

# Local Coverage Determination (LCD): Noninvasive Peripheral Arterial Studies (L34219)

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Please Note: Future Effective Date.

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## Contractor Information

| Contractor Name                                    | Contract Type | Contract Number | Jurisdiction | State(s)  |
|--|---------------|-----------------|--------------|---|
| <a href="#">Noridian Healthcare Solutions, LLC</a> | A and B MAC   | 01112 - MAC B   | J - E        | California - Northern   |
| <a href="#">Noridian Healthcare Solutions, LLC</a> | A and B MAC   | 01182 - MAC B   | J - E        | California - Southern<br>American Samoa<br>Guam<br>Hawaii<br>Northern Mariana Islands<br>Nevada |
| <a href="#">Noridian Healthcare Solutions, LLC</a> | A and B MAC   | 01212 - MAC B   | J - E        |   |
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## LCD Information

### Document Information

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|--|--------|--|
| L34219   | LCD ID | Original Effective Date<br>For services performed on or after 10/01/2015 |
| Original ICD-9 LCD ID<br><a href="#">L33478</a>      |        | Revision Effective Date<br>For services performed on or after 10/01/2017 |
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|  |        | Notice Period Start Date<br>N/A  |
|  |        | Notice Period End Date   |

Source Proposed LCD  
N/A

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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, §80.6.1, Physician Signature Requirements for Diagnostic Tests.

CMS Manual System, Pub. 100-03, *Medicare National Coverage Determinations Manual*, Chapter 1, Part 1, §20.14 - Plethysmography and 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 arterial studies are useful in detecting extremity arterial compromise, functional severity and hemodynamic significance of atherosclerosis. These procedures help to differentiate claudication from pain of non-vascular etiologies. Lower extremity noninvasive testing is also a valuable tool in monitoring graft complications including occlusions, early flow compromise secondary to technical problems, or chronic reoccurrence of anastomatic or distal disease and aneurysmal diseases of the artery. Information regarding collateral circulation can also be gained.

"Vascular studies include patient care required to perform the studies, supervision of the studies and interpretation of study results with copies for patient records of hard copy output with analysis of all data, including bidirectional vascular flow or imaging when provided."

"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)

The two basic modalities of evaluation are:

1. The indirect methods (e.g. Ankle/Brachial Index (ABI), segmental limb pressures, transcutaneous oxygen tension measurement (TcPO<sub>2</sub>), CW bi-dimensional Doppler and plethysmographic waveforms) that provide information regarding functional severity of disease.
2. The **direct** method of evaluation which is color-duplex imaging (CDI), the duplex scan that provides more specific anatomic and physiologic information.

### **Ankle/Brachial Index**

The most common test is the Ankle-Brachial Index (ABI). This test measures the blood pressure at the ankle and elbow, and is performed using a Doppler stethoscope. While inflating cuffs placed on arms and legs, the technician positions the Doppler at a 45-degree angle to three arteries: the dorsalis pedis, posterior tibia, and brachial of the right and left sides.

### **Single Level Pressure and Physiologic Waveform**

Blood pressure and physiologic waveform (Doppler velocity signal or plethysmography tracing) recordings are obtained bilaterally at a single level (usually the ankle).

### **Segmental Pressure and Physiologic Waveform**

Blood pressures at various limb levels are measured to identify areas of regional hypotension. Physiologic waveforms (Doppler velocity signals or plethysmography tracings) are recorded at the same level to localize the level of disease to the inflow/outflow or runoff vessels.

### **Transcutaneous Oxygen Tension Measurement (TcPO<sub>2</sub>)**

The quantity of oxygen available for diffusion to the skin depends on the quantity delivered by the influx of blood and what is extracted to meet metabolic demands. TcPO<sub>2</sub> (Oxygen Tension) levels provide an index of the adequacy of tissue perfusion. Measurement may be made from any region of interest, usually the dorsum of the foot or upper calf. Whereas many claudicants have resting values in the normal range, measurements made from the feet of patients with limb-threatening ischemia are usually less than 20 mm Hg and frequently approach zero. This test is used in assessing the healing potential of wounds.

### **Stress Testing**

Exercise testing provides a medium for evaluating the functional significance of arterial occlusive disease. Upon completion of a maximum appropriate stress testing, arterial signals and blood pressures are reassessed at the ankle level. A patient with arterial occlusive disease will respond to exercise with a decrease in the ankle blood pressure. The magnitude of the decrease and time to return to baseline establish the severity and functional significance of arterial obstruction. Stress testing is useful in differentiating the pain of arterial insufficiency from that of other conditions such as arthritis and neuropathies. It also will identify those patients whose symptoms of fatigue are due to coronary or pulmonary disease rather than arterial insufficiency.

### **Color-Flow Doppler Duplex Scanning**

Duplex scan (e.g., 93880, 93882) describes an ultrasonic scanning procedure for characterizing the pattern and direction of blood flow in arteries or veins with the production of real-time images integrating B-mode two-dimensional vascular structure, Doppler spectral analysis, and color flow Doppler imaging.

Color-flow scanning adds Doppler information encoded as color to the conventional duplex scan to survey the arteries throughout their course. This test is used in those patients being evaluated for an invasive interventional procedure (laser, angioplasty or surgery). It can identify stenosis or occlusion, estimate the percentage of diameter reduction and determine the length of the lesion. Color-flow Doppler can be used to enhance conventional data acquisition.

**Noninvasive peripheral arterial examinations performed to establish the level and/or degree of arterial occlusive disease are reasonable and necessary if significant signs and/or symptoms of possible limb ischemia are present and the patient is a candidate for invasive therapeutic procedures.**

### **Indications for peripheral arterial evaluations:**

1. Claudication of less than one block or such severity that interferes significantly with the patient's occupation or lifestyle
2. Rest pains (typically including the forefoot), usually associated with diminished or absent pulses, which become increasingly severe with elevation and diminishes with placement of the leg in a dependent position **Diagnosis M79.609, should only be billed when the patient's symptoms meet this criteria.**
3. Tissue loss defined as gangrene or pre-gangrenous changes of the extremity or ischemic ulceration of the extremity occurring with diminished or absent pulses

4. Aneurysmal disease
5. Evidence of thromboembolic events
6. Blunt or penetrating trauma (including complications of diagnostic and/or therapeutic procedures)
7. Lower extremities surgical procedure where vascular disease is clinically suspected
8. For the patient with chronic renal failure and for whom an A/V fistula is planned
9. For radial artery evaluation in a patient scheduled for CABG

**Follow-up studies for post-operative conditions:**

1. In the immediate post-operative period, patients may be studied if reestablished pulses are lost, become equivocal, or if the patient develops related signs and/or symptoms of ischemia with impending repeat intervention.
2. With regards to autogenous lower extremity vein bypass surgeries, a study can be performed at three-month intervals during the first year, and at six-month intervals thereafter.
3. Follow-up studies more frequent than every 6 months are not reasonable and necessary post-angioplasty in the absence of signs and symptoms of ischemia. Synthetic grafts may be studied if the patient develops signs and/or symptoms of occlusive disease.

**A routine history and physical examination, which includes Ankle/Brachial Indices (ABIs), can readily document the presence or absence of ischemic disease in a majority of cases. It is not reasonable and necessary to proceed beyond the physical examination for minor signs and symptoms unless related signs and/or symptoms are present which are severe enough to require possible invasive intervention.**

**Examples of signs and symptoms that do not indicate reasonableness and necessity:**

1. Continuous burning of the feet is considered to be a neurologic symptom.
2. "Leg pain, nonspecific" and "Pain in Limb" as a single diagnosis is too general to warrant further investigation unless they can be related to other signs and symptoms.
3. Edema rarely occurs with arterial occlusive disease unless it is in the immediate postoperative period, in association with another inflammatory process or in association with rest pain.
4. Absence of relatively minor pulses (i.e., dorsalis pedis or posterior tibial) in the absence of symptoms. The absence of pulses is not an indication to proceed beyond the physical examination unless it is related to other signs and/or symptoms.
5. Minor symptoms such as hair loss, relative coolness of a foot, shiny thin skin.
6. Screening of an asymptomatic patient is not covered by Medicare.

ABIs, as separate procedures, are not reimbursable. An abnormal ABI (i.e., <0.9 must be accompanied by another appropriate indication before proceeding to more sophisticated or complete studies, except in patients with severe elevated ankle blood pressure.

If an arteriogram is planned, an abnormal ABI should be sufficient to determine its necessity. In some instances, ABI may prove inadequate because of a stovepipe vessel with ischemic signs and symptoms; a digital pressure study could be done. A few patients that have borderline ABIs would qualify for exercise studies to determine if there was a significant drop in pressure after exercise and an increase in symptoms. These qualify for further segmental studies.

In planning for foot and/or ankle surgery, a Transcutaneous Oximetry (TcPO<sub>2</sub>) or special waveform analysis should be considered adequate for determination of possible healing problems and extensive noninvasive vascular studies would not be required. This statement remains true for any surgery of the distal lower extremity in patients where healing is a concern. It is expected that the frequency will be no greater than twice in any 60-day period. Repetition of the test is only necessary when there is a need to modify treatment. Documentation to indicate reasonableness and necessity must be kept and made available to Medicare upon request.

