



MASSACHUSETTS

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Medical Policy

MR Angiography (MRA) Chest

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Policy Number: 786

BCBSA Reference Number: N/A

Related Policies

- **Medicare Advantage: High-Technology Radiology and Sleep Disorder Management Clinical and Utilization Guidance Redirect, #923**
- CT/MR Angiography (CTA/MRA) Head: Cerebrovascular, #768
- CT/MR Angiography (CTA/MRA) Neck, #769
- MR Angiography (MRA) Spinal Canal, #789

Policy¹

Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity

ADULTS

MR Angiography (MRA) Chest is considered [MEDICALLY NECESSARY](#) for the following conditions:

Common Chest MRA

Developmental anomalies of the thoracic vasculature

- Examples of congenital thoracic vascular anomalies include but are not limited to the following:
 - Aortic coarctation
 - Double aortic arch
 - Hypoplastic or atretic pulmonary arteries
 - Inferior vena caval interruption
 - Partial anomalous pulmonary venous return
 - Patent ductus arteriosus
 - Persistent left-sided superior vena cava
 - Right-sided aortic arch
 - Total anomalous pulmonary venous return
 - Transposition of the great vessels
 - Truncus arteriosus

Post-traumatic vascular injury

Subclavian steal

Systemic venous thrombosis or occlusion, including superior vena cava (SVC) syndrome

Thoracic outlet syndrome

Vascular involvement from neoplasm in the chest

Thoracic Aorta and Great Vessel

Atheromatous disease

(All of the following)

- When CT is contraindicated
- Evaluation of the thoracic aorta as a source of distal emboli when transthoracic and/or transesophageal echocardiography are non-diagnostic

Post-operative or post-procedure evaluation

Stent graft evaluation, including detection of an endoleak

- Pre-procedure assessment and post-procedure follow-up

Thoracic aorta evaluation

Acute aortic syndrome

(any one of the following)

- Diagnosis and management
- periodic surveillance in patients with established acute aortic syndrome undergoing medical management

Note: Initial diagnosis of acute aortic syndrome is considered a medical emergency. This policy includes aortic rupture, dissection, pseudoaneurysm, mural hematoma, and penetrating ulcer mediastinal hematoma

Non-acute thoracic aorta

(any one of the following)

- In patients with suspected thoracic aortic aneurysm
- In patients with confirmed thoracic aortic aneurysm with new or worsening signs/symptoms
- For ongoing surveillance of stable patients with confirmed thoracic aortic aneurysm who have not undergone imaging of the thoracic aorta within the preceding six months
- In patients with confirmed aortic dissection in whom surgical repair is anticipated (to assist in preoperative planning)
- For ongoing surveillance of stable patients with confirmed aortic dissection who have not undergone imaging of the thoracic aorta within the preceding year
- In patients with confirmed aortic dissection or thoracic aortic aneurysm who have undergone surgical repair within the preceding year and have not undergone imaging of the thoracic aorta within the preceding six months
- In patients being evaluated for potential transcatheter aortic valve implantation/replacement (TAVI or TAVR) provided that the patient has not undergone CTA or MRA of the chest within the preceding 60 days

Note: See acute aortic syndrome (section above) for complications of aneurysm including aortic dissection.

Vasculitis

Pulmonary Artery and Vein

Pulmonary arterial hypertension

Pulmonary arteriovenous malformation (AVM)

Pulmonary sequestration

PEDIATRICS

MR Angiography (MRA) Chest is considered **MEDICALLY NECESSARY** for the following conditions:

General Chest

Developmental anomaly of the thoracic vasculature (any one of the following)

- Aortic coarctation
- Double aortic arch
- Hypoplastic or atretic pulmonary arteries
- Inferior vena caval interruption
- Partial anomalous pulmonary venous return
- Patent ductus arteriosus
- Persistent left-sided superior vena cava
- Right-sided aortic arch
- Total anomalous pulmonary venous return
- Transposition of the great vessels
- Truncus arteriosus

Post-traumatic vascular injury

Subclavian steal syndrome

Systemic venous thrombosis or occlusion

Note: Includes superior vena cava (SVC) syndrome

Thoracic outlet syndrome

Vascular involvement from neoplasm in the chest

Pulmonary Artery and Vein

Arteriovenous malformation (AVM), pulmonary

Pulmonary arterial hypertension

Pulmonary embolism

(any one of the following)

- Pulmonary embolism is clinically suspected
 - Follow-up when recurrent thromboembolism is a concern in patients on adequate medical therapy
- Note: MRA/MRV is rarely requested to evaluate pulmonary embolism. It is used only in selected cases. For example, intravenous iodinated contrast material for a CTA is contraindicated due to significant iodinated contrast allergy, and a diagnostic ventilation/perfusion (V/Q) study cannot be obtained*

Pulmonary sequestration

Thoracic Aorta and Great Vessel

Evaluation of the thoracic aorta (any one of the following)

- Evaluation when there is concern for complications (such as dissection)
- Further characterization of suspected aneurysm based on prior diagnostic or imaging study
- Patient with confirmed aortic dissection experiencing new or worsening symptoms
- Periodic surveillance (**any one of the following**)
 - High risk patient (patient with connective tissue disease or coarctation of the aorta)
 - Patient with known thoracic aneurysm
- Post-operative evaluation
- Preoperative evaluation

Note: *Echocardiogram is generally recommended as a first line modality for evaluation of the ascending aorta in pediatric patients*

Hematoma

Post-operative or post-procedure evaluation

Vasculitis

◆ *List may not be exclusive*

Prior Authorization Information

Inpatient

- For services described in this policy, precertification/preauthorization **IS REQUIRED** for all products if the procedure is performed **inpatient**.

Outpatient

- For services described in this policy, see below for products where prior authorization **might be required** if the procedure is performed **outpatient**.

	Outpatient
Commercial Managed Care (HMO and POS)	The requirements of BCBSMA Radiology Management Program may require a precertification/prior authorization via AIM Specialty Health. These requirements are member-specific:
Commercial PPO and Indemnity	Please verify member eligibility and requirements through Online Services by logging onto Provider Central . Refer to our Quick Tip for an overview of pre-certification and prior authorization requirements. Ordering clinicians should request pre-certification from AIM Specialty Health or call 1-866-745-1783 (when applicable). Prior authorization information for Medicare HMO Blue and Medicare PPO Blue is addressed in medical policy #923, High Technology Radiology and Sleep Disorder Management for Medicare Advantage Products .

