ICD-10 for Vascular Disorders

- Documentation!
- Diagnosis codes that get paid.
- Diagnosis codes that accurately portray your patient population.

Why Are We Changing?

- ICD-9 is out of date and running out of space for new codes.
- ICD-10 is the international standard to report and monitor disease and mortality – USA must adopt for reporting and surveillance.
- ICD codes are core elements of many health information technology systems making the conversion to ICD-10-CM necessary to fully realize benefits of HIT adoption.
- It is mandated by CMS for all HIPAA-covered entities.
Why You Should Care About Diagnosis Coding

- **Today-payors use diagnosis codes to:**
  - Deny payment based on a lack of medical necessity/wrong ICD-10 code.
  - Build payment policies and coverage determination based on specific diagnosis codes.

- **Today and future-payors will use diagnosis codes to:**
  - Establish reimbursement in risk based contracting models.
  - Determine payment in ACO (shared savings) and bundled payment models.
  - Determine patient complexity to justify inpatient status and establish post-op visit benchmarks.


Utilize technology to facilitate finding the right code!

EMR, www.ICD10data.com, and more!

Recognize limitations!
Format of Codes

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 3-5 characters in length</td>
<td>• 3-7 characters in length</td>
</tr>
<tr>
<td>• Approximately 14,000 codes</td>
<td>• Approximately 69,000 codes</td>
</tr>
<tr>
<td>• Limited space for adding new codes</td>
<td>• Flexibility for adding new codes</td>
</tr>
<tr>
<td>• Lacks detail</td>
<td>• Very specific</td>
</tr>
</tbody>
</table>

Code Structure and Format

**ICD-9-CM**
- Numeric or Alpha (E or V)
- Numeric
- Category
- Category, Anatomic Site, Severity

**ICD-10-CM**
- Alpha (every letter except U)
- Numeric
- Numeric or Alpha (every letter except U)
- Category
- Etiology, Anatomic Site, Severity
- Extension
Laterality and Vascular ICD-10 Coding

Some codes include a right, left and bilateral code in areas where anatomic laterality exists. If no bilateral code exists but the diagnosis is bilateral, use both the right and left code.

For example:
I70.211 Atherosclerosis of native arteries of the extremity with intermittent claudication, right leg
I70.212 Atherosclerosis of native arteries of the extremity with intermittent claudication, left leg

Coding Co-Existing Conditions

ICD says:
“Code all documented conditions that coexist at the time of the encounter/visit, and require or affect patient care treatment or management.”

Examples:
- You send the patient to their cardiologist for a pre-op evaluation for co-existing cardiac conditions.
- The patient has ESRD and you request clearance by his physician.
Coding Co-Existing Conditions

Action:
- Code the primary reason for the visit and the underlying conditions if they affect your treatment/surgical plan.

Why?
- Accurately portray the complexity of your patient population.
- Patient complexity will impact payment models, risk-based contracting, ACOs, and bundled payments.
- Patient complexity also impacts inpatient status, number of post-op visits and more.

Co-Existing Conditions

- Asthma
- Kidney Disease
- Nicotine Dependence
- Diabetes
- Obesity/BMI

- COPD
- HTN/Angina/Heart Disease
- Alcohol Abuse/Dependence/Use
- Other?
- Personal History of...
Using “Other Specified” Codes

- “Other” or “Other Specified”
  - Use when information in the medical record provides needed detail, but a specific code does not exist.
- Examples:
  - I74.8 Embolism and thrombosis of other arteries
  - I72.8 Aneurysm of other specified artery

Using “Unspecified” Codes

- Unspecified”
  - Use when the information in the medical record is insufficient to assign a more specific code.
  - Beware of overuse of unspecified codes!!!
- Example:
  - I74.9 Embolism and thrombosis of unspecified artery
  - I72.9 Aneurysm of unspecified site
**Coding Signs and Symptoms**

**Do** code signs and symptoms if a definitive diagnosis is not known.

**Do not** code signs and symptoms if a more definitive diagnosis is known.

*For example*, don’t code leg pain if a definitive diagnosis is known.