Procedures rendered not meeting the criteria stated in the Indications and Limitations of Coverage and/or Medical Necessity section of this policy will be denied as not reasonable and necessary.

Methods not acceptable for reimbursement:

1. Mechanical oscillometry
2. Inductance plethysmography
3. Capacitance plethysmography
4. Photoelectric plethysmography
5. Thermography (CPT 93740)

CPT 93922 must include the ABIs unless a provocative function maneuver has been performed. CPT 93923 must

include the segmental blood pressure measurements with 1), one of the following: segmental Doppler waveform analysis, segmental volume plethysmography, segmental transcutaneous oxygen tension measurements, or 2), one of the following; measurements with postural provocative tests, measurements with reactive hyperemia.

**An ABI, done without further vascular studies, is not separately billable, but is included in the office visit services.**

Duplex scan for post-interventional follow-up which is typically limited in scope and unilateral in nature should use the unilateral or "limited study" codes (i.e., 93926 or 93931). Consequently, the "complete" duplex scan codes (i.e., 93925 or 93930) should seldom be used except in patients who had bilateral interventions.

Since the signs and symptoms of arterial occlusive disease and venous disease are so divergent, the performance of simultaneous arterial and venous studies during the same encounter should be rare. Therefore, documentation clearly supporting reasonableness and necessity of both procedures performed during the same encounter must be available for post-payment audit.

Duplex scanning and physiologic studies are reimbursed during the same encounter if the physiologic studies are abnormal and/or to evaluate vascular trauma, thromboembolic events or aneurysmal disease.

### **Hemodialysis Access Examination (CPT Code 93990)**

Limited coverage has been established for duplex scanning of hemodialysis access sites in patients with end-stage renal disease (ESRD). These procedures are medically necessary only in the presence of signs or symptoms of possible failure of the access site and when the results may impact the clinical course of the patient. Furthermore, when services are provided by the ESRD physician of record, services are considered renal-related and are therefore part of the physician's monthly capitated fee and are not separately reportable. Services performed by a Medicare-approved ESRD facility are covered services under the composite rate of the facility and therefore are not separately reimbursable.

For dialysis to take place, there must be a means of access so that the exchange of waste products may occur. As part of the dialysis treatment, ESRD facilities are responsible for monitoring access, and when occlusions occur, either declot the access or refer the patient for appropriate treatment. Procedures associated with monitoring access involve taking venous pressure, aspirating thrombus, observing elevated recirculation time, reduced urea reduction ratios, or collapsed shunt, etc. All such procedures are covered under the composite rate.

ESRD facilities are monitoring access through noninvasive vascular studies such as duplex and Doppler flow scans and billing separately for these procedures. Noninvasive vascular studies are not covered as a separately billable service if used to monitor a patient's vascular access site. Medicare pays for the technical component of the procedure in the composite payment rate.

An ESRD facility must furnish all necessary services, equipment, and supplies associated with a dialysis treatment, either directly or under arrangements that make the facility financially responsible for the service. If an ESRD facility or a renal physician decides to monitor the patient's access site with a noninvasive vascular study and does not have the equipment to perform the procedure, the facility or physician may arrange for the service to be furnished by another source. The alternative source, such as an independent diagnostic testing facility must look to the ESRD facility for payment. No separate payment for noninvasive vascular studies for monitoring the access site of an ESRD patient, whether coded as the access site or peripheral site, is permitted to any entity.

Where there are signs and symptoms of vascular access problems, Doppler flow studies may be used as a means to obtain diagnostic information to permit medical intervention to address the problem. Doppler flow studies may be considered medically necessary in the presence of signs or symptoms of possible failure of the ESRD patient's vascular access site, and when the results are used in determining the clinical course of the treatment for the patient.

The only CPT billing code for noninvasive vascular testing of a hemodialysis access site is Code 93990. Deny separate billing of the technical component of this code if it is performed on any patient for whom the ESRD composite rate for dialysis is being paid unless there is appropriate medical indication of the need for a Doppler flow study.

When a dialysis patient exhibits signs and symptoms of compromise to the vascular access site, Doppler flow studies may provide diagnostic information that will determine the appropriate medical intervention. Medicare considers a Doppler flow study medically necessary when the beneficiary's dialysis access site manifests signs or symptoms associated with vascular compromise, and when the results of this test are necessary to determine the clinical course of treatment.

Appropriate indications for duplex scan of hemodialysis access sites include:

- ICD-10-CM Codes T82.818A, T82.828A, T82.838A, T82.848A, T82.858A, T82.868A and T82.898A: Complication (complication
- NOS, occlusion NOS, embolism, fibrosis, hemorrhage, pain, stenosis, thrombosis) due to renal dialysis device, implant, and graft
- Clear documentation in the dialysis record of signs of chronic (i.e., three successive dialysis sessions) abnormal function

Examples supporting the medical necessity of Doppler flow studies include:

- Elevated dynamic venous pressure greater than 200mmHg when measured during dialysis with the blood pump set on a 200cc/min
- Access recirculation of 12 percent or greater
- An otherwise unexplained urea reduction rate of less than 60 percent
- An access with a palpable "water hammer" pulse on examination (which implies venous outflow obstruction)

Routine evaluation on a daily or weekly basis without evidence of the above is considered screening and is not a covered service. Billing for monitoring of hemodialysis access using CPT codes for noninvasive vascular studies other than CPT Code 93990 is considered a misrepresentation of the service actually provided.

Unless the documentation is provided supporting the necessity of more than one study, Medicare will limit payment to either a Doppler flow study or an arteriogram (fistulogram, venogram), but not both.

An example of when both studies may be clinically necessary is when a Doppler flow study demonstrates reduced flow (blood flow rate less than 800cc/min or a decreased flow of 25 percent or greater from previous study) and the physician requires an arteriogram to further define the extent of the problem. The patient's medical record must provide documentation supporting the need for more than one imaging study.

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

**Group 1 Codes:**

- LIMITED BILATERAL NONINVASIVE PHYSIOLOGIC STUDIES OF UPPER OR LOWER EXTREMITY ARTERIES, (EG, FOR LOWER EXTREMITY: ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES PLUS BIDIRECTIONAL, DOPPLER WAVEFORM RECORDING AND ANALYSIS AT 1-2 LEVELS, OR ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES PLUS VOLUME PLETHYSMOGRAPHY AT 1-2 LEVELS, OR ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES WITH, TRANSCUTANEOUS OXYGEN TENSION MEASUREMENT AT 1-2 LEVELS)
- 93922 COMPLETE BILATERAL NONINVASIVE PHYSIOLOGIC STUDIES OF UPPER OR LOWER EXTREMITY ARTERIES, 3 OR MORE LEVELS (EG, FOR LOWER EXTREMITY: ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES PLUS SEGMENTAL BLOOD PRESSURE MEASUREMENTS WITH BIDIRECTIONAL DOPPLER WAVEFORM RECORDING AND ANALYSIS, AT 3 OR MORE LEVELS, OR ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES PLUS SEGMENTAL VOLUME PLETHYSMOGRAPHY AT 3 OR MORE LEVELS, OR ANKLE/BRACHIAL INDICES AT DISTAL POSTERIOR TIBIAL AND ANTERIOR TIBIAL/DORSALIS PEDIS ARTERIES PLUS SEGMENTAL TRANSCUTANEOUS OXYGEN TENSION MEASUREMENTS AT 3 OR MORE LEVELS), OR SINGLE LEVEL STUDY WITH PROVOCATIVE FUNCTIONAL MANEUVERS (EG, MEASUREMENTS WITH POSTURAL PROVOCATIVE TESTS, OR MEASUREMENTS WITH REACTIVE HYPEREMIA)
- 93923 NONINVASIVE PHYSIOLOGIC STUDIES OF LOWER EXTREMITY ARTERIES, AT REST AND FOLLOWING TREADMILL STRESS TESTING, (IE, BIDIRECTIONAL DOPPLER WAVEFORM OR VOLUME PLETHYSMOGRAPHY RECORDING AND ANALYSIS AT REST WITH ANKLE/BRACHIAL INDICES IMMEDIATELY AFTER AND AT TIMED INTERVALS FOLLOWING PERFORMANCE OF A STANDARDIZED PROTOCOL ON A MOTORIZED TREADMILL PLUS RECORDING OF TIME OF ONSET OF CLAUDICATION OR OTHER SYMPTOMS, MAXIMAL WALKING TIME, AND TIME TO RECOVERY) COMPLETE BILATERAL STUDY
- 93924 DUPLEX SCAN OF LOWER EXTREMITY ARTERIES OR ARTERIAL BYPASS GRAFTS; COMPLETE BILATERAL STUDY
- 93925 DUPLEX SCAN OF LOWER EXTREMITY ARTERIES OR ARTERIAL BYPASS GRAFTS; UNILATERAL OR LIMITED STUDY
- 93926 DUPLEX SCAN OF UPPER EXTREMITY ARTERIES OR ARTERIAL BYPASS GRAFTS; COMPLETE BILATERAL STUDY
- 93930 DUPLEX SCAN OF UPPER EXTREMITY ARTERIES OR ARTERIAL BYPASS GRAFTS; UNILATERAL OR LIMITED STUDY
- 93931 DUPLEX SCAN OF HEMODIALYSIS ACCESS (INCLUDING ARTERIAL INFLOW, BODY OF ACCESS AND VENOUS OUTFLOW)
- 93990

