Non-Invasive Vascular Studies

Policy Number: 2.01.509
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Last Review: 7/2018
Next Review: 7/2019

Policy
Blue Cross and Blue Shield of Kansas City (Blue KC) will provide coverage for Non-Invasive Vascular Studies when the medical necessity criteria below are met.

When Policy Topic is covered
Abdominal/Visceral Vascular Studies
Abdominal/visceral non-invasive vascular studies are indicated in the evaluation and/or management of vascular disease along with, the narrowing or blockage of arteries that supply blood to the abdomen including intestines (mesenteric vascular disease), pelvic and scrotal contents, and/or retroperitoneal organs including the kidneys (renal vascular disease).

Abdominal, Retroperitoneal and Pelvic Organs (93975, 93976)
Abdominal, retroperitoneal and pelvic organ vascular studies may be considered medically necessary for the following indications:
- Uncontrolled hypertension.
- Stenosis of visceral artery (atherosclerotic, fibromuscular dysplasia, vasculitis, functional).
- Aneurysm of visceral artery.
- Portal hypertension, with or without ascites.
- Cirrhosis of the liver.
- Venous embolism, hemorrhage, infection, and/or thrombosis of visceral vein (renal, hepatic, mesenteric, portal or splenic).
- Stenosis of visceral vein (renal, hepatic, mesenteric, portal or splenic).
- Complications of internal (biological) (synthetic) prosthetic device implant and/or graft.
- Complications in abdominal organ or tissue transplant.
- Pain or swelling of scrotal contents which may be a result of suspected obstruction in arterial inflow or venous outflow to testicles or related structure.
- Torsion of the spermatic cord; acute epididymitis or epididymoorchitis; or torsion of the testicular appendages.
- Hypertension and normotensive renovascular disease with impaired renal function which could be acute kidney failure, chronic kidney disease, end stage renal disease, or other vascular disorders of the kidneys.
- Pain or swelling of the female genital organs which may be the result of torsion of the ovaries, ovarian pedicle or fallopian tube.
- Trauma to the abdominal, retroperitoneal and/or pelvic organs, arteries, and/or veins.
- Abdominal aortic aneurysms > four cm in diameter may be followed with abdominal ultrasound every six months.

**Aorta, Inferior vena cava, Iliac Vasculature and Bypass grafts (93978, 93979)**

Vascular studies of the aorta, inferior vena cava, iliac vasculature and bypass grafts may be considered **medically necessary** for the following indications:
- Atherosclerosis of aorta.
- Atherosclerosis of the extremities with intermittent claudication.
- Atherosclerosis of other specified arteries.
- Aortic aneurysm and dissection.
- Aneurysm of iliac artery.
- Thromboangiitis obliterans (Buerger’s disease).
- Peripheral vascular disease unspecified.
- Arterial embolism and thrombosis of abdominal aorta.
- Arterial embolism and thrombosis of iliac artery.
- Phlebitis and thrombophlebitis of iliac vein.
- Venous embolism and thrombosis of vena cava.
- Complications related to surgical procedures involving prosthetic device implant, graft, and/or shunts.
- Complications of organ or tissue transplant.
- Trauma to the chest wall and/or abdomen resulting in a possible injury to the aorta, inferior vena cava and/or iliac vasculature.

**Penile Vascular Studies (93980, 93981)**

Penile vascular studies may be considered **medically necessary** for patients with treatment failure for a documented groin injury where a vascular etiology for impotence is suspected.

**When Policy Topic is not covered**

Vascular studies are **not medically necessary** as the initial diagnostic modality for the evaluation of abdominal pain/tenderness.

Routine imaging of the iliac veins is **not medically necessary**. Exceptions will be made for specific medical indications of possible propagation of a known thrombus for consideration for placement of a vena cava filter device via the femoral approach. The medical necessity must be documented in the medical record.

If a patient is going to proceed on to other diagnostic and/or therapeutic procedures regardless of the outcome of the noninvasive studies, the non-invasive vascular studies are usually **not medically necessary**. The outcome must impact the clinical management of the patient.
Duplex scans of the arterial inflow and venous outflow of penile vessels are considered **not medically necessary**, except for the indication listed above.

Vascular studies not meeting criteria are considered **not medically necessary**.

**Description of Procedure or Service**

**Overview**

Non-invasive abdominal/visceral vascular studies utilize ultrasonic Doppler and physiologic principles to assess the irregularities in blood flow in renal, iliac, and femoral artery systems. These tests are also used to diagnose aortic aneurysms. Noninvasive abdominal/visceral vascular studies include the patient care required to perform the studies, supervision of the studies, and interpretation of study results, with copies for patient records of test results and analysis of all data, including bi-directional vascular flow or imaging when provided.