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### Coding Signs and Symptoms

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>729.5</td>
<td>M79.604 Pain in right leg</td>
</tr>
<tr>
<td></td>
<td>M79.605 Pain in left leg</td>
</tr>
<tr>
<td></td>
<td>M79.606 Pain in leg, unspecified</td>
</tr>
<tr>
<td></td>
<td>M79.651 Pain in right thigh</td>
</tr>
<tr>
<td></td>
<td>M79.652 Pain in left thigh</td>
</tr>
<tr>
<td></td>
<td>M79.659 Pain in thigh, unspecified</td>
</tr>
<tr>
<td></td>
<td>M79.661 Pain in lower leg, right</td>
</tr>
<tr>
<td></td>
<td>M79.662 Pain in lower leg, left</td>
</tr>
<tr>
<td></td>
<td>M79.669 Pain in lower leg, unspecified</td>
</tr>
</tbody>
</table>
Chapter 9: Circulatory System

Circulatory System

- For Cerebrovascular Diseases (I60-I69)
  - Use additional code to identify presence of:
    - Alcohol abuse and dependence (F10.-)
    - Exposure to environmental tobacco smoke (Z77.22)
    - History of tobacco use (Z87.891)
    - Hypertension (I10-I15)
    - Occupational exposure to environmental tobacco smoke (Z57.31)
    - Tobacco dependence (F17.0-)
    - Tobacco use (Z72.0)
Atherosclerosis of Native Artery: I70.0-I70.29

<table>
<thead>
<tr>
<th>ICD-9-CM (6 codes)</th>
<th>ICD-10-CM (40 codes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>440.20 Unspecified</td>
<td>I70.20 Unspecified</td>
</tr>
<tr>
<td>440.21 with claudication</td>
<td>I70.21 with claudication</td>
</tr>
<tr>
<td>440.22 with rest pain</td>
<td>I70.22 with rest pain</td>
</tr>
<tr>
<td>440.23 with ulceration</td>
<td>I70.23 with right leg ulceration</td>
</tr>
<tr>
<td>440.24 with gangrene</td>
<td>I70.24 with left leg ulceration</td>
</tr>
<tr>
<td>440.29 other</td>
<td>I70.25 other extremities with ulceration</td>
</tr>
<tr>
<td></td>
<td>I70.26 with gangrene</td>
</tr>
<tr>
<td></td>
<td>I70.29 other</td>
</tr>
</tbody>
</table>

New Documentation requirements
→ Laterality
→ Severity of ulcer, if ulceration present
→ Additional codes

Each category includes additional codes for laterality
• Right
• Left
• Bilateral
• Other extremity
• Unspecified extremity

Atherosclerosis of Native Arteries

- Atherosclerosis with ulceration codes:
  - Specific for location of ulcer
    - Thigh
    - Calf
    - Ankle
    - Heel and midfoot
    - Other part of foot
    - Other part of lower leg
    - Unspecified
Atherosclerosis: Instructional Notes for “With Ulceration”

- Use additional code to identify severity of ulcer (L97.-)
- Chapter 12 Diseases of the Skin and Subcutaneous Tissue

Non-Pressure Chronic Ulcer Codes L97.1-L97.92

- Ulceration codes
  - Specific for severity of ulcer - new in ICD-10
    - Limited to skin breakdown
    - Fat layer exposed
    - With necrosis of muscle
    - With necrosis of bone
    - Unspecified severity

Example:
L97.422  Non-pressure chronic ulcer of left heel and midfoot with fat layer exposed
Atherosclerosis of Native Arteries of Extremities (I70.2.-)

Clinical Documentation Improvement Tips

#1 State Clinical SYMPTOM
- Intermittent claudication
- Rest pain
- Ulceration
- Gangrene
- Other

#2 State LATERALITY
- Left
- Right
- Bilateral

#3 If Ulcer present, state clinical characteristics
- Limited to skin breakdown
- Fat layer exposed
- Necrosis of muscle
- Necrosis of bone

Do NOT Say: Claudication both legs, ulcer on right heel.