Policy History

Date	Action
3/2018	Pulmonary embolism criteria removed. Effective 3/12/2018. Based on AIM Clinical Appropriateness Guidelines: Advanced Imaging Appropriate Use Criteria: Imaging of the Chest. Effective Date: March 12, 2018.
1/2018	Prior authorization information for Medicare HMO Blue and Medicare PPO Blue removed.

	Prior authorization information for Medicare HMO Blue and Medicare PPO Blue is addressed in medical policy #923, High Technology Radiology and Sleep Disorder Management for Medicare Advantage Products . 1/1/2018
11/2017	Clarified coding information.
10/2017	Clarified coding information.
5/2017	Prior Authorization Information clarified. 5/1/2017
4/2017	Policy updated to include pediatric imaging indications. Effective 4/1/2017. Adopted AIM Clinical Appropriateness Guidelines: Advanced Imaging Appropriate Use Criteria: Pediatric Imaging. Effective Date: February 20, 2017.
10/2016	Clarified coding information.
7/2016	New medical policy describing medically necessary indications. Effective 7/1/2016. Adopted AIM Clinical Appropriateness Guidelines: Advanced Imaging Appropriate Use Criteria: Imaging of the Chest. Effective Date: May 4, 2015

Information Pertaining to All Blue Cross Blue Shield Medical Policies

Click on any of the following terms to access the relevant information:

[Medical Policy Terms of Use](#)

[Managed Care Guidelines](#)

[Indemnity/PPO Guidelines](#)

[Clinical Exception Process](#)

[Medical Technology Assessment Guidelines](#)

References

1. Ho VB, Corse WR, Hood MN, Rowedder AM. Magnetic resonance angiography of the thoracic vessels. *Semin Ultrasound CT MR*. 2003 Aug;24(4):192-216.
2. Holmes DR Jr, Mack MJ, Kaul S, et al. 2012 ACCF/AATS/SCAI/STS expert consensus document on transcatheter aortic valve replacement. *J Am Coll Cardiol*. 2012 Mar 27;59(13):1200-1254.
3. Maki DD, Siegelman ES, Roberts DA, Baum RA, Geffer WB. Pulmonary arteriovenous malformations: three-dimensional gadolinium-enhanced MR angiography-initial experience. *Radiology*. 2001;219(1):243-246.
4. Pereles FS, McCarthy RM, Baskaran V, et al. Thoracic aortic dissection and aneurysm: evaluation with nonenhanced true FISP MR angiography in less than 4 minutes. *Radiology*. 2002;223(1):270-274.
5. Sonnet S, Buitrago-Téllez CH, Scheffler K, et al. Dynamic time-resolved contrast-enhanced two-dimensional MR projection angiography of the pulmonary circulation: standard technique and clinical applications. *AJR Am J Roengenol*. 2002;179(1):159-165.
6. Wu C, Zhang J, Ladner CJ, et al. Subclavian steal syndrome: diagnosis with perfusion metrics from contrast-enhanced MR angiographic bolus-timing examination – initial experience. *Radiology*. 2005;235(3):927-933.

CPT Codes / HCPCS Codes / ICD Codes

Inclusion or exclusion of a code does not constitute or imply member coverage or provider reimbursement. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage as it applies to an individual member.

Providers should report all services using the most up-to-date industry-standard procedure, revenue, and diagnosis codes, including modifiers where applicable.

The following codes are included below for informational purposes only; this is not an all-inclusive list.

The above medical necessity criteria MUST be met for the following codes to be covered for Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity:

CPT Codes

CPT codes:	Code Description
71555	MRA of chest (excluding the myocardium) without contrast, followed by re-imaging with contrast

The following ICD Diagnosis Codes are considered medically necessary when submitted with the CPT codes above if medical necessity criteria are met:

ICD-10 Coding Diagnosis

ICD-10 Code	ICD-10 Name
A52.01	Syphilitic aneurysm of aorta
C34.00	Malignant neoplasm of unspecified main bronchus
C34.01	Malignant neoplasm of right main bronchus
C34.02	Malignant neoplasm of left main bronchus
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung
C34.2	Malignant neoplasm of middle lobe, bronchus or lung
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung
C37	Malignant neoplasm of thymus
C38.0	Malignant neoplasm of heart
C38.1	Malignant neoplasm of anterior mediastinum
C38.2	Malignant neoplasm of posterior mediastinum
C38.3	Malignant neoplasm of mediastinum, part unspecified
C38.4	Malignant neoplasm of pleura
C38.8	Malignant neoplasm of overlapping sites of heart, mediastinum and pleura
C39.0	Malignant neoplasm of upper respiratory tract, part unspecified
C39.9	Malignant neoplasm of lower respiratory tract, part unspecified
C41.3	Malignant neoplasm of ribs, sternum and clavicle
C45.0	Mesothelioma of pleura
C45.1	Mesothelioma of peritoneum
C45.2	Mesothelioma of pericardium
C45.7	Mesothelioma of other sites
C45.9	Mesothelioma, unspecified
C46.3	Kaposi's sarcoma of lymph nodes
C46.50	Kaposi's sarcoma of unspecified lung

C46.51	Kaposi's sarcoma of right lung
C46.52	Kaposi's sarcoma of left lung
C47.3	Malignant neoplasm of peripheral nerves of thorax
C49.3	Malignant neoplasm of connective and soft tissue of thorax
C50.011	Malignant neoplasm of nipple and areola, right female breast
C50.012	Malignant neoplasm of nipple and areola, left female breast
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast
C50.021	Malignant neoplasm of nipple and areola, right male breast
C50.022	Malignant neoplasm of nipple and areola, left male breast
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast
C50.111	Malignant neoplasm of central portion of right female breast
C50.112	Malignant neoplasm of central portion of left female breast
C50.119	Malignant neoplasm of central portion of unspecified female breast
C50.121	Malignant neoplasm of central portion of right male breast
C50.122	Malignant neoplasm of central portion of left male breast
C50.129	Malignant neoplasm of central portion of unspecified male breast
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast
C50.611	Malignant neoplasm of axillary tail of right female breast
C50.612	Malignant neoplasm of axillary tail of left female breast
C50.619	Malignant neoplasm of axillary tail of unspecified female breast