Duplex combines Doppler and conventional ultrasound, allowing the structure of blood vessels, how the blood is flowing through the vessels, and whether there is any obstruction in the vessels to be seen. Color Doppler produces a picture of the blood vessel, and a computer converts the Doppler sounds into colors overlaid on the image, representing information about the speed and direction of blood flow. Using spectral Doppler analysis, the duplex scan images provide anatomic and hemodynamic information, identifying the presence of any stenosis or plaque in the arteries. Duplex scans are in real-time.

Diagnostic tests must be ordered by the physician who is treating the patient and who will use the results in the management of the patient’s specific medical problem. Services may be deemed medically necessary when all of the following conditions are met:

1. Signs/symptoms of ischemia or altered blood flow are present;
2. The information is necessary for appropriate medical and/or surgical management;
3. The test is not redundant of other diagnostic procedures that must be performed. Although, in some circumstances, non-invasive vascular tests are complimentary, such as MRA and duplex, where the latter may confirm an indeterminate finding or demonstrate the physiologic significance of an anatomic stenosis such as in renal, iliac, and/or femoral arteries.

**Billing Coding/Physician Documentation Information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>93975</td>
<td>Duplex scan of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; complete study</td>
</tr>
<tr>
<td>93976</td>
<td>Duplex scan of arterial inflow and venous outflow of abdominal, pelvic, scrotal contents and/or retroperitoneal organs; limited study</td>
</tr>
<tr>
<td>93978</td>
<td>Duplex scan of aorta, inferior vena cava, iliac vasculature, or bypass grafts; complete study</td>
</tr>
<tr>
<td>93979</td>
<td>Duplex scan of aorta, inferior vena cava, iliac vasculature, or bypass grafts; unilateral or limited study</td>
</tr>
</tbody>
</table>
93980  Duplex scan of arterial inflow and venous outflow of penile vessels; complete study
93981  Duplex scan of arterial inflow and venous outflow of penile vessels; follow-up or limited study

