

Local Coverage Determination (LCD): Noninvasive Peripheral Venous Studies (L34229)

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Contractor Information

Contractor Name	Contract Type	Contract Number	Jurisdiction	State(s)
Noridian Healthcare Solutions, LLC	A and B MAC	01112 - MAC B	J - E	California - Northern
Noridian Healthcare Solutions, LLC	A and B MAC	01182 - MAC B	J - E	California - Southern American Samoa Guam Hawaii Northern Mariana Islands Nevada
Noridian Healthcare Solutions, LLC	A and B MAC	01212 - MAC B	J - E	
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LCD Information

Document Information

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CMS National Coverage Policy

Title XVIII of the Social Security Act, §1862(a)(1)(A) allows coverage and payment for only those services that are considered to be medically reasonable and necessary.

Title XVIII of the Social Security Act, §1833(e) prohibits Medicare payment for any claim, which lacks the necessary information to process the claim.

The Code of Federal Regulations (CFR), 42 CFR §410.32. Specifies that all diagnostic tests "must be ordered by the physician who is treating the beneficiary."

The Code of Federal Regulations (CFR), 42 CFR §411.15(k)(1). States any services that are not reasonable and necessary are excluded from coverage.

CMS Manual System, Publication 100-02, *Medicare Benefit Policy Manual*, Chapter 15, §§80.6.- 80.6.4, addresses requirements for ordering and following orders for diagnostic tests. Transmittal 94, Change Request 6100, Dated August 29, 2008, §80.6.1, addresses physician signature requirements for diagnostic tests.

CMS Manual System, Pub. 100-03, *Medicare National Coverage Determinations Manual*, Chapter 1, Part 1, §20.14 - Plethysmography.

CMS Manual System, Pub 100-03, *Medicare National Coverage Determinations Manual*, Chapter 1, Part 4, §220.5 - Ultrasound Diagnostic Procedures.

CMS Manual System, Publication 100-08, *Medicare Program Integrity Manual*, Chapter 3, §3.4.1.3, Diagnosis Code Requirement.

Coverage Guidance

Coverage Indications, Limitations, and/or Medical Necessity

Noninvasive peripheral venous studies are useful in the diagnosis of valvular insufficiency and the evaluation of deep and superficial venous thrombosis.

"The use of a simple hand-held or other Doppler device that does not produce hard copy output, or that produces a record that does not permit analysis of bidirectional vascular flow, is considered to be part of the physical examination of the vascular system and is not separately reported." (End of Quote) (CPT 2007, p 398)

Duplex Venous Evaluation

Doppler ultrasound and B-mode real-time imaging are combined to maximize the anatomic and physiologic information regarding the deep and superficial veins in the upper and lower extremities, including the major axial deep veins in the lower leg and the intramuscular veins. Duplex exam has replaced venography as the initial imaging study of deep venous thrombosis.

Impedance Plethysmography (IPG)

IPG measures the volume changes of the limb in response to the inflation and deflation of a thigh cuff. The test is highly sensitive (92%) and specific (95%) for symptomatic proximal DVT (Deep Vein Thrombosis) and has a high positive predictive value (90%). A normal result essentially excludes the diagnosis of proximal DVT. The

sensitivity of IPG is low in calf vein thrombosis (20%) and in screening for DVT in asymptomatic postoperative high-risk patients (22%).

Indications for venous examinations are separated into four major categories: deep vein thrombosis, chronic venous insufficiency, and evaluation of pre- and post-procedural venous conditions. Studies are reasonable and necessary only if the patient can be a candidate for anticoagulation, thrombolysis or invasive therapeutic procedures for the following indications:

A. Deep Vein Thrombosis (DVT)

DVT is the most common vascular disorder that develops in hospitalized patients and can develop after trauma or prolonged immobility (sitting or bed rest). Unfortunately, the signs and/or symptoms of DVT are relatively non-specific and, due to the risk associated with pulmonary embolism (PE), objective testing is appropriate in patients that are candidates for anticoagulation or invasive therapeutic procedures for the following indications:

1. Clinical signs and/or symptoms of DVT including edema, tenderness, inflammation and/or erythema.
2. Clinical signs and/or symptoms of PE including hemoptysis, chest pain and/or dyspnea.
3. Unexplained lower extremity edema status-post major surgical procedures.

Note that "The overall sensitivity and specificity of duplex scanning in the diagnosis of DVT is higher than that of physiologic tests using plethysmographic techniques" (Current Therapy in Vascular Surgery, p 881)

Bilateral limb edema in the presence of signs and/or symptoms of congestive heart failure, exogenous obesity and/or arthritis should rarely be an indication for venous studies.

B. Chronic venous insufficiency

Chronic venous insufficiency may be divided into four categories: primary varicose veins, secondary varicose veins post-thrombotic (post-phlebotic) syndrome, and recurrent DVT. Objective tests of venous function may be indicated in patients with ulceration, thickening and discoloration suspected to be secondary to venous insufficiency in order to confirm this diagnosis, by documenting venous valvular incompetence, prior to treatment.

C. Evaluation of pre-procedural venous conditions

Arm vein mapping in End Stage Renal Disease (ESRD) may be covered for patients being evaluated for creating an AV fistula when reasonable and necessary.

Pre-operative evaluation of upper or lower extremities prior to vein harvesting for bypass surgery or creation of an AV fistula when condition of the vessel is in question is covered.

D. Evaluation of post-procedural venous conditions

Evaluation of postoperative complications and limited follow-up of the vascular system procedures are reasonable and necessary.

Duplex scan for post-interventional follow-up studies are typically limited in scope, and are unilateral in nature. Consequently, the complete duplex scan codes (93970) should seldom be used in the post-interventional setting.

Routine performance of both duplex scanning (93970 or 93971) and physiological tests (93965) of extremity veins during the same encounter is **not** reasonable and necessary.

The performance of duplex scanning in symptomatic patients with positive physiologic study results is reasonable and necessary.

Methods not acceptable for reimbursement include:

1. Mechanical oscillometry
2. Inductance plethysmography
3. Capacitance plethysmography
4. Photoelectric plethysmography

Procedures that are not within the stated Indications and Limitations of this policy will be denied as not reasonable and necessary.

Procedures for screening purposes only will be denied as routine services.

When the evaluation, management and treatment of the varicose vein are considered to be cosmetic only, billing for these services will be denied as cosmetic.

Compliance with the provisions in this policy is subject to monitoring by post payment data analysis and

subsequent medical review.

Summary of Evidence

N/A

Analysis of Evidence (Rationale for Determination)

N/A

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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.

999x Not Applicable

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.

99999 Not Applicable

CPT/HCPCS Codes

Group 1 Paragraph: N/A

Group 1 Codes:

- 93970 DUPLEX SCAN OF EXTREMITY VEINS INCLUDING RESPONSES TO COMPRESSION AND OTHER MANEUVERS; COMPLETE BILATERAL STUDY
- 93971 DUPLEX SCAN OF EXTREMITY VEINS INCLUDING RESPONSES TO COMPRESSION AND OTHER MANEUVERS; UNILATERAL OR LIMITED STUDY

ICD-10 Codes that Support Medical Necessity

Group 1 Paragraph:

These are the only ICD-10-CM codes That Support Medical Necessity:

Group 1

Only one of the following diagnoses is required:

Group 1 Codes:

ICD-10 Codes	Description
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
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
I70.235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot
I70.238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg
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
I70.245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot
I70.248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg
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
I70.435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot
I70.438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg
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
I70.445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot
I70.448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg
I70.45	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration
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
I70.468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity
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
I70.535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot
I70.538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg
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
I70.545	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot
I70.548	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg

ICD-10 Codes	Description
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
I70.568	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity
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
I70.635	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot
I70.638	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg
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
I70.645	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot
I70.648	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg
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
I70.668	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity
I70.731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh
I70.732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf
I70.733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle
I70.734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot
I70.735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot
I70.738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg
I70.741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh
I70.742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf
I70.743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle
I70.744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot
I70.745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot
I70.748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg
I70.761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg
I70.762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg
I70.763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs
I70.768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity
I73.01	Raynaud's syndrome with gangrene
I74.3	Embolism and thrombosis of arteries of the lower extremities
I80.01	Phlebitis and thrombophlebitis of superficial vessels of right lower extremity
I80.02	Phlebitis and thrombophlebitis of superficial vessels of left lower extremity
I80.03	Phlebitis and thrombophlebitis of superficial vessels of lower extremities, bilateral
I80.11	Phlebitis and thrombophlebitis of right femoral vein
I80.12	Phlebitis and thrombophlebitis of left femoral vein
I80.13	Phlebitis and thrombophlebitis of femoral vein, bilateral
I80.211	Phlebitis and thrombophlebitis of right iliac vein
I80.212	Phlebitis and thrombophlebitis of left iliac vein
I80.213	Phlebitis and thrombophlebitis of iliac vein, bilateral
I80.221	Phlebitis and thrombophlebitis of right popliteal vein
I80.222	Phlebitis and thrombophlebitis of left popliteal vein
I80.223	Phlebitis and thrombophlebitis of popliteal vein, bilateral

