

# ICD-10-CM Tabular List of Diseases and Injuries

## Chapter 1. Certain Infectious and Parasitic Diseases (A00–B99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Human immunodeficiency virus (HIV) infections

##### 1) Code only confirmed cases

Code only confirmed cases of HIV infection/illness. This is an exception to the hospital inpatient guideline Section II, H.

In this context, “confirmation” does not require documentation of positive serology or culture for HIV; the provider’s diagnostic statement that the patient is HIV positive, or has an HIV-related illness is sufficient.

Patient admitted with anemia with possible HIV infection

##### **D64.9 Anemia, unspecified**

*Explanation:* Only the anemia is coded in this scenario because it has not been confirmed that an HIV infection is present. This is an exception to the guideline Section II, H for hospital inpatient coding.

##### 2) Selection and sequencing of HIV codes

###### (a) Patient admitted for HIV-related condition

If a patient is admitted for an HIV-related condition, the principal diagnosis should be B20, Human immunodeficiency virus [HIV] disease followed by additional diagnosis codes for all reported HIV-related conditions.

HIV with PCP

##### **B20 Human immunodeficiency virus [HIV] disease**

##### **B59 Pneumocystosis**

*Explanation:* Pneumonia due to *Pneumocystis carinii* is an HIV related condition, so the HIV diagnosis code is reported first, followed by the code for the pneumonia.

###### (b) Patient with HIV disease admitted for unrelated condition

If a patient with HIV disease is admitted for an unrelated condition (such as a traumatic injury), the code for the unrelated condition (e.g., the nature of injury code) should be the principal diagnosis. Other diagnoses would be B20 followed by additional diagnosis codes for all reported HIV-related conditions.

Unstable angina, native coronary artery atherosclerosis, HIV

##### **I25.110 Atherosclerotic heart disease of native coronary artery with unstable angina pectoris**

##### **B20 Human immunodeficiency virus [HIV] disease**

*Explanation:* The arteriosclerotic coronary artery disease and the unstable angina are not related to HIV, so those conditions are reported first using a combination code, and HIV is reported secondarily.

###### (c) Whether the patient is newly diagnosed

Whether the patient is newly diagnosed or has had previous admissions/encounters for HIV conditions is irrelevant to the sequencing decision.

Newly diagnosed multiple cutaneous Kaposi’s sarcoma lesions in previously diagnosed HIV disease.

##### **B20 Human immunodeficiency virus [HIV] disease**

##### **C46.0 Kaposi’s sarcoma of skin**

*Explanation:* Even though the HIV was diagnosed on a previous encounter, it is still sequenced first when coded with an HIV related condition. Kaposi’s sarcoma is an HIV-related condition.

###### (d) Asymptomatic human immunodeficiency virus

Z21, Asymptomatic human immunodeficiency virus [HIV] infection status, is to be applied when the patient without any documentation of symptoms is listed as being “HIV positive,” “known HIV,” “HIV test

positive,” or similar terminology. Do not use this code if the term “AIDS” is used or if the patient is treated for any HIV-related illness or is described as having any condition(s) resulting from his/her HIV positive status; use B20 in these cases.

Patient admitted for aftercare and rehabilitation post-appendectomy for acute appendicitis; status post-positive HIV test on Atripla, with no prior or current symptoms

##### **Z48.815 Encounter for surgical aftercare following surgery on the digestive system**

##### **Z21 Asymptomatic human immunodeficiency virus [HIV] infection status**

*Explanation:* Code Z21 is used to document that the patient has had a positive HIV test but has been asymptomatic. Being on medication for HIV does not indicate that the infection is active and B20 Human immunodeficiency virus [HIV] disease, should not be assigned unless there is documentation that the patient has had *current or prior* symptoms or HIV-related complications. The aftercare being provided post-appendectomy is sequenced first.

###### (e) Patients with inconclusive HIV serology

Patients with inconclusive HIV serology, but no definitive diagnosis or manifestations of the illness, may be assigned code R75, Inconclusive laboratory evidence of human immunodeficiency virus [HIV].

###### (f) Previously diagnosed HIV-related illness

Patients with any known prior diagnosis of an HIV-related illness should be coded to B20. Once a patient has developed an HIV-related illness, the patient should always be assigned code B20 on every subsequent admission/encounter. Patients previously diagnosed with any HIV illness (B20) should never be assigned to R75 or Z21, Asymptomatic human immunodeficiency virus [HIV] infection status.

###### (g) HIV infection in pregnancy, childbirth and the puerperium

During pregnancy, childbirth or the puerperium, a patient admitted (or presenting for a health care encounter) because of an HIV-related illness should receive a principal diagnosis code of O98.7-, Human immunodeficiency [HIV] disease complicating pregnancy, childbirth and the puerperium, followed by B20 and the code(s) for the HIV-related illness(es). Codes from Chapter 15 always take sequencing priority.

Patients with asymptomatic HIV infection status admitted (or presenting for a health care encounter) during pregnancy, childbirth, or the puerperium should receive codes of O98.7- and Z21.

###### (h) Encounters for testing for HIV

If a patient is being seen to determine his/her HIV status, use code Z11.4, Encounter for screening for human immunodeficiency virus [HIV]. Use additional codes for any associated high risk behavior.

If a patient with signs or symptoms is being seen for HIV testing, code the signs and symptoms. An additional counseling code Z71.7, Human immunodeficiency virus [HIV] counseling, may be used if counseling is provided during the encounter for the test.

When a patient returns to be informed of his/her HIV test results and the test result is negative, use code Z71.7, Human immunodeficiency virus [HIV] counseling.

If the results are positive, see previous guidelines and assign codes as appropriate.

#### b. Infectious agents as the cause of diseases classified to other chapters

Certain infections are classified in chapters other than Chapter 1 and no organism is identified as part of the infection code. In these instances, it is necessary to use an additional code from Chapter 1 to identify the organism. A code from category B95, Streptococcus, Staphylococcus, and Enterococcus as the cause of diseases classified to other chapters, B96, Other bacterial agents as the cause of diseases classified to other chapters, or B97, Viral agents as the cause of diseases classified to other chapters, is to be used as an additional code to identify the organism. An instructional note will be found at the infection code advising that an additional organism code is required.

*E. coli* UTI.

**N39.0 Urinary tract infection, site not specified**

**B96.20 Unspecified Escherichia coli [E.coli] as the cause of diseases classified elsewhere**

*Explanation:* An instructional note under the code for the urinary tract infection indicates to code also the specific organism.

#### c. Infections resistant to antibiotics

Many bacterial infections are resistant to current antibiotics. It is necessary to identify all infections documented as antibiotic resistant. Assign a code from category Z16, Resistance to antimicrobial drugs, following the infection code only if the infection code does not identify drug resistance.

Antimycobacterial-resistant primary pulmonary tuberculosis.

**A15.0 Tuberculosis of lung**

**Z16.341 Resistance to single antimycobacterial drug**

*Explanation:* Code Z16.341 is assigned as a secondary code to represent the antimycobacterial resistance. This code includes resistance to antimycobacterial drug "NOS"; if multiple drug resistance is not specified, classification defaults to the single drug resistance code.

#### d. Sepsis, severe sepsis, and septic shock

##### 1) Coding of sepsis and severe sepsis

###### (a) Sepsis

For a diagnosis of sepsis, assign the appropriate code for the underlying systemic infection. If the type of infection or causal organism is not further specified, assign code A41.9, Sepsis, unspecified organism.

A code from subcategory R65.2, Severe sepsis, should not be assigned unless severe sepsis or an associated acute organ dysfunction is documented.

Gram-negative sepsis.

**A41.50 Gram-negative sepsis, unspecified**

Staphylococcal sepsis

**A41.2 Sepsis due to unspecified staphylococcus**

*Explanation:* In both examples above the organism causing the sepsis is identified, therefore A41.9 Sepsis, unspecified organism, would not be appropriate as this code would not capture the highest degree of specificity found in the documentation. Do not use an additional code for severe sepsis unless an acute organ dysfunction was also documented as "associated with" or "due to" the sepsis or the sepsis was documented as "severe."

###### (i) Negative or inconclusive blood cultures and sepsis

Negative or inconclusive blood cultures do not preclude a diagnosis of sepsis in patients with clinical evidence of the condition; however, the provider should be queried.

###### (ii) Urosepsis

The term urosepsis is a nonspecific term. It is not to be considered synonymous with sepsis. It has no default code in the Alphabetic Index. Should a provider use this term, he/she must be queried for clarification.

###### (iii) Sepsis with organ dysfunction

If a patient has sepsis and associated acute organ dysfunction or multiple organ dysfunction (MOD), follow the instructions for coding severe sepsis.

###### (iv) Acute organ dysfunction that is not clearly associated with the sepsis

If a patient has sepsis and an acute organ dysfunction, but the medical record documentation indicates that the acute organ dysfunction is related to a medical condition other than the sepsis, do not assign a code from subcategory R65.2, Severe sepsis. An acute organ dysfunction must be associated with the sepsis in order to assign the severe sepsis code. If the documentation is not clear as to whether an acute organ dysfunction is related to the sepsis or another medical condition, query the provider.

Sepsis and acute respiratory failure due to COPD exacerbation.

**A41.9 Sepsis, unspecified organism**

**J44.1 Chronic obstructive pulmonary disease with (acute) exacerbation**

**J96.00 Acute respiratory failure, unspecified whether with hypoxia or hypercapnia**

*Explanation:* Although acute organ dysfunction is present in the form of acute respiratory failure, severe sepsis (R65.2) is not coded in this example, as the acute respiratory failure is attributed to the COPD exacerbation rather than the sepsis. Sequencing of these codes would be determined by the circumstances of the admission.

##### (b) Severe sepsis

The coding of severe sepsis requires a minimum of 2 codes: first a code for the underlying systemic infection, followed by a code from subcategory R65.2, Severe sepsis. If the causal organism is not documented, assign code A41.9, Sepsis, unspecified organism, for the infection. Additional code(s) for the associated acute organ dysfunction are also required.

Due to the complex nature of severe sepsis, some cases may require querying the provider prior to assignment of the codes.

##### 2) Septic shock

(a) Septic shock generally refers to circulatory failure associated with severe sepsis, and therefore, it represents a type of acute organ dysfunction.

For cases of septic shock, the code for the systemic infection should be sequenced first, followed by code R65.21, Severe sepsis with septic shock or code T81.12, Postprocedural septic shock. Any additional codes for the other acute organ dysfunctions should also be assigned. As noted in the sequencing instructions in the Tabular List, the code for septic shock cannot be assigned as a principal diagnosis.

Sepsis with septic shock.

**A41.9 Sepsis, unspecified organism**

**R65.21 Severe sepsis with septic shock**

*Explanation:* Documentation of septic shock automatically implies severe sepsis as it is a form of acute organ dysfunction. Septic shock is not coded as the principal diagnosis; it is always preceded by the code for the systemic infection.

##### 3) Sequencing of severe sepsis

If severe sepsis is present on admission, and meets the definition of principal diagnosis, the underlying systemic infection should be assigned as principal diagnosis followed by the appropriate code from subcategory R65.2 as required by the sequencing rules in the Tabular List. A code from subcategory R65.2 can never be assigned as a principal diagnosis.

When severe sepsis develops during an encounter (it was not present on admission), the underlying systemic infection and the appropriate code from subcategory R65.2 should be assigned as secondary diagnoses.

Severe sepsis may be present on admission, but the diagnosis may not be confirmed until sometime after admission. If the documentation is not clear whether severe sepsis was present on admission, the provider should be queried.

##### 4) Sepsis and severe sepsis with a localized infection

If the reason for admission is both sepsis or severe sepsis and a localized infection, such as pneumonia or cellulitis, a code(s) for the underlying systemic infection should be assigned first and the code for the localized infection should be assigned as a secondary diagnosis. If the patient has severe sepsis, a code from subcategory R65.2 should also be assigned as a secondary diagnosis. If the patient is admitted with a localized infection, such as pneumonia, and sepsis/severe sepsis doesn't develop until after admission, the localized infection should be assigned first, followed by the appropriate sepsis/severe sepsis codes.

Patient presents with acute renal failure due to severe sepsis from *Pseudomonas pneumonia*.

**A41.9 Sepsis, unspecified organism**

**J15.1 Pneumonia due to *Pseudomonas***

**R65.20 Severe sepsis without septic shock**

**N17.9 Acute kidney failure, unspecified**

*Explanation:* If all conditions are present on admission, the systemic infection (sepsis) is sequenced first followed by the codes for the localized infection (pneumonia), severe sepsis and any organ dysfunction. If only the pneumonia was present on admission with the sepsis and resulting renal failure developing later in the admission, then the pneumonia would be sequenced first.

#### 5) Sepsis due to a postprocedural infection

##### (a) Documentation of causal relationship

As with all postprocedural complications, code assignment is based on the provider's documentation of the relationship between the infection and the procedure.

##### (b) Sepsis due to a postprocedural infection

For such cases, the postprocedural infection code, such as T80.2, Infections following infusion, transfusion, and therapeutic injection, T81.4, Infection following a procedure, T88.0, Infection following immunization, or O86.0, Infection of obstetric surgical wound, should be coded first, followed by the code for the specific infection. If the patient has severe sepsis, the appropriate code from subcategory R65.2 should also be assigned with the additional code(s) for any acute organ dysfunction.

##### (c) Postprocedural infection and postprocedural septic shock

In cases where a postprocedural infection has occurred and has resulted in severe sepsis the code for the precipitating complication such as code T81.4, Infection following a procedure, or O86.0, Infection of obstetric surgical wound should be coded first followed by code R65.20, Severe sepsis without septic shock. A code for the systemic infection should also be assigned.

If a postprocedural infection has resulted in postprocedural septic shock, the code for the precipitating complication such as code T81.4, Infection following a procedure, or O86.0, Infection of obstetric surgical wound should be coded first followed by code T81.12-, Postprocedural septic shock. A code for the systemic infection should also be assigned.

#### 6) Sepsis and severe sepsis associated with a noninfectious process (condition)

In some cases a noninfectious process (condition), such as trauma, may lead to an infection which can result in sepsis or severe sepsis. If sepsis or severe sepsis is documented as associated with a noninfectious condition, such as a burn or serious injury, and this condition meets the definition for principal diagnosis, the code for the noninfectious condition should be sequenced first, followed by the code for the resulting infection. If severe sepsis is present, a code from subcategory R65.2 should also be assigned with any associated organ dysfunction(s) codes. It is not necessary to assign a code from subcategory R65.1, Systemic inflammatory response syndrome (SIRS) of non-infectious origin, for these cases.

If the infection meets the definition of principal diagnosis, it should be sequenced before the non-infectious condition. When both the associated non-infectious condition and the infection meet the definition of principal diagnosis, either may be assigned as principal diagnosis.

Only one code from category R65, Symptoms and signs specifically associated with systemic inflammation and infection, should be assigned. Therefore, when a non-infectious condition leads to an infection resulting in severe sepsis, assign the appropriate code from subcategory R65.2, Severe sepsis. Do not additionally assign a code from subcategory R65.1, Systemic inflammatory response syndrome (SIRS) of non-infectious origin.

*See Section I.C.18. SIRS due to non-infectious process*

Patient admitted from hospital to home health for management of multiple third-degree burns of the right upper arm extending from the elbow to shoulder. The patient became septic during the hospital admission and will be continued on IV antibiotic treatment for MSSA sepsis until follow-up blood cultures return negative. The patient requires routine dressing changes three times a week to the burned areas, which are healing well with scarring present.

**A41.02 Sepsis due to Methicillin susceptible *Staphylococcus aureus***

**T22.391D Burn of third degree of multiple sites of right shoulder and upper arm limb, except wrist and hand, subsequent encounter**

**Z45.2 Encounter for adjustment and management of vascular access device**

*Explanation:* Although the burn is a noninfectious condition, it gave rise to a systemic "infection," as opposed to a less critical inflammatory response. The systemic infection (sepsis) code is all that is required, and a code for SIRS due to noninfectious process is not needed. The code for systemic infection is coded first as the wounds are uncomplicated and healing well, while the sepsis still requires active treatment with IV antibiotics. The seventh character D is appropriate when coding the burn with the routine dressing changes with no wound complications.

#### 7) Sepsis and septic shock complicating abortion, pregnancy, childbirth, and the puerperium

*See Section I.C.15. Sepsis and septic shock complicating abortion, pregnancy, childbirth and the puerperium*

#### 8) Newborn sepsis

*See Section I.C.16. f. Bacterial sepsis of Newborn*

#### e. Methicillin resistant *Staphylococcus aureus* (MRSA) conditions

##### 1) Selection and sequencing of MRSA codes

###### (a) Combination codes for MRSA infection

When a patient is diagnosed with an infection that is due to methicillin resistant *Staphylococcus aureus* (MRSA), and that infection has a combination code that includes the causal organism (e.g., sepsis, pneumonia) assign the appropriate combination code for the condition (e.g., code A41.02, Sepsis due to Methicillin resistant *Staphylococcus aureus* or code J15.212, Pneumonia due to Methicillin resistant *Staphylococcus aureus*). Do not assign code B95.62, Methicillin resistant *Staphylococcus aureus* infection as the cause of diseases classified elsewhere, as an additional code, because the combination code includes the type of infection and the MRSA organism. Do not assign a code from subcategory Z16.11, Resistance to penicillins, as an additional diagnosis.

*See Section C.1. for instructions on coding and sequencing of sepsis and severe sepsis.*

###### (b) Other codes for MRSA infection

When there is documentation of a current infection (e.g., wound infection, stitch abscess, urinary tract infection) due to MRSA, and that infection does not have a combination code that includes the causal organism, assign the appropriate code to identify the condition along with code B95.62, Methicillin resistant *Staphylococcus aureus* infection as the cause of diseases classified elsewhere for the MRSA infection. Do not assign a code from subcategory Z16.11, Resistance to penicillins.

###### (c) Methicillin susceptible *Staphylococcus aureus* (MSSA) and MRSA colonization

The condition or state of being colonized or carrying MSSA or MRSA is called colonization or carriage, while an individual person is described as being colonized or being a carrier. Colonization means that MSSA or MRSA is present on or in the body without necessarily causing illness. A positive MRSA colonization test might be documented by the provider as "MRSA screen positive" or "MRSA nasal swab positive".

Assign code Z22.322, Carrier or suspected carrier of Methicillin resistant *Staphylococcus aureus*, for patients documented as having MRSA colonization. Assign code Z22.321, Carrier or suspected carrier of Methicillin susceptible *Staphylococcus aureus*, for patient documented as having MSSA colonization. Colonization is not necessarily indicative of a disease process or as the cause of a specific condition the patient may have unless documented as such by the provider.

###### (d) MRSA colonization and infection

If a patient is documented as having both MRSA colonization and infection during a hospital admission, code Z22.322, Carrier or suspected carrier of Methicillin resistant *Staphylococcus aureus*, and a code for the MRSA infection may both be assigned.

**f. Zika virus infections****1) Code only confirmed cases**

Code only a confirmed diagnosis of Zika virus (A92.5, Zika virus disease) as documented by the provider. This is an exception to the hospital inpatient guideline Section II, H. In this context, "confirmation" does not require documentation of the type of test performed; the physician's diagnostic statement that the condition is confirmed is sufficient. This code should be assigned regardless of the stated mode of transmission.

If the provider documents "suspected," "possible" or "probable" Zika, do not assign code A92.5. Assign a code(s) explaining the reason for encounter (such as fever, rash, or joint pain) or Z20.828, Contact with and (suspected) exposure to other viral communicable diseases.

