoplasm of left kidney, except renal pelvis
C65.1	Malignant neoplasm of right renal pelvis
C65.2	Malignant neoplasm of left renal pelvis
C68.8	Malignant neoplasm of overlapping sites of urinary organs
D30.01	Benign neoplasm of right kidney
D30.02	Benign neoplasm of left kidney
I10	Essential (primary) hypertension
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
I15.0	Renovascular hypertension
I15.1	Hypertension secondary to other renal disorders
I70.0	Atherosclerosis of aorta
I70.1	Atherosclerosis of renal artery
I70.201	Unspecified atherosclerosis of native arteries of extremities, right leg
I70.202	Unspecified atherosclerosis of native arteries of extremities, left leg
I70.203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs
I70.211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg
I70.212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg
I70.213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs
I70.221	Atherosclerosis of native arteries of extremities with rest pain, right leg
I70.222	Atherosclerosis of native arteries of extremities with rest pain, left leg
I70.223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
I70.231	Atherosclerosis of native arteries of right leg with ulceration of thigh
I70.232	Atherosclerosis of native arteries of right leg with ulceration of calf
I70.233	Atherosclerosis of native arteries of right leg with ulceration of ankle
I70.234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot
I70.241	Atherosclerosis of native arteries of left leg with ulceration of thigh
I70.242	Atherosclerosis of native arteries of left leg with ulceration of calf

I70.243 Atherosclerosis of native arteries of left leg with ulceration of ankle  
I70.244 Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot  
I70.261 Atherosclerosis of native arteries of extremities with gangrene, right leg  
I70.262 Atherosclerosis of native arteries of extremities with gangrene, left leg  
I70.263 Atherosclerosis of native arteries of extremities with gangrene, bilateral legs  
I71.02 Dissection of abdominal aorta  
I71.03 Dissection of thoracoabdominal aorta  
I71.4 Abdominal aortic aneurysm, without rupture  
I71.6 Thoracoabdominal aortic aneurysm, without rupture  
I71.9 Aortic aneurysm of unspecified site, without rupture  
I72.2 Aneurysm of renal artery  
I72.3 Aneurysm of iliac artery  
I72.4 Aneurysm of artery of lower extremity  
I72.8 Aneurysm of other specified arteries  
I73.9 Peripheral vascular disease, unspecified  
I74.01 Saddle embolus of abdominal aorta  
I74.09 Other arterial embolism and thrombosis of abdominal aorta  
I74.11 Embolism and thrombosis of thoracic aorta  
I74.5 Embolism and thrombosis of iliac artery  
I75.81 Atheroembolism of kidney  
I76 Septic arterial embolism  
I77.0 Arteriovenous fistula, acquired  
I77.1 Stricture of artery  
I77.3 Arterial fibromuscular dysplasia  
I77.4 Celiac artery compression syndrome  
I77.5 Necrosis of artery  
I77.72 Dissection of iliac artery  
I77.73 Dissection of renal artery  
I77.89 Other specified disorders of arteries and arterioles  
K55.0 Acute vascular disorders of intestine  
K55.1 Chronic vascular disorders of intestine  
N17.0 Acute kidney failure with tubular necrosis  
N17.1 Acute kidney failure with acute cortical necrosis  
N17.2 Acute kidney failure with medullary necrosis  
N17.8 Other acute kidney failure  
N17.9 Acute kidney failure, unspecified  
N18.1 Chronic kidney disease, stage 1  
N18.2 Chronic kidney disease, stage 2 (mild)  
N18.3 Chronic kidney disease, stage 3 (moderate)  
N18.4 Chronic kidney disease, stage 4 (severe)  
N18.5 Chronic kidney disease, stage 5  
N18.6 End stage renal disease  
N18.9 Chronic kidney disease, unspecified  
N26.9 Renal sclerosis, unspecified  
N27.0 Small kidney, unilateral  
N27.1 Small kidney, bilateral  
N27.9 Small kidney, unspecified  
N28.0 Ischemia and infarction of kidney