**ICD-10 Codes**

*For 93975 and 93976*

For codes in the table below that require a 7th character: letter A initial encounter, D subsequent encounter or S sequela may be used.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B18.xx</td>
<td>Chronic viral hepatitis</td>
</tr>
<tr>
<td>B19.xx</td>
<td>Unspecified viral hepatitis</td>
</tr>
<tr>
<td>I10</td>
<td>Essential (primary) hypertension</td>
</tr>
<tr>
<td>I11.0</td>
<td>Hypertensive heart disease with heart failure</td>
</tr>
<tr>
<td>I11.9</td>
<td>Hypertensive heart disease without heart failure</td>
</tr>
<tr>
<td>I12.0</td>
<td>Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease</td>
</tr>
<tr>
<td>I12.9</td>
<td>Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
</tr>
<tr>
<td>I13.0</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
</tr>
<tr>
<td>I13.10</td>
<td>Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease</td>
</tr>
<tr>
<td>I13.11</td>
<td>Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease</td>
</tr>
<tr>
<td>I13.2</td>
<td>Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease</td>
</tr>
<tr>
<td>I15.0</td>
<td>Renovascular hypertension</td>
</tr>
<tr>
<td>I15.1</td>
<td>Hypertension secondary to other renal disorders</td>
</tr>
<tr>
<td>I15.2</td>
<td>Hypertension secondary to endocrine disorders</td>
</tr>
<tr>
<td>I15.8</td>
<td>Other secondary hypertension</td>
</tr>
<tr>
<td>I60.00</td>
<td>Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation</td>
</tr>
<tr>
<td>I60.01</td>
<td>Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation</td>
</tr>
<tr>
<td>I60.02</td>
<td>Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation</td>
</tr>
<tr>
<td>I60.1</td>
<td>Nontraumatic subarachnoid hemorrhage from middle cerebral artery</td>
</tr>
<tr>
<td>I60.10</td>
<td>Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery</td>
</tr>
</tbody>
</table>
I60.11 Nontraumatic subarachnoid hemorrhage from right middle cerebral artery
I60.12 Nontraumatic subarachnoid hemorrhage from left middle cerebral artery
I60.2 Nontraumatic subarachnoid hemorrhage from anterior communicating artery
I60.3 Nontraumatic subarachnoid hemorrhage from posterior communicating artery
I60.30 Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery
I60.31 Nontraumatic subarachnoid hemorrhage from right posterior communicating artery
I60.32 Nontraumatic subarachnoid hemorrhage from left posterior communicating artery
I60.4 Nontraumatic subarachnoid hemorrhage from basilar artery
I60.5 Nontraumatic subarachnoid hemorrhage from vertebral artery
I60.50 Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery
I60.51 Nontraumatic subarachnoid hemorrhage from right vertebral artery
I60.52 Nontraumatic subarachnoid hemorrhage from left vertebral artery
I60.6 Nontraumatic subarachnoid hemorrhage from other intracranial arteries
I60.7 Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery
I60.8 Other nontraumatic subarachnoid hemorrhage
I60.9 Nontraumatic subarachnoid hemorrhage, unspecified
I70.1 Atherosclerosis of renal artery
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
I72.2 Aneurysm of renal artery
I72.3 Aneurysm of iliac artery
I72.8 Aneurysm of other specified arteries
I74.01 Saddle embolus of abdominal aorta
I74.09 Other arterial embolism and thrombosis of abdominal aorta
I74.10 Embolism and thrombosis of unspecified parts of aorta
I74.19 Embolism and thrombosis of other parts of aorta
I74.5 Embolism and thrombosis of iliac artery
I74.8 Embolism and thrombosis of other arteries
I75.81 Atheroembolism of kidney
I75.89 Atheroembolism of other site
I76 Septic arterial embolism
I77.2 Rupture of artery
I77.3 Arterial fibromuscular dysplasia
I77.4 Celiac artery compression syndrome
I77.72 Dissection of iliac artery
I77.73 Dissection of renal artery
I77.79 Dissection of other artery
I77.810 Thoracic aortic ectasia
I77.811 Abdominal aortic ectasia
I77.812 Thoracoabdominal aortic ectasia
I77.819 Aortic ectasia, unspecified site
I80.8 Phlebitis and thrombophlebitis of other sites
I81 Portal vein thrombosis
I82.0 Budd-Chiari syndrome
I82.1 Thrombophlebitis migrans
I82.210 Acute embolism and thrombosis of superior vena cava
I82.211 Chronic embolism and thrombosis of superior vena cava
I82.220 Acute embolism and thrombosis of inferior vena cava
I82.221 Chronic embolism and thrombosis of inferior vena cava
I82.290 Acute embolism and thrombosis of other thoracic veins
I82.291 Chronic embolism and thrombosis of other thoracic veins
I82.3 Embolism and thrombosis of renal vein
I86.1 Scrotal varices
I86.2 Pelvic varices
I86.3 Vulval varices
I86.4 Gastric varices
I86.8 Varicose veins of other specified sites
K55.0 Acute vascular disorders of intestine
K55.1 Chronic vascular disorders of intestine
K55.8 Other vascular disorders of intestine
K70.2 Alcoholic fibrosis and sclerosis of liver
K70.30 Alcoholic cirrhosis of liver without ascites
K70.31 Alcoholic cirrhosis of liver with ascites
K74.0 Hepatic fibrosis
K74.60 Unspecified cirrhosis of liver
K74.69 Other cirrhosis of liver
K75.xx Other inflammatory liver diseases
K76.xx Other diseases of liver
K76.6 Portal hypertension
N17.0 Acute kidney failure with tubular necrosis
N17.1 Acute kidney failure with acute cortical necrosis
Acute kidney failure with medullary necrosis
Other acute kidney failure
Acute kidney failure, unspecified
Chronic kidney disease, stage 1
Chronic kidney disease, stage 2 (mild)
Chronic kidney disease, stage 3 (moderate)
Chronic kidney disease, stage 4 (severe)
Chronic kidney disease, stage 5
Atrophy of kidney (terminal)
Page kidney
Renal sclerosis, unspecified
Small kidney, unilateral
Small kidney, bilateral
Ischemia and infarction of kidney
Other disorders of kidney and ureter in diseases classified elsewhere
Encysted hydrocele
Infected hydrocele
Other hydrocele
Hydrocele, unspecified
Spermatocele of epididymis, unspecified
Spermatocele of epididymis, single
Spermatocele of epididymis, multiple
Torsion of testis, unspecified
Extravaginal torsion of spermatic cord
Intravaginal torsion of spermatic cord
Torsion of appendix testis
Torsion of appendix epididymis
Cyst of tunica albuginea testis
Benign cyst of testis
Other noninflammatory disorders of the testis
Epididymitis
Orchitis
