ICD-9-CM
for Physicians – Volumes 1 & 2

2014 Expert

International Classification of Diseases
9th Revision
Clinical Modification
Sixth Edition

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Optum is committed to providing you with the ICD-9-CM code update information you need to code accurately and to be in compliance with HIPAA regulations. In case of adoption of additional ICD-9-CM code changes effective April 1, 2014, Optum will provide these code changes to you at no additional cost! Just check back at www.optumcoding.com/productalerts to review the latest information concerning any new code changes.

Codes Valid October 1, 2013, through September 30, 2014
421 Acute and subacute endocarditis
Endocarditis (acute or subacute)
Bacterial endocarditis
Infective endocarditis
Always code bacterial endocarditis (421.0-421.9).
Primary or subacute bacterial endocarditis in diseases classified elsewhere
Acute endocarditis, unspecified
Acute or subacute (interstitial) myocarditis
Acute or subacute myocarditis
421.0 Acute and subacute bacterial endocarditis
Endocarditis (acute or subacute)
Bacterial endocarditis
Infective endocarditis
Use additional code to identify infectious organism [e.g., Streptococcus 041.0, Staphylococcus 041.1]
Bacterial endocarditis (421.0-421.9)
Acute endocarditis, unspecified
Acute or subacute (interstitial) myocarditis
Acute or subacute myocarditis
421.1 Adhesive pericarditis
Adhesive pericarditis
421.2 Constrictive pericarditis
Constrictive pericarditis
421.3 Cardiac tamponade
Cardiac tamponade
421.4 Pericardial effusion
Pericardial effusion
421.5 Other diseases of pericardium
Other diseases of pericardium
421.6 Mitral valve disorders
Mitral valve disorders
421.7 Other diseases of aortic valve
Other diseases of aortic valve
421.8 Other diseases of aortic valve
Other diseases of aortic valve
421.9 Other specified diseases of aortic valve
Other specified diseases of aortic valve
421.91 Other specified diseases of aortic valve
Other specified diseases of aortic valve
421.99 Other specified diseases of aortic valve
Other specified diseases of aortic valve
422 Other diseases of pericardium
Other diseases of pericardium
422.0 Hemopericardium
Hemopericardium
422.1 Adhesive pericarditis
Adhesive pericarditis
422.2 Constrictive pericarditis
Constrictive pericarditis
422.3 Cardiac tamponade
Cardiac tamponade
422.4 Pericardial effusion
Pericardial effusion
422.5 Other diseases of pericardium
Other diseases of pericardium
422.6 Mitral valve disorders
Mitral valve disorders
422.7 Other diseases of aortic valve
Other diseases of aortic valve
422.8 Other specified diseases of aortic valve
Other specified diseases of aortic valve
422.9 Other specified diseases of aortic valve
Other specified diseases of aortic valve
422.91 Toxic myocarditis
Toxic myocarditis
422.99 Other
Other
423 Other diseases of aortic valve
Other diseases of aortic valve
423.0 Hemopericardium
Hemopericardium
423.1 Adhesive pericarditis
Adhesive pericarditis
423.2 Adhesive pericarditis
Adhesive pericarditis
423.3 Simple pericarditis
Simple pericarditis
423.4 Chronic pericarditis
Chronic pericarditis
423.5 Ruptured pericardium
Ruptured pericardium
423.6 Pericardial effusion
Pericardial effusion
423.7 Other diseases of pericardium
Other diseases of pericardium
423.8 Other diseases of aortic valve
Other diseases of aortic valve
423.99 Other specified diseases of aortic valve
Other specified diseases of aortic valve
424 Other diseases of endocardium
Other diseases of endocardium
424.0 Mitral valve disorders
Mitral valve disorders
424.1 Adhesive mitral valve disorder
Adhesive mitral valve disorder
424.2 Mitral valve insufficiency
Mitral valve insufficiency
424.3 Mitral valve stenosis
Mitral valve stenosis
424.4 Other valve disorders
Other valve disorders
424.5 Other specified diseases of mitral valve
Other specified diseases of mitral valve
424.9 Other specified diseases of mitral valve
Other specified diseases of mitral valve
425 Other specified diseases of aortic valve
Other specified diseases of aortic valve
425.0 Other specified diseases of aortic valve
Other specified diseases of aortic valve
425.1 Other specified diseases of aortic valve
Other specified diseases of aortic valve
426 Other diseases of endocardium
Other diseases of endocardium
426.0 Endocarditis (infective)
Endocarditis (infective)
426.1 Rheumatic endocarditis
Rheumatic endocarditis
426.2 Other specified diseases of endocardium
Other specified diseases of endocardium
426.99 Other specified diseases of endocardium
Other specified diseases of endocardium
### 432.0 Nontraumatic extradural hemorrhage