## 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  |
|--------------|--|
| E08.51       | Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene |
| E08.52       | Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene    |
| E08.59       | Diabetes mellitus due to underlying condition with other circulatory complications                 |
| E09.51       | Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene    |
| E09.52       | Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene       |
| E09.59       | Drug or chemical induced diabetes mellitus with other circulatory complications                    |
| E10.51       | Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene                      |
| E10.52       | Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene                         |
| E10.59       | Type 1 diabetes mellitus with other circulatory complications                                      |
| E11.51       | Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene                      |
| E11.52       | Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene                         |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| E11.59                  | Type 2 diabetes mellitus with other circulatory complications   |
| E13.51                  | Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene                                |
| E13.52                  | Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene                                   |
| E13.59                  | Other specified diabetes mellitus with other circulatory complications  |
| G97.51                  | Postprocedural hemorrhage of a nervous system organ or structure following a nervous system procedure                 |
| G97.52                  | Postprocedural hemorrhage of a nervous system organ or structure following other procedure                            |
| I25.83                  | Coronary atherosclerosis due to lipid rich plaque   |
| I67.0                   | Dissection of cerebral arteries, nonruptured  |
| I70.0                   | Atherosclerosis of aorta  |
| 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                                      |
| I70.291                 | Other atherosclerosis of native arteries of extremities, right leg  |
| I70.292                 | Other atherosclerosis of native arteries of extremities, left leg   |
| I70.293                 | Other atherosclerosis of native arteries of extremities, bilateral legs   |
| I70.298                 | Other atherosclerosis of native arteries of extremities, other extremity  |
| I70.411                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg       |
| I70.412                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg        |
| I70.413                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs  |
| I70.418                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity |
| I70.421                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg                       |
| I70.422                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg                        |
| I70.423                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs                  |
| I70.428                 | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity                 |
| 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             |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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                           |
| I70.491                 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg   |
| I70.492                 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg  |
| I70.493                 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs                                    |
| I70.498                 | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity                                   |
| I70.511                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg       |
| I70.512                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg        |
| I70.513                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs  |
| I70.518                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity |
| I70.521                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg                       |
| I70.522                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg                        |
| I70.523                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs                  |
| I70.528                 | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, 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         |
| 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                 |  |