ICD-10 Codes	Description
I80.231	Phlebitis and thrombophlebitis of right tibial vein
I80.232	Phlebitis and thrombophlebitis of left tibial vein
I80.233	Phlebitis and thrombophlebitis of tibial vein, bilateral
I80.291	Phlebitis and thrombophlebitis of other deep vessels of right lower extremity
I80.292	Phlebitis and thrombophlebitis of other deep vessels of left lower extremity
I80.293	Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral
I80.8	Phlebitis and thrombophlebitis of other sites
I82.1	Thrombophlebitis migrans
I82.210	Acute embolism and thrombosis of superior vena cava
I82.211	Chronic embolism and thrombosis of superior vena cava
I82.220	Acute embolism and thrombosis of inferior vena cava
I82.221	Chronic embolism and thrombosis of inferior vena cava
I82.290	Acute embolism and thrombosis of other thoracic veins
I82.291	Chronic embolism and thrombosis of other thoracic veins
I82.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity
I82.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity
I82.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral
I82.409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity
I82.411	Acute embolism and thrombosis of right femoral vein
I82.412	Acute embolism and thrombosis of left femoral vein
I82.413	Acute embolism and thrombosis of femoral vein, bilateral
I82.421	Acute embolism and thrombosis of right iliac vein
I82.422	Acute embolism and thrombosis of left iliac vein
I82.423	Acute embolism and thrombosis of iliac vein, bilateral
I82.431	Acute embolism and thrombosis of right popliteal vein
I82.432	Acute embolism and thrombosis of left popliteal vein
I82.433	Acute embolism and thrombosis of popliteal vein, bilateral
I82.441	Acute embolism and thrombosis of right tibial vein
I82.442	Acute embolism and thrombosis of left tibial vein
I82.443	Acute embolism and thrombosis of tibial vein, bilateral
I82.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity
I82.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity
I82.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral
I82.511	Chronic embolism and thrombosis of right femoral vein
I82.512	Chronic embolism and thrombosis of left femoral vein
I82.513	Chronic embolism and thrombosis of femoral vein, bilateral
I82.521	Chronic embolism and thrombosis of right iliac vein
I82.522	Chronic embolism and thrombosis of left iliac vein
I82.523	Chronic embolism and thrombosis of iliac vein, bilateral
I82.531	Chronic embolism and thrombosis of right popliteal vein
I82.532	Chronic embolism and thrombosis of left popliteal vein
I82.533	Chronic embolism and thrombosis of popliteal vein, bilateral
I82.541	Chronic embolism and thrombosis of right tibial vein
I82.542	Chronic embolism and thrombosis of left tibial vein
I82.543	Chronic embolism and thrombosis of tibial vein, bilateral
I82.591	Chronic embolism and thrombosis of other specified deep vein of right lower extremity
I82.592	Chronic embolism and thrombosis of other specified deep vein of left lower extremity
I82.593	Chronic embolism and thrombosis of other specified deep vein of lower extremity, bilateral
I82.611	Acute embolism and thrombosis of superficial veins of right upper extremity
I82.612	Acute embolism and thrombosis of superficial veins of left upper extremity
I82.613	Acute embolism and thrombosis of superficial veins of upper extremity, bilateral
I82.621	Acute embolism and thrombosis of deep veins of right upper extremity
I82.622	Acute embolism and thrombosis of deep veins of left upper extremity
I82.623	Acute embolism and thrombosis of deep veins of upper extremity, bilateral
I82.711	Chronic embolism and thrombosis of superficial veins of right upper extremity
I82.712	Chronic embolism and thrombosis of superficial veins of left upper extremity
I82.713	Chronic embolism and thrombosis of superficial veins of upper extremity, bilateral
I82.721	Chronic embolism and thrombosis of deep veins of right upper extremity

ICD-10 Codes	Description
I82.722	Chronic embolism and thrombosis of deep veins of left upper extremity
I82.723	Chronic embolism and thrombosis of deep veins of upper extremity, bilateral
I82.A11	Acute embolism and thrombosis of right axillary vein
I82.A12	Acute embolism and thrombosis of left axillary vein
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral
I82.A21	Chronic embolism and thrombosis of right axillary vein
I82.A22	Chronic embolism and thrombosis of left axillary vein
I82.A23	Chronic embolism and thrombosis of axillary vein, bilateral
I82.B11	Acute embolism and thrombosis of right subclavian vein
I82.B12	Acute embolism and thrombosis of left subclavian vein
I82.B13	Acute embolism and thrombosis of subclavian vein, bilateral
I82.B21	Chronic embolism and thrombosis of right subclavian vein
I82.B22	Chronic embolism and thrombosis of left subclavian vein
I82.B23	Chronic embolism and thrombosis of subclavian vein, bilateral
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
I82.C21	Chronic embolism and thrombosis of right internal jugular vein
I82.C22	Chronic embolism and thrombosis of left internal jugular vein
I82.C23	Chronic embolism and thrombosis of internal jugular vein, bilateral
I82.811	Embolism and thrombosis of superficial veins of right lower extremity
I82.812	Embolism and thrombosis of superficial veins of left lower extremity
I82.813	Embolism and thrombosis of superficial veins of lower extremities, bilateral
I82.890	Acute embolism and thrombosis of other specified veins
I82.891	Chronic embolism and thrombosis of other specified veins
I83.011	Varicose veins of right lower extremity with ulcer of thigh
I83.012	Varicose veins of right lower extremity with ulcer of calf
I83.013	Varicose veins of right lower extremity with ulcer of ankle
I83.014	Varicose veins of right lower extremity with ulcer of heel and midfoot
I83.015	Varicose veins of right lower extremity with ulcer other part of foot
I83.018	Varicose veins of right lower extremity with ulcer other part of lower leg
I83.021	Varicose veins of left lower extremity with ulcer of thigh
I83.022	Varicose veins of left lower extremity with ulcer of calf
I83.023	Varicose veins of left lower extremity with ulcer of ankle
I83.024	Varicose veins of left lower extremity with ulcer of heel and midfoot
I83.025	Varicose veins of left lower extremity with ulcer other part of foot
I83.028	Varicose veins of left lower extremity with ulcer other part of lower leg
I83.11	Varicose veins of right lower extremity with inflammation
I83.12	Varicose veins of left lower extremity with inflammation
I83.211	Varicose veins of right lower extremity with both ulcer of thigh and inflammation
I83.212	Varicose veins of right lower extremity with both ulcer of calf and inflammation
I83.213	Varicose veins of right lower extremity with both ulcer of ankle and inflammation
I83.214	Varicose veins of right lower extremity with both ulcer of heel and midfoot and inflammation
I83.215	Varicose veins of right lower extremity with both ulcer other part of foot and inflammation
I83.218	Varicose veins of right lower extremity with both ulcer of other part of lower extremity and inflammation
I83.221	Varicose veins of left lower extremity with both ulcer of thigh and inflammation
I83.222	Varicose veins of left lower extremity with both ulcer of calf and inflammation
I83.223	Varicose veins of left lower extremity with both ulcer of ankle and inflammation
I83.224	Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation
I83.225	Varicose veins of left lower extremity with both ulcer other part of foot and inflammation
I83.228	Varicose veins of left lower extremity with both ulcer of other part of lower extremity and inflammation
I83.811	Varicose veins of right lower extremity with pain
I83.812	Varicose veins of left lower extremity with pain
I83.813	Varicose veins of bilateral lower extremities with pain
I83.891	Varicose veins of right lower extremity with other complications
I83.892	Varicose veins of left lower extremity with other complications