## Chapter 2. Neoplasms (C00–D49)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### General guidelines

Chapter 2 of the ICD-10-CM contains the codes for most benign and all malignant neoplasms. Certain benign neoplasms, such as prostatic adenomas, may be found in the specific body system chapters. To properly code a neoplasm it is necessary to determine from the record if the neoplasm is benign, in-situ, malignant, or of uncertain histologic behavior. If malignant, any secondary (metastatic) sites should also be determined.

#### Primary malignant neoplasms overlapping site boundaries

A primary malignant neoplasm that overlaps two or more contiguous (next to each other) sites should be classified to the subcategory/code .8 ('overlapping lesion'), unless the combination is specifically indexed elsewhere. For multiple neoplasms of the same site that are not contiguous such as tumors in different quadrants of the same breast, codes for each site should be assigned.

A 73-year-old white female with a large rapidly growing malignant tumor in the left breast extending from the upper outer quadrant into the axillary tail.

**C50.812 Malignant neoplasm of overlapping sites of left female breast**

*Explanation:* Because this is a single large tumor that overlaps two contiguous sites, a single code for overlapping sites is assigned.

A 52-year old white female with two distinct lesions of the right breast, one (0.5 cm) in the upper outer quadrant and a second (1.5 cm) in the lower outer quadrant; path report indicates both lesions are malignant

**C50.411 Malignant neoplasm of upper-outer quadrant of breast, female**

**C50.511 Malignant neoplasm of lower-outer quadrant of breast, female**

*Explanation:* This patient has two distinct malignant lesions of right breast in adjacent quadrants. Because the lesions are not contiguous, two codes are reported.

#### Malignant neoplasm of ectopic tissue

Malignant neoplasms of ectopic tissue are to be coded to the site of origin mentioned, e.g., ectopic pancreatic malignant neoplasms involving the stomach are coded to **malignant neoplasm of pancreas, unspecified (C25.9)**.

The neoplasm table in the Alphabetic Index should be referenced first. However, if the histological term is documented, that term should be referenced first, rather than going immediately to the Neoplasm Table, in order to determine which column in the Neoplasm Table is appropriate. For example, if the documentation indicates "adenoma," refer to the term in the Alphabetic Index to review the entries under this term and the instructional note to "see also neoplasm, by site, benign." The table provides the proper code based on the type of neoplasm and the site. It is important to select the proper column in the table that corresponds to the type of neoplasm. The Tabular List should then be referenced to verify that the correct code has been selected from the table and that a more specific site code does not exist.

See Section I.C.21. Factors influencing health status and contact with health services, Status, for information regarding Z15.0, codes for genetic susceptibility to cancer.

#### a. Treatment directed at the malignancy

If the treatment is directed at the malignancy, designate the malignancy as the principal diagnosis.

The only exception to this guideline is if a patient admission/encounter is solely for the administration of chemotherapy, immunotherapy or **external beam** radiation therapy, assign the appropriate Z51.-- code as the first-listed or principal diagnosis, and the diagnosis or problem for which the service is being performed as a secondary diagnosis.

#### b. Treatment of secondary site

When a patient is admitted because of a primary neoplasm with metastasis and treatment is directed toward the secondary site only, the secondary neoplasm is designated as the principal diagnosis even though the primary malignancy is still present.

Patient with unresolved primary prostate cancer is admitted for respiratory care and rehabilitation related to new diagnosis of right lung metastasis.

**C78.01 Secondary malignant neoplasm of right lung**

**C61 Malignant neoplasm of prostate**

*Explanation:* The patient was admitted for treatment of the secondary neoplastic disease of the right lung with respiratory care. The code for the secondary lung metastasis is sequenced before the code for primary prostate cancer.

#### c. Coding and sequencing of complications

Coding and sequencing of complications associated with the malignancies or with the therapy thereof are subject to the following guidelines:

##### 1) Anemia associated with malignancy

When admission/encounter is for management of an anemia associated with the malignancy, and the treatment is only for anemia, the appropriate code for the malignancy is sequenced as the principal or first-listed diagnosis followed by the appropriate code for the anemia (such as code D63.0, Anemia in neoplastic disease).

Patient is admitted for treatment of anemia in advanced colon cancer.

**C18.9 Malignant neoplasm of colon, unspecified**

**D63.0 Anemia in neoplastic disease**

*Explanation:* Even though the admission was solely to treat the anemia, this guideline indicates that the code for the malignancy is sequenced first.

##### 2) Anemia associated with chemotherapy, immunotherapy and radiation therapy

When the admission/encounter is for management of an anemia associated with an adverse effect of the administration of chemotherapy or immunotherapy and the only treatment is for the anemia, the anemia code is sequenced first followed by the appropriate codes for the neoplasm and the adverse effect (T45.1X5, Adverse effect of antineoplastic and immunosuppressive drugs).

A 52-year-old male with chronic lymphocytic leukemia noted with Richter transformation following acute mononucleosis infection, now resolved, is admitted for assessment and monitoring of labs. The clinical record notes anemia secondary to chemotherapy and weekly lab orders. The patient continues to receive chemotherapy.

**D64.81 Anemia due to antineoplastic chemotherapy**

**T45.1X5D Adverse effect of antineoplastic drugs and immunosuppressive drugs, subsequent encounter**

**C91.10 Chronic lymphocytic leukemia of B-Cell type not having achieved remission**

*Explanation:* The code for anemia is sequenced before the code for the neoplasm and the adverse effect of chemotherapy. The seventh character D is applied to code T45.1X5-, as active treatment of the adverse effect, the anemia, is no longer required.

When the admission/encounter is for management of an anemia associated with an adverse effect of radiotherapy, the anemia code should be sequenced first, followed by the appropriate neoplasm code and code Y84.2, Radiological procedure and radiotherapy as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure.

A 65-year-old female is admitted following hospitalization for multiple blood transfusions to treat anemia secondary to radiation therapy. She has been receiving radiation treatments for right breast cancer.

**D64.89 Other specified anemias**

**C50.911 Malignant neoplasm of unspecified site of right female breast**

**Y84.2 Radiological procedure and radiotherapy as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure**

*Explanation:* The code for the anemia is sequenced first, followed by the code for the malignancy, and last the code for the abnormal reaction due to radiotherapy.

### 3) Management of dehydration due to the malignancy

When the admission/encounter is for management of dehydration due to the malignancy and only the dehydration is being treated (intravenous rehydration), the dehydration is sequenced first, followed by the code(s) for the malignancy.

### 4) Treatment of a complication resulting from a surgical procedure

When the admission/encounter is for treatment of a complication resulting from a surgical procedure, designate the complication as the principal or first-listed diagnosis if treatment is directed at resolving the complication.

### d. Primary malignancy previously excised

When a primary malignancy has been previously excised or eradicated from its site and there is no further treatment directed to that site and there is no evidence of any existing primary malignancy, a code from category Z85, Personal history of malignant neoplasm, should be used to indicate the former site of the malignancy. Any mention of extension, invasion, or metastasis to another site is coded as a secondary malignant neoplasm to that site. The secondary site may be the principal or first-listed with the Z85 code used as a secondary code.

History of breast cancer, left radical mastectomy 18 months ago with no current treatment; bronchoscopy with lung biopsy shows metastatic disease in the right lung.

**C78.01 Secondary malignant neoplasm of right lung**

**Z85.3 Personal history of malignant neoplasm of breast**

*Explanation:* The patient has undergone a diagnostic procedure that revealed metastatic breast cancer in the right lung. The code for the secondary (metastatic) site is sequenced first followed by a personal history code to identify the former site of the primary malignancy.

### e. Admissions/Encounters involving chemotherapy, immunotherapy and radiation therapy

#### 1) Episode of care involves surgical removal of neoplasm

When an episode of care involves the surgical removal of a neoplasm, primary or secondary site, followed by adjunct chemotherapy or radiation treatment during the same episode of care, the code for the neoplasm should be assigned as principal or first-listed diagnosis.

#### 2) Patient admission/encounter solely for administration of chemotherapy, immunotherapy and radiation therapy

If a patient admission/encounter is solely for the administration of chemotherapy, immunotherapy or **external beam** radiation therapy assign code Z51.0, Encounter for antineoplastic radiation therapy, or Z51.11, Encounter for antineoplastic chemotherapy, or Z51.12, Encounter for antineoplastic immunotherapy as the first-listed or principal diagnosis. If a patient receives more than one of these therapies during the same admission more than one of these codes may be assigned, in any sequence.

The malignancy for which the therapy is being administered should be assigned as a secondary diagnosis.

**If a patient admission/encounter is for the insertion or implantation of radioactive elements (e.g., brachytherapy) the appropriate code for the malignancy is sequenced as the principal or first-listed diagnosis. Code Z51.0 should not be assigned.**

### 3) Patient admitted for radiation therapy, chemotherapy or immunotherapy and develops complications

When a patient is admitted for the purpose of **external beam** radiotherapy, immunotherapy or chemotherapy and develops complications such as uncontrolled nausea and vomiting or dehydration, the principal or first-listed diagnosis is Z51.0, Encounter for antineoplastic radiation therapy, or Z51.11, Encounter for antineoplastic chemotherapy, or Z51.12, Encounter for antineoplastic immunotherapy followed by any codes for the complications.

**When a patient is admitted for the purpose of insertion or implantation of radioactive elements (e.g., brachytherapy) and develops complications such as uncontrolled nausea and vomiting or dehydration, the principal or first-listed diagnosis is the appropriate code for the malignancy followed by any codes for the complications.**

### f. Admission/encounter to determine extent of malignancy

When the reason for admission/encounter is to determine the extent of the malignancy, or for a procedure such as paracentesis or thoracentesis, the primary malignancy or appropriate metastatic site is designated as the principal or first-listed diagnosis, even though chemotherapy or radiotherapy is administered.

### g. Symptoms, signs, and abnormal findings listed in Chapter 18 associated with neoplasms

Symptoms, signs, and ill-defined conditions listed in Chapter 18 characteristic of, or associated with, an existing primary or secondary site malignancy cannot be used to replace the malignancy as principal or first-listed diagnosis, regardless of the number of admissions or encounters for treatment and care of the neoplasm.

*See Section I.C.21. Factors influencing health status and contact with health services, Encounter for prophylactic organ removal.*

Patient is admitted for respiratory decline with severe shortness of breath and new onset use of continuous oxygen, related to inoperable neoplasm of the right lung.

**C34.91 Malignant neoplasm of unspecified part of right bronchus or lung**

**Z99.81 Dependence on supplemental oxygen**

*Explanation:* No code is assigned for shortness of breath, as this symptom is an integral part of the neoplastic lung disease and should not take the place of a code for the neoplasm, regardless of encounter.

### h. Admission/encounter for pain control/management

*See Section I.C.6. for information on coding admission/encounter for pain control/management.*

### i. Malignancy in two or more noncontiguous sites

A patient may have more than one malignant tumor in the same organ. These tumors may represent different primaries or metastatic disease, depending on the site. Should the documentation be unclear, the provider should be queried as to the status of each tumor so that the correct codes can be assigned.

### j. Disseminated malignant neoplasm, unspecified

Code C80.0, Disseminated malignant neoplasm, unspecified, is for use only in those cases where the patient has advanced metastatic disease and no known primary or secondary sites are specified. It should not be used in place of assigning codes for the primary site and all known secondary sites.

Patient who has had no regular medical care for over 10 years until recent symptoms developed is admitted post-hospital stay with a new diagnosis of carcinomatosis.

**C80.0 Disseminated malignant neoplasm, unspecified**

*Explanation:* Carcinomatosis NOS is an "inclusion term" under code C80.0 Disseminated malignant neoplasm, unspecified. This code should seldom be used but is available for use in cases such as this.

**k. Malignant neoplasm without specification of site**

Code C80.1, Malignant (primary) neoplasm, unspecified, equates to Cancer, unspecified. This code should only be used when no determination can be made as to the primary site of a malignancy. This code should rarely be used in the inpatient setting.

Evaluation of painful hip leads to diagnosis of a metastatic bone lesion from an unknown primary neoplasm source.

**C79.51** Secondary malignant neoplasm of bone

**C80.1** Malignant (primary) neoplasm, unspecified

*Explanation:* If only the secondary site is known, use code C80.1 for the unknown primary site.

**l. Sequencing of neoplasm codes****1) Encounter for treatment of primary malignancy**

If the reason for the encounter is for treatment of a primary malignancy, assign the malignancy as the principal/first-listed diagnosis. The primary site is to be sequenced first, followed by any metastatic sites.

**2) Encounter for treatment of secondary malignancy**

When an encounter is for a primary malignancy with metastasis and treatment is directed toward the metastatic (secondary) site(s) only, the metastatic site(s) is designated as the principal/first-listed diagnosis. The primary malignancy is coded as an additional code.

Patient is admitted with primary colon cancer with new onset metastasis to the ribs resulting in shortness of breath and pain.

**C79.51** Secondary malignant neoplasm of bone

**C18.9** Malignant neoplasm of colon, unspecified

**G89.3** Neoplasm related pain (acute) (chronic)

*Explanation:* The focus of care for this admission is on the newly diagnosed metastasis to the ribs (bone) rather than the primary colon cancer, indicating a need to code the metastasis to the bone as primary. Provider documentation supports pain due to neoplastic disease, as well.

**3) Malignant neoplasm in a pregnant patient**

When a pregnant woman has a malignant neoplasm, a code from subcategory O9A.1-, Malignant neoplasm complicating pregnancy, childbirth, and the puerperium, should be sequenced first, followed by the appropriate code from Chapter 2 to indicate the type of neoplasm.

**4) Encounter for complication associated with a neoplasm**

When an encounter is for management of a complication associated with a neoplasm, such as dehydration, and the treatment is only for the complication, the complication is coded first, followed by the appropriate code(s) for the neoplasm.

The exception to this guideline is anemia. When the admission/encounter is for management of an anemia associated with the malignancy, and the treatment is only for anemia, the appropriate code for the malignancy is sequenced as the principal or first-listed diagnosis followed by code D63.0, Anemia in neoplastic disease.

Patient with pancreatic cancer is seen for initiation of TPN for cancer-related moderate protein-calorie malnutrition.

**E44.0** Moderate protein-calorie malnutrition

**C25.9** Malignant neoplasm of pancreas, unspecified

*Explanation:* The encounter is to initiate treatment for malnutrition, a common complication of many types of neoplasms, and is sequenced first.

**5) Complication from surgical procedure for treatment of a neoplasm**

When an encounter is for treatment of a complication resulting from a surgical procedure performed for the treatment of the neoplasm, designate the complication as the principal/first-listed diagnosis. See guideline regarding the coding of a current malignancy versus personal history to determine if the code for the neoplasm should also be assigned.

**6) Pathologic fracture due to a neoplasm**

When an encounter is for a pathological fracture due to a neoplasm, and the focus of treatment is the fracture, a code from subcategory M84.5, Pathological fracture in neoplastic disease, should be sequenced first, followed by the code for the neoplasm.

If the focus of treatment is the neoplasm with an associated pathological fracture, the neoplasm code should be sequenced first, followed by a code from M84.5 for the pathological fracture.

**m. Current malignancy versus personal history of malignancy**

When a primary malignancy has been excised but further treatment, such as an additional surgery for the malignancy, radiation therapy or chemotherapy is directed to that site, the primary malignancy code should be used until treatment is completed.

When a primary malignancy has been previously excised or eradicated from its site, there is no further treatment (of the malignancy) directed to that site, and there is no evidence of any existing primary malignancy, a code from category Z85, Personal history of malignant neoplasm, should be used to indicate the former site of the malignancy.

See Section I.C.21. Factors influencing health status and contact with health services, History (of)

Female patient with ongoing chemotherapy after right mastectomy for breast cancer.

**C50.911** Malignant neoplasm of unspecified site of right female breast

**Z90.11** Acquired absence of right breast and nipple

*Explanation:* Even though the breast has been removed, the breast cancer is still being treated with chemotherapy and therefore is still coded as a current condition rather than personal history.

**n. Leukemia, multiple myeloma, and malignant plasma cell neoplasms in remission versus personal history**

The categories for leukemia, and category C90, Multiple myeloma and malignant plasma cell neoplasms, have codes indicating whether or not the leukemia has achieved remission. There are also codes Z85.6, Personal history of leukemia, and Z85.79, Personal history of other malignant neoplasms of lymphoid, hematopoietic and related tissues. If the documentation is unclear as to whether the leukemia has achieved remission, the provider should be queried.

See Section I.C.21. Factors influencing health status and contact with health services, History (of)

**o. Aftercare following surgery for neoplasm**

See Section I.C.21. Factors influencing health status and contact with health services, Aftercare

**p. Follow-up care for completed treatment of a malignancy**

See Section I.C.21. Factors influencing health status and contact with health services, Follow-up

**q. Prophylactic organ removal for prevention of malignancy**

See Section I.C. 21, Factors influencing health status and contact with health services, Prophylactic organ removal

**r. Malignant neoplasm associated with transplanted organ**

A malignant neoplasm of a transplanted organ should be coded as a transplant complication. Assign first the appropriate code from category T86.-, Complications of transplanted organs and tissue, followed by code C80.2, Malignant neoplasm associated with transplanted organ. Use an additional code for the specific malignancy.

## Chapter 3. Diseases of the Blood and Blood-forming Organs and Certain Disorders Involving the Immune Mechanism (D50–D89)

**Chapter Specific Coding Guidelines and Examples**  
Reserved for future guideline expansion



## Chapter 4. Endocrine, Nutritional and Metabolic Diseases (E00–E89)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Diabetes mellitus

The diabetes mellitus codes are combination codes that include the type of diabetes mellitus, the body system affected, and the complications affecting that body system. As many codes within a particular category as are necessary to describe all of the complications of the disease may be used. They should be sequenced based on the reason for a particular encounter. Assign as many codes from categories E08–E13 as needed to identify all of the associated conditions that the patient has.

Patient is admitted with reported diagnoses of uncontrolled diabetes, type 2, with diabetic polyneuropathy and diabetic retinopathy with macular edema. Endocrinology clinical notes indicate a current HgA1c of 12.4 and “persistent blood glucose elevations over 300.”

**E11.65** Type 2 diabetes mellitus with hyperglycemia

**E11.311** Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema

**E11.42** Type 2 diabetes mellitus with diabetic polyneuropathy

*Explanation:* Use as many codes to describe the diabetic complications as needed. Many are combination codes that describe more than one condition. “Uncontrolled” may reference hypo- or hyperglycemia, based upon available provider documentation.

#### 1) Type of diabetes

The age of a patient is not the sole determining factor, though most type 1 diabetics develop the condition before reaching puberty. For this reason type 1 diabetes mellitus is also referred to as juvenile diabetes.

A 45-year-old patient is diagnosed with Type 1 diabetes.

**E10.9** Type 1 diabetes mellitus without complications

*Explanation:* Although most type 1 diabetics are diagnosed in childhood or adolescence, it can also begin in adults.

#### 2) Type of diabetes mellitus not documented

If the type of diabetes mellitus is not documented in the medical record the default is E11.-, Type 2 diabetes mellitus.

Patient is referred with new diagnoses reported in provider clinical notes as diabetes and hypertension.

**E11.9** Type 2 diabetes mellitus without complications

**I10** Essential (primary) hypertension

*Explanation:* Since the type of diabetes was not documented and no complications were noted, the default code is E11.9.