| ICD-10<br>Codes | Description   |
|-----------------|---|
|                 | 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                        |
| 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             |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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   |
| I71.01                  | Dissection of thoracic aorta   |
| I71.02                  | Dissection of abdominal aorta  |
| I71.03                  | Dissection of thoracoabdominal aorta   |
| I71.1                   | Thoracic aortic aneurysm, ruptured   |
| I71.2                   | Thoracic aortic aneurysm, without rupture  |
| I71.3                   | Abdominal aortic aneurysm, ruptured  |
| I71.4                   | Abdominal aortic aneurysm, without rupture   |
| I71.5                   | Thoracoabdominal aortic aneurysm, ruptured   |
| I71.6                   | Thoracoabdominal aortic aneurysm, without rupture  |
| I72.1                   | Aneurysm of artery of upper extremity  |
| I72.3                   | Aneurysm of iliac artery   |
| I72.4                   | Aneurysm of artery of lower extremity  |
| I72.8                   | Aneurysm of other specified arteries   |
| I73.00                  | Raynaud's syndrome without gangrene  |
| I73.01                  | Raynaud's syndrome with gangrene   |
| I73.1                   | Thromboangiitis obliterans [Buerger's disease]   |
| I73.89                  | Other specified peripheral vascular diseases   |
| I73.9                   | Peripheral vascular disease, unspecified   |
| I74.01                  | Saddle embolus of abdominal aorta  |
| I74.09                  | Other arterial embolism and thrombosis of abdominal aorta  |
| I74.11                  | Embolism and thrombosis of thoracic aorta  |
| I74.19                  | Embolism and thrombosis of other parts of aorta  |
| I74.2                   | Embolism and thrombosis of arteries of the upper extremities   |
| I74.3                   | Embolism and thrombosis of arteries of the lower extremities   |
| I74.5                   | Embolism and thrombosis of iliac artery  |
| I74.8                   | Embolism and thrombosis of other arteries  |
| I75.011                 | Atheroembolism of right upper extremity  |
| I75.012                 | Atheroembolism of left upper extremity   |
| I75.013                 | Atheroembolism of bilateral upper extremities  |
| I75.021                 | Atheroembolism of right lower extremity  |
| I75.022                 | Atheroembolism of left lower extremity   |
| I75.023                 | Atheroembolism of bilateral lower extremities  |
| I77.0                   | Arteriovenous fistula, acquired  |
| I77.1                   | Stricture of artery  |
| I77.2                   | Rupture of artery  |
| I77.3                   | Arterial fibromuscular dysplasia   |
| I77.5                   | Necrosis of artery   |
| I77.71                  | Dissection of carotid artery   |
| I77.72                  | Dissection of iliac artery   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| I77.73                  | Dissection of renal artery  |
| I77.74                  | Dissection of vertebral artery  |
| I77.76                  | Dissection of artery of upper extremity   |
| I77.77                  | Dissection of artery of lower extremity   |
| I77.79                  | Dissection of other specified artery  |
| I77.810                 | Thoracic aortic ectasia   |
| I77.811                 | Abdominal aortic ectasia  |
| I77.812                 | Thoracoabdominal aortic ectasia   |
| I77.89                  | Other specified disorders of arteries and arterioles  |
| I79.0                   | Aneurysm of aorta in diseases classified elsewhere  |
| I79.1                   | Aortitis in diseases classified elsewhere   |
| I79.8                   | Other disorders of arteries, arterioles and capillaries in diseases classified elsewhere  |
| 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   |
| 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                              |
| 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                                    |
| 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                   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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                          |
| L89.012                 | Pressure ulcer of right elbow, stage 2   |
| L89.013                 | Pressure ulcer of right elbow, stage 3   |
| L89.014                 | Pressure ulcer of right elbow, stage 4   |
| L89.022                 | Pressure ulcer of left elbow, stage 2  |
| L89.023                 | Pressure ulcer of left elbow, stage 3  |
| L89.024                 | Pressure ulcer of left elbow, stage 4  |
| L89.112                 | Pressure ulcer of right upper back, stage 2  |
| L89.113                 | Pressure ulcer of right upper back, stage 3  |
| L89.114                 | Pressure ulcer of right upper back, stage 4  |
| L89.122                 | Pressure ulcer of left upper back, stage 2   |
| L89.123                 | Pressure ulcer of left upper back, stage 3   |
| L89.124                 | Pressure ulcer of left upper back, stage 4   |
| L89.132                 | Pressure ulcer of right lower back, stage 2  |
| L89.133                 | Pressure ulcer of right lower back, stage 3  |
| L89.134                 | Pressure ulcer of right lower back, stage 4  |
| L89.142                 | Pressure ulcer of left lower back, stage 2   |
| L89.143                 | Pressure ulcer of left lower back, stage 3   |
| L89.144                 | Pressure ulcer of left lower back, stage 4   |
| L89.152                 | Pressure ulcer of sacral region, stage 2   |
| L89.153                 | Pressure ulcer of sacral region, stage 3   |
| L89.154                 | Pressure ulcer of sacral region, stage 4   |
| L89.212                 | Pressure ulcer of right hip, stage 2   |
| L89.213                 | Pressure ulcer of right hip, stage 3   |
| L89.214                 | Pressure ulcer of right hip, stage 4   |
| L89.222                 | Pressure ulcer of left hip, stage 2  |
| L89.223                 | Pressure ulcer of left hip, stage 3  |
| L89.224                 | Pressure ulcer of left hip, stage 4  |
| L89.312                 | Pressure ulcer of right buttock, stage 2   |
| L89.313                 | Pressure ulcer of right buttock, stage 3   |
| L89.314                 | Pressure ulcer of right buttock, stage 4   |
| L89.322                 | Pressure ulcer of left buttock, stage 2  |
| L89.323                 | Pressure ulcer of left buttock, stage 3  |
| L89.324                 | Pressure ulcer of left buttock, stage 4  |
| L89.42                  | Pressure ulcer of contiguous site of back, buttock and hip, stage 2  |
| L89.43                  | Pressure ulcer of contiguous site of back, buttock and hip, stage 3  |
| L89.44                  | Pressure ulcer of contiguous site of back, buttock and hip, stage 4  |
| L89.512                 | Pressure ulcer of right ankle, stage 2   |
| L89.513                 | Pressure ulcer of right ankle, stage 3   |
| L89.514                 | Pressure ulcer of right ankle, stage 4   |
| L89.522                 | Pressure ulcer of left ankle, stage 2  |
| L89.523                 | Pressure ulcer of left ankle, stage 3  |
| L89.524                 | Pressure ulcer of left ankle, stage 4  |
| L89.612                 | Pressure ulcer of right heel, stage 2  |
| L89.613                 | Pressure ulcer of right heel, stage 3  |
| L89.614                 | Pressure ulcer of right heel, stage 4  |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| L89.622                 | Pressure ulcer of left heel, stage 2   |
| L89.623                 | Pressure ulcer of left heel, stage 3   |
| L89.624                 | Pressure ulcer of left heel, stage 4   |
| L89.812                 | Pressure ulcer of head, stage 2  |
| L89.813                 | Pressure ulcer of head, stage 3  |
| L89.814                 | Pressure ulcer of head, stage 4  |
| L89.892                 | Pressure ulcer of other site, stage 2  |
| L89.893                 | Pressure ulcer of other site, stage 3  |
| L89.894                 | Pressure ulcer of other site, stage 4  |
| 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         |
| L97.118                 | Non-pressure chronic ulcer of right thigh with other specified severity                              |
| L97.119                 | Non-pressure chronic ulcer of right thigh with unspecified severity                                  |
| 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          |
| L97.128                 | Non-pressure chronic ulcer of left thigh with other specified severity                               |
| L97.129                 | Non-pressure chronic ulcer of left thigh with unspecified severity                                   |
| L97.205                 | Non-pressure chronic ulcer of unspecified calf with muscle involvement without evidence of necrosis  |
| L97.206                 | Non-pressure chronic ulcer of unspecified calf with bone involvement without evidence of necrosis    |
| L97.208                 | Non-pressure chronic ulcer of unspecified calf with other specified severity                         |
| L97.209                 | Non-pressure chronic ulcer of unspecified calf with unspecified severity                             |
| 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          |
| L97.218                 | Non-pressure chronic ulcer of right calf with other specified severity                               |
| L97.219                 | Non-pressure chronic ulcer of right calf with unspecified severity                                   |
| 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  |
| L97.305                 | Non-pressure chronic ulcer of unspecified ankle with muscle involvement without evidence of necrosis |
| L97.306                 | Non-pressure chronic ulcer of unspecified ankle with bone involvement without evidence of necrosis   |
| L97.308                 | Non-pressure chronic ulcer of unspecified ankle with other specified severity                        |
| L97.309                 | Non-pressure chronic ulcer of unspecified ankle with unspecified severity                            |
| 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         |
| L97.318                 | Non-pressure chronic ulcer of right ankle with other specified severity                              |
| L97.319                 | Non-pressure chronic ulcer of right ankle with unspecified severity                                  |
| 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                                      |
| L97.323                 | Non-pressure chronic ulcer of left ankle with necrosis of muscle                                     |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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                    |
| L97.328                 | Non-pressure chronic ulcer of left ankle with other specified severity   |
| L97.329                 | Non-pressure chronic ulcer of left ankle with unspecified severity   |
| 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                                     |
| L97.416                 | Non-pressure chronic ulcer of right heel and midfoot with bone involvement without evidence of necrosis        |
| L97.418                 | Non-pressure chronic ulcer of right heel and midfoot with other specified severity                             |
| L97.419                 | Non-pressure chronic ulcer of right heel and midfoot with unspecified severity                                 |
| 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         |
| L97.428                 | Non-pressure chronic ulcer of left heel and midfoot with other specified severity                              |
| L97.429                 | Non-pressure chronic ulcer of left heel and midfoot with unspecified severity                                  |
| 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                                   |
| L97.521                 | 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                                    |
| L97.811                 | 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                              |
| L97.816                 | Non-pressure chronic ulcer of other part of right lower leg with bone involvement without evidence of necrosis |
| L97.818                 | Non-pressure chronic ulcer of other part of right lower leg with other specified severity                      |
| L97.819                 | Non-pressure chronic ulcer of other part of right lower leg with unspecified severity                          |
| 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                               |
| L98.411                 | Non-pressure chronic ulcer of buttock limited to breakdown of skin   |
| L98.412                 | Non-pressure chronic ulcer of buttock with fat layer exposed   |
| L98.413                 | Non-pressure chronic ulcer of buttock with necrosis of muscle  |
| L98.414                 | Non-pressure chronic ulcer of buttock with necrosis of bone  |
| L98.415                 | Non-pressure chronic ulcer of buttock with muscle involvement without evidence of necrosis                     |
| L98.416                 | Non-pressure chronic ulcer of buttock with bone involvement without evidence of necrosis                       |
| L98.418                 | Non-pressure chronic ulcer of buttock with other specified severity  |
| L98.419                 | Non-pressure chronic ulcer of buttock with unspecified severity  |
| L98.421                 | Non-pressure chronic ulcer of back limited to breakdown of skin  |
| L98.422                 | Non-pressure chronic ulcer of back with fat layer exposed  |
| L98.423                 | Non-pressure chronic ulcer of back with necrosis of muscle   |
| L98.424                 | Non-pressure chronic ulcer of back with necrosis of bone   |
| L98.425                 | Non-pressure chronic ulcer of back with muscle involvement without evidence of necrosis                        |
| L98.426                 | Non-pressure chronic ulcer of back with bone involvement without evidence of necrosis                          |
| L98.428                 | Non-pressure chronic ulcer of back with other specified severity   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| L98.429                 | Non-pressure chronic ulcer of back with unspecified severity  |
| M31.4                   | Aortic arch syndrome [Takayasu]   |
| M31.5                   | Giant cell arteritis with polymyalgia rheumatica  |
| M31.6                   | Other giant cell arteritis  |
| M31.8                   | Other specified necrotizing vasculopathies  |
| M79.609                 | Pain in unspecified limb  |
| 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                                |
| M96.820                 | Accidental puncture and laceration of a musculoskeletal structure during a musculoskeletal system procedure                       |
| M96.821                 | Accidental puncture and laceration of a musculoskeletal structure during 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   |
| N99.61                  | Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure complicating a genitourinary system procedure |
| N99.62                  | Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure complicating other procedure                  |
| N99.71                  | Accidental puncture and laceration of a genitourinary system organ or structure during a genitourinary system procedure           |
| N99.72                  | Accidental puncture and laceration of a genitourinary system organ or structure during other procedure                            |
| N99.820                 | Postprocedural hemorrhage of a genitourinary system organ or structure following a genitourinary system procedure                 |
| N99.821                 | Postprocedural hemorrhage of a genitourinary system organ or structure following other procedure                                  |
| Q27.31                  | Arteriovenous malformation of vessel of upper limb  |
| Q27.32                  | Arteriovenous malformation of vessel of lower limb  |
| R09.89                  | Other specified symptoms and signs involving the circulatory and respiratory systems  |
| 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  |
| R20.0                   | Anesthesia of skin  |
| R20.1                   | Hypoesthesia of skin  |
| R20.2                   | Paresthesia of skin   |
| R20.3                   | Hyperesthesia   |
| S45.011A                | Laceration of axillary artery, right side, initial encounter  |
| S45.011D                | Laceration of axillary artery, right side, subsequent encounter   |
| S45.011S                | Laceration of axillary artery, right side, sequela  |
| S45.012A                | Laceration of axillary artery, left side, initial encounter   |
| S45.012D                | Laceration of axillary artery, left side, subsequent encounter  |
| S45.012S                | Laceration of axillary artery, left side, sequela   |
| 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  |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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  |
| S45.111A                | Laceration of brachial artery, right side, initial encounter   |
| S45.111D                | Laceration of brachial artery, right side, subsequent encounter  |
| S45.111S                | Laceration of brachial artery, right side, sequela   |
| S45.112A                | Laceration of brachial artery, left side, initial encounter  |
| S45.112D                | Laceration of brachial artery, left side, subsequent encounter   |
| S45.112S                | Laceration of brachial artery, left side, sequela  |
| 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  |
| S45.211A                | Laceration of axillary or brachial vein, right side, initial encounter   |
| S45.211D                | Laceration of axillary or brachial vein, right side, subsequent encounter  |
| S45.211S                | Laceration of axillary or brachial vein, right side, sequela   |
| S45.212A                | Laceration of axillary or brachial vein, left side, initial encounter  |
| S45.212D                | Laceration of axillary or brachial vein, left side, subsequent encounter   |
| S45.212S                | Laceration of axillary or brachial vein, left side, sequela  |
| S45.219D                | Laceration of axillary or brachial vein, unspecified side, subsequent encounter  |
| S45.219S                | Laceration of axillary or brachial vein, unspecified side, sequela   |
| S45.291A                | Other specified injury of axillary or brachial vein, right side, initial encounter                                       |
| 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  |
| S45.311A                | Laceration of superficial vein at shoulder and upper arm level, right arm, initial encounter                             |
| S45.311D                | Laceration of superficial vein at shoulder and upper arm level, right arm, subsequent encounter                          |
| S45.311S                | Laceration of superficial vein at shoulder and upper arm level, right arm, sequela                                       |
| S45.312A                | Laceration of superficial vein at shoulder and upper arm level, left arm, initial encounter                              |
| S45.312D                | Laceration of superficial vein at shoulder and upper arm level, left arm, subsequent encounter                           |
| S45.312S                | Laceration of superficial vein at shoulder and upper arm level, left arm, sequela  |
| S45.391A                | Other specified injury of superficial vein at shoulder and upper arm level, right arm, initial encounter                 |
| S45.391D                | Other specified injury of superficial vein at shoulder and upper arm level, right arm, subsequent encounter              |
| S45.391S                | Other specified injury of superficial vein at shoulder and upper arm level, right arm, sequela                           |
| S45.392A                | Other specified injury of superficial vein at shoulder and upper arm level, left arm, initial encounter                  |
| S45.392D                | Other specified injury of superficial vein at shoulder and upper arm level, left arm, subsequent encounter               |
| S45.392S                | Other specified injury of superficial vein at shoulder and upper arm level, left arm, sequela                            |
| S45.811A                | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, initial encounter                |
| S45.811D                | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, subsequent encounter             |
| S45.811S                | Laceration of other specified blood vessels at shoulder and upper arm level, right arm, sequela                          |
| S45.812A                | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, initial encounter                 |
| S45.812D                | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, subsequent encounter              |
| S45.812S                | Laceration of other specified blood vessels at shoulder and upper arm level, left arm, sequela                           |
| S45.891A                | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, initial encounter    |
| S45.891D                | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, subsequent encounter |
| S45.891S                | Other specified injury of other specified blood vessels at shoulder and upper arm level, right arm, sequela              |
| S45.892A                |  |