ICD-10 Codes	Description
I83.893	Varicose veins of bilateral lower extremities with other complications
I83.91	Asymptomatic varicose veins of right lower extremity
I83.92	Asymptomatic varicose veins of left lower extremity
I83.93	Asymptomatic varicose veins of bilateral lower extremities
I87.001	Postthrombotic syndrome without complications of right lower extremity
I87.002	Postthrombotic syndrome without complications of left lower extremity
I87.003	Postthrombotic syndrome without complications of bilateral lower extremity
I87.011	Postthrombotic syndrome with ulcer of right lower extremity
I87.012	Postthrombotic syndrome with ulcer of left lower extremity
I87.013	Postthrombotic syndrome with ulcer of bilateral lower extremity
I87.021	Postthrombotic syndrome with inflammation of right lower extremity
I87.022	Postthrombotic syndrome with inflammation of left lower extremity
I87.023	Postthrombotic syndrome with inflammation of bilateral lower extremity
I87.031	Postthrombotic syndrome with ulcer and inflammation of right lower extremity
I87.032	Postthrombotic syndrome with ulcer and inflammation of left lower extremity
I87.033	Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity
I87.091	Postthrombotic syndrome with other complications of right lower extremity
I87.092	Postthrombotic syndrome with other complications of left lower extremity
I87.093	Postthrombotic syndrome with other complications of bilateral lower extremity
I87.1	Compression of vein
I87.2	Venous insufficiency (chronic) (peripheral)
I87.311	Chronic venous hypertension (idiopathic) with ulcer of right lower extremity
I87.312	Chronic venous hypertension (idiopathic) with ulcer of left lower extremity
I87.313	Chronic venous hypertension (idiopathic) with ulcer of bilateral lower extremity
I87.321	Chronic venous hypertension (idiopathic) with inflammation of right lower extremity
I87.322	Chronic venous hypertension (idiopathic) with inflammation of left lower extremity
I87.323	Chronic venous hypertension (idiopathic) with inflammation of bilateral lower extremity
I87.331	Chronic venous hypertension (idiopathic) with ulcer and inflammation of right lower extremity
I87.332	Chronic venous hypertension (idiopathic) with ulcer and inflammation of left lower extremity
I87.333	Chronic venous hypertension (idiopathic) with ulcer and inflammation of bilateral lower extremity
I87.391	Chronic venous hypertension (idiopathic) with other complications of right lower extremity
I87.392	Chronic venous hypertension (idiopathic) with other complications of left lower extremity
I87.393	Chronic venous hypertension (idiopathic) with other complications of bilateral lower extremity
I96	Gangrene, not elsewhere classified
I97.410	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac catheterization
I97.411	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac bypass
I97.418	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure
I97.42	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other procedure
I97.51	Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure
I97.52	Accidental puncture and laceration of a circulatory system organ or structure during other procedure
I97.610	Postprocedural hemorrhage of a circulatory system organ or structure following a cardiac catheterization
I97.611	Postprocedural hemorrhage of a circulatory system organ or structure following cardiac bypass
I97.618	Postprocedural hemorrhage of a circulatory system organ or structure following other circulatory system procedure
J95.61	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating a respiratory system procedure
J95.62	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating other procedure
J95.71	Accidental puncture and laceration of a respiratory system organ or structure during a respiratory system procedure
J95.72	Accidental puncture and laceration of a respiratory system organ or structure during other procedure

ICD-10 Codes	Description
J95.821	Acute postprocedural respiratory failure
J95.830	Postprocedural hemorrhage of a respiratory system organ or structure following a respiratory system procedure
J95.831	Postprocedural hemorrhage of a respiratory system organ or structure following other procedure
J96.01	Acute respiratory failure with hypoxia
J96.02	Acute respiratory failure with hypercapnia
K68.11	Postprocedural retroperitoneal abscess
K91.61	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating a digestive system procedure
K91.62	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating other procedure
K91.71	Accidental puncture and laceration of a digestive system organ or structure during a digestive system procedure
K91.72	Accidental puncture and laceration of a digestive system organ or structure during other procedure
K91.840	Postprocedural hemorrhage of a digestive system organ or structure following a digestive system procedure
K91.841	Postprocedural hemorrhage of a digestive system organ or structure following other procedure
L76.01	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating a dermatologic procedure
L76.02	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating other procedure
L76.11	Accidental puncture and laceration of skin and subcutaneous tissue during a dermatologic procedure
L76.12	Accidental puncture and laceration of skin and subcutaneous tissue during other procedure
L76.21	Postprocedural hemorrhage of skin and subcutaneous tissue following a dermatologic procedure
L76.22	Postprocedural hemorrhage of skin and subcutaneous tissue following other procedure
L97.111	Non-pressure chronic ulcer of right thigh limited to breakdown of skin
L97.112	Non-pressure chronic ulcer of right thigh with fat layer exposed
L97.113	Non-pressure chronic ulcer of right thigh with necrosis of muscle
L97.114	Non-pressure chronic ulcer of right thigh with necrosis of bone
L97.115	Non-pressure chronic ulcer of right thigh with muscle involvement without evidence of necrosis
L97.116	Non-pressure chronic ulcer of right thigh with bone involvement without evidence of necrosis
L97.121	Non-pressure chronic ulcer of left thigh limited to breakdown of skin
L97.122	Non-pressure chronic ulcer of left thigh with fat layer exposed
L97.123	Non-pressure chronic ulcer of left thigh with necrosis of muscle
L97.124	Non-pressure chronic ulcer of left thigh with necrosis of bone
L97.125	Non-pressure chronic ulcer of left thigh with muscle involvement without evidence of necrosis
L97.126	Non-pressure chronic ulcer of left thigh with bone involvement without evidence of necrosis
L97.211	Non-pressure chronic ulcer of right calf limited to breakdown of skin
L97.212	Non-pressure chronic ulcer of right calf with fat layer exposed
L97.213	Non-pressure chronic ulcer of right calf with necrosis of muscle
L97.214	Non-pressure chronic ulcer of right calf with necrosis of bone
L97.215	Non-pressure chronic ulcer of right calf with muscle involvement without evidence of necrosis
L97.216	Non-pressure chronic ulcer of right calf with bone involvement without evidence of necrosis
L97.221	Non-pressure chronic ulcer of left calf limited to breakdown of skin
L97.222	Non-pressure chronic ulcer of left calf with fat layer exposed
L97.223	Non-pressure chronic ulcer of left calf with necrosis of muscle
L97.224	Non-pressure chronic ulcer of left calf with necrosis of bone
L97.225	Non-pressure chronic ulcer of left calf with muscle involvement without evidence of necrosis
L97.226	Non-pressure chronic ulcer of left calf with bone involvement without evidence of necrosis
L97.311	Non-pressure chronic ulcer of right ankle limited to breakdown of skin
L97.312	Non-pressure chronic ulcer of right ankle with fat layer exposed
L97.313	Non-pressure chronic ulcer of right ankle with necrosis of muscle
L97.314	Non-pressure chronic ulcer of right ankle with necrosis of bone
L97.315	Non-pressure chronic ulcer of right ankle with muscle involvement without evidence of necrosis
L97.316	Non-pressure chronic ulcer of right ankle with bone involvement without evidence of necrosis
L97.321	Non-pressure chronic ulcer of left ankle limited to breakdown of skin
L97.322	Non-pressure chronic ulcer of left ankle with fat layer exposed

ICD-10 Codes	Description
L97.323	Non-pressure chronic ulcer of left ankle with necrosis of muscle
L97.324	Non-pressure chronic ulcer of left ankle with necrosis of bone
L97.325	Non-pressure chronic ulcer of left ankle with muscle involvement without evidence of necrosis
L97.326	Non-pressure chronic ulcer of left ankle with bone involvement without evidence of necrosis
L97.411	Non-pressure chronic ulcer of right heel and midfoot limited to breakdown of skin
L97.412	Non-pressure chronic ulcer of right heel and midfoot with fat layer exposed
L97.413	Non-pressure chronic ulcer of right heel and midfoot with necrosis of muscle
L97.414	Non-pressure chronic ulcer of right heel and midfoot with necrosis of bone
L97.415	Non-pressure chronic ulcer of right heel and midfoot with muscle involvement without evidence of necrosis
L97.416	Non-pressure chronic ulcer of right heel and midfoot with bone involvement without evidence of necrosis
L97.421	Non-pressure chronic ulcer of left heel and midfoot limited to breakdown of skin
L97.422	Non-pressure chronic ulcer of left heel and midfoot with fat layer exposed
L97.423	Non-pressure chronic ulcer of left heel and midfoot with necrosis of muscle
L97.424	Non-pressure chronic ulcer of left heel and midfoot with necrosis of bone
L97.425	Non-pressure chronic ulcer of left heel and midfoot with muscle involvement without evidence of necrosis
L97.426	Non-pressure chronic ulcer of left heel and midfoot with bone involvement without evidence of necrosis
L97.511	Non-pressure chronic ulcer of other part of right foot limited to breakdown of skin
L97.512	Non-pressure chronic ulcer of other part of right foot with fat layer exposed
L97.513	Non-pressure chronic ulcer of other part of right foot with necrosis of muscle
L97.514	Non-pressure chronic ulcer of other part of right foot with necrosis of bone
L97.515	Non-pressure chronic ulcer of other part of right foot with muscle involvement without evidence of necrosis
L97.516	Non-pressure chronic ulcer of other part of right foot with bone involvement without evidence of necrosis
L97.521	Non-pressure chronic ulcer of other part of left foot limited to breakdown of skin
L97.522	Non-pressure chronic ulcer of other part of left foot with fat layer exposed
L97.523	Non-pressure chronic ulcer of other part of left foot with necrosis of muscle
L97.524	Non-pressure chronic ulcer of other part of left foot with necrosis of bone
L97.525	Non-pressure chronic ulcer of other part of left foot with muscle involvement without evidence of necrosis
L97.526	Non-pressure chronic ulcer of other part of left foot with bone involvement without evidence of necrosis
L97.811	Non-pressure chronic ulcer of other part of right lower leg limited to breakdown of skin
L97.812	Non-pressure chronic ulcer of other part of right lower leg with fat layer exposed
L97.813	Non-pressure chronic ulcer of other part of right lower leg with necrosis of muscle
L97.814	Non-pressure chronic ulcer of other part of right lower leg with necrosis of bone
L97.821	Non-pressure chronic ulcer of other part of left lower leg limited to breakdown of skin
L97.822	Non-pressure chronic ulcer of other part of left lower leg with fat layer exposed
L97.823	Non-pressure chronic ulcer of other part of left lower leg with necrosis of muscle
L97.824	Non-pressure chronic ulcer of other part of left lower leg with necrosis of bone
L97.825	Non-pressure chronic ulcer of other part of left lower leg with muscle involvement without evidence of necrosis
L97.826	Non-pressure chronic ulcer of other part of left lower leg with bone involvement without evidence of necrosis
M66.0	Rupture of popliteal cyst
M71.21	Synovial cyst of popliteal space [Baker], right knee
M71.22	Synovial cyst of popliteal space [Baker], left knee
M79.601	Pain in right arm
M79.602	Pain in left arm
M79.604	Pain in right leg
M79.605	Pain in left leg
M79.606	Pain in leg, unspecified
M79.651	Pain in right thigh
M79.652	Pain in left thigh
M79.661	Pain in right lower leg