C50.621	Malignant neoplasm of axillary tail of right male breast
C50.622	Malignant neoplasm of axillary tail of left male breast
C50.629	Malignant neoplasm of axillary tail of unspecified male breast
C50.811	Malignant neoplasm of overlapping sites of right female breast
C50.812	Malignant neoplasm of overlapping sites of left female breast
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast
C50.821	Malignant neoplasm of overlapping sites of right male breast
C50.822	Malignant neoplasm of overlapping sites of left male breast
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast
C50.911	Malignant neoplasm of unspecified site of right female breast
C50.912	Malignant neoplasm of unspecified site of left female breast
C50.919	Malignant neoplasm of unspecified site of unspecified female breast
C50.921	Malignant neoplasm of unspecified site of right male breast
C50.922	Malignant neoplasm of unspecified site of left male breast
C50.929	Malignant neoplasm of unspecified site of unspecified male breast
C75.5	Malignant neoplasm of aortic body and other paraganglia
C76.1	Malignant neoplasm of thorax
C77.1	Secondary and unspecified malignant neoplasm of intrathoracic lymph nodes
C78.00	Secondary malignant neoplasm of unspecified lung
C78.01	Secondary malignant neoplasm of right lung
C78.02	Secondary malignant neoplasm of left lung
C78.1	Secondary malignant neoplasm of mediastinum
C78.2	Secondary malignant neoplasm of pleura
C78.30	Secondary malignant neoplasm of unspecified respiratory organ
C78.39	Secondary malignant neoplasm of other respiratory organs
C79.51	Secondary malignant neoplasm of bone
C79.81	Secondary malignant neoplasm of breast
C79.89	Secondary malignant neoplasm of other specified sites
C7A.090	Malignant carcinoid tumor of the bronchus and lung
C7A.091	Malignant carcinoid tumor of the thymus
C80.0	Disseminated malignant neoplasm, unspecified
C80.1	Malignant (primary) neoplasm, unspecified
C80.2	Malignant neoplasm associated with transplanted organ
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes
C81.12	Nodular sclerosis classical Hodgkin lymphoma, intrathoracic lymph nodes
C81.22	Mixed cellularity classical Hodgkin lymphoma, intrathoracic lymph nodes
C81.32	Lymphocyte depleted classical Hodgkin lymphoma, intrathoracic lymph nodes
C81.42	Lymphocyte-rich classical Hodgkin lymphoma, intrathoracic lymph nodes
C81.72	Other classical Hodgkin lymphoma, intrathoracic lymph nodes
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes

C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes
C83.72	Burkitt lymphoma, intrathoracic lymph nodes
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes
C84.02	Mycosis fungoides, intrathoracic lymph nodes
C84.12	Sezary disease, intrathoracic lymph nodes
C84.42	Peripheral T-cell lymphoma, not classified, intrathoracic lymph nodes
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]
D02.20	Carcinoma in situ of unspecified bronchus and lung
D02.21	Carcinoma in situ of right bronchus and lung
D02.22	Carcinoma in situ of left bronchus and lung
D02.3	Carcinoma in situ of other parts of respiratory system
D02.4	Carcinoma in situ of respiratory system, unspecified
D05.00	Lobular carcinoma in situ of unspecified breast
D05.01	Lobular carcinoma in situ of right breast
D05.02	Lobular carcinoma in situ of left breast
D05.10	Intraductal carcinoma in situ of unspecified breast
D05.11	Intraductal carcinoma in situ of right breast
D05.12	Intraductal carcinoma in situ of left breast
D05.80	Other specified type of carcinoma in situ of unspecified breast
D05.81	Other specified type of carcinoma in situ of right breast
D05.82	Other specified type of carcinoma in situ of left breast
D05.90	Unspecified type of carcinoma in situ of unspecified breast
D05.91	Unspecified type of carcinoma in situ of right breast

D05.92	Unspecified type of carcinoma in situ of left breast
D09.8	Carcinoma in situ of other specified sites
D14.30	Benign neoplasm of unspecified bronchus and lung
D14.31	Benign neoplasm of right bronchus and lung
D14.32	Benign neoplasm of left bronchus and lung
D14.4	Benign neoplasm of respiratory system, unspecified
D15.0	Benign neoplasm of thymus
D15.1	Benign neoplasm of heart
D15.2	Benign neoplasm of mediastinum
D15.7	Benign neoplasm of other specified intrathoracic organs
D15.9	Benign neoplasm of intrathoracic organ, unspecified
D17.4	Benign neoplasm of intrathoracic organ, unspecified
D19.0	Benign neoplasm of mesothelial tissue of pleura
D21.3	Benign neoplasm of connective and other soft tissue of thorax
D24.1	Benign neoplasm of right breast
D24.2	Benign neoplasm of left breast
D24.9	Benign neoplasm of unspecified breast
D36.0	Benign neoplasm of lymph nodes
D36.14	Benign neoplasm of peripheral nerves and autonomic nervous system of thorax
D36.7	Benign neoplasm of other specified sites
D38.1	Neoplasm of uncertain behavior of trachea, bronchus and lung
D38.2	Neoplasm of uncertain behavior of pleura
D38.3	Neoplasm of uncertain behavior of mediastinum
D38.4	Neoplasm of uncertain behavior of thymus
D38.5	Neoplasm of uncertain behavior of other respiratory organs
D38.6	Neoplasm of uncertain behavior of respiratory organ, unspecified
D48.1	Neoplasm of uncertain behavior of connective and other soft tissue
D48.2	Neoplasm of uncertain behavior of peripheral nerves and autonomic nervous system
D48.60	Neoplasm of uncertain behavior of unspecified breast
D48.61	Neoplasm of uncertain behavior of right breast
D48.62	Neoplasm of uncertain behavior of left breast
D48.7	Neoplasm of uncertain behavior of other specified sites
D49.1	Neoplasm of unspecified behavior of respiratory system
D49.2	Neoplasm of unspecified behavior of bone, soft tissue, and skin
D49.89	Neoplasm of unspecified behavior of other specified sites
E78.71	Barth syndrome
E78.72	Smith-Lemli-Opitz syndrome
G45.8	Other transient cerebral ischemic attacks and related syndromes
G54.0	Brachial plexus disorders
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