DO Say: Bilateral atherosclerosis with intermittent claudication. Right heel ulcer with fat layer exposed

Atherosclerosis of Bypass Grafts

<table>
<thead>
<tr>
<th>ICD-9-CM (3 codes)</th>
<th>ICD-10-CM (200 codes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>440.30 Unspecified graft</td>
<td>I70.30 Unspecified bypass graft(s)</td>
</tr>
<tr>
<td>440.31 Autologous vein bypass graft</td>
<td>I70.40 Autologous vein bypass graft(s)</td>
</tr>
<tr>
<td>440.32 Nonautologous bypass graft</td>
<td>I70.50 Nonautologous biological bypass graft(s)</td>
</tr>
<tr>
<td>440.60 Other type of bypass graft(s)</td>
<td></td>
</tr>
</tbody>
</table>

ICD-10 Documentation requirements
- Laterality
- Clinical symptoms, claudication rest pain, ulceration, gangrene
- Severity of ulcer, if ulceration present
- Additional codes

Each category includes additional codes for laterality
- Right
- Left
- Bilateral
- Other extremity
- Unspecified extremity
Atherosclerosis of Bypass Grafts (I70.2-)

Clinical Documentation Improvement Tips

#1 State TYPE of GRAFT
- Autologous Vein
- Nonautologous biological
- Non biological

#2 State Clinical SYMPTOM
- Intermittent claudication
- Rest pain
- Ulceration
- Gangrene
- Other

#3 State LATERALITY
- Left
- Right
- Bilateral

#4 If Ulcer present, state clinical characteristics
- Limited to skin breakdown
- Fat layer exposed
- Necrosis of muscle
- Necrosis of bone

Do NOT Say: Stenosis of bypass grafts.
DO Say: Stenosis of vein bypass graft right leg with rest pain.

Arterial Embolism and Thrombosis (I74.-)

Clinical Documentation Improvement Tips

#1 State VESSEL
- Abdominal aorta
  - Saddle embolism or other
- Thoracic aorta
- Other parts of aorta
- Upper extremities
- Lower extremities
- Iliac artery
- Other arteries

Same codes as in ICD-9
### Aneurysm Coding (I71.0-I72.9)

If your documentation supports these codes now, it will in ICD-10-CM too!

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>441.1 Thoracic aneurysm, ruptured</td>
<td>I71.1 Thoracic aneurysm, ruptured</td>
</tr>
<tr>
<td>441.2 Thoracic aneurysm, without mention of rupture</td>
<td>I71.2 Thoracic aneurysm, without mention of rupture</td>
</tr>
<tr>
<td>441.3 Abdominal aneurysm, ruptured</td>
<td>I71.3 Abdominal aneurysm, ruptured</td>
</tr>
<tr>
<td>441.4 Abdominal aneurysm, without mention of rupture</td>
<td>I71.4 Abdominal aneurysm, without mention of rupture</td>
</tr>
<tr>
<td>441.6 Thoracoabdominal aneurysm, ruptured</td>
<td>I71.5 Thoracoabdominal aneurysm, ruptured</td>
</tr>
<tr>
<td>441.7 Thoracoabdominal aneurysm, without mention of rupture</td>
<td>I71.6 Thoracoabdominal aneurysm, without mention of rupture</td>
</tr>
<tr>
<td>442.82 Aneurysm of artery of neck</td>
<td>I72.0 Aneurysm of carotid artery</td>
</tr>
<tr>
<td>442.1 Aneurysm of renal artery</td>
<td>I72.1 Aneurysm of renal artery</td>
</tr>
<tr>
<td>442.2 Aneurysm of iliac artery</td>
<td>I72.2 Aneurysm of iliac artery</td>
</tr>
<tr>
<td>442.3 Aneurysm of lower extremity</td>
<td>I72.3 Aneurysm of lower extremity</td>
</tr>
</tbody>
</table>

### What's different?

Codes still remains for unspecified site

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>442.81 Aneurysm of subclavian artery</td>
<td>I72.8 Aneurysm of other specified artery</td>
</tr>
<tr>
<td>442.83 Aneurysm of splenic artery</td>
<td>I72.8 Aneurysm of other specified artery</td>
</tr>
<tr>
<td>442.84 Aneurysm of other visceral artery</td>
<td>I72.8 Aneurysm of other specified artery</td>
</tr>
<tr>
<td>442.0 Aneurysm of upper extremity</td>
<td>I72.8 Aneurysm of other specified artery</td>
</tr>
</tbody>
</table>
Occlusion and Stenosis with Cerebral Infarction (I63 Codes)