ICD-10 Codes	Description
M79.662	Pain in left lower leg
M79.A11	Nontraumatic compartment syndrome of right upper extremity
M79.A12	Nontraumatic compartment syndrome of left upper extremity
M79.A21	Nontraumatic compartment syndrome of right lower extremity
M79.A22	Nontraumatic compartment syndrome of left lower extremity
M96.810	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating a musculoskeletal system procedure
M96.811	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating other procedure
M96.830	Postprocedural hemorrhage of a musculoskeletal structure following a musculoskeletal system procedure
M96.831	Postprocedural hemorrhage of a musculoskeletal structure following other procedure
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
O22.21	Superficial thrombophlebitis in pregnancy, first trimester
O22.22	Superficial thrombophlebitis in pregnancy, second trimester
O22.23	Superficial thrombophlebitis in pregnancy, third trimester
O22.31	Deep phlebothrombosis in pregnancy, first trimester
O22.32	Deep phlebothrombosis in pregnancy, second trimester
O22.33	Deep phlebothrombosis in pregnancy, third trimester
O87.0	Superficial thrombophlebitis in the puerperium
O87.1	Deep phlebothrombosis in the puerperium
O87.4	Varicose veins of lower extremity in the puerperium
R05	Cough
R06.01	Orthopnea
R06.02	Shortness of breath
R06.09	Other forms of dyspnea
R06.2	Wheezing
R06.3	Periodic breathing
R06.4	Hyperventilation
R06.81	Apnea, not elsewhere classified
R06.82	Tachypnea, not elsewhere classified
R07.1	Chest pain on breathing
R07.2	Precordial pain
R07.81	Pleurodynia
R07.82	Intercostal pain
R07.89	Other chest pain
R09.01	Asphyxia
R09.02	Hypoxemia
R19.01	Right upper quadrant abdominal swelling, mass and lump
R19.02	Left upper quadrant abdominal swelling, mass and lump
R19.03	Right lower quadrant abdominal swelling, mass and lump
R19.04	Left lower quadrant abdominal swelling, mass and lump
R19.05	Periumbilic swelling, mass or lump
R19.06	Epigastric swelling, mass or lump
R19.07	Generalized intra-abdominal and pelvic swelling, mass and lump
R19.09	Other intra-abdominal and pelvic swelling, mass and lump
R60.0	Localized edema
R60.1	Generalized edema
R94.2	Abnormal results of pulmonary function studies
S45.091A	Other specified injury of axillary artery, right side, initial encounter
S45.091D	Other specified injury of axillary artery, right side, subsequent encounter
S45.091S	Other specified injury of axillary artery, right side, sequela
S45.092A	Other specified injury of axillary artery, left side, initial encounter
S45.092D	Other specified injury of axillary artery, left side, subsequent encounter
S45.092S	Other specified injury of axillary artery, left side, sequela

ICD-10 Codes	Description
S45.191A	Other specified injury of brachial artery, right side, initial encounter
S45.191D	Other specified injury of brachial artery, right side, subsequent encounter
S45.191S	Other specified injury of brachial artery, right side, sequela
S45.192A	Other specified injury of brachial artery, left side, initial encounter
S45.192D	Other specified injury of brachial artery, left side, subsequent encounter
S45.192S	Other specified injury of brachial artery, left side, sequela
S45.291A	Other specified injury of axillary or brachial vein, right side, initial encounter
S45.291D	Other specified injury of axillary or brachial vein, right side, subsequent encounter
S45.291S	Other specified injury of axillary or brachial vein, right side, sequela
S45.292A	Other specified injury of axillary or brachial vein, left side, initial encounter
S45.292D	Other specified injury of axillary or brachial vein, left side, subsequent encounter
S45.292S	Other specified injury of axillary or brachial vein, left side, sequela
S75.021A	Major laceration of femoral artery, right leg, initial encounter
S75.021D	Major laceration of femoral artery, right leg, subsequent encounter
S75.021S	Major laceration of femoral artery, right leg, sequela
S75.022A	Major laceration of femoral artery, left leg, initial encounter
S75.022D	Major laceration of femoral artery, left leg, subsequent encounter
S75.022S	Major laceration of femoral artery, left leg, sequela
S75.091A	Other specified injury of femoral artery, right leg, initial encounter
S75.091D	Other specified injury of femoral artery, right leg, subsequent encounter
S75.091S	Other specified injury of femoral artery, right leg, sequela
S75.092A	Other specified injury of femoral artery, left leg, initial encounter
S75.092D	Other specified injury of femoral artery, left leg, subsequent encounter
S75.092S	Other specified injury of femoral artery, left leg, sequela
S75.121A	Major laceration of femoral vein at hip and thigh level, right leg, initial encounter
S75.121D	Major laceration of femoral vein at hip and thigh level, right leg, subsequent encounter
S75.121S	Major laceration of femoral vein at hip and thigh level, right leg, sequela
S75.122A	Major laceration of femoral vein at hip and thigh level, left leg, initial encounter
S75.122D	Major laceration of femoral vein at hip and thigh level, left leg, subsequent encounter
S75.122S	Major laceration of femoral vein at hip and thigh level, left leg, sequela
S75.191A	Other specified injury of femoral vein at hip and thigh level, right leg, initial encounter
S75.191D	Other specified injury of femoral vein at hip and thigh level, right leg, subsequent encounter
S75.191S	Other specified injury of femoral vein at hip and thigh level, right leg, sequela
S75.192A	Other specified injury of femoral vein at hip and thigh level, left leg, initial encounter
S75.192D	Other specified injury of femoral vein at hip and thigh level, left leg, subsequent encounter
S75.192S	Other specified injury of femoral vein at hip and thigh level, left leg, sequela
S75.221A	Major laceration of greater saphenous vein at hip and thigh level, right leg, initial encounter
S75.221D	Major laceration of greater saphenous vein at hip and thigh level, right leg, subsequent encounter
S75.221S	Major laceration of greater saphenous vein at hip and thigh level, right leg, sequela
S75.222A	Major laceration of greater saphenous vein at hip and thigh level, left leg, initial encounter
S75.222D	Major laceration of greater saphenous vein at hip and thigh level, left leg, subsequent encounter
S75.222S	Major laceration of greater saphenous vein at hip and thigh level, left leg, sequela
S75.291A	Other specified injury of greater saphenous vein at hip and thigh level, right leg, initial encounter
S75.291D	Other specified injury of greater saphenous vein at hip and thigh level, right leg, subsequent encounter
S75.291S	Other specified injury of greater saphenous vein at hip and thigh level, right leg, sequela
S75.292A	Other specified injury of greater saphenous vein at hip and thigh level, left leg, initial encounter
S75.292D	Other specified injury of greater saphenous vein at hip and thigh level, left leg, subsequent encounter
S75.292S	Other specified injury of greater saphenous vein at hip and thigh level, left leg, sequela
S75.811A	Laceration of other blood vessels at hip and thigh level, right leg, initial encounter
S75.811D	Laceration of other blood vessels at hip and thigh level, right leg, subsequent encounter
S75.811S	Laceration of other blood vessels at hip and thigh level, right leg, sequela
S75.812A	Laceration of other blood vessels at hip and thigh level, left leg, initial encounter
S75.812D	Laceration of other blood vessels at hip and thigh level, left leg, subsequent encounter
S75.812S	Laceration of other blood vessels at hip and thigh level, left leg, sequela
S75.891A	Other specified injury of other blood vessels at hip and thigh level, right leg, initial encounter
S75.891D	Other specified injury of other blood vessels at hip and thigh level, right leg, subsequent encounter