- **Nontraumatic epidural hemorrhage**
  - DEF: Bleeding, nontraumatic, between skull and brain tissue.

### 432.1 Subdural hemorrhage

- **Subdural hematoma, nontraumatic**
  - DEF: Bleeding, between epxadermum and other layers of brain tissue.

### 432.9 Other and unspecified intracranial hemorrhage

- The following 5th-digit subclassification is for use with category 432:
  - 0 without mention of cerebral infarction
  - 1 with cerebral infarction

- **Thrombosis of cerebral arteries**
  - AHA: Use additional code, if applicable, to identify status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility (V45.89).

### 433 Occlusion and stenosis of precerebral arteries

- **Occlusion and stenosis of basilar artery**
  - AHA: For code 433.01:
    - 4Q, '04, 77; 4Q, '99, 3
    - N-D, '85, 12
  - DEF: Blockage, obstruction, arteries branching into brain.

- **Occlusion and stenosis of internal carotid artery**
  - AHA: For code 433.02:
    - 4Q, '04, 77-78; 4Q, '98, 87
    - N-D, '85, 12
  - DEF: Blockage, obstruction, arteries branching into brain.

### 434 Cerebral embolism

- **Cerebral embolism**
  - AHA: Use additional code, if applicable, to identify status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility (V45.89).

### 436 Acute, but ill-defined, cerebrovascular disease

- **Acute, but ill-defined, cerebrovascular disease**
  - AHA: For code 436.01:
    - 4Q, '04, 77; 3Q, '97, 11
    - N-D, '85, 12
  - DEF: Temporary restriction of blood flow to arteries branching into brain.

### 437 Other and ill-defined cerebrovascular disease

- **Other and ill-defined cerebrovascular disease**
  - AHA: For code 437.01:
    - 4Q, '04, 77; 3Q, '97, 11
    - N-D, '85, 12
  - DEF: Other and ill-defined cerebrovascular disease.
### Liveborn Infants According to Type of Birth (V30-V39)

These categories are intended for the coding of liveborn infants who are consuming health care (e.g., crib or bassinet occupancy).

#### V30 Single liveborn

- Born in hospital
- Born before admission to hospital
- Born outside hospital and not hospitalized

The following two fifth-digits are for use with the fourth-digit 0, Born in hospital.

- Delivered without mention of cesarean delivery
- Delivered by cesarean delivery

#### V31 Twin, mate liveborn

- Born in hospital
- Born before admission to hospital

#### V32 Twin, mate stillborn

- Born in hospital
- Born before admission to hospital

#### V33 Twin, unspcialized

- Born in hospital
- Born before admission to hospital

#### V34 Other multiple, mates all liveborn

- Born in hospital
- Born before admission to hospital

#### V35 Other multiple, mates all stillborn

- Born in hospital
- Born before admission to hospital

#### V36 Other multiple, mates live and stillborn

- Born in hospital
- Born before admission to hospital

#### V37 Other multiple, unspecified

- Born in hospital
- Born before admission to hospital

#### V39 Unspecified

- Born in hospital
- Born before admission to hospital

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### Persons with a Condition Influencing their Health Status (V40-V49)

These categories are intended for use when these conditions are recorded as “diagnoses” or “problems.”