| ICD-10<br>Codes | Description   |
|-----------------|---|
|                 | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, initial encounter    |
| S45.892D        | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, subsequent encounter |
| S45.892S        | Other specified injury of other specified blood vessels at shoulder and upper arm level, left arm, sequela              |
| S55.011A        | Laceration of ulnar artery at forearm level, right arm, initial encounter   |
| S55.011D        | Laceration of ulnar artery at forearm level, right arm, subsequent encounter  |
| S55.011S        | Laceration of ulnar artery at forearm level, right arm, sequela   |
| S55.012A        | Laceration of ulnar artery at forearm level, left arm, initial encounter  |
| S55.012D        | Laceration of ulnar artery at forearm level, left arm, subsequent encounter   |
| S55.012S        | Laceration of ulnar artery at forearm level, left arm, sequela  |
| S55.091A        | Other specified injury of ulnar artery at forearm level, right arm, initial encounter                                   |
| S55.091D        | Other specified injury of ulnar artery at forearm level, right arm, subsequent encounter                                |
| S55.091S        | Other specified injury of ulnar artery at forearm level, right arm, sequela   |
| S55.092A        | Other specified injury of ulnar artery at forearm level, left arm, initial encounter                                    |
| S55.092D        | Other specified injury of ulnar artery at forearm level, left arm, subsequent encounter                                 |
| S55.092S        | Other specified injury of ulnar artery at forearm level, left arm, sequela  |
| S55.111A        | Laceration of radial artery at forearm level, right arm, initial encounter  |
| S55.111D        | Laceration of radial artery at forearm level, right arm, subsequent encounter   |
| S55.111S        | Laceration of radial artery at forearm level, right arm, sequela  |
| S55.112A        | Laceration of radial artery at forearm level, left arm, initial encounter   |
| S55.112D        | Laceration of radial artery at forearm level, left arm, subsequent encounter  |
| S55.112S        | Laceration of radial artery at forearm level, left arm, sequela   |
| S55.191A        | Other specified injury of radial artery at forearm level, right arm, initial encounter                                  |
| S55.191D        | Other specified injury of radial artery at forearm level, right arm, subsequent encounter                               |
| S55.191S        | Other specified injury of radial artery at forearm level, right arm, sequela  |
| S55.192A        | Other specified injury of radial artery at forearm level, left arm, initial encounter                                   |
| S55.192D        | Other specified injury of radial artery at forearm level, left arm, subsequent encounter                                |
| S55.192S        | Other specified injury of radial artery at forearm level, left arm, sequela   |
| S55.211A        | Laceration of vein at forearm level, right arm, initial encounter   |
| S55.211D        | Laceration of vein at forearm level, right arm, subsequent encounter  |
| S55.211S        | Laceration of vein at forearm level, right arm, sequela   |
| S55.212A        | Laceration of vein at forearm level, left arm, initial encounter  |
| S55.212D        | Laceration of vein at forearm level, left arm, subsequent encounter   |
| S55.212S        | Laceration of vein at forearm level, left arm, sequela  |
| S55.291A        | Other specified injury of vein at forearm level, right arm, initial encounter   |
| S55.291D        | Other specified injury of vein at forearm level, right arm, subsequent encounter  |
| S55.291S        | Other specified injury of vein at forearm level, right arm, sequela   |
| S55.292A        | Other specified injury of vein at forearm level, left arm, initial encounter  |
| S55.292D        | Other specified injury of vein at forearm level, left arm, subsequent encounter   |
| S55.292S        | Other specified injury of vein at forearm level, left arm, sequela  |
| S55.811A        | Laceration of other blood vessels at forearm level, right arm, initial encounter  |
| S55.811D        | Laceration of other blood vessels at forearm level, right arm, subsequent encounter                                     |
| S55.811S        | Laceration of other blood vessels at forearm level, right arm, sequela  |
| S55.812A        | Laceration of other blood vessels at forearm level, left arm, initial encounter   |
| S55.812D        | Laceration of other blood vessels at forearm level, left arm, subsequent encounter                                      |
| S55.812S        | Laceration of other blood vessels at forearm level, left arm, sequela   |
| S55.891A        | Other specified injury of other blood vessels at forearm level, right arm, initial encounter                            |
| S55.891D        | Other specified injury of other blood vessels at forearm level, right arm, subsequent encounter                         |
| S55.891S        | Other specified injury of other blood vessels at forearm level, right arm, sequela                                      |
| S55.892A        | Other specified injury of other blood vessels at forearm level, left arm, initial encounter                             |
| S55.892D        | Other specified injury of other blood vessels at forearm level, left arm, subsequent encounter                          |
| S55.892S        | Other specified injury of other blood vessels at forearm level, left arm, sequela                                       |
| S65.011A        | Laceration of ulnar artery at wrist and hand level of right arm, initial encounter                                      |
| S65.011D        | Laceration of ulnar artery at wrist and hand level of right arm, subsequent encounter                                   |
| S65.011S        | Laceration of ulnar artery at wrist and hand level of right arm, sequela  |
| S65.012A        | Laceration of ulnar artery at wrist and hand level of left arm, initial encounter                                       |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| S65.012D                | Laceration of ulnar artery at wrist and hand level of left arm, subsequent encounter               |
| S65.012S                | Laceration of ulnar artery at wrist and hand level of left arm, sequela                            |
| S65.091A                | Other specified injury of ulnar artery at wrist and hand level of right arm, initial encounter     |
| S65.091D                | Other specified injury of ulnar artery at wrist and hand level of right arm, subsequent encounter  |
| S65.091S                | Other specified injury of ulnar artery at wrist and hand level of right arm, sequela               |
| S65.092A                | Other specified injury of ulnar artery at wrist and hand level of left arm, initial encounter      |
| S65.092D                | Other specified injury of ulnar artery at wrist and hand level of left arm, subsequent encounter   |
| S65.092S                | Other specified injury of ulnar artery at wrist and hand level of left arm, sequela                |
| S65.111A                | Laceration of radial artery at wrist and hand level of right arm, initial encounter                |
| S65.111D                | Laceration of radial artery at wrist and hand level of right arm, subsequent encounter             |
| S65.111S                | Laceration of radial artery at wrist and hand level of right arm, sequela                          |
| S65.112A                | Laceration of radial artery at wrist and hand level of left arm, initial encounter                 |
| S65.112D                | Laceration of radial artery at wrist and hand level of left arm, subsequent encounter              |
| S65.112S                | Laceration of radial artery at wrist and hand level of left arm, sequela                           |
| S65.191A                | Other specified injury of radial artery at wrist and hand level of right arm, initial encounter    |
| S65.191D                | Other specified injury of radial artery at wrist and hand level of right arm, subsequent encounter |
| S65.191S                | Other specified injury of radial artery at wrist and hand level of right arm, sequela              |
| S65.192A                | Other specified injury of radial artery at wrist and hand level of left arm, initial encounter     |
| S65.192D                | Other specified injury of radial artery at wrist and hand level of left arm, subsequent encounter  |
| S65.192S                | Other specified injury of radial artery at wrist and hand level of left arm, sequela               |
| S65.211A                | Laceration of superficial palmar arch of right hand, initial encounter                             |
| S65.211D                | Laceration of superficial palmar arch of right hand, subsequent encounter                          |
| S65.211S                | Laceration of superficial palmar arch of right hand, sequela                                       |
| S65.212A                | Laceration of superficial palmar arch of left hand, initial encounter                              |
| S65.212D                | Laceration of superficial palmar arch of left hand, subsequent encounter                           |
| S65.212S                | Laceration of superficial palmar arch of left hand, sequela  |
| S65.291A                | Other specified injury of superficial palmar arch of right hand, initial encounter                 |
| S65.291D                | Other specified injury of superficial palmar arch of right hand, subsequent encounter              |
| S65.291S                | Other specified injury of superficial palmar arch of right hand, sequela                           |
| S65.292A                | Other specified injury of superficial palmar arch of left hand, initial encounter                  |
| S65.292D                | Other specified injury of superficial palmar arch of left hand, subsequent encounter               |
| S65.292S                | Other specified injury of superficial palmar arch of left hand, sequela                            |
| S65.311A                | Laceration of deep palmar arch of right hand, initial encounter                                    |
| S65.311D                | Laceration of deep palmar arch of right hand, subsequent encounter                                 |
| S65.311S                | Laceration of deep palmar arch of right hand, sequela  |
| S65.312A                | Laceration of deep palmar arch of left hand, initial encounter                                     |
| S65.312D                | Laceration of deep palmar arch of left hand, subsequent encounter                                  |
| S65.312S                | Laceration of deep palmar arch of left hand, sequela   |
| S65.391A                | Other specified injury of deep palmar arch of right hand, initial encounter                        |
| S65.391D                | Other specified injury of deep palmar arch of right hand, subsequent encounter                     |
| S65.391S                | Other specified injury of deep palmar arch of right hand, sequela                                  |
| S65.392A                | Other specified injury of deep palmar arch of left hand, initial encounter                         |
| S65.392D                | Other specified injury of deep palmar arch of left hand, subsequent encounter                      |
| S65.392S                | Other specified injury of deep palmar arch of left hand, sequela                                   |
| S65.411A                | Laceration of blood vessel of right thumb, initial encounter                                       |
| S65.411D                | Laceration of blood vessel of right thumb, subsequent encounter                                    |
| S65.411S                | Laceration of blood vessel of right thumb, sequela   |
| S65.412A                | Laceration of blood vessel of left thumb, initial encounter  |
| S65.412D                | Laceration of blood vessel of left thumb, subsequent encounter                                     |
| S65.412S                | Laceration of blood vessel of left thumb, sequela  |
| S65.491A                | Other specified injury of blood vessel of right thumb, initial encounter                           |