Clinical Documentation Improvement Tips

#1 State CAUSE
- Thrombosis
- Embolism
- Occlusion or stenosis

#2 State specific CEREBRAL or PRE-CEREBRAL ARTERY
- Pre-cerebral
  - Vertebral
  - Basilar
  - Carotid
- Cerebral
  - Middle cerebral
  - Anterior cerebral
  - Posterior cerebral
  - Cerebellar
  - Other

#3 State LATERALITY
- Right
- Left
- No bilateral code

<table>
<thead>
<tr>
<th>ICD-9-CM (9)</th>
<th>ICD-10-CM (66)</th>
</tr>
</thead>
<tbody>
<tr>
<td>433.xx</td>
<td>Due to thrombosis (precerebral)</td>
</tr>
<tr>
<td></td>
<td>Due to embolism (precerebral)</td>
</tr>
<tr>
<td></td>
<td>Unspecified occlusion or stenosis (precerebral)</td>
</tr>
<tr>
<td>434.xx</td>
<td>Due to thrombosis (cerebral)</td>
</tr>
<tr>
<td></td>
<td>Due to embolism (cerebral)</td>
</tr>
<tr>
<td></td>
<td>Due to unspecified occlusion or stenosis (cerebral)</td>
</tr>
<tr>
<td></td>
<td>Due to cerebral venous thrombosis, nonpyogenic</td>
</tr>
</tbody>
</table>

Above codes are specific for vessel (e.g., carotid, MCA) and laterality (right, left). Use both right and left codes when bilateral disease exists.

Occlusion and Stenosis Without Infarction (I65 and I66 Codes)

Clinical Documentation Improvement Tips

Precerebral Artery: I65.-

#1 State specific ARTERY
- Vertebral
- Basilar
- Carotid

#2 State LATERALITY
- Right
- Left
- Bilateral

Cerebral Artery: I66.-

#1 State specific ARTERY
- Middle cerebral
- Anterior cerebral
- Posterior cerebral
- Cerebellar
- Other

#2 State LATERALITY
- Right
- Left
- Bilateral code exists
Venous Thrombosis and Embolism: I82.-

<table>
<thead>
<tr>
<th>ICD-9-CM (24 codes)</th>
<th>ICD-10-CM (57 codes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute and chronic</td>
<td>Acute and chronic</td>
</tr>
<tr>
<td>Deep proximal: lower and upper extremity</td>
<td>Deep proximal: by specific vessel and left or right</td>
</tr>
<tr>
<td>Deep distal: lower and upper extremity</td>
<td>Deep distal: by specific vessel and left or right</td>
</tr>
</tbody>
</table>

Clinical Documentation Tips

Venous Stenosis

Do NOT Say: Thrombus iliac vein (I82.429, unspecified)

DO Say: Acute thrombus of the right iliac vein (I82.421)
### Varicose Veins: (I83)

<table>
<thead>
<tr>
<th>ICD-9-CM (5 codes)</th>
<th>ICD-10-CM (57 codes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>By symptom: ulcer, inflammation, ulcer and inflammation, other (pain, swelling, edema)</td>
<td>By symptom: ulcer, inflammation, ulcer and inflammation, pain, other (now includes edema or swelling)</td>
</tr>
<tr>
<td></td>
<td>Location: lower extremity, right, left</td>
</tr>
<tr>
<td></td>
<td>If ulcer: specific location and severity of ulcer</td>
</tr>
</tbody>
</table>

### Varicose Veins (I83)

#### Clinical Documentation Improvement Tips

**#1 State Clinical SYMPTOM**
- Ulcer
- Inflammation
- Ulcer and inflammation
- Pain
- Other complication
- Asymptomatic
- Other

**#2 State LOCATION and LATERALITY**
- Left
- Right
- Bilateral

**#3 If Ulcer present, state clinical characteristics**
- Limited to skin breakdown
- Fat layer exposed
- Necrosis of muscle
- Necrosis of bone

**Do NOT Say:** Varicose veins with pain and swelling . (I83.899, unspecified location)

**DO Say:** Bilateral varicose veins with pain and swelling . (I83.893)
Some “Old Standbys” Still Exist!

**Dx: Peripheral Vascular Disease**

<table>
<thead>
<tr>
<th>ICD-9-CM</th>
<th>ICD-10-CM</th>
</tr>
</thead>
<tbody>
<tr>
<td>443.9</td>
<td>Peripheral Vascular Disease, unspecified</td>
</tr>
<tr>
<td>173.9</td>
<td>Peripheral Vascular Disease, unspecified</td>
</tr>
</tbody>
</table>