TP (Do not assign if the patient has a complication of the transplanted organ; the code from subcategory 996.8 provides the information.)

V40 Mental and behavioral problems

#### V40.0 Problems with learning

TP: Includes patients with a learning problem who have sequelae or residual of past conditions or disease, which may affect current or future treatment.

V41 Problems with special senses and other special functions

#### V41.0 Problems with sight

#### V41.1 Other eye problems

#### V41.2 Problems with hearing

#### V41.3 Other ear problems

#### V41.4 Problems with voice production

#### V41.5 Problems with smell and taste

#### V41.6 Problems with swallowing and mastication

#### V41.7 Problems with special senses

#### V41.8 Other problems with special functions

#### V41.9 Unspecified problem with special functions

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### Organ or tissue replaced by transplant

- Includes: Amnion or chorion (amnion) (human) transplant organ status

#### V42.0 Heart valve

TP: Do not assign if the patient has a complication of the transplanted organ; the code from subcategory 996.8 provides the information.

#### V42.2 Liver

TP: Do not assign if the patient has a complication of the transplanted organ; the code from subcategory 996.8 provides the information.

#### V42.3 Skin

#### V42.4 Bone

#### V42.5 Cornea

#### V42.6 Lung

#### V42.7 Liver

TP: Do not assign if the patient has a complication of the transplanted organ; the code from subcategory 996.8 provides the information.

#### V42.8 Other specified organ or tissue

TP: Do not assign if the patient has a complication of the transplanted organ; the code from subcategory 996.8 provides the information.

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### Tabular List

#### V28.6–V42.83 V Codes

1 A code from the V30-V39 series may be sequenced before the V29 on the newborn medical record. Requires 8th and 9th digit. See beginning of section V20.00 for codes and definitions.
2 A code from the V30-V39 series may be sequenced before the V29 on the newborn medical record. Requires Health and fifth digit. See beginning of section V20.00 for codes and definitions.
### Diabetes (brittle (congenital)) (familial) (mellitus) (severe) (slight)