| S65.491D                | Other specified injury of blood vessel of right thumb, subsequent encounter                        |
| S65.491S                | Other specified injury of blood vessel of right thumb, sequela                                     |
| S65.492A                | Other specified injury of blood vessel of left thumb, initial encounter                            |
| S65.492D                | Other specified injury of blood vessel of left thumb, subsequent encounter                         |
| S65.492S                | Other specified injury of blood vessel of left thumb, sequela                                      |
| S65.510A                | Laceration of blood vessel of right index finger, initial encounter                                |
| S65.510D                | Laceration of blood vessel of right index finger, subsequent encounter                             |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| S65.510S                | Laceration of blood vessel of right index finger, sequela                                    |
| S65.511A                | Laceration of blood vessel of left index finger, initial encounter                           |
| S65.511D                | Laceration of blood vessel of left index finger, subsequent encounter                        |
| S65.511S                | Laceration of blood vessel of left index finger, sequela                                     |
| S65.512A                | Laceration of blood vessel of right middle finger, initial encounter                         |
| S65.512D                | Laceration of blood vessel of right middle finger, subsequent encounter                      |
| S65.512S                | Laceration of blood vessel of right middle finger, sequela                                   |
| S65.513A                | Laceration of blood vessel of left middle finger, initial encounter                          |
| S65.513D                | Laceration of blood vessel of left middle finger, subsequent encounter                       |
| S65.513S                | Laceration of blood vessel of left middle finger, sequela                                    |
| S65.514A                | Laceration of blood vessel of right ring finger, initial encounter                           |
| S65.514D                | Laceration of blood vessel of right ring finger, subsequent encounter                        |
| S65.514S                | Laceration of blood vessel of right ring finger, sequela                                     |
| S65.515A                | Laceration of blood vessel of left ring finger, initial encounter                            |
| S65.515D                | Laceration of blood vessel of left ring finger, subsequent encounter                         |
| S65.515S                | Laceration of blood vessel of left ring finger, sequela                                      |
| S65.516A                | Laceration of blood vessel of right little finger, initial encounter                         |
| S65.516D                | Laceration of blood vessel of right little finger, subsequent encounter                      |
| S65.516S                | Laceration of blood vessel of right little finger, sequela                                   |
| S65.517A                | Laceration of blood vessel of left little finger, initial encounter                          |
| S65.517D                | Laceration of blood vessel of left little finger, subsequent encounter                       |
| S65.517S                | Laceration of blood vessel of left little finger, sequela                                    |
| S65.518A                | Laceration of blood vessel of other finger, initial encounter                                |
| S65.518D                | Laceration of blood vessel of other finger, subsequent encounter                             |
| S65.518S                | Laceration of blood vessel of other finger, sequela  |
| S65.590A                | Other specified injury of blood vessel of right index finger, initial encounter              |
| S65.590D                | Other specified injury of blood vessel of right index finger, subsequent encounter           |
| S65.590S                | Other specified injury of blood vessel of right index finger, sequela                        |
| S65.591A                | Other specified injury of blood vessel of left index finger, initial encounter               |
| S65.591D                | Other specified injury of blood vessel of left index finger, subsequent encounter            |
| S65.591S                | Other specified injury of blood vessel of left index finger, sequela                         |
| S65.592A                | Other specified injury of blood vessel of right middle finger, initial encounter             |
| S65.592D                | Other specified injury of blood vessel of right middle finger, subsequent encounter          |
| S65.592S                | Other specified injury of blood vessel of right middle finger, sequela                       |
| S65.593A                | Other specified injury of blood vessel of left middle finger, initial encounter              |
| S65.593D                | Other specified injury of blood vessel of left middle finger, subsequent encounter           |
| S65.593S                | Other specified injury of blood vessel of left middle finger, sequela                        |
| S65.594A                | Other specified injury of blood vessel of right ring finger, initial encounter               |
| S65.594D                | Other specified injury of blood vessel of right ring finger, subsequent encounter            |
| S65.594S                | Other specified injury of blood vessel of right ring finger, sequela                         |
| S65.595A                | Other specified injury of blood vessel of left ring finger, initial encounter                |
| S65.595D                | Other specified injury of blood vessel of left ring finger, subsequent encounter             |
| S65.595S                | Other specified injury of blood vessel of left ring finger, sequela                          |
| S65.596A                | Other specified injury of blood vessel of right little finger, initial encounter             |
| S65.596D                | Other specified injury of blood vessel of right little finger, subsequent encounter          |
| S65.596S                | Other specified injury of blood vessel of right little finger, sequela                       |
| S65.597A                | Other specified injury of blood vessel of left little finger, initial encounter              |
| S65.597D                | Other specified injury of blood vessel of left little finger, subsequent encounter           |
| S65.597S                | Other specified injury of blood vessel of left little finger, sequela                        |
| S65.598A                | Other specified injury of blood vessel of other finger, initial encounter                    |
| S65.598D                | Other specified injury of blood vessel of other finger, subsequent encounter                 |
| S65.598S                | Other specified injury of blood vessel of other finger, sequela                              |
| S65.811A                | Laceration of other blood vessels at wrist and hand level of right arm, initial encounter    |
| S65.811D                | Laceration of other blood vessels at wrist and hand level of right arm, subsequent encounter |
| S65.811S                | Laceration of other blood vessels at wrist and hand level of right arm, sequela              |
| S65.812A                | Laceration of other blood vessels at wrist and hand level of left arm, initial encounter     |
| S65.812D                | Laceration of other blood vessels at wrist and hand level of left arm, subsequent encounter  |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| S65.812S                | Laceration of other blood vessels at wrist and hand level of left arm, sequela                           |
| S65.891A                | Other specified injury of other blood vessels at wrist and hand level of right arm, initial encounter    |
| S65.891D                | Other specified injury of other blood vessels at wrist and hand level of right arm, subsequent encounter |
| S65.891S                | Other specified injury of other blood vessels at wrist and hand level of right arm, sequela              |
| S65.892A                | Other specified injury of other blood vessels at wrist and hand level of left arm, initial encounter     |
| S65.892D                | Other specified injury of other blood vessels at wrist and hand level of left arm, subsequent encounter  |
| S65.892S                | Other specified injury of other blood vessels at wrist and hand level of left arm, sequela               |
| S75.011A                | Minor laceration of femoral artery, right leg, initial encounter   |
| S75.011D                | Minor laceration of femoral artery, right leg, subsequent encounter                                      |
| S75.011S                | Minor laceration of femoral artery, right leg, sequela   |
| S75.012A                | Minor laceration of femoral artery, left leg, initial encounter  |
| S75.012D                | Minor laceration of femoral artery, left leg, subsequent encounter                                       |
| S75.012S                | Minor laceration of femoral artery, left leg, 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  |
| S75.111A                | Minor laceration of femoral vein at hip and thigh level, right leg, initial encounter                    |
| S75.111D                | Minor laceration of femoral vein at hip and thigh level, right leg, subsequent encounter                 |
| S75.111S                | Minor laceration of femoral vein at hip and thigh level, right leg, sequela                              |
| S75.112A                | Minor laceration of femoral vein at hip and thigh level, left leg, initial encounter                     |
| S75.112D                | Minor laceration of femoral vein at hip and thigh level, left leg, subsequent encounter                  |
| S75.112S                | Minor laceration of femoral vein at hip and thigh level, 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                         |
| S75.211A                | Minor laceration of greater saphenous vein at hip and thigh level, right leg, initial encounter          |
| S75.211D                | Minor laceration of greater saphenous vein at hip and thigh level, right leg, subsequent encounter       |
| S75.211S                | Minor laceration of greater saphenous vein at hip and thigh level, right leg, sequela                    |
| S75.212A                | Minor laceration of greater saphenous vein at hip and thigh level, left leg, initial encounter           |
| S75.212D                | Minor laceration of greater saphenous vein at hip and thigh level, left leg, subsequent encounter        |
| S75.212S                | Minor laceration of greater saphenous 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    |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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    |
| 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  |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| 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                           |
| 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                  |
| S95.011A                | Laceration of dorsal artery of right foot, initial encounter   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| S95.011D                | Laceration of dorsal artery of right foot, subsequent encounter  |
| S95.011S                | Laceration of dorsal artery of right foot, sequela   |
| S95.012A                | Laceration of dorsal artery of left foot, initial encounter  |
| S95.012D                | Laceration of dorsal artery of left foot, subsequent encounter   |
| S95.012S                | Laceration of dorsal artery of left foot, sequela  |
| S95.091A                | Other specified injury of dorsal artery of right foot, initial encounter                               |
| S95.091D                | Other specified injury of dorsal artery of right foot, subsequent encounter                            |
| S95.091S                | Other specified injury of dorsal artery of right foot, sequela   |
| S95.092A                | Other specified injury of dorsal artery of left foot, initial encounter                                |