I26.99	Other pulmonary embolism without acute cor pulmonale
I27.0	Primary pulmonary hypertension
I27.20	Pulmonary hypertension, unspecified
I27.21	Secondary pulmonary arterial hypertension
I27.22	Pulmonary hypertension due to left heart disease
I27.23	Pulmonary hypertension due to lung diseases and hypoxia
I27.24	Chronic thromboembolic pulmonary hypertension
I27.29	Other secondary pulmonary hypertension
I27.81	Cor pulmonale (chronic)
I27.82	Chronic pulmonary embolism
I27.83	Eisenmenger's syndrome
I27.89	Other specified pulmonary heart diseases
I27.9	Pulmonary heart disease, unspecified
I28.1	Aneurysm of pulmonary artery
I35.0	Nonrheumatic aortic (valve) stenosis
I35.1	Nonrheumatic aortic (valve) insufficiency
I35.2	Nonrheumatic aortic (valve) stenosis with insufficiency
I35.8	Other nonrheumatic aortic valve disorders
I35.9	Nonrheumatic aortic valve disorder, unspecified
I36.0	Nonrheumatic tricuspid (valve) stenosis
I36.1	Nonrheumatic tricuspid (valve) insufficiency
I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
I36.8	Other nonrheumatic tricuspid valve disorders
I36.9	Nonrheumatic tricuspid valve disorder, unspecified
I37.0	Nonrheumatic pulmonary valve stenosis
I37.1	Nonrheumatic pulmonary valve insufficiency
I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency
I37.8	Other nonrheumatic pulmonary valve disorders
I37.9	Nonrheumatic pulmonary valve disorder, unspecified
I70.0	Atherosclerosis of aorta
I71.00	Dissection of unspecified site of aorta
I71.01	Dissection of thoracic aorta
I71.03	Dissection of thoracoabdominal aorta
I71.1	Thoracic aortic aneurysm, ruptured
I71.2	Thoracic aortic aneurysm, without rupture
I71.5	Thoracoabdominal aortic aneurysm, ruptured
I71.6	Thoracoabdominal aortic aneurysm, without rupture
I71.9	Aortic aneurysm of unspecified site, without rupture
I72.8	Aneurysm of other specified arteries
I74.11	Embolism and thrombosis of thoracic aorta
I77.6	Arteritis, unspecified
I79.0	Aneurysm of aorta in diseases classified elsewhere
I82.290	Acute Embolism And Thrombosis Of Other Thoracic Veins

I82.609	Acute Embolism And Thrombosis Of Unspecified Veins Of Unspecified Upper Extremity
I82.619	Acute Embolism And Thrombosis Of Superficial Veins Of Unspecified Upper Extremity
I82.629	Acute Embolism And Thrombosis Of Deep Veins Of Unspecified Upper Extremity
I82.890	Acute Embolism And Thrombosis Of Other Specified Veins
I82.A19	Acute Embolism And Thrombosis Of Unspecified Axillary Vein
I82.C19	Acute Embolism And Thrombosis Of Unspecified Internal Jugular Vein
I87.1	Compression of vein
M31.4	Aortic arch syndrome [Takayasu]
M54.9	Dorsalgia, unspecified
P29.3	Persistent fetal circulation
Q20.0	Common arterial trunk
Q20.1	Double outlet right ventricle
Q20.2	Double outlet left ventricle
Q20.3	Discordant ventriculoarterial connection
Q20.4	Double inlet ventricle
Q20.5	Discordant atrioventricular connection
Q20.6	Isomerism of atrial appendages
Q20.8	Other congenital malformations of cardiac chambers and connections
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified
Q21.0	Ventricular septal defect
Q21.1	Atrial septal defect
Q21.2	Atrioventricular septal defect
Q21.3	Tetralogy of Fallot
Q21.4	Aortopulmonary septal defect
Q21.8	Other congenital malformations of cardiac septa
Q21.9	Congenital malformation of cardiac septum, unspecified
Q22.0	Pulmonary valve atresia
Q22.1	Congenital pulmonary valve stenosis
Q22.2	Congenital pulmonary valve insufficiency
Q22.3	Other congenital malformations of pulmonary valve
Q22.4	Congenital tricuspid stenosis
Q22.5	Ebstein's anomaly
Q22.6	Hypoplastic right heart syndrome
Q22.8	Other congenital malformations of tricuspid valve
Q22.9	Congenital malformation of tricuspid valve, unspecified
Q23.0	Congenital stenosis of aortic valve
Q23.1	Congenital insufficiency of aortic valve
Q23.2	Congenital mitral stenosis
Q23.3	Congenital mitral insufficiency
Q23.4	Hypoplastic left heart syndrome
Q23.8	Other congenital malformations of aortic and mitral valves
Q23.9	Congenital malformation of aortic and mitral valves, unspecified
Q24.0	Dextrocardia

Q24.1	Levocardia
Q24.2	Cor triatriatum
Q24.3	Pulmonary infundibular stenosis
Q24.4	Congenital subaortic stenosis
Q24.5	Malformation of coronary vessels
Q24.6	Congenital heart block
Q24.8	Other specified congenital malformations of heart
Q24.9	Congenital malformation of heart, unspecified
Q25.0	Patent ductus arteriosus
Q25.1	Coarctation of aorta
Q25.21	Interruption of aortic arch
Q25.29	Other atresia of aorta
Q25.3	Supravalvular aortic stenosis
Q25.40	Congenital malformation of aorta unspecified
Q25.41	Absence and aplasia of aorta
Q25.42	Hypoplasia of aorta
Q25.43	Congenital aneurysm of aorta
Q25.44	Congenital dilation of aorta
Q25.45	Double aortic arch
Q25.46	Tortuous aortic arch
Q25.47	Right aortic arch
Q25.48	Anomalous origin of subclavian artery
Q25.49	Other congenital malformations of aorta
Q25.5	Atresia of pulmonary artery
Q25.6	Stenosis of pulmonary artery
Q25.71	Coarctation of pulmonary artery
Q25.72	Congenital pulmonary arteriovenous malformation
Q25.79	Other congenital malformations of pulmonary artery
Q25.8	Other congenital malformations of other great arteries
Q25.9	Congenital malformation of great arteries, unspecified
Q26.0	Congenital stenosis of vena cava
Q26.1	Persistent left superior vena cava
Q26.2	Total anomalous pulmonary venous connection
Q26.3	Partial anomalous pulmonary venous connection
Q26.4	Anomalous pulmonary venous connection, unspecified
Q26.8	Other congenital malformations of great veins
Q26.9	Congenital malformation of great vein, unspecified
Q27.30	Arteriovenous malformation, site unspecified
Q27.4	Congenital phlebectasia
Q27.9	Congenital malformation of peripheral vascular system, unspecified
Q28.0	Arteriovenous malformation of precerebral vessels
Q28.1	Other malformations of precerebral vessels
Q28.8	Other specified congenital malformations of circulatory system