Q27.1 Congenital renal artery stenosis  
 Q27.2 Other congenital malformations of renal artery  
 Q27.34 Arteriovenous malformation of renal vessel  
 R93.5 Abnormal findings on diagnostic imaging of other abdominal regions, including retroperitoneum  
 S31.001A Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, initial encounter  
 S35.01XA Minor laceration of abdominal aorta, initial encounter  
 S35.02XA Major laceration of abdominal aorta, initial encounter  
 S35.09XA Other injury of abdominal aorta, initial encounter  
 S35.411A Laceration of right renal artery, initial encounter  
 S35.412A Laceration of left renal artery, initial encounter  
 S35.413A Laceration of unspecified renal artery, initial encounter  
 S35.416A Laceration of unspecified renal vein, initial encounter  
 S35.491A Other specified injury of right renal artery, initial encounter  
 S35.492A Other specified injury of left renal artery, initial encounter  
 S35.493A Other specified injury of unspecified renal artery, initial encounter  
 S35.496A Other specified injury of unspecified renal vein, initial encounter  
 S35.511A Injury of right iliac artery, initial encounter  
 S35.512A Injury of left iliac artery, initial encounter  
 S35.513A Injury of unspecified iliac artery, initial encounter  
 S37.001A Unspecified injury of right kidney, initial encounter  
 S37.002A Unspecified injury of left kidney, initial encounter  
 S37.011A Minor contusion of right kidney, initial encounter  
 S37.012A Minor contusion of left kidney, initial encounter  
 S37.021A Major contusion of right kidney, initial encounter  
 S37.022A Major contusion of left kidney, initial encounter  
 S37.031A Laceration of right kidney, unspecified degree, initial encounter  
 S37.032S Laceration of left kidney, unspecified degree, sequela  
 S37.041A Minor laceration of right kidney, initial encounter  
 S37.042A Minor laceration of left kidney, initial encounter  
 S37.051A Moderate laceration of right kidney, initial encounter  
 S37.052A Moderate laceration of left kidney, initial encounter  
 S37.061A Major laceration of right kidney, initial encounter  
 S37.062A Major laceration of left kidney, initial encounter  
 T81.711A Complication of renal artery following a procedure, not elsewhere classified, initial encounter  
 T82.311A Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter  
 T82.318A Breakdown (mechanical) of other vascular grafts, initial encounter  
 T82.321A Displacement of carotid arterial graft (bypass), initial encounter  
 T82.328A Displacement of other vascular grafts, initial encounter  
 T82.331A Leakage of carotid arterial graft (bypass), initial encounter  
 T82.338A Leakage of other vascular grafts, initial encounter  
 T82.391A Other mechanical complication of carotid arterial graft (bypass), initial encounter  
 T82.398A Other mechanical complication of other vascular grafts, initial encounter  
 T82.7XXA Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, initial encounter  
 T82.818A Embolism of vascular prosthetic devices, implants and grafts, initial encounter

T82.828A Fibrosis of vascular prosthetic devices, implants and grafts, initial encounter  
 T82.838A Hemorrhage of vascular prosthetic devices, implants and grafts, initial encounter  
 T82.848A Pain from vascular prosthetic devices, implants and grafts, initial encounter  
 T82.858A Stenosis of vascular prosthetic devices, implants and grafts, initial encounter  
 T82.868A Thrombosis of vascular prosthetic devices, implants and grafts, initial encounter  
 T86.11 Kidney transplant rejection  
 T86.12 Kidney transplant failure  
 T86.13 Kidney transplant infection  
 T86.890 Other transplanted tissue rejection  
 T86.891 Other transplanted tissue failure  
 T86.892 Other transplanted tissue infection  
 Z00.5 Encounter for examination of potential donor of organ and tissue  
 Z48.22 Encounter for aftercare following kidney transplant  
 Z48.812 Encounter for surgical aftercare following surgery on the circulatory system  
 Z52.4 Kidney donor  
 Z94.0 Kidney transplant status

**Showing 1 to 141 of 141 entries in Group 3**

**Group 4 Paragraph: MRA of the Chest** (71555, C8909, C8910, C8911) are covered for the following diagnoses:

**Group 4 Codes:**

<b>ICD-10 Code</b>	<b>Description</b>
A52.01	Syphilitic aneurysm of aorta
I26.01	Septic pulmonary embolism with acute cor pulmonale
I26.02	Saddle embolus of pulmonary artery with acute cor pulmonale
I26.09	Other pulmonary embolism with acute cor pulmonale
I26.90	Septic pulmonary embolism without acute cor pulmonale
I26.92	Saddle embolus of pulmonary artery without acute cor pulmonale
I26.99	Other pulmonary embolism without acute cor pulmonale
I28.1	Aneurysm of pulmonary artery
I71.01	Dissection of thoracic aorta
I71.03	Dissection of thoracoabdominal aorta
I71.2	Thoracic aortic aneurysm, without rupture
I71.6	Thoracoabdominal aortic aneurysm, without rupture
I71.9	Aortic aneurysm of unspecified site, without rupture
I74.11	Embolism and thrombosis of thoracic aorta
I76	Septic arterial embolism
M31.4	Aortic arch syndrome [Takayasu]
N17.9	Acute kidney failure, unspecified

N18.3	Chronic kidney disease, stage 3 (moderate)
N18.4	Chronic kidney disease, stage 4 (severe)
N18.5	Chronic kidney disease, stage 5
N18.6	End stage renal disease
N19	Unspecified kidney failure
Q25.1	Coarctation of aorta
Q25.2	Atresia of aorta
Q87.410	Marfan's syndrome with aortic dilation
Q87.418	Marfan's syndrome with other cardiovascular manifestations
R07.9	Chest pain, unspecified
R93.1	Abnormal findings on diagnostic imaging of heart and coronary circulation
R94.2	Abnormal results of pulmonary function studies
T80.0XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter
T81.718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter
T81.72XA	Complication of vein following a procedure, not elsewhere classified, initial encounter
T82.817A	Embolism of cardiac prosthetic devices, implants and grafts, initial encounter
T82.818A	Embolism of vascular prosthetic devices, implants and grafts, initial encounter
Z09	Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
Z85.01	Personal history of malignant neoplasm of esophagus
Z86.79	Personal history of other diseases of the circulatory system
Z88.8*	Allergy status to other drugs, medicaments and biological substances status
Z91.041	Radiographic dye allergy status
Z91.048	Other nonmedicinal substance allergy status