Epididymo-orchitis
Abscess of epididymis or testis
Inflammatory disorders of spermatic cord, tunica vaginalis and vas deferens
Inflammatory disorders of scrotum
Fournier gangrene
Inflammatory disorders of other specified male genital organs
Inflammatory disorder of unspecified male genital organ
N50.0 Atrophy of testis
N50.1 Vascular disorders of male genital organs
N50.3 Cyst of epididymis
N50.8 Other specified disorders of male genital organs
N50.89 Other specified disorders of the male genital organs
N50.9 Disorder of male genital organs, unspecified
N51 Disorders of male genital organs in diseases classified elsewhere
N53.12 Painful ejaculation
N53.8 Other male sexual dysfunction
N53.9 Unspecified male sexual dysfunction
N83.51 Torsion of ovary and ovarian pedicle
N83.52 Torsion of fallopian tube
N83.53 Torsion of ovary, ovarian pedicle and fallopian tube
O02.xx Other abnormal products of conception
O28.0 Abnormal hematological finding on antenatal screening of mother
O28.1 Abnormal biochemical finding on antenatal screening of mother
O28.2 Abnormal cytological finding on antenatal screening of mother
O28.3 Abnormal ultrasonic finding on antenatal screening of mother
O28.4 Abnormal radiological finding on antenatal screening of mother
O28.5 Abnormal chromosomal and genetic finding on antenatal screening of mother
O28.8 Other abnormal findings on antenatal screening of mother
Q26.5 Anomalous portal venous connection
Q26.6 Portal vein-hepatic artery fistula
Q27.1 Congenital renal artery stenosis
Q27.2 Other congenital malformations of renal artery
Q27.33 Arteriovenous malformation of digestive system vessel
Q27.34 Arteriovenous malformation of renal vessel
Q60.0 Renal agenesis, unilateral
Q60.1 Renal agenesis, bilateral
Q60.3 Renal hypoplasia, unilateral
Q60.4 Renal hypoplasia, bilateral
Q60.6 Potter's syndrome
Q61.01 Congenital single renal cyst
Q61.02 Congenital multiple renal cysts
Q61.11 Cystic dilatation of collecting ducts
Q61.19 Other polycystic kidney, infantile type
Q61.2 Polycystic kidney, adult type
Q61.4 Renal dysplasia
Q61.5 Medullary cystic kidney
Q61.8 Other cystic kidney diseases
Q79.6 Ehlers-Danlos syndrome
R09.89 Other specified symptoms and signs involving the circulatory and respiratory systems
R10.0 Acute abdomen
R10.11 Right upper quadrant pain
R10.12 Left upper quadrant pain
R10.13 Epigastric pain
R10.2 Pelvic and perineal pain
R10.31 Right lower quadrant pain
R10.32 Left lower quadrant pain
R10.33 Periumbilical pain
R10.84 Generalized abdominal pain
R18.0 Malignant ascites
R18.8 Other ascites
R19.00 Intra-abdominal and pelvic swelling, mass and lump, unspecified site
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 Periumbilical 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
R19.31 Right upper quadrant abdominal rigidity
R19.32 Left upper quadrant abdominal rigidity
R19.33 Right lower quadrant abdominal rigidity
R19.34 Left lower quadrant abdominal rigidity
R19.35 Periumbilical abdominal rigidity
R19.36 Epigastric abdominal rigidity
R19.37 Generalized abdominal rigidity
R94.4 Abnormal results of kidney function studies
R94.5 Abnormal results of liver function studies
S35.11XA Minor laceration of inferior vena cava, initial encounter
S35.12XA Major laceration of inferior vena cava, initial encounter
S35.19XA Other injury of inferior vena cava, initial encounter
S35.211A Minor laceration of celiac artery, initial encounter
S35.212A Major laceration of celiac artery, initial encounter
S35.218A Other injury of celiac artery, initial encounter
S35.221A Minor laceration of superior mesenteric artery, initial encounter
S35.222A Major laceration of superior mesenteric artery, initial encounter
S35.228A Other injury of superior mesenteric artery, initial encounter
S35.291A Minor laceration of branches of celiac and mesenteric artery, initial encounter
S35.292A Major laceration of branches of celiac and mesenteric artery, initial encounter
S35.298A Other injury of branches of celiac and mesenteric artery, initial encounter
S35.311A Laceration of portal vein, initial encounter
S35.318A Other specified injury of portal vein, initial encounter
S35.321A Laceration of splenic vein, initial encounter
S35.328A Other specified injury of splenic vein, initial encounter
S35.331A Laceration of superior mesenteric vein, initial encounter
S35.338A Other specified injury of superior mesenteric vein, initial encounter
S35.341A Laceration of inferior mesenteric vein, initial encounter
S35.348A Other specified injury of inferior mesenteric vein, initial encounter
S35.411A Laceration of right renal artery, initial encounter
S35.412A Laceration of left renal artery, initial encounter
S35.413A Laceration of unspecified renal artery, initial encounter
S35.414A Laceration of right renal vein, initial encounter
S35.415A Laceration of left renal vein, initial encounter
S35.416A Laceration of unspecified renal vein, initial encounter
S35.491A Other specified injury of right renal artery, initial encounter
S35.492A Other specified injury of left renal artery, initial encounter
S35.493A Other specified injury of unspecified renal artery, initial encounter
S35.494A Other specified injury of right renal vein, initial encounter
S35.495A Other specified injury of left renal vein, initial encounter
S35.496A Other specified injury of unspecified renal vein, initial encounter
S35.511A Injury of right iliac artery, initial encounter
S35.512A Injury of left iliac artery, initial encounter
S35.514A Injury of right iliac vein, initial encounter
S35.515A Injury of left iliac vein, initial encounter
S35.531A Injury of right uterine artery, initial encounter
S35.532A Injury of left uterine artery, initial encounter
S35.534A Injury of right uterine vein, initial encounter
S35.535A Injury of left uterine vein, initial encounter
S35.8X1A Laceration of other blood vessels at abdomen, lower back and pelvis level, initial encounter
S35.8X8A Other specified injury of other blood vessels at abdomen, lower back and pelvis level, initial encounter
T81.710A Complication of mesenteric artery following a procedure, not elsewhere
classified, initial encounter
Complication of renal artery following a procedure, not elsewhere classified, initial encounter
T81.711A