Q28.9	Congenital malformation of circulatory system, unspecified
Q33.2	Sequestration of lung
Q79.6	Ehlers-Danlos syndrome
Q87.2	Congenital malformation syndromes predominantly involving limbs
Q87.3	Congenital malformation syndromes involving early overgrowth
Q87.40	Marfan's syndrome, unspecified
Q87.410	Marfan's syndrome with aortic dilation
Q87.418	Marfan's syndrome with other cardiovascular manifestations
Q87.42	Marfan's syndrome with ocular manifestations
Q87.43	Marfan's syndrome with skeletal manifestation
Q87.5	Other congenital malformation syndromes with other skeletal changes
Q87.81	Alport syndrome
Q87.89	Other specified congenital malformation syndromes, not elsewhere classified
Q89.8	Other specified congenital malformations
R00.0	Tachycardia, unspecified
R03.1	Nonspecific low blood-pressure reading
R06.00	Dyspnea, unspecified
R06.02	Shortness of breath
R06.03	Acute respiratory distress
R06.09	Other forms of dyspnea
R06.89	Other abnormalities of breathing
R06.9	Unspecified abnormalities of breathing
R07.1	Chest pain on breathing
R07.89	Other chest pain
R07.9	Chest pain, unspecified
R09.02	Hypoxemia
R09.89	Other specified symptoms and signs involving the circulatory and respiratory systems
R10.0	Acute abdomen
R10.10	Upper abdominal pain, unspecified
R10.11	Right upper quadrant pain
R10.12	Left upper quadrant pain
R10.13	Epigastric pain
R10.2	Pelvic and perineal pain
R10.30	Lower abdominal pain, unspecified
R10.31	Right lower quadrant pain
R10.32	Left lower quadrant pain
R10.33	Periumbilical pain
R10.811	Right upper quadrant abdominal tenderness
R10.812	Left upper quadrant abdominal tenderness
R10.813	Right lower quadrant abdominal tenderness
R10.814	Left lower quadrant abdominal tenderness
R10.815	Periumbilic abdominal tenderness
R10.816	Epigastric abdominal tenderness

R10.817	Generalized abdominal tenderness
R10.819	Abdominal tenderness, unspecified site
R10.84	Generalized abdominal pain
R10.9	Unspecified abdominal pain
R47.9	Unspecified speech disturbances
R49.0	Dysphonia
R53.1	Weakness
R55	Syncope and collapse
S2.5329D	Major Laceration Of Unspecified Innominate Or Subclavian Vein, Subsequent Encounter
S25.00XA	Unspecified Injury Of Thoracic Aorta, Initial Encounter
S25.00XD	Unspecified Injury Of Thoracic Aorta, Subsequent Encounter
S25.00XS	Unspecified Injury Of Thoracic Aorta, Sequela
S25.01XA	Minor Laceration Of Thoracic Aorta, Initial Encounter
S25.01XD	Minor Laceration Of Thoracic Aorta, Subsequent Encounter
S25.01XS	Minor Laceration Of Thoracic Aorta, Sequela
S25.02XA	Major Laceration Of Thoracic Aorta, Initial Encounter
S25.02XD	Major Laceration Of Thoracic Aorta, Subsequent Encounter
S25.02XS	Major Laceration Of Thoracic Aorta, Sequela
S25.09XA	Other Specified Injury Of Thoracic Aorta, Initial Encounter
S25.09XD	Other Specified Injury Of Thoracic Aorta, Subsequent Encounter
S25.09XS	Other Specified Injury Of Thoracic Aorta, Sequela
S25.101A	Unspecified Injury Of Right Innominate Or Subclavian Artery, Initial Encounter
S25.101D	Unspecified Injury Of Right Innominate Or Subclavian Artery, Subsequent Encounter
S25.101S	Unspecified Injury Of Right Innominate Or Subclavian Artery, Sequela
S25.102A	Unspecified Injury Of Left Innominate Or Subclavian Artery, Initial Encounter
S25.102D	Unspecified Injury Of Left Innominate Or Subclavian Artery, Subsequent Encounter
S25.102S	Unspecified Injury Of Left Innominate Or Subclavian Artery, Sequela
S25.109A	Unspecified Injury Of Unspecified Innominate Or Subclavian Artery, Initial Encounter
S25.109D	Unspecified Injury Of Unspecified Innominate Or Subclavian Artery, Subsequent Encounter
S25.109S	Unspecified Injury Of Unspecified Innominate Or Subclavian Artery, Sequela
S25.111A	Minor Laceration Of Right Innominate Or Subclavian Artery, Initial Encounter
S25.111D	Minor Laceration Of Right Innominate Or Subclavian Artery, Subsequent Encounter
S25.111S	Minor Laceration Of Right Innominate Or Subclavian Artery, Sequela
S25.112A	Minor Laceration Of Left Innominate Or Subclavian Artery, Initial Encounter
S25.112D	Minor Laceration Of Left Innominate Or Subclavian Artery, Subsequent Encounter
S25.112S	Minor Laceration Of Left Innominate Or Subclavian Artery, Sequela
S25.119A	Minor Laceration Of Unspecified Innominate Or Subclavian Artery, Initial Encounter
S25.119D	Minor Laceration Of Unspecified Innominate Or Subclavian Artery, Subsequent Encounter
S25.119S	Minor Laceration Of Unspecified Innominate Or Subclavian Artery, Sequela
S25.121A	Major Laceration Of Right Innominate Or Subclavian Artery, Initial Encounter
S25.121D	Major Laceration Of Right Innominate Or Subclavian Artery, Subsequent Encounter
S25.121S	Major Laceration Of Right Innominate Or Subclavian Artery, Sequela
S25.122A	Major Laceration Of Left Innominate Or Subclavian Artery, Initial Encounter