| S95.092D                | Other specified injury of dorsal artery of left foot, subsequent encounter                             |
| S95.092S                | Other specified injury of dorsal artery of left foot, sequela  |
| S95.111A                | Laceration of plantar artery of right foot, initial encounter  |
| S95.111D                | Laceration of plantar artery of right foot, subsequent encounter                                       |
| S95.111S                | Laceration of plantar artery of right foot, sequela  |
| S95.112A                | Laceration of plantar artery of left foot, initial encounter   |
| S95.112D                | Laceration of plantar artery of left foot, subsequent encounter  |
| S95.112S                | Laceration of plantar artery of left foot, sequela   |
| S95.191A                | Other specified injury of plantar artery of right foot, initial encounter                              |
| S95.191D                | Other specified injury of plantar artery of right foot, subsequent encounter                           |
| S95.191S                | Other specified injury of plantar artery of right foot, sequela  |
| S95.192A                | Other specified injury of plantar artery of left foot, initial encounter                               |
| S95.192D                | Other specified injury of plantar artery of left foot, subsequent encounter                            |
| S95.192S                | Other specified injury of plantar artery of left foot, sequela   |
| S95.211A                | Laceration of dorsal vein of right foot, initial encounter   |
| S95.211D                | Laceration of dorsal vein of right foot, subsequent encounter  |
| S95.211S                | Laceration of dorsal vein of right foot, sequela   |
| S95.212A                | Laceration of dorsal vein of left foot, initial encounter  |
| S95.212D                | Laceration of dorsal vein of left foot, subsequent encounter   |
| S95.212S                | Laceration of dorsal vein of left foot, sequela  |
| S95.291A                | Other specified injury of dorsal vein of right foot, initial encounter                                 |
| S95.291D                | Other specified injury of dorsal vein of right foot, subsequent encounter                              |
| S95.291S                | Other specified injury of dorsal vein of right foot, sequela   |
| S95.292A                | Other specified injury of dorsal vein of left foot, initial encounter                                  |
| S95.292D                | Other specified injury of dorsal vein of left foot, subsequent encounter                               |
| S95.292S                | Other specified injury of dorsal vein of left foot, sequela  |
| S95.811A                | Laceration of other blood vessels at ankle and foot level, right leg, initial encounter                |
| S95.811D                | Laceration of other blood vessels at ankle and foot level, right leg, subsequent encounter             |
| S95.811S                | Laceration of other blood vessels at ankle and foot level, right leg, sequela                          |
| S95.812A                | Laceration of other blood vessels at ankle and foot level, left leg, initial encounter                 |
| S95.812D                | Laceration of other blood vessels at ankle and foot level, left leg, subsequent encounter              |
| S95.812S                | Laceration of other blood vessels at ankle and foot level, left leg, sequela                           |
| S95.891A                | Other specified injury of other blood vessels at ankle and foot level, right leg, initial encounter    |
| S95.891D                | Other specified injury of other blood vessels at ankle and foot level, right leg, subsequent encounter |
| S95.891S                | Other specified injury of other blood vessels at ankle and foot level, right leg, sequela              |
| S95.892A                | Other specified injury of other blood vessels at ankle and foot level, left leg, initial encounter     |
| S95.892D                | Other specified injury of other blood vessels at ankle and foot level, left leg, subsequent encounter  |
| S95.892S                | Other specified injury of other blood vessels at ankle and foot level, left leg, sequela               |
| T80.1XXA                | Vascular complications following infusion, transfusion and therapeutic injection, initial encounter    |
| T80.1XXD                | Vascular complications following infusion, transfusion and therapeutic injection, subsequent encounter |
| T80.1XXS                | Vascular complications following infusion, transfusion and therapeutic injection, sequela              |
| T81.31XA                | Disruption of external operation (surgical) wound, not elsewhere classified, initial encounter         |
| T81.31XD                | Disruption of external operation (surgical) wound, not elsewhere classified, subsequent encounter      |
| T81.31XS                | Disruption of external operation (surgical) wound, not elsewhere classified, sequela                   |
| T81.32XA                | Disruption of internal operation (surgical) wound, not elsewhere classified, initial encounter         |
| T81.32XD                | Disruption of internal operation (surgical) wound, not elsewhere classified, subsequent encounter      |
| T81.32XS                | Disruption of internal operation (surgical) wound, not elsewhere classified, sequela                   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| T81.718A                | Complication of other artery following a procedure, not elsewhere classified, initial encounter    |
| T81.718D                | Complication of other artery following a procedure, not elsewhere classified, subsequent encounter |
| T81.718S                | Complication of other artery following a procedure, not elsewhere classified, sequela              |
| T81.72XA                | Complication of vein following a procedure, not elsewhere classified, initial encounter            |
| T81.72XD                | Complication of vein following a procedure, not elsewhere classified, subsequent encounter         |
| T81.72XS                | Complication of vein following a procedure, not elsewhere classified, sequela                      |
| T81.89XA                | Other complications of procedures, not elsewhere classified, initial encounter                     |
| T81.89XD                | Other complications of procedures, not elsewhere classified, subsequent encounter                  |
| T81.89XS                | Other complications of procedures, not elsewhere classified, 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                                 |
| 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                            |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| 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                  |
| 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                                      |
| T82.524A                | Displacement of infusion catheter, initial encounter  |
| T82.524D                | Displacement of infusion catheter, subsequent encounter   |
| T82.524S                | Displacement of infusion catheter, sequela  |
| T82.525A                | Displacement of umbrella device, initial encounter  |
| T82.525D                | Displacement of umbrella device, subsequent encounter   |
| T82.525S                | Displacement of umbrella 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   |
| T82.534A                | Leakage of infusion catheter, initial encounter   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| T82.534D                | Leakage of infusion catheter, subsequent encounter   |
| T82.534S                | Leakage of infusion catheter, sequela  |
| T82.535A                | Leakage of umbrella device, initial encounter  |
| T82.535D                | Leakage of umbrella device, subsequent encounter   |
| T82.535S                | Leakage of umbrella 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  |
| T82.594A                | Other mechanical complication of infusion catheter, initial encounter  |
| T82.594D                | Other mechanical complication of infusion catheter, subsequent encounter   |
| T82.594S                | Other mechanical complication of infusion catheter, sequela  |
| T82.595A                | Other mechanical complication of umbrella device, initial encounter  |
| T82.595D                | Other mechanical complication of umbrella device, subsequent encounter   |
| T82.595S                | Other mechanical complication of umbrella 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                                      |
| 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  |
| T82.856A                | Stenosis of peripheral vascular stent, initial encounter   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| T82.856D                | Stenosis of peripheral vascular stent, subsequent encounter   |
| T82.856S                | Stenosis of peripheral vascular stent, 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                            |
| 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                            |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| 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              |
| T85.810A                | Embolism due to nervous system prosthetic devices, implants and grafts, initial encounter                         |
| T85.810D                | Embolism due to nervous system prosthetic devices, implants and grafts, subsequent encounter                      |
| T85.810S                | Embolism due to nervous system prosthetic devices, implants and grafts, sequela                                   |
| T85.818A                | Embolism due to other internal prosthetic devices, implants and grafts, initial encounter                         |
| T85.818D                | Embolism due to other internal prosthetic devices, implants and grafts, subsequent encounter                      |
| T85.818S                | Embolism due to other internal prosthetic devices, implants and grafts, sequela                                   |
| T85.860A                | 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                                 |
| T86.01                  | Bone marrow transplant rejection  |
| T86.02                  | Bone marrow transplant failure  |
| T86.03                  | Bone marrow transplant infection  |
| T86.09                  | Other complications of bone marrow transplant   |
| T86.11                  | Kidney transplant rejection   |
| T86.12                  | Kidney transplant failure   |
| T86.13                  | Kidney transplant infection   |
| T86.19                  | Other complication of kidney transplant   |
| T86.21                  | Heart transplant rejection  |
| T86.22                  | Heart transplant failure  |
| T86.23                  | Heart transplant infection  |
| T86.290                 | Cardiac allograft vasculopathy  |
| T86.298                 | Other complications of heart transplant   |
| T86.31                  | Heart-lung transplant rejection   |
| T86.32                  | Heart-lung transplant failure   |
| T86.33                  | Heart-lung transplant infection   |
| T86.39                  | Other complications of heart-lung transplant  |
| T86.41                  | Liver transplant rejection  |
| T86.42                  | Liver transplant failure  |
| T86.43                  | Liver transplant infection  |
| T86.49                  | Other complications of liver transplant   |
| T86.810                 | Lung transplant rejection   |
| T86.811                 | Lung transplant failure   |
| T86.812                 | Lung transplant infection   |
| T86.818                 | Other complications of lung transplant  |
| T86.830                 | Bone graft rejection  |
| T86.831                 | Bone graft failure  |
| T86.832                 | Bone graft infection  |
| T86.838                 | Other complications of bone graft   |
| T86.848                 | Other complications of corneal transplant   |
| T86.850                 | Intestine transplant rejection  |
| T86.851                 | Intestine transplant failure  |
| T86.852                 | Intestine transplant infection  |
| T86.858                 | Other complications of intestine transplant   |