#### 3) Diabetes mellitus and the use of insulin and oral hypoglycemics

If the documentation in a medical record does not indicate the type of diabetes but does indicate that the patient uses insulin, code E11.-, Type 2 diabetes mellitus, should be assigned. **An additional code should be assigned from category Z79 to identify the long-term (current) use of insulin or oral hypoglycemic drugs. If the patient is treated with both oral medications and insulin, only the code for long-term (current) use of insulin should be assigned. Code Z79.4 should not be assigned if insulin is given temporarily to bring a type 2 patient’s blood sugar under control during an encounter.**

Patient is referred with documented provider notes reporting 10-year history of diabetes requiring daily insulin use.

**E11.9** Type 2 diabetes mellitus without complication

**Z79.4** Long term (current) use of insulin

*Explanation:* Do not assume that a patient requiring insulin use must have type 1 diabetes. The default for diabetes without further specification defaults to type 2. Add the code for long-term use of insulin.

#### 4) Diabetes mellitus in pregnancy and gestational diabetes

See Section I.C.15. Diabetes mellitus in pregnancy.

See Section I.C.15. Gestational (pregnancy induced) diabetes

#### 5) Complications due to insulin pump malfunction

##### (a) Underdose of insulin due to insulin pump failure

An underdose of insulin due to an insulin pump failure should be assigned to a code from subcategory T85.6, Mechanical complication of other specified internal and external prosthetic devices, implants and grafts, that specifies the type of pump malfunction, as the principal or first-listed code, followed by code T38.3X6-, Underdosing of insulin and oral hypoglycemic [antidiabetic] drugs. Additional codes for the type of diabetes mellitus and any associated complications due to the underdosing should also be assigned.

A 76-year-old male with diabetic ESRD is admitted for rehabilitation and develops hyperglycemia. He has had an implanted insulin pump for 14 years and after returning from the ER, is noted to have experienced hyperglycemia due to a pump malfunction resulting in too little insulin being administered. On return, the blood sugars are resolving.

**T85.614D** Breakdown (mechanical) of insulin pump, subsequent encounter

**T38.3X6D** Underdosing of insulin and oral hypoglycemic [antidiabetic] drugs, subsequent encounter

**E11.65** Type 2 diabetes mellitus with hyperglycemia

**E11.22** Type 2 diabetes mellitus with diabetic chronic kidney disease

**N18.6** End stage renal disease

*Explanation:* The complication code for the mechanical breakdown of the pump is sequenced first, followed by the underdosing code and type of diabetes with complication. If two or more diabetic complications are present, assign all codes needed to capture each complication. The seventh character D is used for a subsequent encounter.

##### (b) Overdose of insulin due to insulin pump failure

The principal or first-listed code for an encounter due to an insulin pump malfunction resulting in an overdose of insulin, should also be T85.6-, Mechanical complication of other specified internal and external prosthetic devices, implants and grafts, followed by code T38.3X1-, Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, accidental (unintentional).

A 70-year-old female with type 2 diabetes is found on the floor and sent to the ER. On her return from the hospital, it is noted that a failure of her insulin pump, resulting in excess insulin administration, caused the hypoglycemia, resulting in her condition.

**T85.614D** Breakdown (mechanical) of insulin pump, subsequent encounter

**T38.3X1D** Poisoning by insulin and oral hypoglycemic [antidiabetic] drugs, accidental (unintentional), subsequent encounter

**E11.649** Type 2 diabetes mellitus with hypoglycemia without coma

*Explanation:* The complication code for the mechanical breakdown of the pump is sequenced first, followed by the code for poisoning and type of diabetes with any associated complications. The seventh character D is used for subsequent encounter.

#### 6) Secondary diabetes mellitus

Codes under categories E08, Diabetes mellitus due to underlying condition, E09, Drug or chemical induced diabetes mellitus, and E13, Other specified diabetes mellitus, identify complications/manifestations associated with secondary diabetes mellitus. Secondary diabetes is always caused by another condition or event (e.g., cystic fibrosis, malignant neoplasm of pancreas, pancreatectomy, adverse effect of drug, or poisoning).

**(a) Secondary diabetes mellitus and the use of insulin or oral hypoglycemic drugs**

For patients with secondary diabetes mellitus who routinely use insulin or oral hypoglycemic drugs, an additional code from category Z79 should be assigned to identify the long-term (current) use of insulin or oral hypoglycemic drugs. If the patient is treated with both oral medications and insulin, only the code for long-term (current) use of insulin should be assigned. Code Z79.4 should not be assigned if insulin is given temporarily to bring a type 2 patient's blood sugar under control during an encounter.

Type 2 diabetic with diabetic polyneuropathy on insulin.

**E11.42**    **Type 2 diabetes mellitus with diabetic polyneuropathy**

**Z79.4**      **Long-term (current) use of insulin**

*Explanation:* Add the Z code for the long-term use of insulin because the insulin is taken chronically.

**(b) Assigning and sequencing secondary diabetes codes and its causes**

The sequencing of the secondary diabetes codes in relationship to codes for the cause of the diabetes is based on the Tabular List instructions for categories E08, E09 and E13.

**(i) Secondary diabetes mellitus due to pancreatectomy**

For postpancreatectomy diabetes mellitus (lack of insulin due to the surgical removal of all or part of the pancreas), assign code E89.1, Postprocedural hypoinsulinemia. Assign a code from category E13 and a code from subcategory Z90.41, Acquired absence of pancreas, as additional codes.

Patient with newly diagnosed diabetes after surgical removal of part of pancreas. Patient is now insulin-dependent following the procedure.

**E89.1**      **Postprocedural hypoinsulinemia**

**E13.9**      **Other specified diabetes mellitus without complications**

**Z90.411**    **Acquired partial absence of pancreas**

**Z79.4**      **Long term (current) use of insulin**

*Explanation:* Sequence the postprocedural complication of the hypoinsulinemia due to the partial removal of the pancreas as the first-listed code, followed by the other specified diabetes (NEC) with or without complications and the partial or total acquired absence of the pancreas. Instructional notes at E89.1 specify to "use additional code" for insulin use.

**(ii) Secondary diabetes due to drugs**

Secondary diabetes may be caused by an adverse effect of correctly administered medications, poisoning or sequela of poisoning.

See section I.C.19.e for coding of adverse effects and poisoning, and section I.C.20 for external cause code reporting.

Subsequent encounter for corticosteroid-induced diabetes mellitus.

**E09.9**      **Drug or chemical induced diabetes mellitus without complications**

**T38.0X5D**    **Adverse effect of glucocorticoids and synthetic analogues, subsequent encounter**

*Explanation:* If the diabetes is caused by an adverse effect of a drug, the diabetic condition is coded first. If it occurs from a poisoning or overdose, the poisoning code causing the diabetes is sequenced first.

## Chapter 5. Mental, Behavioral and Neurodevelopmental Disorders (F01–F99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Pain disorders related to psychological factors

Assign code F45.41, for pain that is exclusively related to psychological disorders. As indicated by the Excludes 1 note under category G89, a code from category G89 should not be assigned with code F45.41.

Perceived abdominal pain determined to be persistent somatoform pain disorder.

#### **F45.41 Pain disorder exclusively related to psychological factors**

*Explanation:* This pain was diagnosed as being exclusively psychological; therefore, no code from category G89 is added.

Code F45.42, Pain disorders with related psychological factors, should be used with a code from category G89, Pain, not elsewhere classified, if there is documentation of a psychological component for a patient with acute or chronic pain.

See Section I.C.6. Pain

#### b. Mental and behavioral disorders due to psychoactive substance use

##### 1) In remission

Selection of codes for “in remission” for categories F10–F19, Mental and behavioral disorders due to psychoactive substance use (categories F10–F19 with -11, -.21) requires the provider’s clinical judgment. The appropriate codes for “in remission” are assigned only on the basis of provider documentation (as defined in the Official Guidelines for Coding and Reporting), **unless otherwise instructed by the classification.**

**Mild substance use disorders in early or sustained remission are classified to the appropriate codes for substance abuse in remission, and moderate or severe substance use disorders in early or sustained remission are classified to the appropriate codes for substance dependence in remission.**

#### 2) Psychoactive substance use, abuse and dependence

When the provider documentation refers to use, abuse and dependence of the same substance (e.g. alcohol, opioid, cannabis, etc.), only one code should be assigned to identify the pattern of use based on the following hierarchy:

- If both use and abuse are documented, assign only the code for abuse
- If both abuse and dependence are documented, assign only the code for dependence
- If use, abuse and dependence are all documented, assign only the code for dependence
- If both use and dependence are documented, assign only the code for dependence.

History and physical notes cannabis dependence; progress note says cannabis abuse.

#### **F12.20 Cannabis dependence, uncomplicated**

*Explanation:* In the hierarchy, the dependence code is used if both abuse and dependence are documented.

Discharge summary says cocaine abuse; progress notes list cocaine use.

#### **F14.10 Cocaine abuse, uncomplicated**

*Explanation:* In the hierarchy, the abuse code is used if both abuse and use are documented.

#### 3) Psychoactive substance use disorders

As with all other diagnoses, the codes for psychoactive substance use disorders (F10.9-, F11.9-, F12.9-, F13.9-, F14.9-, F15.9-, F16.9-) should only be assigned based on provider documentation and when they meet the definition of a reportable diagnosis (see Section III, Reporting Additional Diagnoses). The codes are to be used only when the psychoactive substance use is associated with a **physical**, mental or behavioral disorder, and such a relationship is documented by the provider.

## Chapter 6. Diseases of the Nervous System (G00-G99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Dominant/nondominant side

Codes from category G81, Hemiplegia and hemiparesis, and subcategories G83.1, Monoplegia of lower limb, G83.2, Monoplegia of upper limb, and G83.3, Monoplegia, unspecified, identify whether the dominant or nondominant side is affected. Should the affected side be documented, but not specified as dominant or nondominant, and the classification system does not indicate a default, code selection is as follows:

- For ambidextrous patients, the default should be dominant.
- If the left side is affected, the default is non-dominant.
- If the right side is affected, the default is dominant.

Hemiplegia affecting left side of ambidextrous patient.

#### **G81.92 Hemiplegia, unspecified affecting left dominant side**

*Explanation:* Documentation states that the left side is affected and dominant is used for ambidextrous persons.

Right spastic hemiplegia, unknown whether patient is right- or left-handed.

#### **G81.11 Spastic hemiplegia affecting right dominant side**

*Explanation:* Since it is unknown whether the patient is right- or left-handed, if the right side is affected, the default is dominant.

#### b. Pain—Category G89

##### 1) General coding information

Codes in category G89, Pain, not elsewhere classified, may be used in conjunction with codes from other categories and chapters to provide more detail about acute or chronic pain and neoplasm-related pain, unless otherwise indicated below.

If the pain is not specified as acute or chronic, post-thoracotomy, postprocedural, or neoplasm-related, do not assign codes from category G89.

A code from category G89 should not be assigned if the underlying (definitive) diagnosis is known, unless the reason for the encounter is pain control/ management and not management of the underlying condition.

When an admission or encounter is for a procedure aimed at treating the underlying condition (e.g., spinal fusion, kyphoplasty), a code for the underlying condition (e.g., vertebral fracture, spinal stenosis) should be assigned as the principal diagnosis. No code from category G89 should be assigned.

##### (a) Category G89 codes as principal or first-listed diagnosis

Category G89 codes are acceptable as principal diagnosis or the first-listed code:

- When pain control or pain management is the reason for the admission/encounter (e.g., a patient with displaced intervertebral disc, nerve impingement and severe back pain presents for injection of steroid into the spinal canal). The underlying cause of the pain should be reported as an additional diagnosis, if known.

A patient is admitted for rehabilitation focused on pain management. Provider notes indicate malignant neoplasm of the bone, with associated pain and debility.

#### **G89.3 Neoplasm related pain (acute) (chronic)**

#### **C41.9 Malignant neoplasm of bone and articular cartilage, unspecified**

*Explanation:* Since the care focuses on controlling neoplasm-related pain, rather than treating the bone cancer, the pain code is sequenced first followed by the code for the underlying condition.

A patient with severe lumbar spinal stenosis is admitted for physical therapy and nursing for pain management for “chronic back pain” per provider referral documentation.

#### **G89.29 Other chronic pain**

#### **M48.061 Spinal stenosis, lumbar region, without neurogenic claudication**

*Explanation:* Since the encounter is for control of pain and not treating the underlying condition, the pain code is sequenced first. The M54 code for back pain is not necessary as the underlying condition code (M48.061) represents the specific site.

- When a patient is admitted for the insertion of a neurostimulator for pain control, assign the appropriate pain code as the principal or first-listed diagnosis. When an admission or encounter is for a procedure aimed at treating the underlying condition and a neurostimulator is inserted for pain control during the same admission/encounter, a code for the underlying condition should be assigned as the principal diagnosis and the appropriate pain code should be assigned as a secondary diagnosis.

##### (b) Use of category G89 codes in conjunction with site specific pain codes

###### (i) Assigning category G89 and site-specific pain codes

Codes from category G89 may be used in conjunction with codes that identify the site of pain (including codes from chapter 18) if the category G89 code provides additional information. For example, if the code describes the site of the pain, but does not fully describe whether the pain is acute or chronic, then both codes should be assigned.

Patient is admitted for skilled rehabilitation with physical therapy. Rehabilitative services will focus on chronic lower back pain.

#### **M54.5 Low back pain**

#### **G89.29 Other chronic pain**

*Explanation:* No underlying cause has been determined for the pain; documentation specifies only the site of the pain and its chronicity. A code describing where the pain is located (site) is sequenced first with an additional G89.- code reported to indicate the chronic nature of the back pain.

###### (ii) Sequencing of category G89 codes with site-specific pain codes

The sequencing of category G89 codes with site-specific pain codes (including chapter 18 codes), is dependent on the circumstances of the encounter/admission as follows:

- If the encounter is for pain control or pain management, assign the code from category G89 followed by the code identifying the specific site of pain (e.g., encounter for pain management for acute neck pain from trauma is assigned code G89.11, Acute pain due to trauma, followed by code M54.2, Cervicalgia, to identify the site of pain).

Patient is admitted for rehabilitation following hospitalization for a fall. Provider orders specify rehabilitative therapy services due to acute post-fall right knee pain. Nursing will medically manage pain control.

#### **G89.11 Acute pain due to trauma**

#### **M25.561 Pain in right knee**

*Explanation:* The focus of the skilled care is rehabilitation for pain management, so code G89.11 is sequenced first. Since this does not fully describe the condition, an additional code to indicate the site of the pain is added.

- If the encounter is for any other reason except pain control or pain management, and a related definitive diagnosis has not been established (confirmed) by the provider, assign the code for the specific site of pain first, followed by the appropriate code from category G89.

##### 2) Pain due to devices, implants and grafts

See Section I.C.19. Pain due to medical devices

**3) Postoperative pain**

The provider's documentation should be used to guide the coding of postoperative pain, as well as *Section III. Reporting Additional Diagnoses* and *Section IV. Diagnostic Coding and Reporting in the Outpatient Setting*.

The default for post-thoracotomy and other postoperative pain not specified as acute or chronic is the code for the acute form.

Routine or expected postoperative pain immediately after surgery should not be coded.

Patient is admitted for skilled care following surgery for repair of a large abdominal hernia. He requires skilled nursing for postoperative pain management and observation and home health aide due to unexpected and severe pain that is impacting self-care.

**G89.18 Other acute postprocedural pain**

**Z48.815 Encounter for surgical aftercare following surgery on the digestive system**

*Explanation:* When acute or chronic is not documented, default to acute. Some postoperative pain is expected, but the above documentation indicates this patient had pain that was unexpected and severe, limiting the patient's ability to return home and necessitating a skilled stay.

**(a) Postoperative pain not associated with specific postoperative complication**

Postoperative pain not associated with a specific postoperative complication is assigned to the appropriate postoperative pain code in category G89.

**(b) Postoperative pain associated with specific postoperative complication**

Postoperative pain associated with a specific postoperative complication (such as painful wire sutures) is assigned to the appropriate code(s) found in Chapter 19, Injury, poisoning, and certain other consequences of external causes. If appropriate, use additional code(s) from category G89 to identify acute or chronic pain (G89.18 or G89.28).

**4) Chronic pain**

Chronic pain is classified to subcategory G89.2. There is no time frame defining when pain becomes chronic pain. The provider's documentation should be used to guide use of these codes.

**5) Neoplasm related pain**

Code G89.3 is assigned to pain documented as being related, associated or due to cancer, primary or secondary malignancy, or tumor. This code is assigned regardless of whether the pain is acute or chronic.

This code may be assigned as the principal or first-listed code when the stated reason for the admission/encounter is documented as pain control/pain management. The underlying neoplasm should be reported as an additional diagnosis.

Patient with history of primary cancer of the prostate and pain due to bone metastasis is admitted to skilled care for continued pain control post-hospitalization.

**G89.3 Neoplasm related pain (acute)(chronic)**

**C79.51 Secondary malignant neoplasm of bone**

**Z85.46 Personal history of malignant neoplasm of prostate**

*Explanation:* After hospitalization, the patient was admitted to skilled home health care for continued management of pain secondary to bone metastasis. The neoplasm was not the reason for the skilled care and is sequenced after the code for the neoplasm-related pain. Code G89.3 is used for both acute and chronic cancer-related pain.

When the reason for the admission/encounter is management of the neoplasm and the pain associated with the neoplasm is also documented, code G89.3 may be assigned as an additional diagnosis. It is not necessary to assign an additional code for the site of the pain.

*See Section I.C.2 for instructions on the sequencing of neoplasms for all other stated reasons for the admission/encounter (except for pain control/pain management).*

Provider notes bone neoplasm with current neoplastic fracture of right femur. The fracture is healing normally, but diffuse pain due to extensive neoplastic bone disease in that lower extremity is documented.

**M84.551D Pathological fracture in neoplastic disease, right femur, subsequent encounter for fracture with routine healing**

**C40.21 Malignant neoplasm of long bones of right lower limb**

**G89.3 Neoplasm related pain (acute) (chronic)**

*Explanation:* The reason for the encounter is the treatment of the pathological femur fracture due to bone cancer. Additional codes to identify the neoplasm and neoplastic pain should also be assigned.

**6) Chronic pain syndrome**

Central pain syndrome (G89.0) and chronic pain syndrome (G89.4) are different than the term "chronic pain," and therefore codes should only be used when the provider has specifically documented this condition.

*See Section I.C.5. Pain disorders related to psychological factors*

## Chapter 7. Diseases of the Eye and Adnexa (H00–H59)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Glaucoma

##### 1) Assigning glaucoma codes

Assign as many codes from category H40, Glaucoma, as needed to identify the type of glaucoma, the affected eye, and the glaucoma stage.

##### 2) Bilateral glaucoma with same type and stage

When a patient has bilateral glaucoma and both eyes are documented as being the same type and stage, and there is a code for bilateral glaucoma, report only the code for the type of glaucoma, bilateral, with the seventh character for the stage.

Bilateral severe stage pigmentary glaucoma.

#### H40.1333 Pigmentary glaucoma, bilateral, severe stage

*Explanation:* In this scenario, the patient has the same type and stage of glaucoma in both eyes. As this type of glaucoma has a code for bilateral, assign only the code for the bilateral glaucoma with the seventh character for the stage.