Embolism of cardiac prosthetic devices, implants and grafts, initial encounter
T82.817A
Embolism of vascular prosthetic devices, implants and grafts, initial encounter
T82.818A
Fibrosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.827A
Fibrosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.828A
Hemorrhage of cardiac prosthetic devices, implants and grafts, initial encounter
T82.837A
Hemorrhage of vascular prosthetic devices, implants and grafts, initial encounter
T82.838A
Pain from cardiac prosthetic devices, implants and grafts, initial encounter
T82.847A
Pain from vascular prosthetic devices, implants and grafts, initial encounter
T82.848A
Stenosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.857A
Stenosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.858A
Thrombosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.867A
Thrombosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.868A
Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter
T82.897A
Other specified complication of vascular prosthetic devices, implants and grafts, initial encounter
T82.898A
Kidney transplant rejection
T86.11
Kidney transplant failure
T86.12
Kidney transplant infection
T86.13
Other complication of kidney transplant
T86.19
Liver transplant rejection
T86.41
Liver transplant failure
T86.42
Liver transplant infection
T86.43
Other complications of liver transplant
T86.49
Intestine transplant rejection
T86.850
Intestine transplant failure
T86.851
Intestine transplant infection
T86.852
Other complications of intestine transplant
T86.858
Encounter for suspected maternal and fetal conditions ruled out
Z03.7
Encounter for antenatal screening for chromosomal anomalies
Z36.0
Encounter for antenatal screening for raised alphafetoprotein level
Z36.1
Encounter for other antenatal screening follow-up
Z36.2
Encounter for antenatal screening for malformations
Z36.3
Z36.4  Encounter for antenatal screening for fetal growth retardation
Z36.5  Encounter for antenatal screening for isoimmunization
Z36.81 Encounter for antenatal screening for hydrops fetalis
Z36.82 Encounter for antenatal screening for nuchal translucency
Z36.83 Encounter for fetal screening for congenital cardiac abnormalities
Z36.84 Encounter for antenatal screening for fetal lung maturity
Z36.85 Encounter for antenatal screening for Streptococcus B
Z36.86 Encounter for antenatal screening for cervical length
Z36.87 Encounter for antenatal screening for uncertain dates
Z36.88 Encounter for antenatal screening for fetal macrosomia
Z36.89 Encounter for other specified antenatal screening
Z36.8A Encounter for antenatal screening for other genetic defects
Z36.9  Encounter for antenatal screening, unspecified
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