**Tip:** ICD-10 says I73.9 for a diagnosis of intermittent claudication

---

**Intraoperative Complications**

<table>
<thead>
<tr>
<th>ICD-10-CM</th>
<th>Descriptor</th>
<th>ICD-9-CM</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>I97.418</td>
<td>Intraoperative hemorrhage and hematoma of a circulatory system structure complicating a circulatory system procedure</td>
<td>998.11</td>
<td>Hemorrhage complicating a procedure</td>
</tr>
<tr>
<td>I97.42</td>
<td>Intraoperative hemorrhage and hematoma of a circulatory system structure complicating other procedure</td>
<td>998.12</td>
<td>Hematoma complicating a procedure</td>
</tr>
<tr>
<td>I97.518</td>
<td>Accidental puncture and laceration of a circulatory system structure during a circulatory system procedure</td>
<td>998.11</td>
<td>Hemorrhage complicating a procedure</td>
</tr>
<tr>
<td>I97.618</td>
<td>Accidental puncture and laceration of a circulatory system structure during other procedure</td>
<td>998.2</td>
<td>Accidental puncture or laceration during a procedure, not elsewhere classified</td>
</tr>
</tbody>
</table>
## Intraoperative Complications

### Postoperative Complications (I97.-)

<table>
<thead>
<tr>
<th>ICD-10-CM</th>
<th>Descriptor</th>
<th>ICD-9-CM</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>I97.711</td>
<td>Intraoperative cardiac arrest during other surgery</td>
<td>997.09</td>
<td>Cardiac complications NEC</td>
</tr>
<tr>
<td>I97.811</td>
<td>Intraoperative cerebrovascular accident during other surgery</td>
<td>997.02</td>
<td>Iatrogenic cerebrovascular infarct/hemorrhage</td>
</tr>
<tr>
<td>I97.88</td>
<td>Other intraoperative complications and disorders of the circulatory system</td>
<td>997.99</td>
<td>Complications affecting other specified body systems, not elsewhere classified</td>
</tr>
</tbody>
</table>

---

## Postoperative Complications

### Postoperative Complications (I97.-)

<table>
<thead>
<tr>
<th>ICD-10-CM</th>
<th>Descriptor</th>
<th>ICD-9-CM</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>I97.618</td>
<td>Postprocedural hemorrhage and hematoma of a circulatory system structure following a circulatory system procedure</td>
<td>998.11</td>
<td>Hemorrhage complicating a procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>998.12</td>
<td>Hematoma complicating a procedure</td>
</tr>
<tr>
<td>I97.62</td>
<td>Postprocedural hemorrhage and hematoma of a circulatory system structure following other procedure</td>
<td>998.11</td>
<td>Hemorrhage complicating a procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>998.12</td>
<td>Hematoma complicating a procedure</td>
</tr>
<tr>
<td>I97.89</td>
<td>Other postprocedural complications and disorders of the circulatory system, NEC</td>
<td>997.99</td>
<td>Complications affecting other specified body systems, not elsewhere classified</td>
</tr>
</tbody>
</table>
Chapter 9: Circulatory Diseases

- Complications (I97) Examples
  - You are called to the OP to repair an artery accidentally lacerated during a colectomy
    - I97.42 Accidental puncture and laceration of a circulatory system organ or structure during other procedure
  - You take your bypass patient back to the OR one day post op to control a bleeding vessel
    - I97.618 Postprocedure hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure
Chapter 19: Injuries

Chapter Organization

S00-T88

<table>
<thead>
<tr>
<th>Category</th>
<th>Etiology, Anatomic Site, Severity</th>
<th>Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>S or T</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chapter 19: Injuries

7th Character Extension for Non-Fracture

3 options for 7th Character

A - initial encounter
D - subsequent encounter
S - sequela
Defining Initial/Subsequent/Sequela

Initial Encounter (A) = In Active Treatment

*Examples include:* surgical treatment, emergency department encounter and evaluation and **continuing** treatment by a new or the same physician. *(2015 guideline update!)*

---

Defining Initial/Subsequent/Sequela

Subsequent Encounter (D) = In Healing or Recovery Phase

*Examples include:* cast change or removal, **an x-ray to check healing status of fracture,** removal of external or internal fixation device, medication adjustment, other aftercare and follow up visits following treatment of the injury or condition.
Defining Initial/Subsequent/Sequela

Sequela (S) = Late effect, residual effect of a prior condition but not a complication

Examples include: scar formation resulting from a burn, deviated septum due to nasal fracture, infertility due to tubal occlusion from prior disease.