When a patient has bilateral glaucoma and both eyes are documented as being the same type and stage, and the classification does not provide a code for bilateral glaucoma (i.e. subcategories H40.10, H40.11 and H40.20) report only one code for the type of glaucoma with the appropriate seventh character for the stage.

Bilateral open-angle glaucoma; not specified as to type and stage indeterminate in both eyes.

#### H40.10X4 Unspecified open-angle glaucoma, indeterminate stage

*Explanation:* In this scenario, the patient has glaucoma of the same type and stage of both eyes, but there is no code specifically for bilateral glaucoma. Only one code is assigned with the appropriate seventh character for the stage.

##### 3) Bilateral glaucoma stage with different types or stages

When a patient has bilateral glaucoma and each eye is documented as having a different type or stage, and the classification distinguishes laterality, assign the appropriate code for each eye rather than the code for bilateral glaucoma.

Bilateral chronic angle-closure glaucoma; right eye is documented as mild stage and left eye as moderate stage.

#### H40.2211 Chronic angle-closure glaucoma, right eye, mild stage

#### H40.2222 Chronic angle-closure glaucoma, left eye, moderate stage

*Explanation:* In this scenario the patient has the same type of glaucoma in both eyes, but each eye is at a different stage. Because the subcategory for this condition identifies laterality, one code is assigned for the right eye and one code is assigned for the left eye, each with the appropriate seventh character for the stage appended.

When a patient has bilateral glaucoma and each eye is documented as having a different type, and the classification does not distinguish laterality (i.e. subcategories H40.10, H40.11 and H40.20), assign one code for each type of glaucoma with the appropriate seventh character for the stage.

Documentation relates mild, unspecified primary angle-closure glaucoma of the left eye with mild unspecified open-angle glaucoma of the right eye.

#### H40.20X1 Unspecified primary angle-closure glaucoma, mild stage

#### H40.10X1 Unspecified open-angle glaucoma, mild stage

*Explanation:* In this scenario the patient has a different type of glaucoma in each eye and the classification does not distinguish laterality. A code for each type of glaucoma is assigned, each with the appropriate seventh character for the stage.

When a patient has bilateral glaucoma and each eye is documented as having the same type, but different stage, and the classification does not distinguish laterality (i.e. subcategories H40.10, H40.11 and H40.20), assign a code for the type of glaucoma for each eye with the seventh character for the specific glaucoma stage documented for each eye.

Bilateral open-angle glaucoma, not specified as to type; the right eye is documented to be in mild stage and the left eye as being in moderate stage.

#### H40.10X2 Unspecified open-angle glaucoma, moderate stage

#### H40.10X1 Unspecified open-angle glaucoma, mild stage

*Explanation:* In this scenario the patient has the same type of glaucoma in each eye but each eye is at a different stage, and the classification does not distinguish laterality at this subcategory level. Two codes are assigned; both codes represent the same type of glaucoma but each has a different seventh character identifying the appropriate stage for each eye.

##### 4) Patient admitted with glaucoma and stage evolves during the admission

If a patient is admitted with glaucoma and the stage progresses during the admission, assign the code for highest stage documented.

##### 5) Indeterminate stage glaucoma

Assignment of the seventh character "4" for "indeterminate stage" should be based on the clinical documentation. The seventh character "4" is used for glaucomas whose stage cannot be clinically determined. This seventh character should not be confused with the seventh character "0", unspecified, which should be assigned when there is no documentation regarding the stage of the glaucoma.

#### b. Blindness

If "blindness" or "low vision" of both eyes is documented but the visual impairment category is not documented, assign code H54.3, Unqualified visual loss, both eyes. If "blindness" or "low vision" in one eye is documented but the visual impairment category is not documented, assign a code from H54.6-, Unqualified visual loss, one eye. If "blindness" or "visual loss" is documented without any information about whether one or both eyes are affected, assign code H54.7, Unspecified visual loss.

## Chapter 8. Diseases of the Ear and Mastoid Process (H60–H95)

**Chapter Specific Coding Guidelines and Examples**  
Reserved for future guideline expansion.

## Chapter 9. Diseases of the Circulatory System (I00–I99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Hypertension

The classification presumes a causal relationship between hypertension and heart involvement and between hypertension and kidney involvement, as the two conditions are linked by the term “with” in the Alphabetic Index. These conditions should be coded as related even in the absence of provider documentation explicitly linking them, unless the documentation clearly states the conditions are unrelated.

For hypertension and conditions not specifically linked by relational terms such as “with,” “associated with” or “due to” in the classification, provider documentation must link the conditions in order to code them as related.

##### 1) Hypertension with heart disease

Hypertension with heart conditions classified to I50.- or I51.4-I51.9, are assigned to a code from category I11, Hypertensive heart disease. Use additional code(s) from category I50, Heart failure, to identify the type(s) of heart failure in those patients with heart failure.

The same heart conditions (I50.-, I51.4-I51.9) with hypertension are coded separately if the provider has specifically documented a different cause. Sequence according to the circumstances of the admission/encounter.

Hypertensive heart disease with left heart failure

**I11.0 Hypertensive heart disease with heart failure**

**I50.1 Left ventricular failure, unspecified**

*Explanation:* A causal relationship between hypertension and heart disease must be stated or implied to report codes from category I11 Hypertensive heart disease. Use an additional code to identify type of heart failure (I50.-).

##### 2) Hypertensive chronic kidney disease

Assign codes from category I12, Hypertensive chronic kidney disease, when both hypertension and a condition classifiable to category N18, Chronic kidney disease (CKD), are present. CKD should not be coded as hypertensive if the physician has specifically documented a different cause.

The appropriate code from category N18 should be used as a secondary code with a code from category I12 to identify the stage of chronic kidney disease.

See Section I.C.14. Chronic kidney disease.

If a patient has hypertensive chronic kidney disease and acute renal failure, an additional code for the acute renal failure is required.

Patient is admitted with stage IV chronic kidney disease (CKD). The physician has also documented hypertension for this patient.

**I12.9 Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease**

**N18.4 Chronic kidney disease, stage 4 (severe)**

*Explanation:* A causal relationship between hypertension and chronic kidney disease (CKD) is assumed unless otherwise documented. Use an additional code to identify the stage of chronic kidney disease.

##### 3) Hypertensive heart and chronic kidney disease

Assign codes from combination category I13, Hypertensive heart and chronic kidney disease, when there is hypertension with both heart and kidney involvement. If heart failure is present, assign an additional code from category I50 to identify the type of heart failure.

The appropriate code from category N18, Chronic kidney disease, should be used as a secondary code with a code from category I13 to identify the stage of chronic kidney disease.

See Section I.C.14. Chronic kidney disease.

The codes in category I13, Hypertensive heart and chronic kidney disease, are combination codes that include hypertension, heart disease and chronic kidney disease. The Includes note at I13 specifies that the conditions included at I11 and I12 are included together in I13. If a patient has hypertension, heart disease and chronic kidney disease then a code

from I13 should be used, not individual codes for hypertension, heart disease and chronic kidney disease, or codes from I11 or I12.

For patients with both acute renal failure and chronic kidney disease an additional code for acute renal failure is required.

Hypertensive heart and kidney disease with congestive heart failure and stage 2 chronic kidney disease.

**I13.0 Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease**

**I50.9 Heart failure, unspecified**

**N18.2 Chronic kidney disease, stage 2 (mild)**

*Explanation:* Combination codes in category I13 are used to report conditions classifiable to both categories I11 and I12. Do not report conditions classifiable to I11 and I12 separately. Use additional codes to report type of heart failure and stage of CKD.

##### 4) Hypertensive cerebrovascular disease

For hypertensive cerebrovascular disease, first assign the appropriate code from categories I60-I69, followed by the appropriate hypertension code.

##### 5) Hypertensive retinopathy

Subcategory H35.0, Background retinopathy and retinal vascular changes, should be used with a code from category I10–I15, Hypertensive disease to include the systemic hypertension. The sequencing is based on the reason for the encounter.

Hypertensive retinopathy of the right eye.

**H35.031 Hypertensive retinopathy, right eye**

**I10 Essential (primary) hypertension**

*Explanation:* Hypertensive retinopathy requires two codes: the appropriate subcategory H35.0 code and a code for the hypertension.

##### 6) Hypertension, secondary

Secondary hypertension is due to an underlying condition. Two codes are required: one to identify the underlying etiology and one from category I15 to identify the hypertension. Sequencing of codes is determined by the reason for admission/encounter.

Renovascular hypertension due to renal artery atherosclerosis.

**I15.0 Renovascular hypertension**

**I70.1 Atherosclerosis of renal artery**

*Explanation:* Secondary hypertension requires two codes: a code to identify the etiology and the appropriate I15 code.

##### 7) Hypertension, transient

Assign code R03.0, Elevated blood pressure reading without diagnosis of hypertension, unless patient has an established diagnosis of hypertension. Assign code O13.-, Gestational [pregnancy-induced] hypertension without significant proteinuria, or O14.-, Pre-eclampsia, for transient hypertension of pregnancy.

##### 8) Hypertension, controlled

This diagnostic statement usually refers to an existing state of hypertension under control by therapy. Assign the appropriate code from categories I10-I15, Hypertensive diseases.

##### 9) Hypertension, uncontrolled

Uncontrolled hypertension may refer to untreated hypertension or hypertension not responding to current therapeutic regimen. In either case, assign the appropriate code from categories I10-I15, Hypertensive diseases.

##### 10) Hypertensive crisis

Assign a code from category I16, Hypertensive crisis, for documented hypertensive urgency, hypertensive emergency or unspecified hypertensive crisis. Code also any identified hypertensive disease (I10-I15). The sequencing is based on the reason for the encounter.

##### 10) Pulmonary hypertension

**Pulmonary hypertension is classified to category I27, Other pulmonary heart diseases. For secondary pulmonary hypertension (I27.1, I27.2-), code also any associated conditions or adverse effects of drugs or toxins. The sequencing is based on the reason for the encounter.**



**b. Atherosclerotic coronary artery disease and angina**

ICD-10-CM has combination codes for atherosclerotic heart disease with angina pectoris. The subcategories for these codes are I25.11, Atherosclerotic heart disease of native coronary artery with angina pectoris and I25.7, Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris.

When using one of these combination codes it is not necessary to use an additional code for angina pectoris. A causal relationship can be assumed in a patient with both atherosclerosis and angina pectoris, unless the documentation indicates the angina is due to something other than the atherosclerosis.

If a patient with coronary artery disease is admitted due to an acute myocardial infarction (AMI), the AMI should be sequenced before the coronary artery disease.

See Section I.C.9. Acute myocardial infarction (AMI)

Patient is being seen for spastic angina pectoris. She also has a documented history of progressive coronary artery disease of the native vessels.

**I25.111 Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm**

*Explanation:* Report the combination code for atherosclerotic heart disease (coronary artery disease) with angina pectoris. A causal relationship is assumed in a patient with both atherosclerosis and angina pectoris, unless the documentation indicates the angina is due to something other than the atherosclerosis. When using one of these combination codes, it is not necessary to use an additional code for angina pectoris.

**c. Intraoperative and postprocedural cerebrovascular accident**

Medical record documentation should clearly specify the cause- and- effect relationship between the medical intervention and the cerebrovascular accident in order to assign a code for intraoperative or postprocedural cerebrovascular accident.

Proper code assignment depends on whether it was an infarction or hemorrhage and whether it occurred intraoperatively or postoperatively. If it was a cerebral hemorrhage, code assignment depends on the type of procedure performed.

**d. Sequelae of cerebrovascular disease****1) Category I69, Sequelae of cerebrovascular disease**

Category I69 is used to indicate conditions classifiable to categories I60-I67 as the causes of sequela (neurologic deficits), themselves classified elsewhere. These "late effects" include neurologic deficits that persist after initial onset of conditions classifiable to categories I60-I67. The neurologic deficits caused by cerebrovascular disease may be present from the onset or may arise at any time after the onset of the condition classifiable to categories I60-I67.

Patient admitted for skilled services following hospital stay for stroke due to thrombosis of posterior cerebral artery. Provider documentation indicates residual memory deficit.

**I69.311 Memory deficit following cerebral infarction****I69.392 Facial weakness following cerebral infarction**

*Explanation:* In the post-acute care setting, the residual sequelae of an acute cerebral vascular accident are the focus of care for the encounter. The residual deficits may not be present from the onset and may occur at any time following the initial stroke. All deficits should be coded when documented as related to the cerebrovascular disease, regardless of when they develop. If it is unclear if a condition may be sequelae of cerebrovascular disease, the provider should be queried as to the relationship between the conditions.

Codes from category I69, Sequelae of cerebrovascular disease, that specify hemiplegia, hemiparesis and monoplegia identify whether the dominant or nondominant side is affected. Should the affected side be documented, but not specified as dominant or nondominant, and the classification system does not indicate a default, code selection is as follows:

- For ambidextrous patients, the default should be dominant.
- If the left side is affected, the default is non-dominant.
- If the right side is affected, the default is dominant.

**2) Codes from category I69 with codes from I60-I67**

Codes from category I69 may be assigned on a health care record with codes from I60-I67, if the patient has a current cerebrovascular disease and deficits from an old cerebrovascular disease.

**3) Codes from category I69 and personal history of transient ischemic attack (TIA) and cerebral infarction (Z86.73)**

Codes from category I69 should not be assigned if the patient does not have neurologic deficits.

See Section I.C.21. 4. History (of) for use of personal history codes

An 86-year-old female patient was hospitalized due to transient ischemic attack. The patient is now being discharged with orders for home health for skilled nursing and physical therapy. Provider notes also report hypertension and stage III CKD.

**I12.9 Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease****N18.3 Chronic kidney disease, stage 3 (moderate)****Z86.73 Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits**

*Explanation:* A transient ischemic attack is an event in which blood flow to the brain is blocked temporarily and then restored. Acute symptoms may mimic those of a stroke but, by definition, are transient and therefore resolve quickly and completely. Because no residual deficits are present, code Z86.73 should be assigned to indicate a history of TIA.

**e. Acute myocardial infarction (AMI)****1) Type 1 ST elevation myocardial infarction (STEMI) and non-ST elevation myocardial infarction (NSTEMI)**

The ICD-10-CM codes for **type 1** acute myocardial infarction (AMI) identify the site, such as anterolateral wall or true posterior wall. Subcategories I21.0-I21.2 and code I21.3 are used for **type 1** ST elevation myocardial infarction (STEMI). Code I21.4, Non-ST elevation (NSTEMI) myocardial infarction, is used for **type 1** non ST elevation myocardial infarction (NSTEMI) and nontransmural MIs.

If a **type 1** NSTEMI evolves to STEMI, assign the STEMI code. If a **type 1** STEMI converts to NSTEMI due to thrombolytic therapy, it is still coded as STEMI.

For encounters occurring while the myocardial infarction is equal to, or less than, four weeks old, including transfers to another acute setting or a postacute setting, and the myocardial infarction meets the definition for "other diagnoses" (see Section III, Reporting Additional Diagnoses), codes from category I21 may continue to be reported. For encounters after the 4 week time frame and the patient is still receiving care related to the myocardial infarction, the appropriate aftercare code should be assigned, rather than a code from category I21. For old or healed myocardial infarctions not requiring further care, code I25.2, Old myocardial infarction, may be assigned.

**2) Acute myocardial infarction, unspecified**

Code **I21.9, Acute myocardial infarction, unspecified**, is the default for unspecified acute myocardial infarction or **unspecified type**. If only **type 1** STEMI or transmural MI without the site is documented, assign code I21.3, **ST elevation (STEMI) myocardial infarction of unspecified site**.

**3) AMI documented as nontransmural or subendocardial but site provided**

If an AMI is documented as nontransmural or subendocardial, but the site is provided, it is still coded as a subendocardial AMI.

See Section I.C.21.3 for information on coding status post administration of tPA in a different facility within the last 24 hours.

Acute inferior subendocardial myocardial infarction (NSTEMI).

**I21.4 Non-ST elevation (NSTEMI) myocardial infarction**

*Explanation:* An AMI documented as subendocardial or nontransmural is coded as such (I21.4, I22.2), even if the site of infarction is specified.

**4) Subsequent acute myocardial infarction**

A code from category I22, Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction, is to be used when a patient who has suffered a **type 1** or **unspecified** AMI has a new AMI within the 4 week time frame of the initial AMI. A code from category I22 must be used in conjunction with a code from category I21. The sequencing of the I22 and I21 codes depends on the circumstances of the encounter.

**Do not assign code I22 for subsequent myocardial infarctions other than type 1 or unspecified. For subsequent type 2 AMI assign only code I21.A1. For subsequent type 4 or type 5 AMI, assign only code I21.A9.**

**5) Other types of myocardial infarction**

The ICD-10-CM provides codes for different types of myocardial infarction. Type 1 myocardial infarctions are assigned to codes I21.0-I21.4.

Type 2 myocardial infarction, and myocardial infarction due to demand ischemia or secondary to ischemic balance, is assigned to code I21.A1, Myocardial infarction type 2 with a code for the underlying cause. Do not assign code I24.8, Other forms of acute ischemic heart disease for the demand ischemia. Sequencing of type 2 AMI or the underlying cause is dependent on the circumstances of admission. When a type 2 AMI code is described as NSTEMI or STEMI, only assign code I21.A1. Codes I21.01-I21.4 should only be assigned for type 1 AMIs.

Acute myocardial infarctions type 3, 4a, 4b, 4c and 5 are assigned to code I21.A9, Other myocardial infarction type.

The "Code also" and "Code first" notes should be followed related to complications, and for coding of postprocedural myocardial infarctions during or following cardiac surgery.

## Chapter 10. Diseases of the Respiratory System (J00–J99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Chronic obstructive pulmonary disease [COPD] and asthma

##### 1) Acute exacerbation of chronic obstructive bronchitis and asthma

The codes in categories J44 and J45 distinguish between uncomplicated cases and those in acute exacerbation. An acute exacerbation is a worsening or a decompensation of a chronic condition. An acute exacerbation is not equivalent to an infection superimposed on a chronic condition, though an exacerbation may be triggered by an infection.

Patient is admitted for continued IV antibiotic administration and physical therapy with diagnoses of MRSA pneumonia with acute exacerbation of COPD. Provider documentation indicates comorbid moderate persistent asthma.

**J15.212**     **Pneumonia due to Methicillin resistant Staphylococcus aureus**

**J44.0**         **Chronic obstructive pulmonary disease with acute lower respiratory infection**

**J44.1**         **Chronic obstructive pulmonary disease with (acute) exacerbation**

**J45.40**       **Moderate persistent asthma, uncomplicated**

*Explanation:* ICD-10-CM uses combination codes to create organism-specific classifications for many types of pneumonia. Category J44 distinguishes between COPD that is exacerbated, COPD with acute lower respiratory infection, and COPD without mention of a complication (unspecified). When a lower respiratory infection is present and COPD is diagnosed, two codes would be required, J44.0 and the code for the infection. Sequencing will be dependent on the condition that is the focus of treatment upon admission to the post-acute setting, which in this case is the MRSA pneumonia.

An acute exacerbation is a worsening or decompensation of a chronic condition and must be specified by the provider as such. When both COPD and asthma are diagnosed and the provider reports an acute exacerbation of COPD, an acute exacerbation of asthma cannot be assumed unless specifically stated by the provider.

Exacerbation of moderate persistent asthma with status asthmaticus.

**J45.42**       **Moderate persistent asthma with status asthmaticus**

*Explanation:* Category J45 Asthma includes severity-specific subcategories and fifth-character codes to distinguish between uncomplicated cases, those in acute exacerbation, and those with status asthmaticus.