ICD-10 Codes	Description
S75.891S	Other specified injury of other blood vessels at hip and thigh level, right leg, sequela
S75.892A	Other specified injury of other blood vessels at hip and thigh level, left leg, initial encounter
S75.892D	Other specified injury of other blood vessels at hip and thigh level, left leg, subsequent encounter
S75.892S	Other specified injury of other blood vessels at hip and thigh level, left leg, sequela
S85.011A	Laceration of popliteal artery, right leg, initial encounter
S85.011D	Laceration of popliteal artery, right leg, subsequent encounter
S85.011S	Laceration of popliteal artery, right leg, sequela
S85.012A	Laceration of popliteal artery, left leg, initial encounter
S85.012D	Laceration of popliteal artery, left leg, subsequent encounter
S85.012S	Laceration of popliteal artery, left leg, sequela
S85.091A	Other specified injury of popliteal artery, right leg, initial encounter
S85.091D	Other specified injury of popliteal artery, right leg, subsequent encounter
S85.091S	Other specified injury of popliteal artery, right leg, sequela
S85.092A	Other specified injury of popliteal artery, left leg, initial encounter
S85.092D	Other specified injury of popliteal artery, left leg, subsequent encounter
S85.092S	Other specified injury of popliteal artery, left leg, sequela
S85.141A	Laceration of anterior tibial artery, right leg, initial encounter
S85.141D	Laceration of anterior tibial artery, right leg, subsequent encounter
S85.141S	Laceration of anterior tibial artery, right leg, sequela
S85.142A	Laceration of anterior tibial artery, left leg, initial encounter
S85.142D	Laceration of anterior tibial artery, left leg, subsequent encounter
S85.142S	Laceration of anterior tibial artery, left leg, sequela
S85.151A	Other specified injury of anterior tibial artery, right leg, initial encounter
S85.151D	Other specified injury of anterior tibial artery, right leg, subsequent encounter
S85.151S	Other specified injury of anterior tibial artery, right leg, sequela
S85.152A	Other specified injury of anterior tibial artery, left leg, initial encounter
S85.152D	Other specified injury of anterior tibial artery, left leg, subsequent encounter
S85.152S	Other specified injury of anterior tibial artery, left leg, sequela
S85.171A	Laceration of posterior tibial artery, right leg, initial encounter
S85.171D	Laceration of posterior tibial artery, right leg, subsequent encounter
S85.171S	Laceration of posterior tibial artery, right leg, sequela
S85.172A	Laceration of posterior tibial artery, left leg, initial encounter
S85.172D	Laceration of posterior tibial artery, left leg, subsequent encounter
S85.172S	Laceration of posterior tibial artery, left leg, sequela
S85.181A	Other specified injury of posterior tibial artery, right leg, initial encounter
S85.181D	Other specified injury of posterior tibial artery, right leg, subsequent encounter
S85.181S	Other specified injury of posterior tibial artery, right leg, sequela
S85.182A	Other specified injury of posterior tibial artery, left leg, initial encounter
S85.182D	Other specified injury of posterior tibial artery, left leg, subsequent encounter
S85.182S	Other specified injury of posterior tibial artery, left leg, sequela
S85.211A	Laceration of peroneal artery, right leg, initial encounter
S85.211D	Laceration of peroneal artery, right leg, subsequent encounter
S85.211S	Laceration of peroneal artery, right leg, sequela
S85.212A	Laceration of peroneal artery, left leg, initial encounter
S85.212D	Laceration of peroneal artery, left leg, subsequent encounter
S85.212S	Laceration of peroneal artery, left leg, sequela
S85.291A	Other specified injury of peroneal artery, right leg, initial encounter
S85.291D	Other specified injury of peroneal artery, right leg, subsequent encounter
S85.291S	Other specified injury of peroneal artery, right leg, sequela
S85.292A	Other specified injury of peroneal artery, left leg, initial encounter
S85.292D	Other specified injury of peroneal artery, left leg, subsequent encounter
S85.292S	Other specified injury of peroneal artery, left leg, sequela
S85.311A	Laceration of greater saphenous vein at lower leg level, right leg, initial encounter
S85.311D	Laceration of greater saphenous vein at lower leg level, right leg, subsequent encounter
S85.311S	Laceration of greater saphenous vein at lower leg level, right leg, sequela
S85.312A	Laceration of greater saphenous vein at lower leg level, left leg, initial encounter
S85.312D	Laceration of greater saphenous vein at lower leg level, left leg, subsequent encounter
S85.312S	Laceration of greater saphenous vein at lower leg level, left leg, sequela

ICD-10 Codes	Description
S85.391A	Other specified injury of greater saphenous vein at lower leg level, right leg, initial encounter
S85.391D	Other specified injury of greater saphenous vein at lower leg level, right leg, subsequent encounter
S85.391S	Other specified injury of greater saphenous vein at lower leg level, right leg, sequela
S85.392A	Other specified injury of greater saphenous vein at lower leg level, left leg, initial encounter
S85.392D	Other specified injury of greater saphenous vein at lower leg level, left leg, subsequent encounter
S85.392S	Other specified injury of greater saphenous vein at lower leg level, left leg, sequela
S85.411A	Laceration of lesser saphenous vein at lower leg level, right leg, initial encounter
S85.411D	Laceration of lesser saphenous vein at lower leg level, right leg, subsequent encounter
S85.411S	Laceration of lesser saphenous vein at lower leg level, right leg, sequela
S85.412A	Laceration of lesser saphenous vein at lower leg level, left leg, initial encounter
S85.412D	Laceration of lesser saphenous vein at lower leg level, left leg, subsequent encounter
S85.412S	Laceration of lesser saphenous vein at lower leg level, left leg, sequela
S85.491A	Other specified injury of lesser saphenous vein at lower leg level, right leg, initial encounter
S85.491D	Other specified injury of lesser saphenous vein at lower leg level, right leg, subsequent encounter
S85.491S	Other specified injury of lesser saphenous vein at lower leg level, right leg, sequela
S85.492A	Other specified injury of lesser saphenous vein at lower leg level, left leg, initial encounter
S85.492D	Other specified injury of lesser saphenous vein at lower leg level, left leg, subsequent encounter
S85.492S	Other specified injury of lesser saphenous vein at lower leg level, left leg, sequela
S85.511A	Laceration of popliteal vein, right leg, initial encounter
S85.511D	Laceration of popliteal vein, right leg, subsequent encounter
S85.511S	Laceration of popliteal vein, right leg, sequela
S85.512A	Laceration of popliteal vein, left leg, initial encounter
S85.512D	Laceration of popliteal vein, left leg, subsequent encounter
S85.512S	Laceration of popliteal vein, left leg, sequela
S85.591A	Other specified injury of popliteal vein, right leg, initial encounter
S85.591D	Other specified injury of popliteal vein, right leg, subsequent encounter
S85.591S	Other specified injury of popliteal vein, right leg, sequela
S85.592A	Other specified injury of popliteal vein, left leg, initial encounter
S85.592D	Other specified injury of popliteal vein, left leg, subsequent encounter
S85.592S	Other specified injury of popliteal vein, left leg, sequela
S85.811A	Laceration of other blood vessels at lower leg level, right leg, initial encounter
S85.811D	Laceration of other blood vessels at lower leg level, right leg, subsequent encounter
S85.811S	Laceration of other blood vessels at lower leg level, right leg, sequela
S85.812A	Laceration of other blood vessels at lower leg level, left leg, initial encounter
S85.812D	Laceration of other blood vessels at lower leg level, left leg, subsequent encounter
S85.812S	Laceration of other blood vessels at lower leg level, left leg, sequela
S85.891A	Other specified injury of other blood vessels at lower leg level, right leg, initial encounter
S85.891D	Other specified injury of other blood vessels at lower leg level, right leg, subsequent encounter
S85.891S	Other specified injury of other blood vessels at lower leg level, right leg, sequela
S85.892A	Other specified injury of other blood vessels at lower leg level, left leg, initial encounter
S85.892D	Other specified injury of other blood vessels at lower leg level, left leg, subsequent encounter
S85.892S	Other specified injury of other blood vessels at lower leg level, left leg, sequela
T81.42XA	Infection following a procedure, deep incisional surgical site, initial encounter
T81.42XD	Infection following a procedure, deep incisional surgical site, subsequent encounter
T81.42XS	Infection following a procedure, deep incisional surgical site, sequela
T81.43XA	Infection following a procedure, organ and space surgical site, initial encounter
T81.43XD	Infection following a procedure, organ and space surgical site, subsequent encounter
T81.43XS	Infection following a procedure, organ and space surgical site, sequela
T82.310A	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), initial encounter
T82.310D	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), subsequent encounter
T82.310S	Breakdown (mechanical) of aortic (bifurcation) graft (replacement), sequela
T82.311A	Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter
T82.311D	Breakdown (mechanical) of carotid arterial graft (bypass), subsequent encounter
T82.311S	Breakdown (mechanical) of carotid arterial graft (bypass), sequela
T82.312A	Breakdown (mechanical) of femoral arterial graft (bypass), initial encounter
T82.312D	Breakdown (mechanical) of femoral arterial graft (bypass), subsequent encounter
T82.312S	Breakdown (mechanical) of femoral arterial graft (bypass), sequela