For 93978 and 93979
For codes in the table below that require a 7th character: letter A initial encounter, D subsequent encounter or S sequela may be used.
I26.01  Septic pulmonary embolism with acute cor pulmonale
I26.02  Saddle embolus of pulmonary artery with acute cor pulmonale
I26.09  Other pulmonary embolism with acute cor pulmonale
I26.90  Septic pulmonary embolism without acute cor pulmonale
I26.92  Saddle embolus of pulmonary artery without acute cor pulmonale
I26.99  Other pulmonary embolism without acute cor pulmonale
I27.82  Chronic pulmonary embolism
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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>170.228</td>
<td>Atherosclerosis of native arteries of extremities with rest pain, other extremity</td>
</tr>
<tr>
<td>170.231</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of thigh</td>
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<tr>
<td>170.232</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of calf</td>
</tr>
<tr>
<td>170.233</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of ankle</td>
</tr>
<tr>
<td>170.234</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot</td>
</tr>
<tr>
<td>170.235</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of other part of foot</td>
</tr>
<tr>
<td>170.236</td>
<td>Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg</td>
</tr>
<tr>
<td>170.241</td>
<td>Atherosclerosis of native arteries of left leg with ulceration of thigh</td>
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<tr>
<td>170.242</td>
<td>Atherosclerosis of native arteries of left leg with ulceration of calf</td>
</tr>
<tr>
<td>170.243</td>
<td>Atherosclerosis of native arteries of left leg with ulceration of ankle</td>
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<tr>
<td>170.245</td>
<td>Atherosclerosis of native arteries of left leg with ulceration of other part of foot</td>
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<tr>
<td>170.246</td>
<td>Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg</td>
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<tr>
<td>170.25</td>
<td>Atherosclerosis of native arteries of other extremities with ulceration</td>
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<td>170.261</td>
<td>Atherosclerosis of native arteries of extremities with gangrene, right leg</td>
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<td>Atherosclerosis of native arteries of extremities with gangrene, left leg</td>
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<tr>
<td>170.263</td>
<td>Atherosclerosis of native arteries of extremities with gangrene, bilateral legs</td>
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<tr>
<td>170.264</td>
<td>Atherosclerosis of native arteries of extremities with gangrene, other extremity</td>
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<tr>
<td>171.01</td>
<td>Dissection of thoracic aorta</td>
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<td>Dissection of abdominal aorta</td>
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<td>171.03</td>
<td>Dissection of thoracoabdominal aorta</td>
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<tr>
<td>171.1</td>
<td>Thoracic aortic aneurysm, ruptured</td>
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<tr>
<td>171.2</td>
<td>Thoracic aortic aneurysm, without rupture</td>
</tr>
<tr>
<td>171.3</td>
<td>Abdominal aortic aneurysm, ruptured</td>
</tr>
<tr>
<td>171.4</td>
<td>Abdominal aortic aneurysm, without rupture</td>
</tr>
<tr>
<td>171.5</td>
<td>Thoracoabdominal aortic aneurysm, ruptured</td>
</tr>
<tr>
<td>171.6</td>
<td>Thoracoabdominal aortic aneurysm, without rupture</td>
</tr>
<tr>
<td>172.3</td>
<td>Aneurysm of iliac artery</td>
</tr>
<tr>
<td>173.00</td>
<td>Raynaud's syndrome without gangrene</td>
</tr>
<tr>
<td>173.1</td>
<td>Thromboangiitis obliterans [Buerger's disease]</td>
</tr>
<tr>
<td>174.01</td>
<td>Saddle embolus of abdominal aorta</td>
</tr>
<tr>
<td>174.09</td>
<td>Other arterial embolism and thrombosis of abdominal aorta</td>
</tr>
<tr>
<td>174.11</td>
<td>Embolism and thrombosis of thoracic aorta</td>
</tr>
<tr>
<td>174.19</td>
<td>Embolism and thrombosis of other parts of aorta</td>
</tr>
</tbody>
</table>
Embolism and thrombosis of iliac artery
Atheroembolism of right lower extremity
Atheroembolism of left lower extremity
Atheroembolism of bilateral lower extremities
Arteriovenous fistula, acquired
Dissection of iliac artery
Dissection of other artery
Thoracic aortic ectasia
Abdominal aortic ectasia
Thoracoabdominal aortic ectasia
Phlebitis and thrombophlebitis of right iliac vein
Phlebitis and thrombophlebitis of left iliac vein
Phlebitis and thrombophlebitis of iliac vein, bilateral
Budd-Chiari syndrome
Acute embolism and thrombosis of inferior vena cava
Chronic embolism and thrombosis of inferior vena cava
Acute embolism and thrombosis of right iliac vein
Acute embolism and thrombosis of left iliac vein
Acute embolism and thrombosis of iliac vein, bilateral
Chronic embolism and thrombosis of right iliac vein
Chronic embolism and thrombosis of left iliac vein
Chronic embolism and thrombosis of iliac vein, bilateral
Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure
Accidental puncture and laceration of a circulatory system organ or structure during other procedure
Accidental puncture and laceration of a respiratory system organ or structure during a respiratory system procedure
Accidental puncture and laceration of a respiratory system organ or structure during other procedure
Acute vascular disorders of intestine
Chronic vascular disorders of intestine
Accidental puncture and laceration of a digestive system organ or structure during a digestive system procedure
Accidental puncture and laceration of a digestive system organ or structure during other procedure
Pain in right arm
Pain in left arm
Pain in right leg
M79.605 Pain in left leg
M79.621 Pain in right upper arm
M79.622 Pain in left upper arm
M79.631 Pain in right forearm
M79.632 Pain in left forearm
M79.641 Pain in right hand
M79.642 Pain in left hand
M79.644 Pain in right finger(s)
M79.645 Pain in left finger(s)
M79.651 Pain in right thigh
M79.652 Pain in left thigh
M79.661 Pain in right lower leg
M79.662 Pain in left lower leg
M79.671 Pain in right foot
M79.672 Pain in left foot
M79.674 Pain in right toe(s)
M79.675 Pain in left toe(s)
Q25.2 Atresia of aorta
Q25.3 Supravalvular aortic stenosis
Q25.4 Other congenital malformations of aorta
Q25.8 Other congenital malformations of other great arteries