S25.122D	Major Laceration Of Left Innominate Or Subclavian Artery, Subsequent Encounter
S25.122S	Major Laceration Of Left Innominate Or Subclavian Artery, Sequela
S25.129A	Major Laceration Of Unspecified Innominate Or Subclavian Artery, Initial Encounter
S25.129D	Major Laceration Of Unspecified Innominate Or Subclavian Artery, Subsequent Encounter
S25.129S	Major Laceration Of Unspecified Innominate Or Subclavian Artery, Sequela
S25.191A	Other Specified Injury Of Right Innominate Or Subclavian Artery, Initial Encounter
S25.191D	Other Specified Injury Of Right Innominate Or Subclavian Artery, Subsequent Encounter
S25.191S	Other Specified Injury Of Right Innominate Or Subclavian Artery, Sequela
S25.192A	Other Specified Injury Of Left Innominate Or Subclavian Artery, Initial Encounter
S25.192D	Other Specified Injury Of Left Innominate Or Subclavian Artery, Subsequent Encounter
S25.192S	Other Specified Injury Of Left Innominate Or Subclavian Artery, Sequela
S25.199A	Other Specified Injury Of Unspecified Innominate Or Subclavian Artery, Initial Encounter
S25.199D	Other Specified Injury Of Unspecified Innominate Or Subclavian Artery, Subsequent Encounter
S25.199S	Other Specified Injury Of Unspecified Innominate Or Subclavian Artery, Sequela
S25.20XA	Unspecified Injury Of Superior Vena Cava, Initial Encounter
S25.20XD	Unspecified Injury Of Superior Vena Cava, Subsequent Encounter
S25.20XS	Unspecified Injury Of Superior Vena Cava, Sequela
S25.21XA	Minor Laceration Of Superior Vena Cava, Initial Encounter
S25.21XD	Minor Laceration Of Superior Vena Cava, Subsequent Encounter
S25.21XS	Minor Laceration Of Superior Vena Cava, Sequela
S25.22XA	Major Laceration Of Superior Vena Cava, Initial Encounter
S25.22XD	Major Laceration Of Superior Vena Cava, Subsequent Encounter
S25.22XS	Major Laceration Of Superior Vena Cava, Sequela
S25.29XA	Other Specified Injury Of Superior Vena Cava, Initial Encounter
S25.29XD	Other Specified Injury Of Superior Vena Cava, Subsequent Encounter
S25.29XS	Other Specified Injury Of Superior Vena Cava, Sequela
S25.301A	Unspecified Injury Of Right Innominate Or Subclavian Vein, Initial Encounter
S25.301D	Unspecified Injury Of Right Innominate Or Subclavian Vein, Subsequent Encounter
S25.301S	Unspecified Injury Of Right Innominate Or Subclavian Vein, Sequela
S25.302A	Unspecified Injury Of Left Innominate Or Subclavian Vein, Initial Encounter
S25.302D	Unspecified Injury Of Left Innominate Or Subclavian Vein, Subsequent Encounter
S25.302S	Unspecified Injury Of Left Innominate Or Subclavian Vein, Sequela
S25.309A	Unspecified Injury Of Unspecified Innominate Or Subclavian Vein, Initial Encounter
S25.309D	Unspecified Injury Of Unspecified Innominate Or Subclavian Vein, Subsequent Encounter
S25.309S	Unspecified Injury Of Unspecified Innominate Or Subclavian Vein, Sequela
S25.311A	Minor Laceration Of Right Innominate Or Subclavian Vein, Initial Encounter
S25.311D	Minor Laceration Of Right Innominate Or Subclavian Vein, Subsequent Encounter
S25.311S	Minor Laceration Of Right Innominate Or Subclavian Vein, Sequela
S25.312A	Minor Laceration Of Left Innominate Or Subclavian Vein, Initial Encounter
S25.312D	Minor Laceration Of Left Innominate Or Subclavian Vein, Subsequent Encounter
S25.312S	Minor Laceration Of Left Innominate Or Subclavian Vein, Sequela
S25.319A	Minor Laceration Of Unspecified Innominate Or Subclavian Vein, Initial Encounter
S25.319D	Minor Laceration Of Unspecified Innominate Or Subclavian Vein, Subsequent Encounter

S25.319S	Minor Laceration Of Unspecified Innominate Or Subclavian Vein, Sequela
S25.321A	Major Laceration Of Right Innominate Or Subclavian Vein, Initial Encounter
S25.321D	Major Laceration Of Right Innominate Or Subclavian Vein, Subsequent Encounter
S25.321S	Major Laceration Of Right Innominate Or Subclavian Vein, Sequela
S25.322A	Major Laceration Of Left Innominate Or Subclavian Vein, Initial Encounter
S25.322D	Major Laceration Of Left Innominate Or Subclavian Vein, Subsequent Encounter
S25.322S	Major Laceration Of Left Innominate Or Subclavian Vein, Sequela
S25.329A	Major Laceration Of Unspecified Innominate Or Subclavian Vein, Initial Encounter
S25.329S	Major Laceration Of Unspecified Innominate Or Subclavian Vein, Sequela
S25.391A	Other Specified Injury Of Right Innominate Or Subclavian Vein, Initial Encounter
S25.391D	Other Specified Injury Of Right Innominate Or Subclavian Vein, Subsequent Encounter
S25.391S	Other Specified Injury Of Right Innominate Or Subclavian Vein, Sequela
S25.392A	Other Specified Injury Of Left Innominate Or Subclavian Vein, Initial Encounter
S25.392D	Other Specified Injury Of Left Innominate Or Subclavian Vein, Subsequent Encounter
S25.392S	Other Specified Injury Of Left Innominate Or Subclavian Vein, Sequela
S25.399A	Other Specified Injury Of Unspecified Innominate Or Subclavian Vein, Initial Encounter
S25.399D	Other Specified Injury Of Unspecified Innominate Or Subclavian Vein, Subsequent Encounter
S25.399S	Other Specified Injury Of Unspecified Innominate Or Subclavian Vein, Sequela
S25.401A	Unspecified Injury Of Right Pulmonary Blood Vessels, Initial Encounter
S25.401D	Unspecified Injury Of Right Pulmonary Blood Vessels, Subsequent Encounter
S25.401S	Unspecified Injury Of Right Pulmonary Blood Vessels, Sequela
S25.402A	Unspecified Injury Of Left Pulmonary Blood Vessels, Initial Encounter
S25.402D	Unspecified Injury Of Left Pulmonary Blood Vessels, Subsequent Encounter
S25.402S	Unspecified Injury Of Left Pulmonary Blood Vessels, Sequela
S25.409A	Unspecified Injury Of Unspecified Pulmonary Blood Vessels, Initial Encounter
S25.409D	Unspecified Injury Of Unspecified Pulmonary Blood Vessels, Subsequent Encounter
S25.409S	Unspecified Injury Of Unspecified Pulmonary Blood Vessels, Sequela
S25.411A	Minor Laceration Of Right Pulmonary Blood Vessels, Initial Encounter
S25.411D	Minor Laceration Of Right Pulmonary Blood Vessels, Subsequent Encounter
S25.411S	Minor Laceration Of Right Pulmonary Blood Vessels, Sequela
S25.412A	Minor Laceration Of Left Pulmonary Blood Vessels, Initial Encounter
S25.412D	Minor Laceration Of Left Pulmonary Blood Vessels, Subsequent Encounter
S25.412S	Minor Laceration Of Left Pulmonary Blood Vessels, Sequela
S25.419A	Minor Laceration Of Unspecified Pulmonary Blood Vessels, Initial Encounter
S25.419D	Minor Laceration Of Unspecified Pulmonary Blood Vessels, Subsequent Encounter
S25.419S	Minor Laceration Of Unspecified Pulmonary Blood Vessels, Sequela
S25.421A	Major Laceration Of Right Pulmonary Blood Vessels, Initial Encounter
S25.421D	Major Laceration Of Right Pulmonary Blood Vessels, Subsequent Encounter
S25.421S	Major Laceration Of Right Pulmonary Blood Vessels, Sequela
S25.422A	Major Laceration Of Left Pulmonary Blood Vessels, Initial Encounter
S25.422D	Major Laceration Of Left Pulmonary Blood Vessels, Subsequent Encounter
S25.422S	Major Laceration Of Left Pulmonary Blood Vessels, Sequela
S25.429A	Major Laceration Of Unspecified Pulmonary Blood Vessels, Initial Encounter