<table>
<thead>
<tr>
<th>Type I</th>
<th>Type II or unspecified type. The codes found in these columns are for use even if the patient requires insulin.</th>
<th>Additional Code Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controlled or not stated as uncontrolled</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Condition</th>
<th>Code 1</th>
<th>Code 2</th>
<th>Code 3</th>
<th>Code 4</th>
<th>Code 5</th>
<th>Other Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without complication or manifestation</td>
<td>250.01</td>
<td>250.03</td>
<td>250.00</td>
<td>250.02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With complication or manifestation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>coma (ketoacidosis)</td>
<td>250.31</td>
<td>250.33</td>
<td>250.30</td>
<td>250.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- hypoglycemia</td>
<td>250.21</td>
<td>250.23</td>
<td>250.20</td>
<td>250.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>complication NOS</td>
<td>250.91</td>
<td>250.93</td>
<td>250.90</td>
<td>250.92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- specified NEC</td>
<td>250.81</td>
<td>250.83</td>
<td>250.80</td>
<td>250.82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>gangrene</td>
<td>250.71</td>
<td>250.73</td>
<td>250.70</td>
<td>250.72</td>
<td></td>
<td></td>
</tr>
<tr>
<td>hyperosmolarity</td>
<td>250.21</td>
<td>250.23</td>
<td>250.20</td>
<td>250.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ketosis, ketoacidosis</td>
<td>250.11</td>
<td>250.13</td>
<td>250.10</td>
<td>250.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>neuropathy</td>
<td>250.81</td>
<td>250.83</td>
<td>250.80</td>
<td>250.82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- unspecified NEC</td>
<td>250.81</td>
<td>250.83</td>
<td>250.80</td>
<td>250.82</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Abnormal glucose NOS               |        |        |        |        | 353.1 |
| non-fasting                        |        |        |        |        | 443.81 |
| fasting                            |        |        |        |        | 362.01 |
| tolerance test                     |        |        |        |        | 713.5 |
| Abnormal glucose tolerance test (GTT), elevated glucose tolerance test |        |        |        |        | 337.1 |
| Acetonemia                          | 250.11 | 250.13 | 250.10 | 250.12 |
| Acidosis                            | 250.11 | 250.13 | 250.10 | 250.12 |
| Amyotrophy                          | 250.61 | 250.63 | 250.60 | 250.62 |
| Angiopathy (peripheral)             | 250.71 | 250.73 | 250.70 | 250.72 |
| - retinopathy (diabetic)            | 250.31 | 250.33 | 250.30 | 250.32 |
| - ketosis, ketoacidosis             | 250.11 | 250.13 | 250.10 | 250.12 |
| - neuropathy (Charcot's)            | 250.61 | 250.63 | 250.60 | 250.62 |
| - unspecified NEC                   | 250.81 | 250.83 | 250.80 | 250.82 |
| Asymptomatic elevated (abnormal glucose) |        |        |        |        | 366.41 |
| Ataxia, ataxic, ataxic, locomotor (progressive) |        |        |        |        | 366.41 |
| Autonomic neuropathy (peripheral)   | 250.61 | 250.63 | 250.60 | 250.62 |
| Bone change                         | 250.81 | 250.83 | 250.80 | 250.82 |
| Bronze, bronzed                     |        |        |        |        | 713.5 |
| Cataract diabetic                   | 250.51 | 250.53 | 250.50 | 250.52 |
| - non-diabetic                     | 250.01 | 250.03 | 250.00 | 250.02 |
| - snowflake                         | 250.51 | 250.53 | 250.50 | 250.52 |
| Charcot's joint (diabetic)          | 250.61 | 250.63 | 250.60 | 250.62 |
| Chemical                            |        |        |        |        | 713.5 |
| Come (with ketoacidosis)             | 250.31 | 250.33 | 250.30 | 250.32 |
| - hypoglycemia                      | 250.21 | 250.23 | 250.20 | 250.22 |
| - unspecified NEC                   | 250.31 | 250.33 | 250.30 | 250.32 |
| - unspecified NEC                   | 250.31 | 250.33 | 250.30 | 250.32 |
| Cysticasis                          | 250.31 | 250.33 | 250.30 | 250.32 |
| Edema                               | 250.21 | 250.23 | 250.20 | 250.22 |
| Glomerulonephritis                  | 250.81 | 250.83 | 250.80 | 250.82 |
| Glucose metabolism                  |        |        |        |        | 709.8 |
| Dietary supervision                 |        |        |        |        | V65.3 |
| Diabetes                           | 250.41 | 250.43 | 250.40 | 250.42 |
| - insulin                          | 250.41 | 250.43 | 250.40 | 250.42 |
| - unspecified episode of care       | 250.41 | 250.43 | 250.40 | 250.42 |
| - unspecified episode of care       | 250.41 | 250.43 | 250.40 | 250.42 |
| Diabetes mellitus                   |        |        |        |        | V65.67 |
| Glaucoma                            | 250.51 | 250.53 | 250.50 | 250.52 |
| Glucose metabolism                  |        |        |        |        | 365.44 |
| Gestational diabetes                |        |        |        |        | 581.81 |
| Glioma                               |        |        |        |        | 581.81 |

**Type I Diabetes (mellitus)**

1. **ICD-9-CM**
2. **Resources**
ICD-10-CM Coding and Documentation Proficiency
Self-Assessment

Introduction
This self-assessment covers ICD-10-CM coding guidance and the required level of detail for clinical documentation of heart disease, diabetes, and pneumonia. These high-volume diagnoses have numerous coding guidelines and documentation requirements. The assessment also covers ICD-10-CM conventions that are new or problematic. Use this self-assessment to identify the areas that may require additional coding training or documentation improvement before ICD-10-CM is implemented on October 1, 2014.