#### b. Acute respiratory failure

##### 1) Acute respiratory failure as principal diagnosis

A code from subcategory J96.0, Acute respiratory failure, or subcategory J96.2, Acute and chronic respiratory failure, may be assigned as a principal diagnosis when it is the condition established after study to be chiefly responsible for occasioning the admission to the hospital, and the selection is supported by the Alphabetic Index and Tabular List. However, chapter-specific coding guidelines (such as obstetrics, poisoning, HIV, newborn) that provide sequencing direction take precedence.

##### 2) Acute respiratory failure as secondary diagnosis

Respiratory failure may be listed as a secondary diagnosis if it occurs after admission, or if it is present on admission, but does not meet the definition of principal diagnosis.

Acute pneumococcal pneumonia with subsequent development of acute respiratory failure.

**J13**             **Pneumonia due to Streptococcus pneumoniae**

**J96.00**       **Acute respiratory failure, unspecified whether with hypoxia or hypercapnia**

*Explanation:* Acute respiratory failure may be listed as a secondary diagnosis if it occurs after admission, or if it is present on admission but does not meet the definition of principal diagnosis.

#### 3) Sequencing of acute respiratory failure and another acute condition

When a patient is admitted with respiratory failure and another acute condition, (e.g., myocardial infarction, cerebrovascular accident, aspiration pneumonia), the principal diagnosis will not be the same in every situation. This applies whether the other acute condition is a respiratory or nonrespiratory condition. Selection of the principal diagnosis will be dependent on the circumstances of admission. If both the respiratory failure and the other acute condition are equally responsible for occasioning the admission to the hospital, and there are no chapter-specific sequencing rules, the guideline regarding two or more diagnoses that equally meet the definition for principal diagnosis (Section II, C.) may be applied in these situations.

If the documentation is not clear as to whether acute respiratory failure and another condition are equally responsible for occasioning the admission, query the provider for clarification.

#### c. Influenza due to certain identified influenza viruses

Code only confirmed cases of influenza due to certain identified influenza viruses (category J09), and due to other identified influenza virus (category J10). This is an exception to the hospital inpatient guideline Section II, H. (Uncertain Diagnosis).

In this context, "confirmation" does not require documentation of positive laboratory testing specific for avian or other novel influenza A or other identified influenza virus. However, coding should be based on the provider's diagnostic statement that the patient has avian influenza, or other novel influenza A, for category J09, or has another particular identified strain of influenza, such as H1N1 or H3N2, but not identified as novel or variant, for category J10.

If the provider records "suspected" or "possible" or "probable" avian influenza, or novel influenza, or other identified influenza, then the appropriate influenza code from category J11, Influenza due to unidentified influenza virus, should be assigned. A code from category J09, Influenza due to certain identified influenza viruses, should not be assigned nor should a code from category J10, Influenza due to other identified influenza virus.

Influenza due to avian influenza virus with pneumonia.

**J09.X1**       **Influenza due to identified novel influenza A virus with pneumonia**

*Explanation:* Codes in category J09 Influenza due to certain identified influenza viruses should be assigned only for confirmed cases. "Confirmation" does not require positive laboratory testing of a specific influenza virus but does need to be based on the provider's diagnostic statement, which should not include terms such as "possible," "probable," or "suspected."

#### d. Ventilator associated pneumonia

##### 1) Documentation of ventilator associated pneumonia

As with all procedural or postprocedural complications, code assignment is based on the provider's documentation of the relationship between the condition and the procedure.

Code J95.851, Ventilator associated pneumonia, should be assigned only when the provider has documented ventilator associated pneumonia (VAP). An additional code to identify the organism (e.g., Pseudomonas aeruginosa, code B96.5) should also be assigned. Do not assign an additional code from categories J12-J18 to identify the type of pneumonia.

Code J95.851 should not be assigned for cases where the patient has pneumonia and is on a mechanical ventilator and the provider has not specifically stated that the pneumonia is ventilator-associated pneumonia. If the documentation is unclear as to whether the patient has a pneumonia that is a complication attributable to the mechanical ventilator, query the provider.

**2) Ventilator associated pneumonia develops after admission**

A patient may be admitted with one type of pneumonia (e.g., code J13, Pneumonia due to *Streptococcus pneumoniae*) and subsequently develop VAP. In this instance, the principal diagnosis would be the appropriate code from categories J12-J18 for the pneumonia diagnosed at the time of admission. Code J95.851, Ventilator associated pneumonia, would be assigned as an additional diagnosis when the provider has also documented the presence of ventilator associated pneumonia.

Patient with pneumonia due to *Klebsiella pneumoniae* develops superimposed MRSA ventilator-associated pneumonia.

**J15.0 Pneumonia due to *Klebsiella pneumoniae***

**J95.851 Ventilator associated pneumonia**

**B95.62 Methicillin resistant *Staphylococcus aureus* infection as the cause of diseases classified elsewhere**

*Explanation:* Code assignment for ventilator-associated pneumonia is based on the provider's documentation of the relationship between the condition and the procedure and is reported only when the provider has documented ventilator-associated pneumonia (VAP).

A patient may be admitted with one type of pneumonia and subsequently develop VAP. In this example, the principal diagnosis code describes the pneumonia diagnosed at the time of admission, with code J95.851 Ventilator associated pneumonia, assigned as secondary.

## Chapter 11. Diseases of the Digestive System (K00–K95)

**Chapter Specific Coding Guidelines and Examples**  
Reserved for future guideline expansion.

## Chapter 12. Diseases of the Skin and Subcutaneous Tissue (L00–L99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Pressure ulcer stage codes

##### 1) Pressure ulcer stages

Codes from category L89, Pressure ulcer, are combination codes that identify the site of the pressure ulcer as well as the stage of the ulcer. The ICD-10-CM classifies pressure ulcer stages based on severity, which is designated by stages 1-4, unspecified stage and unstageable.

Assign as many codes from category L89 as needed to identify all the pressure ulcers the patient has, if applicable.

Stage 4 pressure ulcer right heel, 9 x 10 cm that invades the muscle and fascia; stage 2 pressure ulcer of left elbow.

**L89.614 Pressure ulcer of right heel, stage 4**

**L89.022 Pressure ulcer of left elbow, stage 2**

*Explanation:* Patient has a right heel pressure ulcer documented as stage 4 and a left elbow pressure ulcer documented as stage 2. Combination codes from category L89 Pressure ulcer, identify the site of the pressure ulcer as well as the stage. Assign as many codes from category L89 as needed to identify all the pressure ulcers the patient has.

##### 2) Unstageable pressure ulcers

Assignment of the code for unstageable pressure ulcer (L89.--0) should be based on the clinical documentation. These codes are used for pressure ulcers whose stage cannot be clinically determined (e.g., the ulcer is covered by eschar or has been treated with a skin or muscle graft) and pressure ulcers that are documented as deep tissue injury but not documented as due to trauma. This code should not be confused with the codes for unspecified stage (L89.--9). When there is no documentation regarding the stage of the pressure ulcer, assign the appropriate code for unspecified stage (L89.--9).

Pressure ulcer of the right lower back documented as unstageable due to the presence of thick eschar covering the ulcer.

**L89.130 Pressure ulcer of right lower back, unstageable**

*Explanation:* Codes for unstageable pressure ulcers are assigned when the stage cannot be clinically determined (e.g., the ulcer is covered by eschar or has been treated with a skin or muscle graft).

##### 3) Documented pressure ulcer stage

Assignment of the pressure ulcer stage code should be guided by clinical documentation of the stage or documentation of the terms found in the Alphabetic Index. For clinical terms describing the stage that are not found in the Alphabetic Index, and there is no documentation of the stage, the provider should be queried.

Left heel pressure ulcer with partial thickness skin loss involving the dermis.

**L89.622 Pressure ulcer of left heel, stage 2**

*Explanation:* Code assignment for the pressure ulcer stage should be guided by either the clinical documentation of the stage or the documentation of terms found in the Alphabetic Index. The clinical documentation describing the left heel pressure ulcer "partial thickness skin loss involving the dermis" matches the ICD-10-CM index parenthetical description for stage 2 "(abrasion, blister, partial thickness skin loss involving epidermis and/or dermis)."

#### 4) Patients admitted with pressure ulcers documented as healed

No code is assigned if the documentation states that the pressure ulcer is completely healed.

Patient is admitted for a second skilled home health admission within one year and is known to previously have had a pressure ulcer of the left heel during last admission 8 months prior. The area is observed and is currently healed with no signs of tissue breakdown.

**Z87.2 Personal history of diseases of the skin and subcutaneous tissue**

*Explanation:* Assign only code Z87.2 indicating a history of pressure ulcer. This code includes conditions classifiable to L00–L99 such as pressure ulcers. Code L89 should not be assigned for a pressure ulcer that is reported to be healed.

#### 5) Patients admitted with pressure ulcers documented as healing

Pressure ulcers described as healing should be assigned the appropriate pressure ulcer stage code based on the documentation in the medical record. If the documentation does not provide information about the stage of the healing pressure ulcer, assign the appropriate code for unspecified stage.

If the documentation is unclear as to whether the patient has a current (new) pressure ulcer or if the patient is being treated for a healing pressure ulcer, query the provider.

For ulcers that were present on admission but healed at the time of discharge, assign the code for the site and stage of the pressure ulcer at the time of admission.

#### 6) Patient admitted with pressure ulcer evolving into another stage during the admission

If a patient is admitted to an inpatient hospital with a pressure ulcer at one stage and it progresses to a higher stage, two separate codes should be assigned: one code for the site and stage of the ulcer on admission and a second code for the same ulcer site and the highest stage reported during the stay.

#### b. Non-pressure chronic ulcers

##### 1) Patients admitted with non-pressure ulcers documented as healed

No code is assigned if the documentation states that the non-pressure ulcer is completely healed.

##### 2) Patients admitted with non-pressure ulcers documented as healing

Non-pressure ulcers described as healing should be assigned the appropriate non-pressure ulcer code based on the documentation in the medical record. If the documentation does not provide information about the severity of the healing non-pressure ulcer, assign the appropriate code for unspecified severity.

If the documentation is unclear as to whether the patient has a current (new) non-pressure ulcer or if the patient is being treated for a healing non-pressure ulcer, query the provider.

For ulcers that were present on admission but healed at the time of discharge, assign the code for the site and severity of the non-pressure ulcer at the time of admission.

##### 3) Patient admitted with non-pressure ulcer that progresses to another severity level during the admission

If a patient is admitted to an inpatient hospital with a non-pressure ulcer at one severity level and it progresses to a higher severity level, two separate codes should be assigned: one code for the site and severity level of the ulcer on admission and a second code for the same ulcer site and the highest severity level reported during the stay.

## Chapter 13. Diseases of the Musculoskeletal System and Connective Tissue (M00–M99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Site and laterality

Most of the codes within Chapter 13 have site and laterality designations. The site represents the bone, joint or the muscle involved. For some conditions where more than one bone, joint or muscle is usually involved, such as osteoarthritis, there is a “multiple sites” code available. For categories where no multiple site code is provided and more than one bone, joint or muscle is involved, multiple codes should be used to indicate the different sites involved.

Right elbow infective bursitis

#### M71.121 Other infective bursitis, right elbow

*Explanation:* Most of the codes within chapter 13 have site and laterality designations. The site represents the bone, joint, or the muscle involved.

Rheumatoid arthritis of multiple sites without rheumatoid factor

#### M06.09 Rheumatoid arthritis without rheumatoid factor, multiple sites

*Explanation:* For some conditions where more than one bone, joint or muscle is usually involved, such as osteoarthritis, there is a “multiple sites” code available.

Osteomyelitis of the fourth thoracic and second lumbar vertebrae

#### M46.24 Osteomyelitis of vertebra, thoracic region

#### M46.26 Osteomyelitis of vertebra, lumbar region

*Explanation:* For categories without a multiple site code and more than one bone, joint, or muscle is involved, multiple codes should be used to indicate the different sites involved.

#### 1) Bone versus joint

For certain conditions, the bone may be affected at the upper or lower end, (e.g., avascular necrosis of bone, M87, Osteoporosis, M80, M81). Though the portion of the bone affected may be at the joint, the site designation will be the bone, not the joint.

Idiopathic avascular necrosis of the femoral head of the left hip joint

#### M87.052 Idiopathic aseptic necrosis of left femur

*Explanation:* For certain conditions such as avascular necrosis, the bone may be affected at the joint, but the site designation is the bone, not the joint.

#### b. Acute traumatic versus chronic or recurrent musculoskeletal conditions

Many musculoskeletal conditions are a result of previous injury or trauma to a site, or are recurrent conditions. Bone, joint or muscle conditions that are the result of a healed injury are usually found in chapter 13. Recurrent bone, joint or muscle conditions are also usually found in chapter 13. Any current, acute injury should be coded to the appropriate injury code from chapter 19. Chronic or recurrent conditions should generally be coded with a code from chapter 13. If it is difficult to determine from the documentation in the record which code is best to describe a condition, query the provider.

Old bucket handle tear of right medial meniscus

#### M23.203 Derangement of unspecified medial meniscus due to old tear or injury, right knee

*Explanation:* Chronic or recurrent conditions should generally be coded with a code from chapter 13.

#### c. Coding of pathologic fractures

7th character A is for use as long as the patient is receiving active treatment for the fracture. Examples of active treatment are: surgical treatment, emergency department encounter, evaluation and continuing treatment by the same or a different physician. While the patient may be seen by a new or different provider over the course of treatment for a pathological fracture, assignment of the 7th character is based on whether the patient is

undergoing active treatment and not whether the provider is seeing the patient for the first time.

7th character D is to be used for encounters after the patient has completed active treatment **for the fracture and is receiving routine care for the fracture during the healing or recovery phase**. The other 7th characters, listed under each subcategory in the Tabular List, are to be used for subsequent encounters for treatment of problems associated with the healing, such as malunions, nonunions, and sequelae.

Following a hospital and inpatient rehabilitation stay for treatment of a pathological fracture of the right femur, a 72-year-old woman is admitted to home health for continued physical therapy and pain management.

#### M84.451D Pathological fracture, right femur, subsequent encounter for fracture with routine healing

*Explanation:* The use of seventh character D is appropriate when the patient is receiving routine care for the fracture during the healing and recovery phase. Depending on the category/subcategory, other seventh characters are available to designate subsequent care related to complications associated with the healing phase. For subcategory M84.4- these include delayed healing (seventh character G), nonunion (seventh character K), malunion (seventh character P), and sequela (seventh character S).

Care for complications of surgical treatment for fracture repairs during the healing or recovery phase should be coded with the appropriate complication codes.

See Section I.C.19. Coding of traumatic fractures.

#### d. Osteoporosis

Osteoporosis is a systemic condition, meaning that all bones of the musculoskeletal system are affected. Therefore, site is not a component of the codes under category M81, Osteoporosis without current pathological fracture. The site codes under category M80, Osteoporosis with current pathological fracture, identify the site of the fracture, not the osteoporosis.

#### 1) Osteoporosis without pathological fracture

Category M81, Osteoporosis without current pathological fracture, is for use for patients with osteoporosis who do not currently have a pathologic fracture due to the osteoporosis, even if they have had a fracture in the past. For patients with a history of osteoporosis fractures, status code Z87.310, Personal history of (healed) osteoporosis fracture, should follow the code from M81.

Age-related osteoporosis with healed osteoporotic fracture of the lumbar vertebra

#### M81.0 Age-related osteoporosis without current pathological fracture

#### Z87.310 Personal history of (healed) osteoporosis fracture

*Explanation:* Category M81 is used for patients with osteoporosis who do not currently have a pathologic fracture due to the osteoporosis. To report a previous (healed) fracture, status code Z87.310 Personal history of (healed) osteoporosis fracture, should follow the code from M81.

#### 2) Osteoporosis with current pathological fracture

Category M80, Osteoporosis with current pathological fracture, is for patients who have a current pathologic fracture at the time of an encounter. The codes under M80 identify the site of the fracture. A code from category M80, not a traumatic fracture code, should be used for any patient with known osteoporosis who suffers a fracture, even if the patient had a minor fall or trauma, if that fall or trauma would not usually break a normal, healthy bone.

Disuse osteoporosis with current fracture of right shoulder sustained lifting a grocery bag, subsequent encounter

#### M80.811D Other osteoporosis with current pathological fracture, right shoulder, subsequent encounter for fracture with routine healing

*Explanation:* A code from category M80, not a traumatic fracture code, should be used for any patient with known osteoporosis who suffers a fracture, even if the patient had a minor fall or trauma, if that fall or trauma would not usually break a normal, healthy bone.

## Muscle/Tendon Table

ICD-10-CM categorizes certain muscles and tendons in the upper and lower extremities by their action (e.g., extension, flexion), their anatomical location (e.g., posterior, anterior), and/or whether they are intrinsic or extrinsic to a certain anatomical area. The Muscle/Tendon Table is provided at the beginning of chapters 13 and 19 as a resource to help users when code selection depends on one or more of these characteristics. Please note that this table is not all-inclusive, and proper code assignment should be based on the provider's documentation.

Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Shoulder</b>				
	Deltoid	Posterior deltoid	Anterior deltoid	
	Rotator cuff			
	Infraspinatus			Infraspinatus
	Subscapularis			Subscapularis
	Supraspinatus			Supraspinatus
	Teres minor			Teres minor
	Teres major	Teres major		
<b>Upper arm</b>				
	Anterior muscles			
	Biceps brachii — long head		Biceps brachii — long head	
	Biceps brachii — short head		Biceps brachii — short head	
	Brachialis		Brachialis	
	Coracobrachialis		Coracobrachialis	
	Posterior muscles			
	Triceps brachii	Triceps brachii		
<b>Forearm</b>				
	Anterior muscles			
	Flexors			
	Deep			
	Flexor digitorum profundus		Flexor digitorum profundus	
	Flexor pollicis longus		Flexor pollicis longus	
	Intermediate			
	Flexor digitorum superficialis		Flexor digitorum superficialis	
	Superficial			
	Flexor carpi radialis		Flexor carpi radialis	
	Flexor carpi ulnaris		Flexor carpi ulnaris	
	Palmaris longus		Palmaris longus	
	Pronators			
	Pronator quadratus			Pronator quadratus
	Pronator teres			Pronator teres
	Posterior muscles			
	Extensors			
	Deep			
	Abductor pollicis longus			Abductor pollicis longus
	Extensor indicis	Extensor indicis		
	Extensor pollicis brevis	Extensor pollicis brevis		
	Extensor pollicis longus	Extensor pollicis longus		
	Superficial			
	Brachioradialis			Brachioradialis
	Extensor carpi radialis brevis	Extensor carpi radialis brevis		
	Extensor carpi radialis longus	Extensor carpi radialis longus		
	Extensor carpi ulnaris	Extensor carpi ulnaris		
	Extensor digiti minimi	Extensor digiti minimi		
	Extensor digitorum	Extensor digitorum		
	Anconeus	Anconeus		
	Supinator			Supinator



Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Hand</b>				
Extrinsic — attach to a site in the forearm as well as a site in the hand with action related to hand movement at the wrist				
	Extensor carpi radialis brevis	Extensor carpi radialis brevis		
	Extensor carpi radialis longus	Extensor carpi radialis longus		
	Extensor carpi ulnaris	Extensor carpi ulnaris		
	Flexor carpi radialis		Flexor carpi radialis	
	Flexor carpi ulnaris		Flexor carpi ulnaris	
	Flexor digitorum superficialis		Flexor digitorum superficialis	
	Palmaris longus		Palmaris longus	
Extrinsic — attach to a site in the forearm as well as a site in the hand with action in the hand related to finger movement				
	Adductor pollicis longus			Adductor pollicis longus
	Extensor digiti minimi	Extensor digiti minimi		
	Extensor digitorum	Extensor digitorum		
	Extensor indicis	Extensor indicis		
	Flexor digitorum profundus		Flexor digitorum profundus	
	Flexor digitorum superficialis		Flexor digitorum superficialis	
Extrinsic — attach to a site in the forearm as well as a site in the hand with action in the hand related to thumb movement				
	Extensor pollicis brevis	Extensor pollicis brevis		
	Extensor pollicis longus	Extensor pollicis longus		
	Flexor pollicis longus		Flexor pollicis longus	
Intrinsic — found within the hand only				
	Adductor pollicis			Adductor pollicis
	Dorsal interossei	Dorsal interossei	Dorsal interossei	
	Lumbricals	Lumbricals	Lumbricals	
	Palmaris brevis			Palmaris brevis
	Palmar interossei	Palmar interossei	Palmar interossei	
	<b>Hypothenar muscles</b>			
	Abductor digiti minimi			Abductor digiti minimi
	Flexor digiti minimi brevis		Flexor digiti minimi brevis	
	Opponens digiti minimi		Opponens digiti minimi	
	<b>Thenar muscles</b>			
	Abductor pollicis brevis			Abductor pollicis brevis
	Flexor pollicis brevis		Flexor pollicis brevis	
	Opponens pollicis		Opponens pollicis	
<b>Thigh</b>				
	<b>Anterior muscles</b>			
	Iliopsoas		Iliopsoas	
	Pectineus		Pectineus	
	Quadriceps	Quadriceps		
	Rectus femoris	Rectus femoris — Extends knee	Rectus femoris — Flexes hip	
	Vastus intermedius	Vastus intermedius		
	Vastus lateralis	Vastus lateralis		
	Vastus medialis	Vastus medialis		
	Sartorius		Sartorius	
	<b>Medial muscles</b>			
	Adductor brevis			Adductor brevis
	Adductor longus			Adductor longus
	Adductor magnus			Adductor magnus
	Gracilis			Gracilis
	Obturator externus			Obturator externus
	<b>Posterior muscles</b>			
	Hamstring	Hamstring — Extends hip	Hamstring — Flexes knee	
	Biceps femoris	Biceps femoris	Biceps femoris	
	Semimembranosus	Semimembranosus	Semimembranosus	
	Semitendinosus	Semitendinosus	Semitendinosus	

Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Lower leg</b>				
	<b>Anterior muscles</b>			
	Extensor digitorum longus	Extensor digitorum longus		
	Extensor hallucis longus	Extensor hallucis longus		
	Fibularis (peroneus) tertius	Fibularis (peroneus) tertius		
	Tibialis anterior	Tibialis anterior		Tibialis anterior
	<b>Lateral muscles</b>			
	Fibularis (peroneus) brevis		Fibularis (peroneus) brevis	
	Fibularis (peroneus) longus		Fibularis (peroneus) longus	
	<b>Posterior muscles</b>			
	<b>Deep</b>			
	Flexor digitorum longus		Flexor digitorum longus	
	Flexor hallucis longus		Flexor hallucis longus	
	Popliteus		Popliteus	
	Tibialis posterior		Tibialis posterior	
	<b>Superficial</b>			
	Gastrocnemius		Gastrocnemius	
	Plantaris		Plantaris	
	Soleus		Soleus	
				Calcaneal (Achilles)
<b>Ankle/Foot</b>				
<b>Extrinsic — attach to a site in the lower leg as well as a site in the foot with action related to foot movement at the ankle</b>				
	Plantaris		Plantaris	
	Soleus		Soleus	
	Tibialis anterior	Tibialis anterior		
	Tibialis posterior		Tibialis posterior	
<b>Extrinsic — attach to a site in the lower leg as well as a site in the foot with action in the foot related to toe movement</b>				
	Extensor digitorum longus	Extensor digitorum longus		
	Extensor hallucis longus	Extensor hallucis longus		
	Flexor digitorum longus		Flexor digitorum longus	
	Flexor hallucis longus		Flexor hallucis longus	
<b>Intrinsic — found within the ankle/foot only</b>				
	<b>Dorsal muscles</b>			
	Extensor digitorum brevis	Extensor digitorum brevis		
	Extensor hallucis brevis	Extensor hallucis brevis		
	<b>Plantar muscles</b>			
	Abductor digiti minimi		Abductor digiti minimi	
	Abductor hallucis		Abductor hallucis	
	Dorsal interossei	Dorsal interossei	Dorsal interossei	
	Flexor digiti minimi brevis		Flexor digiti minimi brevis	
	Flexor digitorum brevis		Flexor digitorum brevis	
	Flexor hallucis brevis		Flexor hallucis brevis	
	Lumbricals	Lumbricals	Lumbricals	
	Quadratus plantae		Quadratus plantae	
	Plantar interossei	Plantar interossei	Plantar interossei	

## Chapter 14. Diseases of Genitourinary System (N00–N99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Chronic kidney disease

##### 1) Stages of chronic kidney disease (CKD)

The ICD-10-CM classifies CKD based on severity. The severity of CKD is designated by stages 1-5. Stage 2, code N18.2, equates to mild CKD; stage 3, code N18.3, equates to moderate CKD; and stage 4, code N18.4, equates to severe CKD. Code N18.6, End stage renal disease (ESRD), is assigned when the provider has documented end-stage-renal disease (ESRD).

If both a stage of CKD and ESRD are documented, assign code N18.6 only.

Stage 5 chronic kidney disease with ESRD requiring chronic dialysis

**N18.6** End stage renal disease  
**Z99.2** Dependence on renal dialysis

*Explanation:* The diagnostic statement indicates the patient has chronic kidney disease, documented both as stage 5 and as ESRD requiring chronic dialysis. Code N18.6 End stage renal disease (ESRD), is assigned when the provider has documented end-stage-renal disease (ESRD). If both a stage of CKD and ESRD are documented, assign code N18.6 only.

##### 2) Chronic kidney disease and kidney transplant status

Patients who have undergone kidney transplant may still have some form of chronic kidney disease (CKD) because the kidney transplant may not fully restore kidney function. Therefore, the presence of CKD alone does not constitute a transplant complication. Assign the appropriate N18 code for the patient's stage of CKD and code Z94.0, Kidney transplant status. If a transplant complication such as failure or rejection or other transplant complication is documented, see section I.C.19.g for information on coding complications of a kidney transplant. If the documentation is unclear as to whether the patient has a complication of the transplant, query the provider.

Patient with residual chronic kidney disease stage 1 after kidney transplant

**N18.1** Chronic kidney disease, stage 1  
**Z94.0** Kidney transplant status

*Explanation:* Patients who have undergone kidney transplant may still have some form of chronic kidney disease (CKD) because the kidney transplant may not fully restore kidney function. The presence of CKD alone does not constitute a transplant complication. Assign the appropriate N18 code for the patient's stage of CKD and code Z94.0 Kidney transplant status.

##### 3) Chronic kidney disease with other conditions

Patients with CKD may also suffer from other serious conditions, most commonly diabetes mellitus and hypertension. The sequencing of the CKD code in relationship to codes for other contributing conditions is based on the conventions in the Tabular List.

See I.C.9. Hypertensive chronic kidney disease.

See I.C.19. Chronic kidney disease and kidney transplant complications.

Type 1 diabetic chronic kidney disease, stage 2

**E10.22** Type 1 diabetes mellitus with diabetic chronic kidney disease

**N18.2** Chronic kidney disease, stage 2 (mild)

*Explanation:* Patients with CKD may also suffer from other serious conditions such as diabetes mellitus. The sequencing of the CKD code in relationship to codes for other contributing conditions is based on the conventions in the Tabular List. Diabetic CKD code E10.22 includes an instructional note to "Use additional code to identify stage of chronic kidney disease (N18.1–N18.6)," thus providing sequencing direction.

## Chapter 15. Pregnancy, Childbirth and the Puerperium (O00–O9A)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. General rules for obstetric cases

##### 1) Codes from chapter 15 and sequencing priority

Obstetric cases require codes from chapter 15, codes in the range O00–O9A, Pregnancy, Childbirth, and the Puerperium. Chapter 15 codes have sequencing priority over codes from other chapters. Additional codes from other chapters may be used in conjunction with chapter 15 codes to further specify conditions. Should the provider document that the pregnancy is incidental to the encounter, then code Z33.1, Pregnant state, incidental, should be used in place of any chapter 15 codes. It is the provider's responsibility to state that the condition being treated is not affecting the pregnancy.

Bladder abscess in pregnant patient at 25 weeks' gestation

**O23.12** Infections of bladder in pregnancy, second trimester

**N30.80** Other cystitis without hematuria

**Z3A.25** 25 weeks gestation of pregnancy

*Explanation:* The documentation does not indicate that the pregnancy is incidental or in any way unaffected by the bladder abscess; therefore, an obstetrics code should be sequenced first. An additional code was provided to identify the specific bladder condition as this information is not called out specifically in the obstetrics code.

##### 2) Chapter 15 codes used only on the maternal record

Chapter 15 codes are to be used only on the maternal record, never on the record of the newborn.

##### 3) Final character for trimester

The majority of codes in Chapter 15 have a final character indicating the trimester of pregnancy. The timeframes for the trimesters are indicated at the beginning of the chapter. If trimester is not a component of a code, it is because the condition always occurs in a specific trimester, or the concept of trimester of pregnancy is not applicable. Certain codes have characters for only certain trimesters because the condition does not occur in all trimesters, but it may occur in more than just one.

Assignment of the final character for trimester should be based on the provider's documentation of the trimester (or number of weeks) for the current admission/encounter. This applies to the assignment of trimester for pre-existing conditions as well as those that develop during or are due to the pregnancy. The provider's documentation of the number of weeks may be used to assign the appropriate code identifying the trimester.

Whenever delivery occurs during the current admission, and there is an "in childbirth" option for the obstetric complication being coded, the "in childbirth" code should be assigned.

Pregnant patient at 21 weeks' gestation admitted with excessive vomiting

**O21.2** Late vomiting of pregnancy

**Z3A.21** 21 weeks gestation of pregnancy

*Explanation:* Category O21 classifies vomiting in pregnancy. Although code selection is based on whether the vomiting is before or after 20 completed weeks, these codes are not further classified by trimester. If vomiting only in the second trimester was documented, the provider should be queried for the specific week of gestation, as this will affect code selection.

##### 4) Selection of trimester for inpatient admissions that encompass more than one trimester

In instances when a patient is admitted to a hospital for complications of pregnancy during one trimester and remains in the hospital into a subsequent trimester, the trimester character for the antepartum complication code should be assigned on the basis of the trimester when the complication developed, not the trimester of the discharge. If the condition developed prior to the current admission/encounter or represents a pre-existing condition, the trimester character for the trimester at the time of the admission/encounter should be assigned.

##### 5) Unspecified trimester

Each category that includes codes for trimester has a code for "unspecified trimester." The "unspecified trimester" code should rarely be used, such as when the documentation in the record is insufficient to determine the trimester and it is not possible to obtain clarification.

##### 6) 7th character for fetus identification

Where applicable, a 7th character is to be assigned for certain categories (O31, O32, O33.3 - O33.6, O35, O36, O40, O41, O60.1, O60.2, O64, and O69) to identify the fetus for which the complication code applies.

Assign 7th character "0":

- For single gestations
- When the documentation in the record is insufficient to determine the fetus affected and it is not possible to obtain clarification.
- When it is not possible to clinically determine which fetus is affected.

#### b. Selection of OB principal or first-listed diagnosis

##### 1) Routine outpatient prenatal visits

For routine outpatient prenatal visits when no complications are present, a code from category Z34, Encounter for supervision of normal pregnancy, should be used as the first-listed diagnosis. These codes should not be used in conjunction with chapter 15 codes.

##### 2) Supervision of high-risk pregnancy

Codes from category O09, Supervision of high-risk pregnancy, are intended for use only during the prenatal period. For complications during the labor or delivery episode as a result of a high-risk pregnancy, assign the applicable complication codes from Chapter 15. If there are no complications during the labor or delivery episode, assign code O80, Encounter for full-term uncomplicated delivery.

For routine prenatal outpatient visits for patients with high-risk pregnancies, a code from category O09, Supervision of high-risk pregnancy, should be used as the first-listed diagnosis. Secondary chapter 15 codes may be used in conjunction with these codes if appropriate.

##### 3) Episodes when no delivery occurs

In episodes when no delivery occurs, the principal diagnosis should correspond to the principal complication of the pregnancy which necessitated the encounter. Should more than one complication exist, all of which are treated or monitored, any of the complications codes may be sequenced first.

##### 4) When a delivery occurs

When an obstetric patient is admitted and delivers during that admission, the condition that prompted the admission should be sequenced as the principal diagnosis. If multiple conditions prompted the admission, sequence the one most related to the delivery as the principal diagnosis. A code for any complication of the delivery should be assigned as an additional diagnosis. In cases of cesarean delivery, if the patient was admitted with a condition that resulted in the performance of a cesarean procedure, that condition should be selected as the principal diagnosis. If the reason for the admission was unrelated to the condition resulting in the cesarean delivery, the condition related to the reason for the admission should be selected as the principal diagnosis.

##### 5) Outcome of delivery

A code from category Z37, Outcome of delivery, should be included on every maternal record when a delivery has occurred. These codes are not to be used on subsequent records or on the newborn record.

#### c. Pre-existing conditions versus conditions due to the pregnancy

Certain categories in Chapter 15 distinguish between conditions of the mother that existed prior to pregnancy (pre-existing) and those that are a direct result of pregnancy. When assigning codes from Chapter 15, it is important to assess if a condition was pre-existing prior to pregnancy or developed during or due to the pregnancy in order to assign the correct code.

Categories that do not distinguish between pre-existing and pregnancy-related conditions may be used for either. It is acceptable to use codes specifically for the puerperium with codes complicating pregnancy and childbirth if a condition arises postpartum during the delivery encounter.

**d. Pre-existing hypertension in pregnancy**

Category O10, Pre-existing hypertension complicating pregnancy, childbirth and the puerperium, includes codes for hypertensive heart and hypertensive chronic kidney disease. When assigning one of the O10 codes that includes hypertensive heart disease or hypertensive chronic kidney disease, it is necessary to add a secondary code from the appropriate hypertension category to specify the type of heart failure or chronic kidney disease. See Section I.C.9. Hypertension.

**e. Fetal conditions affecting the management of the mother****1) Codes from categories O35 and O36**

Codes from categories O35, Maternal care for known or suspected fetal abnormality and damage, and O36, Maternal care for other fetal problems, are assigned only when the fetal condition is actually responsible for modifying the management of the mother, i.e., by requiring diagnostic studies, additional observation, special care, or termination of pregnancy. The fact that the fetal condition exists does not justify assigning a code from this series to the mother's record.

**2) In utero surgery**

In cases when surgery is performed on the fetus, a diagnosis code from category O35, Maternal care for known or suspected fetal abnormality and damage, should be assigned identifying the fetal condition. Assign the appropriate procedure code for the procedure performed.

No code from Chapter 16, the perinatal codes, should be used on the mother's record to identify fetal conditions. Surgery performed in utero on a fetus is still to be coded as an obstetric encounter.

**f. HIV infection in pregnancy, childbirth and the puerperium**

During pregnancy, childbirth or the puerperium, a patient admitted because of an HIV-related illness should receive a principal diagnosis from subcategory O98.7-, Human immunodeficiency [HIV] disease complicating pregnancy, childbirth and the puerperium, followed by the code(s) for the HIV-related illness(es).

Patients with asymptomatic HIV infection status admitted during pregnancy, childbirth, or the puerperium should receive codes of O98.7- and Z21, Asymptomatic human immunodeficiency virus [HIV] infection status.

An HIV-positive female, age 42, with a history of Down syndrome is admitted for skilled nursing care, medication management, and observation due to worsening HIV-associated nephritis during her pregnancy. Current provider reports indicate she is 13 weeks pregnant.

<b>O98.711</b>	<b>Human immunodeficiency virus [HIV] disease complicating pregnancy, first trimester</b>
<b>B20</b>	<b>Human immunodeficiency virus [HIV] disease</b>
<b>N08</b>	<b>Glomerular disorders in diseases classified elsewhere</b>
<b>O99.89</b>	<b>Other specified diseases and conditions complicating pregnancy, childbirth and the puerperium</b>
<b>Q90.9</b>	<b>Down syndrome, unspecified</b>
<b>Z3A.13</b>	<b>13 weeks gestation of pregnancy</b>

*Explanation:* When HIV and associated complications require treatment during the course of a pregnancy, a code from subcategory O98.7- must be assigned, followed by the codes for the HIV infection and any manifestation(s) related to the HIV. Code Z3A.13 should also be used in this scenario to report the current gestation.

**g. Diabetes mellitus in pregnancy**

Diabetes mellitus is a significant complicating factor in pregnancy. Pregnant women who are diabetic should be assigned a code from category O24, Diabetes mellitus in pregnancy, childbirth, and the puerperium, first, followed by the appropriate diabetes code(s) (E08-E13) from Chapter 4.

**h. Long term use of insulin and oral hypoglycemics**

See section I.C.4.a.3 for information on the long term use of insulin and oral hypoglycemic.

**i. Gestational (pregnancy induced) diabetes**

Gestational (pregnancy induced) diabetes can occur during the second and third trimester of pregnancy in women who were not diabetic prior to pregnancy. Gestational diabetes can cause complications in the pregnancy similar to those of pre-existing diabetes mellitus. It also puts the woman at greater risk of developing diabetes after the pregnancy. Codes for gestational diabetes are in subcategory O24.4, Gestational diabetes mellitus. No other code from category O24, Diabetes mellitus in pregnancy, childbirth, and the puerperium, should be used with a code from O24.4.

The codes under subcategory O24.4 include diet controlled, insulin controlled, and controlled by oral hypoglycemic drugs. If a patient with gestational diabetes is treated with both diet and insulin, only the code for insulin-controlled is required. If a patient with gestational diabetes is treated with both diet and oral hypoglycemic medications, only the code for "controlled by oral hypoglycemic drugs" is required. Code Z79.4, Long-term (current) use of insulin or code Z79.84, Long-term (current) use of oral hypoglycemic drugs, should not be assigned with codes from subcategory O24.4.

An abnormal glucose tolerance in pregnancy is assigned a code from subcategory O99.81, Abnormal glucose complicating pregnancy, childbirth, and the puerperium.

**j. Sepsis and septic shock complicating abortion, pregnancy, childbirth and the puerperium**

When assigning a chapter 15 code for sepsis complicating abortion, pregnancy, childbirth, and the puerperium, a code for the specific type of infection should be assigned as an additional diagnosis. If severe sepsis is present, a code from subcategory R65.2, Severe sepsis, and code(s) for associated organ dysfunction(s) should also be assigned as additional diagnoses.

Patient is admitted to the skilled home health nursing for an extended course of intravenous antibiotic administration due to MSSA sepsis that resulted from a miscarriage 1 week ago.