ICD-10-CM: Placeholder “X”

\[ \sqrt{x} \text{ 7th} \]

This notation listed before the code will indicate the codes needs “X” in the empty character positions to append the 7th character extension.

\[ \sqrt{7\text{th}} \]

This notation listed before the code will indicate it needs a 7th character extension.
### Using the 7th Character

<table>
<thead>
<tr>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>S75. 021A Major laceration of femoral artery, right leg, initial encounter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7th Character Extensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = initial encounter</td>
</tr>
<tr>
<td>D = subsequent encounter</td>
</tr>
<tr>
<td>S = sequela</td>
</tr>
</tbody>
</table>

### Using the 7th Character

<table>
<thead>
<tr>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>S35. 02XA Major laceration of abdominal aorta, initial encounter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7th Character Extensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = initial encounter</td>
</tr>
<tr>
<td>D = subsequent encounter</td>
</tr>
<tr>
<td>S = sequela</td>
</tr>
</tbody>
</table>
ICD-10-CM: 7th Character

Codes that require a seventh character include:

- Any injury – minor to major (S Codes)
- Mechanical and Inflammatory Complications (T Codes)
  - For example, complications of vascular grafts, central lines, peritoneal catheters, etc

Chapter 19: Injuries

OVERALL CODE STRUCTURE (S00-S99)
Chapter 19: Injuries

- Type of injury
  - 0 = superficial injury
  - 1 = open wound
  - 2 = fracture
  - 3 = dislocation
  - 4 = nerve
  - 5 = blood vessel injury
  - 6 = muscle/ tendon
  - 7 = crushing injury
  - 9 = other

Neck Injuries

Code Structure – Blood Vessels of the Neck (S15.-)
**Neck Injuries: Blood Vessels of Neck (S15 Codes)**

**Clinical Documentation Improvement Tips**

**#1 State specific VESSELS**
- Carotid
- Vertebral
- External jugular
- Internal jugular
- Other

**#2 State TYPE of LACERATION**
- Minor, major or unspecified

**#3 State LATERALITY**
- LEFT
- RIGHT

**#4 State (or imply) phase of HEALING PROCESS (directs the 7th character)**
- Initial encounter – active treatment
- Subsequent encounter – recovery phase
- Sequela

---

**Do NOT Say: Carotid laceration**
Code: S15.009 Unspecified laceration of unspecified carotid artery (A or D)

**DO Say: Minor laceration of the right carotid or incomplete transection of the right carotid**
Correct code: S15.011 (A or D)

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**Thoracic Injuries**

**Code Structure – Blood Vessels of Thorax (S25.-)**

- Injury
- Thorax
- Vessel Injury
- Specific Vessel
- Type of Injury
- Laterality

- Category
- Etiology, Anatomic Site, Severity
- Extension

Correct code: S25.009 Unspecified laceration of unspecified vessel of thorax (A or D)
Thoracic Blood Vessel Injury (S25.-)

Clinical Documentation Improvement Tips

Do NOT Say: Laceration vena cava

DO Say: Major laceration vena cava

#1 State VESSEL
- Thoracic aorta
- Inominate or subclavian artery
- Superior vena cava
- Inominate or subclavian vein
- Pulmonary vessel
- Intercostal
- Other

#2 State TYPE of laceration
- Minor
- Major

#3 State LATERALITY, as appropriate
- Left
- Right
- No bilateral

#4 State (or imply) phase of HEALING PROCESS (directs the 7th character)
- Initial encounter
- Subsequent encounter
- Sequela

Abdominal/Pelvic Injuries

Code Structure – Blood Vessel at Abdomen, Lower Back, and Pelvis Level (S35.-)