Q25.9 Congenital malformation of great arteries, unspecified
Q26.0 Congenital stenosis of vena cava
Q26.1 Persistent left superior vena cava
Q26.2 Total anomalous pulmonary venous connection
Q26.3 Partial anomalous pulmonary venous connection
Q26.8 Other congenital malformations of great veins
Q79.6 Ehlers-Danlos syndrome
R09.89 Other specified symptoms and signs involving the circulatory and respiratory systems
R19.00 Intra-abdominal and pelvic swelling, mass and lump, unspecified site
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 Periumbilical 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
S35.01XA  Minor laceration of abdominal aorta, initial encounter
S35.02XA  Major laceration of abdominal aorta, initial encounter
S35.09XA  Other injury of abdominal aorta, initial encounter
S35.11XA  Minor laceration of inferior vena cava, initial encounter
S35.12XA  Major laceration of inferior vena cava, initial encounter
S35.19XA  Other injury of inferior vena cava, initial encounter
S35.511A  Injury of right iliac artery, initial encounter
S35.512A  Injury of left iliac artery, initial encounter
S35.514A  Injury of right iliac vein, initial encounter
S35.515A  Injury of left iliac vein, initial encounter
S35.534A  Injury of right uterine vein, initial encounter
S35.535A  Injury of left uterine vein, initial encounter
T82.310A  Breakdown (mechanical) of aortic (bifurcation) graft (replacement), initial encounter
T82.311A  Breakdown (mechanical) of carotid arterial graft (bypass), initial encounter
T82.312A  Breakdown (mechanical) of femoral arterial graft (bypass), initial encounter
T82.318A  Breakdown (mechanical) of other vascular grafts, initial encounter
T82.320A  Displacement of aortic (bifurcation) graft (replacement), initial encounter
T82.321A  Displacement of carotid arterial graft (bypass), initial encounter
T82.322A  Displacement of femoral arterial graft (bypass), initial encounter
T82.328A  Displacement of other vascular grafts, initial encounter
T82.330A  Leakage of aortic (bifurcation) graft (replacement), initial encounter
T82.331A  Leakage of carotid arterial graft (bypass), initial encounter
T82.332A  Leakage of femoral arterial graft (bypass), initial encounter
T82.338A  Leakage of other vascular grafts, initial encounter
T82.390A  Other mechanical complication of aortic (bifurcation) graft (replacement), initial encounter
T82.391A  Other mechanical complication of carotid arterial graft (bypass), initial encounter
T82.392A  Other mechanical complication of femoral arterial graft (bypass), initial encounter
T82.398A  Other mechanical complication of other vascular grafts, initial encounter
T82.41XA  Breakdown (mechanical) of vascular dialysis catheter, initial encounter
T82.42XA  Displacement of vascular dialysis catheter, initial encounter
T82.43XA  Leakage of vascular dialysis catheter, initial encounter
T82.49XA  Other complication of vascular dialysis catheter, initial encounter
T82.510A  Breakdown (mechanical) of surgically created arteriovenous fistula, initial encounter
T82.511A  Breakdown (mechanical) of surgically created arteriovenous shunt, initial encounter
T82.513A  Breakdown (mechanical) of balloon (counterpulsation) device, initial encounter
T82.514A  Breakdown (mechanical) of infusion catheter, initial encounter
T82.515A  Breakdown (mechanical) of umbrella device, initial encounter
T82.518A  Breakdown (mechanical) of other cardiac and vascular devices and implants, initial encounter
T82.520A  Displacement of surgically created arteriovenous fistula, initial encounter
T82.521A  Displacement of surgically created arteriovenous shunt, initial encounter
T82.523A  Displacement of balloon (counterpulsation) device, initial encounter
T82.524A  Displacement of infusion catheter, initial encounter
T82.525A  Displacement of umbrella device, initial encounter
T82.528A  Displacement of other cardiac and vascular devices and implants, initial encounter
T82.530A  Leakage of surgically created arteriovenous fistula, initial encounter
T82.531A  Leakage of surgically created arteriovenous shunt, initial encounter
T82.533A  Leakage of balloon (counterpulsation) device, initial encounter
T82.534A  Leakage of infusion catheter, initial encounter
T82.535A  Leakage of umbrella device, initial encounter
T82.538A  Leakage of other cardiac and vascular devices and implants, initial encounter
T82.590A  Other mechanical complication of surgically created arteriovenous fistula, initial encounter
T82.591A  Other mechanical complication of surgically created arteriovenous shunt, initial encounter
T82.593A  Other mechanical complication of balloon (counterpulsation) device, initial encounter
T82.594A  Other mechanical complication of infusion catheter, initial encounter
T82.595A  Other mechanical complication of umbrella device, initial encounter
T82.598A  Other mechanical complication of other cardiac and vascular devices and implants, initial encounter
T82.817A  Embolism of cardiac prosthetic devices, implants and grafts, initial encounter
T82.818A  Embolism of vascular prosthetic devices, implants and grafts, initial encounter
T82.827A  Fibrosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.828A  Fibrosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.837A  Hemorrhage of cardiac prosthetic devices, implants and grafts, initial encounter
T82.838A  Hemorrhage of vascular prosthetic devices, implants and grafts, initial encounter
T82.847A  Pain from cardiac prosthetic devices, implants and grafts, initial encounter
T82.848A  Pain from vascular prosthetic devices, implants and grafts, initial encounter
T82.857A  Stenosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.858A  Stenosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.867A  Thrombosis of cardiac prosthetic devices, implants and grafts, initial encounter
T82.868A  Thrombosis of vascular prosthetic devices, implants and grafts, initial encounter
T82.897A  Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter
T82.898A  Other specified complication of vascular prosthetic devices, implants and grafts, initial encounter
T86.11    Kidney transplant rejection
T86.12    Kidney transplant failure
T86.13    Kidney transplant infection
T86.19    Other complication of kidney transplant
T86.41    Liver transplant rejection
T86.42    Liver transplant failure
T86.43    Liver transplant infection
T86.49    Other complications of liver transplant
Z95.820   Peripheral vascular angioplasty status with implants and grafts
Z95.828   Presence of other vascular implants and grafts