S25.429D	Major Laceration Of Unspecified Pulmonary Blood Vessels, Subsequent Encounter
S25.429S	Major Laceration Of Unspecified Pulmonary Blood Vessels, Sequela
S25.491A	Other Specified Injury Of Right Pulmonary Blood Vessels, Initial Encounter
S25.491D	Other Specified Injury Of Right Pulmonary Blood Vessels, Subsequent Encounter
S25.491S	Other Specified Injury Of Right Pulmonary Blood Vessels, Sequela
S25.492A	Other Specified Injury Of Left Pulmonary Blood Vessels, Initial Encounter
S25.492D	Other Specified Injury Of Left Pulmonary Blood Vessels, Subsequent Encounter
S25.492S	Other Specified Injury Of Left Pulmonary Blood Vessels, Sequela
S25.499A	Other Specified Injury Of Unspecified Pulmonary Blood Vessels, Initial Encounter
S25.499D	Other Specified Injury Of Unspecified Pulmonary Blood Vessels, Subsequent Encounter
S25.499S	Other Specified Injury Of Unspecified Pulmonary Blood Vessels, Sequela
S25.501A	Unspecified Injury Of Intercostal Blood Vessels, Right Side, Initial Encounter
S25.501D	Unspecified Injury Of Intercostal Blood Vessels, Right Side, Subsequent Encounter
S25.501S	Unspecified Injury Of Intercostal Blood Vessels, Right Side, Sequela
S25.502A	Unspecified Injury Of Intercostal Blood Vessels, Left Side, Initial Encounter
S25.502D	Unspecified Injury Of Intercostal Blood Vessels, Left Side, Subsequent Encounter
S25.502S	Unspecified Injury Of Intercostal Blood Vessels, Left Side, Sequela
S25.509A	Unspecified Injury Of Intercostal Blood Vessels, Unspecified Side, Initial Encounter
S25.509D	Unspecified Injury Of Intercostal Blood Vessels, Unspecified Side, Subsequent Encounter
S25.509S	Unspecified Injury Of Intercostal Blood Vessels, Unspecified Side, Sequela
S25.511A	Laceration Of Intercostal Blood Vessels, Right Side, Initial Encounter
S25.511D	Laceration Of Intercostal Blood Vessels, Right Side, Subsequent Encounter
S25.511S	Laceration Of Intercostal Blood Vessels, Right Side, Sequela
S25.512A	Laceration Of Intercostal Blood Vessels, Left Side, Initial Encounter
S25.512D	Laceration Of Intercostal Blood Vessels, Left Side, Subsequent Encounter
S25.512S	Laceration Of Intercostal Blood Vessels, Left Side, Sequela
S25.519A	Laceration Of Intercostal Blood Vessels, Unspecified Side, Initial Encounter
S25.519D	Laceration Of Intercostal Blood Vessels, Unspecified Side, Subsequent Encounter
S25.519S	Laceration Of Intercostal Blood Vessels, Unspecified Side, Sequela
S25.591A	Other Specified Injury Of Intercostal Blood Vessels, Right Side, Initial Encounter
S25.591D	Other Specified Injury Of Intercostal Blood Vessels, Right Side, Subsequent Encounter
S25.591S	Other Specified Injury Of Intercostal Blood Vessels, Right Side, Sequela
S25.592A	Other Specified Injury Of Intercostal Blood Vessels, Left Side, Initial Encounter
S25.592D	Other Specified Injury Of Intercostal Blood Vessels, Left Side, Subsequent Encounter
S25.592S	Other Specified Injury Of Intercostal Blood Vessels, Left Side, Sequela
S25.599A	Other Specified Injury Of Intercostal Blood Vessels, Unspecified Side, Initial Encounter
S25.599D	Other Specified Injury Of Intercostal Blood Vessels, Unspecified Side, Subsequent Encounter
S25.599S	Other Specified Injury Of Intercostal Blood Vessels, Unspecified Side, Sequela
S25.801A	Unspecified Injury Of Other Blood Vessels Of Thorax, Right Side, Initial Encounter
S25.801D	Unspecified Injury Of Other Blood Vessels Of Thorax, Right Side, Subsequent Encounter
S25.801S	Unspecified Injury Of Other Blood Vessels Of Thorax, Right Side, Sequela
S25.802A	Unspecified Injury Of Other Blood Vessels Of Thorax, Left Side, Initial Encounter
S25.802D	Unspecified Injury Of Other Blood Vessels Of Thorax, Left Side, Subsequent Encounter