**O03.87**      **Sepsis following complete or unspecified spontaneous abortion**

**B95.61**      **Methicillin susceptible *Staphylococcus aureus* infection as the cause of diseases classified elsewhere**

*Explanation:* The type of infection that caused this patient to become septic was methicillin susceptible *Staphylococcus aureus* (MSSA), which as a secondary code helps capture all aspects related to this patient's septic condition.

**k. Puerperal sepsis**

Code O85, Puerperal sepsis, should be assigned with a secondary code to identify the causal organism (e.g., for a bacterial infection, assign a code from category B95-B96, Bacterial infections in conditions classified elsewhere). A code from category A40, Streptococcal sepsis, or A41, Other sepsis, should not be used for puerperal sepsis. If applicable, use additional codes to identify severe sepsis (R65.2-) and any associated acute organ dysfunction.

**l. Alcohol and tobacco use during pregnancy, childbirth and the puerperium****1) Alcohol use during pregnancy, childbirth and the puerperium**

Codes under subcategory O99.31, Alcohol use complicating pregnancy, childbirth, and the puerperium, should be assigned for any pregnancy case when a mother uses alcohol during the pregnancy or postpartum. A secondary code from category F10, Alcohol related disorders, should also be assigned to identify manifestations of the alcohol use.

**2) Tobacco use during pregnancy, childbirth and the puerperium**

Codes under subcategory O99.33, Smoking (tobacco) complicating pregnancy, childbirth, and the puerperium, should be assigned for any pregnancy case when a mother uses any type of tobacco product during the pregnancy or postpartum. A secondary code from category F17, Nicotine dependence, should also be assigned to identify the type of nicotine dependence.

**m. Poisoning, toxic effects, adverse effects and underdosing in a pregnant patient**

A code from subcategory O9A.2, Injury, poisoning and certain other consequences of external causes complicating pregnancy, childbirth, and the puerperium, should be sequenced first, followed by the appropriate injury, poisoning, toxic effect, adverse effect or underdosing code, and then the additional code(s) that specifies the condition caused by the poisoning, toxic effect, adverse effect or underdosing.

See Section I.C.19. Adverse effects, poisoning, underdosing and toxic effects.

An 18-week pregnant female, who is wheelchair-bound due to paraplegia, is admitted for skilled nursing care with medication instruction after developing severe hypotension due to taking an incorrect dose of nifedipine. The drug was ordered to control her transient hypertension during the pregnancy, and she remains on the drug now with the correct dose administered.

<b>O9A.212</b>	<b>Injury, poisoning and certain other consequences of external causes complicating pregnancy, second trimester</b>
<b>T46.1X1D</b>	<b>Poisoning by calcium-channel blockers, accidental (unintentional), subsequent encounter</b>
<b>I95.2</b>	<b>Hypotension due to drugs</b>
<b>O13.2</b>	<b>Gestational [pregnancy-induced] hypertension without significant proteinuria, second trimester</b>
<b>O99.352</b>	<b>Diseases of the nervous system complicating pregnancy, second trimester</b>
<b>G82.20</b>	<b>Paraplegia, unspecified</b>
<b>Z3A.18</b>	<b>18 weeks gestation of pregnancy</b>

*Explanation:* Although the poisoning with resulting hypotension is the reason for admission, a code from the obstetrics chapter must first be assigned. Codes from chapter 15 have sequencing priority over codes from other chapters.

#### n. Normal delivery, code O80

##### 1) Encounter for full term uncomplicated delivery

Code O80 should be assigned when a woman is admitted for a full-term normal delivery and delivers a single, healthy infant without any complications antepartum, during the delivery, or postpartum during the delivery episode. Code O80 is always a principal diagnosis. It is not to be used if any other code from chapter 15 is needed to describe a current complication of the antenatal, delivery, or perinatal period. Additional codes from other chapters may be used with code O80 if they are not related to or are in any way complicating the pregnancy.

##### 2) Uncomplicated delivery with resolved antepartum complication

Code O80 may be used if the patient had a complication at some point during the pregnancy, but the complication is not present at the time of the admission for delivery.

##### 3) Outcome of delivery for O80

Z37.0, Single live birth, is the only outcome of delivery code appropriate for use with O80.

#### o. The peripartum and postpartum periods

##### 1) Peripartum and postpartum periods

The postpartum period begins immediately after delivery and continues for six weeks following delivery. The peripartum period is defined as the last month of pregnancy to five months postpartum.

##### 2) Peripartum and postpartum complication

A postpartum complication is any complication occurring within the six-week period.

##### 3) Pregnancy-related complications after 6 week period

Chapter 15 codes may also be used to describe pregnancy-related complications after the peripartum or postpartum period if the provider documents that a condition is pregnancy related.

A 46-year-old woman had a baby boy 7 weeks ago. Following delivery, she quickly developed severe pseudomonas pyelonephritis, necessitating IV antibiotic therapy. She is referred to home health where she will be continued on antibiotics via PICC line. The physician reports "puerperal pseudomonas pyelonephritis."

<b>O86.21</b>	<b>Infection of kidney following delivery</b>
<b>B96.5</b>	<b>Pseudomonas (aeruginosa) (mallei) (pseudomallei) as the cause of diseases classified elsewhere</b>
<b>Z45.2</b>	<b>Encounter for adjustment and management of vascular access device</b>
<b>Z79.2</b>	<b>Long term (current) use of antibiotics</b>

*Explanation:* While not all infections of the urinary tract occurring after delivery are related directly to the delivery, in this case the physician reports "puerperal" in reference to the pyelonephritis. This indicates a need to assign a code from chapter 15 for the infection.

##### 4) Admission for routine postpartum care following delivery outside hospital

When the mother delivers outside the hospital prior to admission and is admitted for routine postpartum care and no complications are noted,

code Z39.0, Encounter for care and examination of mother immediately after delivery, should be assigned as the principal diagnosis.

##### 5) Pregnancy associated cardiomyopathy

Pregnancy associated cardiomyopathy, code O90.3, is unique in that it may be diagnosed in the third trimester of pregnancy but may continue to progress months after delivery. For this reason, it is referred to as peripartum cardiomyopathy. Code O90.3 is only for use when the cardiomyopathy develops as a result of pregnancy in a woman who did not have pre-existing heart disease.

A 36-year-old woman with no pre-existing conditions started experiencing heart failure symptoms late in the 3rd trimester of her second pregnancy. After an extensive workup she was diagnosed with nonobstructive hypertrophic cardiomyopathy. She made it through the delivery without any further complications but was referred to home health for observation of her condition and physical therapy to address reduced endurance. The cardiologist reports that the cardiomyopathy was directly related to the pregnancy and remains unresolved.

<b>O90.3</b>	<b>Peripartum cardiomyopathy</b>
<b>I42.2</b>	<b>Other hypertrophic cardiomyopathy</b>

*Explanation:* Because this patient has no cardiac history and no other conditions were found to be the cause of her cardiomyopathy, code O90.3 is most appropriate. An additional code for the specific type of cardiomyopathy may also be assigned, according to the inclusion term at code O90.3 as well as the Excludes 2 note at category I42.

Since this patient has no cardiac history, continues to experience cardiomyopathy in the postpartum period, and was diagnosed during the pregnancy, code O90.3 must be used. Also assign a code sequenced after O90.3 to specify the specific type of cardiomyopathy, as peripartum cardiomyopathy and codes from category I42 are listed as Excludes 2 conditions.

#### p. Code O94, Sequelae of complication of pregnancy, childbirth, and the puerperium

##### 1) Code O94

Code O94, Sequelae of complication of pregnancy, childbirth, and the puerperium, is for use in those cases when an initial complication of a pregnancy develops a sequelae requiring care or treatment at a future date.

##### 2) After the initial postpartum period

This code may be used at any time after the initial postpartum period.

##### 3) Sequencing of code O94

This code, like all sequela codes, is to be sequenced following the code describing the sequelae of the complication.

#### q. Termination of pregnancy and spontaneous abortions

##### 1) Abortion with liveborn fetus

When an attempted termination of pregnancy results in a liveborn fetus, assign code Z33.2, Encounter for elective termination of pregnancy and a code from category Z37, Outcome of Delivery.

##### 2) Retained products of conception following an abortion

Subsequent encounters for retained products of conception following a spontaneous abortion or elective termination of pregnancy, **without complications** are assigned O03.4, **Incomplete spontaneous, abortion without complication**, or codes O07.4, **Failed attempted termination of pregnancy without complication**. This advice is appropriate even when the patient was discharged previously with a discharge diagnosis of complete abortion. **If the patient has a specific complication associated with the spontaneous abortion or elective termination of pregnancy in addition to retained products of conception, assign the appropriate complication in category O03 or O07 instead of code O03.4 or O07.4**

##### 3) Complications leading to abortion

Codes from Chapter 15 may be used as additional codes to identify any documented complications of the pregnancy in conjunction with codes in O04, O07 and O08.

#### r. Abuse in a pregnant patient

For suspected or confirmed cases of abuse of a pregnant patient, a code(s) from subcategories O9A.3, Physical abuse complicating pregnancy, childbirth, and the puerperium, O9A.4, Sexual abuse complicating pregnancy, childbirth, and the puerperium, and O9A.5, Psychological abuse complicating pregnancy, childbirth, and the puerperium, should be sequenced first, followed by the appropriate codes (if applicable) to identify any associated current injury due to physical abuse, sexual abuse, and the perpetrator of abuse.

See Section I.C.19. Adult and child abuse, neglect and other maltreatment.

## Chapter 16. Certain Conditions Originating in the Perinatal Period (P00–P96)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

For coding and reporting purposes the perinatal period is defined as before birth through the 28th day following birth. The following guidelines are provided for reporting purposes

#### a. General Perinatal Rules

##### 1) Use of chapter 16 codes

Codes in this chapter are *never* for use on the maternal record. Codes from Chapter 15, the obstetric chapter, are never permitted on the newborn record. Chapter 16 codes may be used throughout the life of the patient if the condition is still present.

##### 2) Principal diagnosis for birth record

When coding the birth episode in a newborn record, assign a code from category Z38, Liveborn infants according to place of birth and type of delivery, as the principal diagnosis. A code from category Z38 is assigned only once, to a newborn at the time of birth. If a newborn is transferred to another institution, a code from category Z38 should not be used at the receiving hospital.

A code from category Z38 is used only on the newborn record, not on the mother's record.

##### 3) Use of codes from other chapters with codes from chapter 16

Codes from other chapters may be used with codes from chapter 16 if the codes from the other chapters provide more specific detail. Codes for signs and symptoms may be assigned when a definitive diagnosis has not been established. If the reason for the encounter is a perinatal condition, the code from chapter 16 should be sequenced first.

##### 4) Use of chapter 16 codes after the perinatal period

Should a condition originate in the perinatal period, and continue throughout the life of the patient, the perinatal code should continue to be used regardless of the patient's age.

A 7-year-old patient with history of birth injury that resulted in Erb's palsy is seen for subscapularis release.

#### **P14.0** Erb's paralysis due to birth injury

*Explanation:* Although in this instance Erb's palsy is specifically related to a birth injury, it has not resolved and continues to be a health concern. A perinatal code is appropriate even though this patient is beyond the perinatal period.

##### 5) Birth process or community acquired conditions

If a newborn has a condition that may be either due to the birth process or community acquired and the documentation does not indicate which it is, the default is due to the birth process and the code from Chapter 16 should be used. If the condition is community-acquired, a code from Chapter 16 should not be assigned.

##### 6) Code all clinically significant conditions

All clinically significant conditions noted on routine newborn examination should be coded. A condition is clinically significant if it requires:

clinical evaluation; or  
therapeutic treatment; or  
diagnostic procedures; or  
extended length of hospital stay; or  
increased nursing care and/or monitoring; or  
has implications for future health care needs

**Note:** The perinatal guidelines listed above are the same as the general coding guidelines for "additional diagnoses", except for the final point regarding implications for future health care needs. Codes should be assigned for conditions that have been specified by the provider as having implications for future health care needs.

#### b. Observation and Evaluation of Newborns for Suspected Conditions not Found

##### 1) Use of Z05 codes

Assign a code from category Z05, Observation and evaluation of newborns and infants for suspected conditions ruled out, to identify those instances when a healthy newborn is evaluated for a suspected condition that is determined after study not to be present. Do not use a code from category Z05 when the patient has identified signs or symptoms of a suspected problem; in such cases code the sign or symptom.

##### 2) Z05 on other than the birth record

A code from category Z05 may also be assigned as a principal or first-listed code for readmissions or encounters when the code from category Z38 code no longer applies. Codes from category Z05 are for use only for healthy newborns and infants for which no condition after study is found to be present.

##### 3) Z05 on a birth record

A code from category Z05 is to be used as a secondary code after the code from category Z38, Liveborn infants according to place of birth and type of delivery.

#### c. Coding additional perinatal diagnoses

##### 1) Assigning codes for conditions that require treatment

Assign codes for conditions that require treatment or further investigation, prolong the length of stay, or require resource utilization.

##### 2) Codes for conditions specified as having implications for future health care needs

Assign codes for conditions that have been specified by the provider as having implications for future health care needs.

Note: This guideline should not be used for adult patients.

#### d. Prematurity and fetal growth retardation

Providers utilize different criteria in determining prematurity. A code for prematurity should not be assigned unless it is documented. Assignment of codes in categories P05, Disorders of newborn related to slow fetal growth and fetal malnutrition, and P07, Disorders of newborn related to short gestation and low birth weight, not elsewhere classified, should be based on the recorded birth weight and estimated gestational age.

When both birth weight and gestational age are available, two codes from category P07 should be assigned, with the code for birth weight sequenced before the code for gestational age.

#### e. Low birth weight and immaturity status

Codes from category P07, Disorders of newborn related to short gestation and low birth weight, not elsewhere classified, are for use for a child or adult who was premature or had a low birth weight as a newborn and this is affecting the patient's current health status.

See Section I.C.21. *Factors influencing health status and contact with health services, Status.*

A 35-year-old patient, who weighed 659 grams at birth, is seen for heart disease documented as being a consequence of the low birth weight.

#### **I51.9** Heart disease, unspecified

#### **P07.02** Extremely low birth weight newborn, 500–749 grams

*Explanation:* A code from subcategories P07.0- and P07.1- is appropriate, regardless of the age of the patient, as long as the documentation provides a clear link between the patient's current illness and the low birth weight.

**f. Bacterial sepsis of newborn**

Category P36, Bacterial sepsis of newborn, includes congenital sepsis. If a perinate is documented as having sepsis without documentation of congenital or community acquired, the default is congenital and a code from category P36 should be assigned. If the P36 code includes the causal organism, an additional code from category B95, Streptococcus, Staphylococcus, and Enterococcus as the cause of diseases classified elsewhere, or B96, Other bacterial agents as the cause of diseases classified elsewhere, should not be assigned. If the P36 code does not include the causal organism, assign an additional code from category B96. If applicable, use additional codes to identify severe sepsis (R65.2-) and any associated acute organ dysfunction.

A full-term infant born 7 days ago developed severe sepsis within 48 hours of discharge. The infant was readmitted. Cultures were taken, which came back positive for *E. coli*. The infant was stabilized and will now be transferred to a pediatric home health agency for an additional 2 weeks of IV antibiotic therapy administration.

**P36.4 Sepsis of newborn due to Escherichia coli**

**R65.20 Severe sepsis without septic shock**

*Explanation:* When the provider documentation does not specify whether sepsis in the newborn/perinate is congenital or community-acquired, the default code is from category P36 and the condition is assumed to be congenital. A code from chapter 1, "Certain Infectious and Parasitic Diseases," is not required as the sepsis code is a combination code that includes the organism.

**g. Stillbirth**

Code P95, Stillbirth, is only for use in institutions that maintain separate records for stillbirths. No other code should be used with P95. Code P95 should not be used on the mother's record.



## Chapter 17. Congenital Malformations, Deformations and Chromosomal Abnormalities (Q00–Q99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

Assign an appropriate code(s) from categories Q00-Q99, Congenital malformations, deformations, and chromosomal abnormalities when a malformation/deformation or chromosomal abnormality is documented. A malformation/deformation/or chromosomal abnormality may be the principal/first-listed diagnosis on a record or a secondary diagnosis.

When a malformation/deformation/or chromosomal abnormality does not have a unique code assignment, assign additional code(s) for any manifestations that may be present.

When the code assignment specifically identifies the malformation/deformation/or chromosomal abnormality, manifestations that are an inherent component of the anomaly should not be coded separately. Additional codes should be assigned for manifestations that are not an inherent component.

8-day-old infant with tetralogy of Fallot and pulmonary stenosis

#### **Q21.3 Tetralogy of Fallot**

*Explanation:* Pulmonary stenosis is inherent in the disease process of tetralogy of Fallot. When the code assignment specifically identifies the malformation/deformation/or chromosomal abnormality, manifestations that are inherent components of the anomaly should not be coded separately.

7-month-old infant with Down syndrome and common atrioventricular canal

#### **Q90.9 Down syndrome, unspecified**

#### **Q21.2 Atrioventricular septal defect**

*Explanation:* While a common atrioventricular canal is often associated with patients with Down syndrome, this manifestation is not an inherent component and may be reported separately. When the code assignment specifically identifies the anomaly, manifestations that are inherent components of the condition should not be coded separately. Additional codes should be assigned for manifestations that are not inherent components.

Codes from Chapter 17 may be used throughout the life of the patient. If a congenital malformation or deformity has been corrected, a personal history code should be used to identify the history of the malformation or deformity. Although present at birth, malformation/deformation/or chromosomal abnormality may not be identified until later in life. Whenever the condition is diagnosed by the physician, it is appropriate to assign a code from codes Q00-Q99. For the birth admission, the appropriate code from category Z38, Liveborn infants, according to place of birth and type of delivery, should be sequenced as the principal diagnosis, followed by any congenital anomaly codes, Q00-Q99.

Three-year-old with history of corrected ventricular septal defect

#### **Z87.74 Personal history of (corrected) congenital malformations of heart and circulatory system**

*Explanation:* If a congenital malformation or deformity has been corrected, a personal history code should be used to identify the history of the malformation or deformity.

Forty-year-old man with headaches diagnosed with congenital arteriovenous malformation by brain scan

#### **Q28.2 Arteriovenous malformation of cerebral vessels**

*Explanation:* Although present at birth, malformations may not be identified until later in life. Whenever the condition is diagnosed by the physician, it is appropriate to assign a code from the range Q00-Q99.

## Chapter 18. Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified (R00–R99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

Chapter 18 includes symptoms, signs, abnormal results of clinical or other investigative procedures, and ill-defined conditions regarding which no diagnosis classifiable elsewhere is recorded. Signs and symptoms that point to a specific diagnosis have been assigned to a category in other chapters of the classification.

#### a. Use of symptom codes

Codes that describe symptoms and signs are acceptable for reporting purposes when a related definitive diagnosis has not been established (confirmed) by the provider.

Chest pain of unknown origin

**R07.9 Chest pain, unspecified**

*Explanation:* Codes that describe symptoms such as chest pain are acceptable for reporting purposes when the provider has not established (confirmed) a related definitive diagnosis.

#### b. Use of a symptom code with a definitive diagnosis code

Codes for signs and symptoms may be reported in addition to a related definitive diagnosis when the sign or symptom is not routinely associated with that diagnosis, such as the various signs and symptoms associated with complex syndromes. The definitive diagnosis code should be sequenced before the symptom code.

Signs or symptoms that are associated routinely with a disease process should not be assigned as additional codes, unless otherwise instructed by the classification.