ICD-10 Codes	Description
T82.318A	Breakdown (mechanical) of other vascular grafts, initial encounter
T82.318D	Breakdown (mechanical) of other vascular grafts, subsequent encounter
T82.318S	Breakdown (mechanical) of other vascular grafts, sequela
T82.320A	Displacement of aortic (bifurcation) graft (replacement), initial encounter
T82.320D	Displacement of aortic (bifurcation) graft (replacement), subsequent encounter
T82.320S	Displacement of aortic (bifurcation) graft (replacement), sequela
T82.321A	Displacement of carotid arterial graft (bypass), initial encounter
T82.321D	Displacement of carotid arterial graft (bypass), subsequent encounter
T82.321S	Displacement of carotid arterial graft (bypass), sequela
T82.322A	Displacement of femoral arterial graft (bypass), initial encounter
T82.322D	Displacement of femoral arterial graft (bypass), subsequent encounter
T82.322S	Displacement of femoral arterial graft (bypass), sequela
T82.328A	Displacement of other vascular grafts, initial encounter
T82.328D	Displacement of other vascular grafts, subsequent encounter
T82.328S	Displacement of other vascular grafts, sequela
T82.330A	Leakage of aortic (bifurcation) graft (replacement), initial encounter
T82.330D	Leakage of aortic (bifurcation) graft (replacement), subsequent encounter
T82.330S	Leakage of aortic (bifurcation) graft (replacement), sequela
T82.331A	Leakage of carotid arterial graft (bypass), initial encounter
T82.331D	Leakage of carotid arterial graft (bypass), subsequent encounter
T82.331S	Leakage of carotid arterial graft (bypass), sequela
T82.332A	Leakage of femoral arterial graft (bypass), initial encounter
T82.332D	Leakage of femoral arterial graft (bypass), subsequent encounter
T82.332S	Leakage of femoral arterial graft (bypass), sequela
T82.338A	Leakage of other vascular grafts, initial encounter
T82.338D	Leakage of other vascular grafts, subsequent encounter
T82.338S	Leakage of other vascular grafts, sequela
T82.390A	Other mechanical complication of aortic (bifurcation) graft (replacement), initial encounter
T82.390D	Other mechanical complication of aortic (bifurcation) graft (replacement), subsequent encounter
T82.390S	Other mechanical complication of aortic (bifurcation) graft (replacement), sequela
T82.391A	Other mechanical complication of carotid arterial graft (bypass), initial encounter
T82.391D	Other mechanical complication of carotid arterial graft (bypass), subsequent encounter
T82.391S	Other mechanical complication of carotid arterial graft (bypass), sequela
T82.392A	Other mechanical complication of femoral arterial graft (bypass), initial encounter
T82.392D	Other mechanical complication of femoral arterial graft (bypass), subsequent encounter
T82.392S	Other mechanical complication of femoral arterial graft (bypass), sequela
T82.398A	Other mechanical complication of other vascular grafts, initial encounter
T82.398D	Other mechanical complication of other vascular grafts, subsequent encounter
T82.398S	Other mechanical complication of other vascular grafts, sequela
T82.41XA	Breakdown (mechanical) of vascular dialysis catheter, initial encounter
T82.41XD	Breakdown (mechanical) of vascular dialysis catheter, subsequent encounter
T82.41XS	Breakdown (mechanical) of vascular dialysis catheter, sequela
T82.42XA	Displacement of vascular dialysis catheter, initial encounter
T82.42XD	Displacement of vascular dialysis catheter, subsequent encounter
T82.42XS	Displacement of vascular dialysis catheter, sequela
T82.43XA	Leakage of vascular dialysis catheter, initial encounter
T82.43XD	Leakage of vascular dialysis catheter, subsequent encounter
T82.43XS	Leakage of vascular dialysis catheter, sequela
T82.49XA	Other complication of vascular dialysis catheter, initial encounter
T82.49XD	Other complication of vascular dialysis catheter, subsequent encounter
T82.49XS	Other complication of vascular dialysis catheter, sequela
T82.510A	Breakdown (mechanical) of surgically created arteriovenous fistula, initial encounter
T82.510D	Breakdown (mechanical) of surgically created arteriovenous fistula, subsequent encounter
T82.510S	Breakdown (mechanical) of surgically created arteriovenous fistula, sequela
T82.511A	Breakdown (mechanical) of surgically created arteriovenous shunt, initial encounter
T82.511D	Breakdown (mechanical) of surgically created arteriovenous shunt, subsequent encounter
T82.511S	Breakdown (mechanical) of surgically created arteriovenous shunt, sequela
T82.513A	Breakdown (mechanical) of balloon (counterpulsation) device, initial encounter

ICD-10 Codes	Description
T82.513D	Breakdown (mechanical) of balloon (counterpulsation) device, subsequent encounter
T82.513S	Breakdown (mechanical) of balloon (counterpulsation) device, sequela
T82.514A	Breakdown (mechanical) of infusion catheter, initial encounter
T82.514D	Breakdown (mechanical) of infusion catheter, subsequent encounter
T82.514S	Breakdown (mechanical) of infusion catheter, sequela
T82.515A	Breakdown (mechanical) of umbrella device, initial encounter
T82.515D	Breakdown (mechanical) of umbrella device, subsequent encounter
T82.515S	Breakdown (mechanical) of umbrella device, sequela
T82.518A	Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
T82.518D	Breakdown (mechanical) of other cardiac and vascular devices and implants, subsequent encounter
T82.518S	Breakdown (mechanical) of other cardiac and vascular devices and implants, sequela
T82.520A	Displacement of surgically created arteriovenous fistula, initial encounter
T82.520D	Displacement of surgically created arteriovenous fistula, subsequent encounter
T82.520S	Displacement of surgically created arteriovenous fistula, sequela
T82.521A	Displacement of surgically created arteriovenous shunt, initial encounter
T82.521D	Displacement of surgically created arteriovenous shunt, subsequent encounter
T82.521S	Displacement of surgically created arteriovenous shunt, sequela
T82.523A	Displacement of balloon (counterpulsation) device, initial encounter
T82.523D	Displacement of balloon (counterpulsation) device, subsequent encounter
T82.523S	Displacement of balloon (counterpulsation) device, sequela
T82.528A	Displacement of other cardiac and vascular devices and implants, initial encounter
T82.528D	Displacement of other cardiac and vascular devices and implants, subsequent encounter
T82.528S	Displacement of other cardiac and vascular devices and implants, sequela
T82.530A	Leakage of surgically created arteriovenous fistula, initial encounter
T82.530D	Leakage of surgically created arteriovenous fistula, subsequent encounter
T82.530S	Leakage of surgically created arteriovenous fistula, sequela
T82.531A	Leakage of surgically created arteriovenous shunt, initial encounter
T82.531D	Leakage of surgically created arteriovenous shunt, subsequent encounter
T82.531S	Leakage of surgically created arteriovenous shunt, sequela
T82.533A	Leakage of balloon (counterpulsation) device, initial encounter
T82.533D	Leakage of balloon (counterpulsation) device, subsequent encounter
T82.533S	Leakage of balloon (counterpulsation) device, sequela
T82.538A	Leakage of other cardiac and vascular devices and implants, initial encounter
T82.538D	Leakage of other cardiac and vascular devices and implants, subsequent encounter
T82.538S	Leakage of other cardiac and vascular devices and implants, sequela
T82.590A	Other mechanical complication of surgically created arteriovenous fistula, initial encounter
T82.590D	Other mechanical complication of surgically created arteriovenous fistula, subsequent encounter
T82.590S	Other mechanical complication of surgically created arteriovenous fistula, sequela
T82.591A	Other mechanical complication of surgically created arteriovenous shunt, initial encounter
T82.591D	Other mechanical complication of surgically created arteriovenous shunt, subsequent encounter
T82.591S	Other mechanical complication of surgically created arteriovenous shunt, sequela
T82.593A	Other mechanical complication of balloon (counterpulsation) device, initial encounter
T82.593D	Other mechanical complication of balloon (counterpulsation) device, subsequent encounter
T82.593S	Other mechanical complication of balloon (counterpulsation) device, sequela
T82.598A	Other mechanical complication of other cardiac and vascular devices and implants, initial encounter
T82.598D	Other mechanical complication of other cardiac and vascular devices and implants, subsequent encounter
T82.598S	Other mechanical complication of other cardiac and vascular devices and implants, sequela
T82.7XXA	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, initial encounter
T82.7XXD	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, subsequent encounter
T82.7XXS	Infection and inflammatory reaction due to other cardiac and vascular devices, implants and grafts, 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 due to vascular prosthetic devices, implants and grafts, initial encounter