S25.802S	Unspecified Injury Of Other Blood Vessels Of Thorax, Left Side, Sequela
S25.809A	Unspecified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Initial Encounter
S25.809D	Unspecified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Subsequent Encounter
S25.809S	Unspecified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Sequela
S25.811A	Laceration Of Other Blood Vessels Of Thorax, Right Side, Initial Encounter
S25.811D	Laceration Of Other Blood Vessels Of Thorax, Right Side, Subsequent Encounter
S25.811S	Laceration Of Other Blood Vessels Of Thorax, Right Side, Sequela
S25.812A	Laceration Of Other Blood Vessels Of Thorax, Left Side, Initial Encounter
S25.812D	Laceration Of Other Blood Vessels Of Thorax, Left Side, Subsequent Encounter
S25.812S	Laceration Of Other Blood Vessels Of Thorax, Left Side, Sequela
S25.819A	Laceration Of Other Blood Vessels Of Thorax, Unspecified Side, Initial Encounter
S25.819D	Laceration Of Other Blood Vessels Of Thorax, Unspecified Side, Subsequent Encounter
S25.819S	Laceration Of Other Blood Vessels Of Thorax, Unspecified Side, Sequela
S25.891A	Other Specified Injury Of Other Blood Vessels Of Thorax, Right Side, Initial Encounter
S25.891D	Other Specified Injury Of Other Blood Vessels Of Thorax, Right Side, Subsequent Encounter
S25.891S	Other Specified Injury Of Other Blood Vessels Of Thorax, Right Side, Sequela
S25.892A	Other Specified Injury Of Other Blood Vessels Of Thorax, Left Side, Initial Encounter
S25.892D	Other Specified Injury Of Other Blood Vessels Of Thorax, Left Side, Subsequent Encounter
S25.892S	Other Specified Injury Of Other Blood Vessels Of Thorax, Left Side, Sequela
S25.899A	Other Specified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Initial Encounter
S25.899D	Other Specified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Subsequent Encounter
S25.899S	Other Specified Injury Of Other Blood Vessels Of Thorax, Unspecified Side, Sequela
S25.90XA	Unspecified Injury Of Unspecified Blood Vessel Of Thorax, Initial Encounter
S25.90XD	Unspecified Injury Of Unspecified Blood Vessel Of Thorax, Subsequent Encounter
S25.90XS	Unspecified Injury Of Unspecified Blood Vessel Of Thorax, Sequela
S25.91XA	Laceration Of Unspecified Blood Vessel Of Thorax, Initial Encounter
S25.91XD	Laceration Of Unspecified Blood Vessel Of Thorax, Subsequent Encounter
S25.91XS	Laceration Of Unspecified Blood Vessel Of Thorax, Sequela
S25.99XA	Other Specified Injury Of Unspecified Blood Vessel Of Thorax, Initial Encounter
S25.99XD	Other Specified Injury Of Unspecified Blood Vessel Of Thorax, Subsequent Encounter
S25.99XS	Other Specified Injury Of Unspecified Blood Vessel Of Thorax, Sequela
T80.0xxA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter
T80.0xxD	Air embolism following infusion, transfusion and therapeutic injection, subsequent encounter
T80.0xxS	Air embolism following infusion, transfusion and therapeutic injection, sequela
T81.718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter
T81.718D	Complication of other artery following a procedure, not elsewhere classified, subsequent encounter
T81.718S	Complication of other artery following a procedure, not elsewhere classified, sequela
T81.72xA	Complication of vein following a procedure, not elsewhere classified, initial encounter
T81.72xD	Complication of vein following a procedure, not elsewhere classified, subsequent encounter
T81.72xS	Complication of vein following a procedure, not elsewhere classified, sequela
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.817D	Embolism due to cardiac prosthetic devices, implants and grafts, subsequent encounter

T82.817S	Embolism due to cardiac prosthetic devices, implants and grafts, sequela
T82.818A	Embolism of vascular prosthetic devices, implants and grafts, initial encounter
T82.818D	Embolism due to vascular prosthetic devices, implants and grafts, subsequent encounter
T82.818S	Embolism due to vascular prosthetic devices, implants and grafts, sequela
T82.897A	Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter
T82.897D	Other specified complication of cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.897S	Other specified complication of cardiac prosthetic devices, implants and grafts, sequela
T85.818A	Embolism due to other internal prosthetic devices, implants and grafts, initial encounter
T85.818D	Embolism due to other internal prosthetic devices, implants and grafts, subsequent encounter
T85.818S	Embolism due to other internal prosthetic devices, implants and grafts, sequela
T85.830A	Hemorrhage due to nervous system prosthetic devices, implants and grafts, initial encounter
T85.830D	Hemorrhage due to nervous system prosthetic devices, implants and grafts, subsequent encounter
T85.830S	Hemorrhage due to nervous system prosthetic devices, implants and grafts, sequela
T85.838A	Hemorrhage due to other internal prosthetic devices, implants and grafts, initial encounter
T85.838D	Hemorrhage due to other internal prosthetic devices, implants and grafts, subsequent encounter
T85.838S	Hemorrhage due to other internal prosthetic devices, implants and grafts, sequela
T85.840A	Pain due to nervous system prosthetic devices, implants and grafts, initial encounter
T85.840D	Pain due to nervous system prosthetic devices, implants and grafts, subsequent encounter
T85.840S	Pain due to nervous system prosthetic devices, implants and grafts, sequela
T85.848A	Pain due to other internal prosthetic devices, implants and grafts, initial encounter
T85.848D	Pain due to other internal prosthetic devices, implants and grafts, subsequent encounter
T85.848S	Pain due to other internal prosthetic devices, implants and grafts, sequela
Z01.810	Encounter for preprocedural cardiovascular examination
Z09	Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
Z82.49	Family history of ischemic heart disease and other diseases of the circulatory system
Z95.818	Presence of other cardiac implants and grafts
Z98.890	Other specified postprocedural states

Endnotes

¹ Based on AIM Specialty Health Clinical Appropriateness Guidelines: Advanced Imaging Appropriate Use Criteria: Imaging of the Chest. Based on AIM Clinical Appropriateness Guidelines: Advanced Imaging Appropriate Use Criteria: Pediatric Imaging.