**Group 4 Medical Necessity ICD-10 Codes Asterisk Explanation: \*\*When billing for personal history of allergy to other specified medicinal agents, document the ICD-10-CM code for pulmonary embolism or abnormal lung scan as the primary diagnosis and Z88.8 as the secondary.**

**Showing 1 to 40 of 40 entries in Group 4**

### **ICD-10 Codes that DO NOT Support Medical Necessity**

**Group 1 Paragraph:** All those not listed under the “ICD-10 Codes that Support Medical Necessity” section of this policy.

**Group 1 Codes:** N/A

### **Additional ICD-10 Information**

N/A

## **General Information**

### **Associated Information**

#### **Documentation Requirements**

1. All documentation must be maintained in the patient's medical record and made available to the contractor upon request.
2. Every page of the record must be legible and include appropriate patient identification information (e.g., complete name, dates of service(s)). The record must include the legible signature of the physician or non-physician practitioner responsible for and providing the care to the patient.
3. The submitted medical record should support the use of the selected ICD-10-CM code(s). The submitted CPT/HCPCS code should describe the service performed.
4. Documentation must support the reasonable and necessary requirements as outlined under the coverage and limitations sections detailed above.
5. Documentation to support the medical necessity of the combined use of MRA and CA must be maintained in the patient's medical record.
6. Hospital, office or mobile unit records should clearly document the service was performed by or under direct physician supervision, reason for the exam and its frequency. In addition, mobile units must maintain a record of the attending physician's order for a scan performed in their facility.
7. In instances where multiple diagnostic services are medically necessary, documentation supporting this need must be available upon request.
8. When billing for personal history of allergy to other specified medicinal agents, document the ICD-10-CM code for pulmonary embolism or abnormal lung scan as the primary diagnosis and Z88.8 as the secondary.

#### **Utilization Guidelines**

In accordance with CMS Ruling 95-1 (V), utilization of these services should be consistent with locally acceptable standards of practice.

#### **Sources of Information and Basis for Decision**

Contractor is not responsible for the continued viability of websites listed.

Sanchez T, Santoro P, Torres de Medeiros I, et al. Magnetic Resonance Angiography in Pulsatile Tinnitus: The Role of Anatomical Variations. *Int Tinnitus J.* 1998; 4(2): 122-126.

*Annals Int Med* May 1994; 120:10; 856-871, 872-875.

Other Contractor(s)'s Policies

Individual Local medical Review Policies:

- Arkansas Magnetic Resonance Angiography Rev 2
- Louisiana Magnetic Resonance Angiography (MRA-Revision 1998);
- Missouri Magnetic Resonance Angiography, #99;
- Oklahoma and New Mexico Magnetic Resonance Angiography, #N001; and
- Rhode Island Magnetic Resonance Angiography (MRA), RI-2000-106.

AR Part A, ARA-03-010

L27392 Trispan Legacy Policy

L31399 Highmark Medicare Services MRA LCD International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM), 6th Edition, Practice Management Information Corporation, 2008.

American Medical Association, 2009 CPT, Physicians&apos; Current Procedural Terminology, Professional Edition, 2008.

Health Care Procedure Coding System (HCPCS) National Level II Medicare Codes, Millennium Edition, Practice Management Information Corporation, 2008.

Contractor Medical Directors

### Revision History Information

**Please note: Most Revision History entries effective on or before 01/24/2013 display with a Revision History Number of "R1" at the bottom of this table. However, there may be LCDs where these entries will display as a separate and distinct row.**

Revision History Date	Revision History Number	Revision History Explanation	Reason(s) for Change
10/01/2015	R2	LCD revised and published on 06/25/2015.	• Creation of Uniform LCDs Within a MAC Jurisdiction
10/01/2015	R1	LCD revised on 05/28/2014 to add ICD-10 codes H93.11, H93.12, H93.13 and H93.19 as a covered diagnosis for MRA of the head and neck (Group 1 Diagnosis Codes) effective for dates of service on or after 10/01/2014. (LCD updated on 06/07/2014)	• Reconsideration Request • Other (CPT/HCPCS codes formerly in ranges now listed as separate codes.)

### Associated Documents

#### Attachments

N/A

#### Related Local Coverage Documents

N/A

#### Related National Coverage Documents

N/A

#### Public Version(s)

Updated on 06/24/2015 with effective dates 10/01/2015 - N/A

**Keywords**

N/A

ective dates 10/01/2015 - N/A

**Keywords**

N/A

/p>