For 93980 and 93981
For codes in the table below that require a 7th character: letter A initial encounter, D subsequent encounter or S sequela may be used.
N48.31    Priapism due to trauma
N48.81    Thrombosis of superficial vein of penis
N48.82    Acquired torsion of penis
N48.83    Acquired buried penis
N48.89    Other specified disorders of penis
N50.1     Vascular disorders of male genital organs
Q79.6     Ehlers-Danlos syndrome
S38.001A  Crushing injury of unspecified external genital organs, male, initial encounter
S38.01XA  Crushing injury of penis, initial encounter
S38.02XA  Crushing injury of scrotum and testis, initial encounter
T83.010A  Breakdown (mechanical) of cystostomy catheter, initial encounter
T83.018A  Breakdown (mechanical) of other indwelling urethral catheter, initial encounter
T83.020A  Displacement of cystostomy catheter, initial encounter
T83.028A  Displacement of other indwelling urethral catheter, initial encounter
T83.090A  Other mechanical complication of cystostomy catheter, initial encounter
T83.098A  Other mechanical complication of other indwelling urethral catheter, initial
T83.110A  Breakdown (mechanical) of urinary electronic stimulator device, initial encounter
T83.111A  Breakdown (mechanical) of urinary sphincter implant, initial encounter
T83.112A  Breakdown (mechanical) of urinary stent, initial encounter
T83.118A  Breakdown (mechanical) of other urinary devices and implants, initial encounter
T83.120A  Displacement of urinary electronic stimulator device, initial encounter
T83.121A  Displacement of urinary sphincter implant, initial encounter
T83.122A  Displacement of urinary stent, initial encounter
T83.128A  Displacement of other urinary devices and implants, initial encounter
T83.190A  Other mechanical complication of urinary electronic stimulator device, initial encounter
T83.191A  Other mechanical complication of urinary sphincter implant, initial encounter
T83.192A  Other mechanical complication of urinary stent, initial encounter
T83.198A  Other mechanical complication of other urinary devices and implants, initial encounter
T83.21XA  Breakdown (mechanical) of graft of urinary organ, initial encounter
T83.22XA  Displacement of graft of urinary organ, initial encounter
T83.23XA  Leakage of graft of urinary organ, initial encounter
T83.29XA  Other mechanical complication of graft of urinary organ, initial encounter
T83.410A  Breakdown (mechanical) of penile (implanted) prosthesis, initial encounter
T83.418A  Breakdown (mechanical) of other prosthetic devices, implants and grafts of genital tract, initial encounter
T83.420A  Displacement of penile (implanted) prosthesis, initial encounter
T83.428A  Displacement of other prosthetic devices, implants and grafts of genital tract, initial encounter
T83.490A  Other mechanical complication of penile (implanted) prosthesis, initial encounter
T83.498A  Other mechanical complication of other prosthetic devices, implants and grafts of genital tract, initial encounter
T83.718A  Erosion of other implanted mesh and other prosthetic materials to surrounding organ or tissue, initial encounter
T83.728A  Exposure of other implanted mesh and other prosthetic materials to surrounding organ or tissue, initial encounter

**Additional Policy Key Words**
N/A
Policy Implementation/Update Information

7/1/16  New policy; may be considered medically necessary.
7/1/17  No policy statement changes.
7/1/18  No policy statement changes.

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