ICD-10 Codes	Description
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
T82.827A	Fibrosis due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.827D	Fibrosis due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.827S	Fibrosis due to cardiac prosthetic devices, implants and grafts, sequela
T82.828A	Fibrosis due to vascular prosthetic devices, implants and grafts, initial encounter
T82.828D	Fibrosis due to vascular prosthetic devices, implants and grafts, subsequent encounter
T82.828S	Fibrosis due to vascular prosthetic devices, implants and grafts, sequela
T82.837A	Hemorrhage due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.837D	Hemorrhage due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.837S	Hemorrhage due to cardiac prosthetic devices, implants and grafts, sequela
T82.838A	Hemorrhage due to vascular prosthetic devices, implants and grafts, initial encounter
T82.838D	Hemorrhage due to vascular prosthetic devices, implants and grafts, subsequent encounter
T82.838S	Hemorrhage due to vascular prosthetic devices, implants and grafts, sequela
T82.847A	Pain due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.847D	Pain due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.847S	Pain due to cardiac prosthetic devices, implants and grafts, sequela
T82.848A	Pain due to vascular prosthetic devices, implants and grafts, initial encounter
T82.848D	Pain due to vascular prosthetic devices, implants and grafts, subsequent encounter
T82.848S	Pain due to vascular prosthetic devices, implants and grafts, sequela
T82.857A	Stenosis of other cardiac prosthetic devices, implants and grafts, initial encounter
T82.857D	Stenosis of other cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.857S	Stenosis of other cardiac prosthetic devices, implants and grafts, sequela
T82.858A	Stenosis of other vascular prosthetic devices, implants and grafts, initial encounter
T82.858D	Stenosis of other vascular prosthetic devices, implants and grafts, subsequent encounter
T82.858S	Stenosis of other vascular prosthetic devices, implants and grafts, sequela
T82.867A	Thrombosis due to cardiac prosthetic devices, implants and grafts, initial encounter
T82.867D	Thrombosis due to cardiac prosthetic devices, implants and grafts, subsequent encounter
T82.867S	Thrombosis due to cardiac prosthetic devices, implants and grafts, sequela
T82.868A	Thrombosis due to vascular prosthetic devices, implants and grafts, initial encounter
T82.868D	Thrombosis due to vascular prosthetic devices, implants and grafts, subsequent encounter
T82.868S	Thrombosis 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
T82.898A	Other specified complication of vascular prosthetic devices, implants and grafts, initial encounter
T82.898D	Other specified complication of vascular prosthetic devices, implants and grafts, subsequent encounter
T82.898S	Other specified complication of vascular prosthetic devices, implants and grafts, sequela
T83.81XA	Embolism due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.81XD	Embolism due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.81XS	Embolism due to genitourinary prosthetic devices, implants and grafts, sequela
T83.82XA	Fibrosis due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.82XD	Fibrosis due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.82XS	Fibrosis due to genitourinary prosthetic devices, implants and grafts, sequela
T83.83XA	Hemorrhage due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.83XD	Hemorrhage due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.83XS	Hemorrhage due to genitourinary prosthetic devices, implants and grafts, sequela
T83.84XA	Pain due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.84XD	Pain due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.84XS	Pain due to genitourinary prosthetic devices, implants and grafts, sequela
T83.85XA	Stenosis due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.85XD	Stenosis due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.85XS	Stenosis due to genitourinary prosthetic devices, implants and grafts, sequela
T83.86XA	Thrombosis due to genitourinary prosthetic devices, implants and grafts, initial encounter
T83.86XD	Thrombosis due to genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.86XS	Thrombosis due to genitourinary prosthetic devices, implants and grafts, sequela

ICD-10 Codes	Description
T83.89XA	Other specified complication of genitourinary prosthetic devices, implants and grafts, initial encounter
T83.89XD	Other specified complication of genitourinary prosthetic devices, implants and grafts, subsequent encounter
T83.89XS	Other specified complication of genitourinary prosthetic devices, implants and grafts, sequela
T84.81XA	Embolism due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.81XD	Embolism due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.81XS	Embolism due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.82XA	Fibrosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.82XD	Fibrosis due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.82XS	Fibrosis due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.83XA	Hemorrhage due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.83XD	Hemorrhage due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.83XS	Hemorrhage due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.84XA	Pain due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.84XD	Pain due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.84XS	Pain due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.85XA	Stenosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.85XD	Stenosis due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.85XS	Stenosis due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.86XA	Thrombosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.86XD	Thrombosis due to internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.86XS	Thrombosis due to internal orthopedic prosthetic devices, implants and grafts, sequela
T84.89XA	Other specified complication of internal orthopedic prosthetic devices, implants and grafts, initial encounter
T84.89XD	Other specified complication of internal orthopedic prosthetic devices, implants and grafts, subsequent encounter
T84.89XS	Other specified complication of internal orthopedic prosthetic devices, implants and grafts, sequela
T85.614A	Breakdown (mechanical) of insulin pump, initial encounter
T85.614D	Breakdown (mechanical) of insulin pump, subsequent encounter
T85.614S	Breakdown (mechanical) of insulin pump, sequela
T85.624A	Displacement of insulin pump, initial encounter
T85.624D	Displacement of insulin pump, subsequent encounter
T85.624S	Displacement of insulin pump, sequela
T85.633A	Leakage of insulin pump, initial encounter
T85.633D	Leakage of insulin pump, subsequent encounter
T85.633S	Leakage of insulin pump, sequela
T85.694A	Other mechanical complication of insulin pump, initial encounter
T85.694D	Other mechanical complication of insulin pump, subsequent encounter
T85.694S	Other mechanical complication of insulin pump, sequela
T85.860A	Thrombosis due to nervous system prosthetic devices, implants and grafts, initial encounter
T85.860D	Thrombosis due to nervous system prosthetic devices, implants and grafts, subsequent encounter
T85.860S	Thrombosis due to nervous system prosthetic devices, implants and grafts, sequela
T85.868A	Thrombosis due to other internal prosthetic devices, implants and grafts, initial encounter
T85.868D	Thrombosis due to other internal prosthetic devices, implants and grafts, subsequent encounter
T85.868S	Thrombosis due to other internal prosthetic devices, implants and grafts, sequela
T86.848	Other complications of corneal transplant
T87.0X1	Complications of reattached (part of) right upper extremity
T87.0X2	Complications of reattached (part of) left upper extremity
T87.1X1	Complications of reattached (part of) right lower extremity
T87.1X2	Complications of reattached (part of) left lower extremity
T87.2	Complications of other reattached body part
T88.8XXA	Other specified complications of surgical and medical care, not elsewhere classified, initial encounter
T88.8XXD	Other specified complications of surgical and medical care, not elsewhere classified, subsequent encounter

ICD-10 Codes	Description
T88.8XXS	Other specified complications of surgical and medical care, not elsewhere classified, sequela
Z09	Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
Z86.718	Personal history of other venous thrombosis and embolism
Z86.72	Personal history of thrombophlebitis
Z95.1	Presence of aortocoronary bypass graft

Group 2 Paragraph:
Group 2

Two diagnoses are required:

Either

Z01.810 or Z01.818

plus

any one of the ICD-10 diagnoses noted in the grouping immediately below.

Group 2 Codes:

ICD-10 Codes	Description
I20.0*	Unstable angina
I20.1*	Angina pectoris with documented spasm
I20.8*	Other forms of angina pectoris
I21.01*	ST elevation (STEMI) myocardial infarction involving left main coronary artery
I21.02*	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
I21.09*	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
I21.11*	ST elevation (STEMI) myocardial infarction involving right coronary artery
I21.19*	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
I21.21*	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery
I21.29*	ST elevation (STEMI) myocardial infarction involving other sites
I21.4*	Non-ST elevation (NSTEMI) myocardial infarction
I22.0*	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
I22.1*	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
I22.2*	Subsequent non-ST elevation (NSTEMI) myocardial infarction
I22.8*	Subsequent ST elevation (STEMI) myocardial infarction of other sites
I24.0*	Acute coronary thrombosis not resulting in myocardial infarction
I24.1*	Dressler's syndrome
I24.8*	Other forms of acute ischemic heart disease
I25.10*	Atherosclerotic heart disease of native coronary artery without angina pectoris
I25.110*	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
I25.111*	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
I25.118*	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
I25.2*	Old myocardial infarction
I25.3*	Aneurysm of heart
I25.41*	Coronary artery aneurysm
I25.42*	Coronary artery dissection
I25.5*	Ischemic cardiomyopathy
I25.6*	Silent myocardial ischemia
I25.710*	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
I25.711*	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.718*	

ICD-10 Codes	Description
	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
I25.720*	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
I25.721*	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.728*	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris
I25.730*	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris
I25.731*	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.738*	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris
I25.750*	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
I25.751*	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
I25.758*	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
I25.760*	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
I25.761*	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
I25.768*	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
I25.790*	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
I25.791*	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
I25.798*	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
I25.810*	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
I25.811*	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
I25.812*	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
I25.82*	Chronic total occlusion of coronary artery
I25.83*	Coronary atherosclerosis due to lipid rich plaque
I25.89*	Other forms of chronic ischemic heart disease
I70.0*	Atherosclerosis of aorta
I70.1*	Atherosclerosis of renal artery
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
I70.218*	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity
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
I70.228*	Atherosclerosis of native arteries of extremities with rest pain, other extremity
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
I70.235*	Atherosclerosis of native arteries of right leg with ulceration of other part of foot
I70.238*	Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg
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
I70.245*	Atherosclerosis of native arteries of left leg with ulceration of other part of foot
I70.248*	Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg
I70.25*	Atherosclerosis of native arteries of other extremities with ulceration
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
I70.268*	Atherosclerosis of native arteries of extremities with gangrene, other extremity