| <b>ICD-10<br/>Codes</b> | <b>Description</b>   |
|-------------------------|--|
| T86.890                 | Other transplanted tissue rejection  |
| T86.891                 | Other transplanted tissue failure  |
| T86.892                 | Other transplanted tissue infection  |
| T86.898                 | Other complications of other transplanted tissue   |
| 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    |
| Z09                     | Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm |
| Z48.03                  | Encounter for change or removal of drains  |
| Z48.812                 | Encounter for surgical aftercare following surgery on the circulatory system                               |
| Z48.89                  | Encounter for other specified surgical aftercare   |
| Z95.1                   | Presence of aortocoronary bypass graft   |
| Z95.5                   | Presence of coronary angioplasty implant and graft   |
| Z95.820                 | Peripheral vascular angioplasty status with implants and grafts  |
| Z95.828                 | Presence of other vascular implants and grafts   |
| Z98.61                  | Coronary angioplasty status  |

**Group 2 Paragraph:  
Two diagnoses are required:**

**Either**

**Z01.810 or  
Z01.818**

**plus**

**I20.0-I25.9**

**Group 2 Codes:**

| <b>ICD-10<br/>Codes</b> | <b>Description</b>  |
|-------------------------|---|
| 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               |

| <b>ICD-10 Codes</b> | <b>Description</b>   |
|---------------------|--|
| 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*            | 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   |
| I25.89*             | Other forms of chronic ischemic heart disease  |
| I25.9*              | Chronic ischemic heart disease, unspecified  |
| 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 of I20.0-I25.9.

ICD-10 Codes that DO NOT Support Medical Necessity

**Group 1 Paragraph:**

**All** diagnoses **not** listed in ICD-10-CM 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 is kept on file and made available to this A/B MAC on request.

The accuracy of noninvasive vascular diagnostic studies depends on the knowledge, skills and experience of the technologist and physician performing and interpreting the studies. 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.

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.

#### Sources of Information

1. Schmidt WA, Kraft HE, Vorpahl K, et al. Color Duplex Ultrasonography in the Diagnosis of Temporal Arteritis. *NEJM*. Nov 1997;337(19):1336-42.
2. ICAVL Essentials and Standards for Accreditations in Noninvasive Vascular Testing; Part II Vascular Laboratory Operations, Peripheral Arterial Testing, 1997.
3. White JV. Non-operative Management of Lower-Extremity Arterial Disease, Part II, in Diagnostic and Interventional Angioscopy *Surgical Clinics of North America*. Aug 1998;78(4):539:59.
4. Non-invasive Vascular Diagnostic Studies. *Physician Current Procedural Terminology*. American Medical Associations.1995:543-4.
5. Rice, KL, Walsh ME. Peripheral Arterial Occlusive Disease, Part I: Navigating a Bottleneck. *Nursing*. Feb 1998;28(2):33-38.
6. Gewertz BL. *Principles of Surgery*. Schwartz SI, ed. 7th ed. New York, NY: McGraw-Hill;1999:936-7.
7. Summer, D. Vascular Diagnostics. In: Greenfield LJ, MW Mulholland, Oldham KT, Kelenock GB, Lillemoe KD, eds. *Surgery: Scientific Principles and Practice*. 2nd ed.Philadelphia, PA: Lippincott-Raven; 1997;75:1668-77.
8. McDermott MM, Liu K, Gurainik JM, et al.. The Ankle Brachial Index Independently Predicts Walking Velocity and Walking Endurance in Peripheral Arterial Disease. *JAM Geriatric Society*. Nov 1998;46(11):1355-62.
9. Medicare consultants and Contractor Medical Directors

## Updated Sources:

Agency for Health Care Research and Quality, National Guideline Clearinghouse. U.S. Preventive Services Task Force. Screening for peripheral arterial disease: recommendation statement. *Am Fam Physician* 2006 Feb 1, 73(3):497-500 Available at: <http://www.guideline.gov/search/search.aspx?term=screening+for+peripheral+arterial+disease> Accessed on 3/14/2012.

Grondal N, Lindholt JS. Screening for peripheral arterial disease. *Eur J Vasc Endovasc Sur.* Sep 2009;38(3):314-5 Available at: [http://www.ejves.com/issues?issue\\_key=S1078-5884\(09\)X0010-9](http://www.ejves.com/issues?issue_key=S1078-5884(09)X0010-9) Accessed 3/14/2012.

**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   |
|-----------------------|-------------------------|--|--|
| 10/01/2017            | R3                      | <p>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.</p> <p>Effective 10/1/2017, LCD is revised per the annual ICD-10-CM code update to:</p> <p>Add ICD-10-CM codes: L97115; L97116; L97118; L97119; L97125; L97126; L97128; L97129; L97205; L97206; L97208; L97209; L97215; L97216; L97218; L97219; L97305; L97306; L97308; L97309; L97315; L97316; L97318; L97319; L97325; L97326; L97.328; L97.329; L97416; L97418; L97419; L97425; L97426; L97428; L97429; L97816; L97818; L97819; L98415; L98416; L98418; L98419; L98425; L98426; L98428; L98429</p> | <ul style="list-style-type: none"><li>Revisions Due To ICD -10-CM Code Changes</li></ul> |
| 10/01/2016            | R2                      | <p>ICD-10 Update 2016-2017 To Add: T85860A, T85860D, T85860S, T85868A, T85868D, T85868S, T85810A, T85810D, T85810S, T85818A, T85818D, T85818S, T82856A, T82856D, T82856S, I77.76, I77.77</p>   | <ul style="list-style-type: none"><li>Revisions Due To ICD -10-CM Code Changes</li></ul> |
| 10/01/2015            | R1                      | <p>R1: Add 173.9 to Group I; Add 125.9* To Group 2 as noted in the bottom line of Group 2 coding.</p>  | <ul style="list-style-type: none"><li>Typographical Error</li></ul>                      |

## [Associated Documents](#)

Attachments N/A

Related Local Coverage Documents N/A

Related National Coverage Documents N/A

Public Version(s) Updated on 08/30/2017 with effective dates 10/01/2017 - N/A [Updated on 09/13/2016 with effective dates 10/01/2016 - 09/30/2017](#) [Updated on 02/29/2016 with effective dates 10/01/2015 - 09/30/2016](#) [Updated on 03/31/2014 with effective dates 10/01/2015 - N/A](#) [Back to Top](#)

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## [Keywords](#)

- Noninvasive
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- Arterial
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