Instructions
Code assignments are based upon the 2012 ICD-10-CM diagnosis code set for all reportable diagnoses, including external causes of morbidity (V00–Y99), as appropriate, according to the instructions in ICD-10-CM conventions and the 2012 ICD-10-CM Draft Official Guidelines for Coding and Reporting. Answer each question based on the information provided. Note that for some questions, the codes in the answer are not based upon the information provided, requiring that the provider be queried for specific information because the documentation is insufficient to assign codes correctly.

Self-Assessment Questions

1. In ICD-10-CM what are the two anatomical classifications of pneumonia and the sites of the lung affected by each?

   - A Assign J18.9 Pneumonia, unspecified organism.
   - B Documentation does not follow guidelines and/or the physician must be queried to determine the following:
     - Clinical significance of the chest x-ray
     - Clinical significance of the sputum results

3. What is the appropriate diagnosis code assignment(s) for ESRD due to type I diabetes on chronic dialysis via right arm AV shunt and hypertension as documented by the provider?
   Code assignment:___________________________

4. Assign the appropriate code(s) for a patient diagnosed by the provider of pneumonia as documented in the admission note by the resident?
   Code assignment:___________________________

5. Assign the appropriate code(s) for a diagnosis by the provider of ischemic heart disease and coronary artery disease without history of coronary bypass and current smoker.
   Code assignment:___________________________

6. Assign the appropriate code(s) for a patient diagnosed by the provider with community-acquired pneumonia who presented with hemoptysis, productive cough, fever, and an increased respiratory rate with sputum culture stain showing gram-negative bacilli.
   Code assignment:___________________________

   A Assign J95.851 Ventilator associated pneumonia, B96.1 Klebsiella pneumoniae [X. pneumoniae] as the cause of diseases classified elsewhere, and Z99.11 Dependence on respirator (ventilator) status.
   B Documentation does not follow guidelines and/or the physician must be queried to determine the following:
     - Clinical significance of the sputum results
     - Pneumonia: present on admission or post admission

8. Assign the appropriate diagnosis code(s) for diabetes II with Charcot joint, left hallux with ulcer, with dry gangrene and with chronic osteomyelitis. The patient is admitted for amputation due to osteomyelitis documented in the surgeon’s admission note.
   Code assignment:___________________________

9. What is the appropriate code assignment for a diagnosis of ischemic cardiomyopathy and coronary artery disease, as documented by the provider?
   Code assignment:___________________________

10. Discharge summary: Patient was admitted from the ED for work-up of precordial chest pain, elevated troponin history of CABG, congestive heart failure, hypertension. Final diagnosis: ASCAD with USA, s/p CABG, CHF. Most recent diagnostic left heart catheterization showed clean vein and mammary grafts with 90% atherosclerotic stenosis of the native LAD portion. Plans are for future coronary angioplasty as an outpatient. Continue Lasix, Norvasc, and Nitrendipine.
    A Assign I25.110 Atherosclerotic heart disease of native coronary artery with unstable angina, I11.9 Hypertensive heart disease without heart failure, I50.9 Heart failure, unspecified, 295.1 Presence of aortocoronary bypass graft.
    B Documentation does not follow guidelines and/or the physician must be queried to determine the following:
      - Description of relationship between the hypertension and congestive heart failure
      - Type of congestive heart failure

11. What is the appropriate diagnosis code assignment for the postobstructive pneumonia, right middle lobe, due to hilar lung cancer right lobe when the treatment is directed only toward the pneumonia as documented in the admission note by the resident?
    Code assignment:___________________________