ICD-10 Codes	Description
170.291*	Other atherosclerosis of native arteries of extremities, right leg
170.292*	Other atherosclerosis of native arteries of extremities, left leg
170.293*	Other atherosclerosis of native arteries of extremities, bilateral legs
170.298*	Other atherosclerosis of native arteries of extremities, other extremity
170.411*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
170.412*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
170.413*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170.418*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity
170.421*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
170.422*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
170.423*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
170.428*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity
170.431*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh
170.432*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf
170.433*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle
170.434*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot
170.435*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot
170.438*	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg
170.441*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh
170.442*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf
170.443*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle
170.444*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot
170.445*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot
170.448*	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg
170.45*	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration
170.461*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg
170.462*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg
170.463*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs
170.468*	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity
170.491*	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
170.492*	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
170.493*	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
170.498*	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
170.511*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
170.512*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
170.513*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
170.518*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity
170.521*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
170.522*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg
170.523*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
170.528*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity

ICD-10 Codes	Description
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
I70.535*	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot
I70.538*	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg
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
I70.545*	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot
I70.548*	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg
I70.55*	Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration
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
I70.568*	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity
I70.591*	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
I70.592*	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
I70.593*	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
I70.598*	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
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
I70.618*	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity
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
I70.628*	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity
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
I70.635*	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot
I70.638*	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg
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
I70.645*	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot
I70.648*	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg
I70.65*	Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration
I70.661*	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg

ICD-10 Codes	Description
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
I70.668*	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity
I70.691*	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg
I70.692*	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
I70.693*	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
I70.698*	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
I70.711*	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg
I70.712*	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg
I70.713*	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
I70.718*	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity
I70.721*	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg
I70.722*	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg
I70.723*	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs
I70.728*	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity
I70.731*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh
I70.732*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf
I70.733*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle
I70.734*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot
I70.735*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot
I70.738*	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg
I70.741*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh
I70.742*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf
I70.743*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle
I70.744*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot
I70.745*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot
I70.748*	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg
I70.75*	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration
I70.761*	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg
I70.762*	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg
I70.763*	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs
I70.768*	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity
I70.791*	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg
I70.792*	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg
I70.793*	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
I70.798*	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
I70.92*	Chronic total occlusion of artery of the extremities
Z01.810*	Encounter for preprocedural cardiovascular examination
Z01.818*	Encounter for other preprocedural examination

Group 2 Medical Necessity ICD-10 Codes Asterisk Explanation:

*Note: Two ICD-10-CM Codes are required for payment. Either Z01.810 or Z01.818 plus any one of the ICD-10 diagnoses noted in the grouping immediately above.

ICD-10 Codes that DO NOT Support Medical Necessity

Group 1 Paragraph:

All diagnoses **not** listed in ICD-10 Codes That Support Medical Necessity above.

General Information

Associated Information

Documentation Requirements

The provider must ensure that documentation showing reasonableness and necessity of the procedures are kept on file and made available upon the request of the Medicare carrier.

The accuracy of noninvasive vascular diagnostic studies depends on the knowledge, skills and experience of the technologist and physician performing and interpreting the study. It is recommended that noninvasive vascular studies either be rendered in a physician's office by/or under the direct supervision of persons credentialed in the specific type of procedure being performed or performed in laboratories accredited in the specific type of evaluation. Noninvasive vascular studies done in an IDTF facility or vascular laboratory are subject to the rules and regulations governing the facility.

This A/B MAC is not a credentialing body; therefore, this LCD will recommend certification, but not recommend certifying bodies.

In very rare instances, wherein both arterial and venous studies are done, documentation supporting reasonableness and necessity should be clearly indicated in the records.

The HCPCS/CPT code(s) may be subject to Correct Coding Initiative (CCI) edits. This policy does not take precedence over CCI edits. Please refer to the CCI for correct coding guidelines and specific applicable code combinations prior to billing Medicare.

When the documentation does not meet the criteria for the service rendered or the documentation does not establish the medical necessity for the services, such services will be denied as not reasonable and necessary.

When requesting a written redetermination (formerly appeal), providers must include all relevant documentation with the request.

Utilization Guidelines

Frequency of follow-up studies will be carefully monitored for the reasonableness and necessity. It is the responsibility of the provider to maintain documentation for post-payment audit.

Sources of Information

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Updated Sources:

1. Intersocietal Accreditation Commission (IAC) Essentials and Standards for Accreditations in Noninvasive Vascular Testing; Part II Vascular Laboratory Operations. *Peripheral Venous Testing*. 2010.

NOTE: Some of the websites used to create this policy may no longer be available.

Bibliography

N/A

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Revision History Information

Revision History Date	Revision History Number	Revision History Explanation	Reason(s) for Change
		09.06.18: At this time 21st Century Cures Act will apply to new and revised LCDs that restrict coverage which requires comment and notice. This revision is not a restriction to the coverage determination; and, therefore not all the fields included on the LCD are applicable as noted in this policy.	
10/01/2018	R9	The following ICD-10 codes were deleted from the ICD-10 Codes that Support Medical Necessity field: T81.4XXA; T81.4XXD; T81.4XXS	<ul style="list-style-type: none"> • Revisions Due To ICD-10-CM Code Changes
		The following ICD-10 Codes were added to the ICD-10 Codes that Support Medical Necessity field: T81.42XA; T81.42XD; T81.42XS; T81.43XA; T81.43XD; T81.43XS. This revision is due to the Annual ICD-10 Code Update and becomes effective October 1, 2018.	
		DATE (08/29/2017): At this time 21st Century Cures Act will apply to new and revised LCDs that restrict coverage which requires comment and notice. This revision is not a restriction to the coverage determination; and, therefore not all the fields included on the LCD are applicable as noted in this policy.	
10/01/2017	R8	Effective 10/1/2017, LCD is revised per the annual ICD-10-CM code update to: Add ICD-10-CM codes: L97.115; L97.116; L97.125; L97.126; L97.215; L97.216; L97.225; L97.226; L97.315; L97.316; L97.325; L97.326; L97.415; L97.416; L97.425; L97.426; L97.515; L97.516; L97.525; L97.526; L97.825; L97.826	<ul style="list-style-type: none"> • Revisions Due To ICD-10-CM Code Changes
		Revise ICD-10-CM codes: I82.811; I82.812; I83.812; I83.891; I83.892	
10/01/2016	R7	Code 93965 was deleted per CPT updates effective 12/31/2016 not 09/30/2016.	<ul style="list-style-type: none"> • Typographical Error
10/01/2016	R6	Code 93965 was deleted per CPT updates effective 09/30/2016.	<ul style="list-style-type: none"> • Revisions Due To CPT/HCPCS Code Changes
10/01/2016	R5	ICD 10 Update for 2016-2017: To add T85.860A, T85.860D, T85.860S, T85.868A, T85.868D, T85.868S effective 10/01/2016.	<ul style="list-style-type: none"> • Revisions Due To ICD-10-CM Code Changes
10/01/2015	R4	Addition of M79.651, M79.652, M79.661, M79.662 and J95.821 to Group 1 ICD-10 codes effective 10/01/2015.	<ul style="list-style-type: none"> • Reconsideration Request
10/01/2015	R3	Removal of M79.89 ICD-10 Code entered in error.	

Revision History Date	Revision History Number	Revision History Explanation	Reason(s) for Change
10/01/2015	R2	Addition of I82.401, I82.402, I82.403 and I82.409 for thrombosis of unspecified vessels in the leg to Group 1 coding ICD-10 Codes that Support Medical Necessity.	<ul style="list-style-type: none"> • Typographical Error • Reconsideration Request
10/01/2015	R1	Addition of M79.601, M79.602 and M79.89 to Group 1 coding ICD-10 Codes that Support Medical Necessity Addition of M79.604, M79.605, M79.606 to Group 1 coding ICD-10 Codes that Support Medical Necessity. Removal of *M79.601 -M79.675 is to be used only for pain with pressure to paragraph regarding ICD-10 Codes that Support Medical Necessity.	<ul style="list-style-type: none"> • Reconsideration Request

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Associated Documents

Attachments N/A

Related Local Coverage Documents N/A

Related National Coverage Documents N/A

Public Version(s) Updated on 09/06/2018 with effective dates 10/01/2018 - N/A [Updated on 08/30/2017 with effective dates 10/01/2017 - 09/30/2018](#) [Updated on 04/06/2017 with effective dates 10/01/2016 - 09/30/2017](#) [Updated on 01/18/2017 with effective dates 10/01/2016 - N/A](#) [Updated on 09/13/2016 with effective dates 10/01/2016 - N/A](#) Some older versions have been archived. Please visit the [MCD Archive Site](#) to retrieve them.

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Keywords

- Noninvasive
- Peripheral
- Venous
- Deep Vein
- Superficial Vein
- Thrombosis
- Vein
- Insufficiency
- 93965
- 93970
- 93971
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