Abdomen/Lower Back
Lumbar Spine/Pelvis

Vessel injury
Specific vessel
Type of injury
Other Documentation Needs

Injury

Category
Etiology,
Anatomic Site,
Severity
Extension

A, D or S

S 3 5
Abdominal, Lumbar, Pelvis (S45.-)

Clinical Documentation Improvement Tips

#1 State VESSEL
- Abdominal aorta
- Inferior vena cava
- Celiac or SMA
- Inferior mesenteric
- Branches of celiac and MSA
- Portal or splenic vein
- Renal artery or vein
- Iliac
- Other

#2 State TYPE of laceration
- Minor
- Major

#3 State LATERALITY, as appropriate
- Left
- Right
- No bilateral

#4 State (or imply) phase of HEALING PROCESS (directs the 7th character)
- Initial encounter
- Subsequent encounter
- Sequela

Do NOT Say: Laceration of renal artery
DO Say: Minor laceration right renal artery

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Injury Coding

Similar Blood Vessel Injury Coding for Other Anatomic Areas
Chapter 19: Complications (S00-T88)
All will require a 7th character!

- Infections and Wound Disruption (996.- in ICD-9)
  - T81.4XXA Infection following a procedure (not elsewhere classified)
  - T82.7XXA Infection/inflammatory reaction to cardiac/vascular device/implant
  - T81.31XA Surgical Wound dehiscence (external)
  - T81.32XA Surgical wound disruption (internal)

Other Complications (T codes)
All will require a 7th character!

- T82.3 Breakdown (Mechanical) of other vascular grafts
  - Aortic bifurcation graft
  - Carotid arterial graft
  - Femoral arterial graft
  - Unspecified vascular graft
    - Specific codes for breakdown, displacement, leakage, other (other=obstruction, perforation, protrusion)
Other Complications (T codes)
All will require a 7th character!

- T82.4- Mechanical complications of vascular dialysis catheters
  - For each category- specific codes for breakdown, displacement, leakage, other (other=obstruction, perforation, protrusion)

- T82.5- Mechanical complications of other vascular devices
  - Surgically created AV fistula
  - Surgically created AV graft
  - Infusion catheter
  - Umbrella device
  - Other
    - For each category- specific codes for breakdown, displacement, leakage, other (other=obstruction, perforation, protrusion)

Other Complications (T codes)
All will require a 7th character!

- T82.8– Other specified complications of other vascular devices, implants, grafts
  - T82.818 Embolism
  - T82.838 Hemorrhage
  - T82.848 Pain
  - T82.858 Stenosis
  - T82.868 Thrombosis
  - T82.898 Other
WHAT NOW?? NEXT STEPS.

IDENTIFY YOUR TOP 20-25 PRIMARY ICD-9 CODES
### ICD-9-CM Frequency Report

#### 20-25 Top Most Used ICD-9-CM Codes

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Diagnosis Description</th>
<th>Volume</th>
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<tbody>
<tr>
<td>585.5</td>
<td>End stage renal disease</td>
<td>2,741</td>
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<tr>
<td>454.8</td>
<td>Varicose veins of leg, w/complications NEC</td>
<td>1,862</td>
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<tr>
<td>440.21</td>
<td>Atherosclerosis native artery w/claudication</td>
<td>1,730</td>
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<td>433.10</td>
<td>Occlusion carotid artery w/o infarct</td>
<td>1.711</td>
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<tr>
<td>459.81</td>
<td>Venous insufficiency NOS</td>
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<td>441.4</td>
<td>Abdominal aorta aneurysm</td>
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<td>443.9</td>
<td>Peripheral vascular disease, NOS</td>
<td>998</td>
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<tr>
<td>996.73</td>
<td>Complication of renal dialysis device graft</td>
<td>852</td>
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</tbody>
</table>
ICD-9 to ICD-10 Mapping

ICD-9 Code

ICD-10 Code and Description

Potential Documentation Gaps

Create A List of Your “Favorites”

→ EHR- develop favorite “pick list”

→ Cheat sheets: create reference guides by physician
DUAL CODE: ICD-9-CM AND ICD-10-CM

USING YOUR EMR
UNDERSTAND THE LIMITATIONS!!
THANK YOU

Teri Romano
RN, MBA, CPC, CMDP

www.karenzupko.com
312.642.5616

information@karenzupko.com
@KarenZupkoAssoc
karenzupkoandassociates