Pneumonia with hemoptysis

**J18.9 Pneumonia, unspecified organism**

**R04.2 Hemoptysis**

*Explanation:* Codes for signs and symptoms may be reported in addition to a related definitive diagnosis when the sign or symptom is not routinely associated with that diagnosis.

Parkinson's disease noted with shuffling gait and weakness

**G20 Parkinson's disease**

*Explanation:* Codes for signs and symptoms routinely associated with a disease process should not be assigned unless the classification instructs otherwise. Shuffling or abnormal gait patterns as well as weakness are inherent symptoms of Parkinson's disease.

#### c. Combination codes that include symptoms

ICD-10-CM contains a number of combination codes that identify both the definitive diagnosis and common symptoms of that diagnosis. When using one of these combination codes, an additional code should not be assigned for the symptom.

Acute gastritis with hemorrhage

**K29.01 Acute gastritis with bleeding**

*Explanation:* When a combination code identifies both the definitive diagnosis and the symptom, an additional code should not be assigned for the symptom.

#### d. Repeated falls

Code R29.6, Repeated falls, is for use for encounters when a patient has recently fallen and the reason for the fall is being investigated.

Code Z91.81, History of falling, is for use when a patient has fallen in the past and is at risk for future falls. When appropriate, both codes R29.6 and Z91.81 may be assigned together.

#### e. Coma scale

The coma scale codes (R40.2-) can be used in conjunction with traumatic brain injury codes, acute cerebrovascular disease or sequelae of cerebrovascular disease codes. These codes are primarily for use by trauma registries, but they may be used in any setting where this information is collected. The coma scale may also be used to assess the status of the central nervous system for other non-trauma conditions, such as monitoring patients in the intensive care unit regardless of medical condition. The coma scale codes should be sequenced after the diagnosis code(s).

These codes, one from each subcategory, are needed to complete the scale. The 7th character indicates when the scale was recorded. The 7th character should match for all three codes.

At a minimum, report the initial score documented on presentation at your facility. This may be a score from the emergency medicine technician (EMT) or in the emergency department. If desired, a facility may choose to capture multiple coma scale scores.

Assign code R40.24, Glasgow coma scale, total score, when only the total score is documented in the medical record and not the individual score(s).

A 23-year-old male was found unresponsive due to a skull fracture with concussion and loss of consciousness of unknown duration resulting from an unidentified injury. He was admitted to the hospital, placed on ventilator support, and remained unresponsive. Four weeks following the event, he is sent home with home care and on a home ventilator. He remains unresponsive to all stimuli.

**S02.0XXD Fracture of vault of skull, subsequent encounter for fracture with routine healing**

**S06.0X9D Concussion with loss of consciousness of unspecified duration, subsequent encounter**

**R40.2114 Coma scale, eyes open, never, 24 hours or more after hospital admission**

**R40.2214 Coma scale, best verbal response, none, 24 hours or more after hospital admission**

**R40.2314 Coma scale, best motor response, none, 24 hours or more after hospital admission**

**Z99.11 Dependence on respirator [ventilator] status**

*Explanation:* When individual scores for the Glasgow coma scale are documented, codes from each category are needed to complete the scale. The seventh character 4 indicates that the scores were recorded 24 hours or more after hospital admission. Assign a code from subcategory R40.24-Glasgow coma scale, total score, when only the total and not individual score(s) is documented. Coma scale scores, when coded, should be sequenced after any associated fracture of the skull or intracranial injury.

#### f. Functional quadriplegia

**GUIDELINE HAS BEEN DELETED EFFECTIVE OCTOBER 1, 2017**

#### g. SIRS due to non-infectious process

The systemic inflammatory response syndrome (SIRS) can develop as a result of certain non-infectious disease processes, such as trauma, malignant neoplasm, or pancreatitis. When SIRS is documented with a noninfectious condition, and no subsequent infection is documented, the code for the underlying condition, such as an injury, should be assigned, followed by code R65.10, Systemic inflammatory response syndrome (SIRS) of non-infectious origin without acute organ dysfunction, or code R65.11, Systemic inflammatory response syndrome (SIRS) of non-infectious origin with acute organ dysfunction. If an associated acute organ dysfunction is documented, the appropriate code(s) for the specific type of organ dysfunction(s) should be assigned in addition to code R65.11. If acute organ dysfunction is documented, but it cannot be determined if the acute organ dysfunction is associated with SIRS or due to another condition (e.g., directly due to the trauma), the provider should be queried.

Systemic inflammatory response syndrome (SIRS) due to acute gallstone pancreatitis

**K85.10 Biliary acute pancreatitis without necrosis or infection**

**R65.10 Systemic inflammatory response syndrome (SIRS) of noninfectious origin without acute organ dysfunction**

*Explanation:* When SIRS is documented with a noninfectious condition without subsequent infection documented, the code for the underlying condition such as pancreatitis should be assigned followed by the appropriate code for SIRS of noninfectious origin, either with or without associated organ dysfunction.

#### h. Death NOS

Code R99, Ill-defined and unknown cause of mortality, is only for use in the very limited circumstance when a patient who has already died is brought into an emergency department or other healthcare facility and is pronounced dead upon arrival. It does not represent the discharge disposition of death.

#### i. NIHSS stroke scale

The NIH stroke scale (NIHSS) codes (R29.7-- ) can be used in conjunction with acute stroke codes (I63) to identify the patient's neurological status and the severity of the stroke. The stroke scale codes should be sequenced after the acute stroke diagnosis code(s).

At a minimum, report the initial score documented. If desired, a facility may choose to capture multiple stroke scale scores.

*See Section I.B.14. for information concerning the medical record documentation that may be used for assignment of the NIHSS codes.*

## Chapter 19. Injury, Poisoning and Certain Other Consequences of External Causes (S00–T88)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

#### a. Application of 7th characters in Chapter 19

Most categories in chapter 19 have a 7th character requirement for each applicable code. Most categories in this chapter have three 7th character values (with the exception of fractures): A, initial encounter, D, subsequent encounter and S, sequela. Categories for traumatic fractures have additional 7th character values. While the patient may be seen by a new or different provider over the course of treatment for an injury, assignment of the 7th character is based on whether the patient is undergoing active treatment and not whether the provider is seeing the patient for the first time.

For complication codes, active treatment refers to treatment for the condition described by the code, even though it may be related to an earlier precipitating problem. For example, code T84.50XA, Infection and inflammatory reaction due to unspecified internal joint prosthesis, initial encounter, is used when active treatment is provided for the infection, even though the condition relates to the prosthetic device, implant or graft that was placed at a previous encounter.

7th character "A", initial encounter is used for each encounter where the patient is receiving active treatment for the condition.

7th character "D" subsequent encounter is used for encounters after the patient has completed active treatment of the condition and is receiving routine care for the condition during the healing or recovery phase.

Patient was admitted to home health for continued therapy following acute care stay to treat a nondisplaced fracture to the distal pole of the right scaphoid bone due to a fall from skateboard onto the sidewalk.

**S62.014D Nondisplaced fracture of the distal pole of navicular [scaphoid] bone of right wrist, subsequent encounter for fracture with routine healing**

**V00.131D Fall from skateboard, subsequent encounter**

*Explanation:* The fracture is coded with the seventh character D, as routine care is being provided in the recovery phase within this home health setting. The external cause code, V00.131D, describes the cause of the injury and may be applied for each encounter involving treatment for the fracture. Activity codes, place-of-occurrence codes, and external cause status codes are used only once, at the initial encounter for treatment, and are not required for this environment.

The aftercare Z codes should not be used for aftercare for conditions such as injuries or poisonings, where 7th characters are provided to identify subsequent care. For example, for aftercare of an injury, assign the acute injury code with the 7th character "D" (subsequent encounter).

7th character "S", sequela, is for use for complications or conditions that arise as a direct result of a condition, such as scar formation after a burn. The scars are sequelae of the burn. When using 7th character "S", it is necessary to use both the injury code that precipitated the sequela and the code for the sequela itself. The "S" is added only to the injury code, not the sequela code. The 7th character "S" identifies the injury responsible for the sequela. The specific type of sequela (e.g. scar) is sequenced first, followed by the injury code.

See Section I.B.10 Sequelae, (Late Effects)

Patient with a history of a nondisplaced fracture to the distal pole of the right scaphoid bone due to a fall from a skateboard is admitted for evaluation of arthritis to the right wrist that has developed as a consequence of the traumatic fracture.

**M12.531 Traumatic arthropathy, right wrist**

**S62.014S Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, sequela**

**V00.131S Fall from skateboard, sequela**

*Explanation:* The code identifying the specific sequela condition (traumatic arthritis) should be coded first followed by the injury that instigated the development of the sequela (fracture). The scaphoid fracture injury code is given a 7th character S for sequela to represent its role as the inciting injury. The fracture has healed and is not being managed or treated on this admit and therefore is not applicable as a first listed or principal diagnosis. However, it is directly related to the development of the arthritis and should be appended as a secondary code to signify this cause and effect relationship.

#### b. Coding of injuries

When coding injuries, assign separate codes for each injury unless a combination code is provided, in which case the combination code is assigned. **Codes from category T07**, Unspecified multiple injuries should not be assigned in the inpatient setting unless information for a more specific code is not available. Traumatic injury codes (S00-T14.9) are not to be used for normal, healing surgical wounds or to identify complications of surgical wounds.

A 76-year-old man fell from a ladder, resulting in a right humerus fracture, laceration of the right forearm, and laceration of the left shin. Lacerations required sutures, and the humerus fracture was casted. All injuries are healing well.

**S42.301D Unspecified fracture of shaft of humerus, right arm, subsequent encounter for fracture with routine healing**

**S51.811D Laceration without foreign body of right forearm, subsequent encounter**

**S81.812D Laceration without foreign body, left lower leg, subsequent encounter**

**W11.XXXD Fall on and from ladder, subsequent encounter**

*Explanation:* Each injury is coded separately. The seventh character D should be assigned for the fracture, which is healing in the recovery phase. The lacerations are coded with the seventh character D as these wounds are not complicated and are healing well, requiring no wound care. An external cause code reports the cause of the injuries.

The code for the most serious injury, as determined by the provider and the focus of treatment, is sequenced first.

##### 1) Superficial injuries

Superficial injuries such as abrasions or contusions are not coded when associated with more severe injuries of the same site.

##### 2) Primary injury with damage to nerves/blood vessels

When a primary injury results in minor damage to peripheral nerves or blood vessels, the primary injury is sequenced first with additional code(s) for injuries to nerves and spinal cord (such as category S04), and/or injury to blood vessels (such as category S15). When the primary injury is to the blood vessels or nerves, that injury should be sequenced first.

#### c. Coding of traumatic fractures

The principles of multiple coding of injuries should be followed in coding fractures. Fractures of specified sites are coded individually by site in accordance with both the provisions within categories S02, S12, S22, S32, S42, S49, S52, S59, S62, S72, S79, S82, S89, S92 and the level of detail furnished by medical record content.

A fracture not indicated as open or closed should be coded to closed. A fracture not indicated whether displaced or not displaced should be coded to displaced.

More specific guidelines are as follows:

### 1) Initial vs. subsequent encounter for fractures

Traumatic fractures are coded using the appropriate 7th character for initial encounter (A, B, C) for each encounter where the patient is receiving active treatment for the fracture. The appropriate 7th character for initial encounter should also be assigned for a patient who delayed seeking treatment for the fracture or nonunion.

Fractures are coded using the appropriate 7th character for subsequent care for encounters after the patient has completed active treatment of the fracture and is receiving routine care for the fracture during the healing or recovery phase.

Care for complications of surgical treatment for fracture repairs during the healing or recovery phase should be coded with the appropriate complication codes.

Care of complications of fractures, such as malunion and nonunion, should be reported with the appropriate 7th character for subsequent care with nonunion (K, M, N,) or subsequent care with malunion (P, Q, R).

Malunion/nonunion: The appropriate 7th character for initial encounter should also be assigned for a patient who delayed seeking treatment for the fracture or nonunion.

Female patient fell during a hiking excursion almost six months ago and until recently did not feel she needed to seek medical attention for her left ankle pain; x-rays show nonunion of lateral malleolus and surgery has been scheduled

<b>S82.62XA</b>	<b>Displaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture</b>
<b>W01.0XXA</b>	<b>Fall on same level from slipping, tripping and stumbling without subsequent striking against object, initial encounter</b>
<b>Y92.821</b>	<b>Forest as place of occurrence of the external cause</b>
<b>Y93.01</b>	<b>Activity, walking, marching and hiking</b>
<b>Y99.8</b>	<b>Other external cause status</b>

*Explanation:* A seventh character of A is used for the lateral malleolus nonunion fracture to signify that the fracture is receiving active treatment. The delayed care for the fracture has resulted in a nonunion, but capturing the nonunion in the seventh character is trumped by the provision of active care.

The open fracture designations in the assignment of the 7th character for fractures of the forearm, femur and lower leg, including ankle are based on the Gustilo open fracture classification. When the Gustilo classification type is not specified for an open fracture, the 7th character for open fracture type I or II should be assigned (B, E, H, M, Q).

A code from category M80, not a traumatic fracture code, should be used for any patient with known osteoporosis who suffers a fracture, even if the patient had a minor fall or trauma, if that fall or trauma would not usually break a normal, healthy bone.

See Section I.C.13. Osteoporosis.

The aftercare Z codes should not be used for aftercare for traumatic fractures. For aftercare of a traumatic fracture, assign the acute fracture code with the appropriate 7th character.

### 2) Multiple fractures sequencing

Multiple fractures are sequenced in accordance with the severity of the fracture.

### d. Coding of burns and corrosions

The ICD-10-CM makes a distinction between burns and corrosions. The burn codes are for thermal burns, except sunburns, that come from a heat source, such as a fire or hot appliance. The burn codes are also for burns resulting from electricity and radiation. Corrosions are burns due to chemicals. The guidelines are the same for burns and corrosions.

Current burns (T20-T25) are classified by depth, extent and by agent (X code). Burns are classified by depth as first degree (erythema), second degree (blistering), and third degree (full-thickness involvement). Burns of the eye and internal organs (T26-T28) are classified by site, but not by degree.

#### 1) Sequencing of burn and related condition codes

Sequence first the code that reflects the highest degree of burn when more than one burn is present.

- When the reason for the admission or encounter is for treatment of external multiple burns, sequence first the code that reflects the burn of the highest degree.

- When a patient has both internal and external burns, the circumstances of admission govern the selection of the principal diagnosis or first-listed diagnosis.
- When a patient is admitted for burn injuries and other related conditions such as smoke inhalation and/or respiratory failure, the circumstances of admission govern the selection of the principal or first-listed diagnosis

Patient is admitted following hospitalization for multiple third-degree burns to both hands and severe smoke inhalation when a candle lit her bedroom curtains on fire. The burns require frequent and complex wound care three times a day. The patient continues with shortness of breath and poor endurance due to smoke inhalation. She is recovering well from the smoke inhalation with normal SpO2 levels, nebulizer treatments, and use of oxygen.

**T23.391A** **Burn of third degree of multiple sites of right wrist and hand, initial encounter**

**T23.392A** **Burn of third degree of multiple sites of left wrist and hand, initial encounter**

**X08.8XXA** **Exposure to other specified smoke, fire and flames, initial encounter**

**T59.811D** **Toxic effect of smoke, accidental (unintentional), initial encounter**

**J70.5** **Respiratory conditions due to smoke inhalation**

*Explanation:* Based upon provider orders and documentation, the burns are complex and require the most intense care and therefore are coded first. The seventh character A is used for both burns as they remain open with complex active treatment. Because the respiratory condition resulting from smoke inhalation is resolving well and the patient is now in the recovery phase for this condition, the seventh character D is assigned for subsequent episode for the toxic-effect code. For the external cause code X08.8-, the seventh character A is assigned because the resulting burns remain an initial encounter.

### 2) Burns of the same local site

Classify burns of the same local site (three-character category level, T20-T28) but of different degrees to the subcategory identifying the highest degree recorded in the diagnosis.

10-year-old male patient is admitted for third-degree burns of his right palm and second-degree burns of multiple right fingers; right thumb not affected. The burns require complex and frequent dressing changes three times a day, and the patient continues visits to the burn center for debridement.

**T23.351A** **Burn of third degree of right palm, initial encounter**

*Explanation:* Although there is a code for second-degree burns of multiple fingers, not including the thumb (T23.131-), this code falls in the same three-digit category that the third-degree burn of the right palm falls under, category T23. Only the subcategory identifying the highest degree is captured when different burn degrees are classified to a single category. The seventh character A is used as the burns continue to require active treatment with complex, frequent wound care and debridement.

Patient is admitted with third-degree burns of the scalp as well as second-degree burns to the back of the right hand. The burns continue to drain heavily with frequent need for debridement.

**T20.35XA** **Burn of third degree of scalp [any part], initial encounter**

**T23.261A** **Burn of second degree of back of right hand, initial encounter**

*Explanation:* Since burns to the hand and scalp are classified to two different three-digit categories, both burns may be reported as they represent distinct sites. The seventh character A is used as the burns continue to require active treatment with heavy drainage present and a need for frequent debridement.

### 3) Non-healing burns

Non-healing burns are coded as acute burns.

Necrosis of burned skin should be coded as a non-healed burn.

**4) Infected burn**

For any documented infected burn site, use an additional code for the infection.

Patient is admitted and has a third-degree burn to the left anterior thigh, which the provider reports is infected with pseudomonas. The patient is ordered 4 weeks of IV antibiotics.

**T24.312A Burn of third degree of left thigh, initial encounter**

**B96.5 Pseudomonas (aeruginosa) (mallei) (pseudomallei) as the cause of diseases classified elsewhere**

**Z45.2 Encounter for adjustment and management of vascular access device**

**Z79.2 Long term (current) use of antibiotics**

*Explanation:* This burn is infected, and the organism is identified as pseudomonas. ICD-10-CM guidelines indicate to code first the burn and use an additional code to report the infection. Because active treatment, in the form of antibiotic administration, is being provided for the infected burn, the seventh character A is appropriate for this encounter.

**5) Assign separate codes for each burn site**

When coding burns, assign separate codes for each burn site. Category T30, Burn and corrosion, body region unspecified is extremely vague and should rarely be used.

**6) Burns and corrosions classified according to extent of body surface involved**

Assign codes from category T31, Burns classified according to extent of body surface involved, or T32, Corrosions classified according to extent of body surface involved, when the site of the burn is not specified or when there is a need for additional data. It is advisable to use category T31 as additional coding when needed to provide data for evaluating burn mortality, such as that needed by burn units. It is also advisable to use category T31 as an additional code for reporting purposes when there is mention of a third-degree burn involving 20 percent or more of the body surface.

Categories T31 and T32 are based on the classic "rule of nines" in estimating body surface involved: head and neck are assigned nine percent, each arm nine percent, each leg 18 percent, the anterior trunk 18 percent, posterior trunk 18 percent, and genitalia one percent. Providers may change these percentage assignments where necessary to accommodate infants and children who have proportionately larger heads than adults, and patients who have large buttocks, thighs, or abdomen that involve burns.

Patient seen for dressing change after he accidentally spilled acetic acid on himself two days ago. The second-degree burns to his right thigh, covering about 3 percent of his body surface, are healing appropriately.

**T54.2X1D Toxic effect of corrosive acids and acid-like substances, accidental (unintentional), subsequent encounter**

**T24.611D Corrosion of second degree of right thigh, subsequent encounter**

**T32.0 Corrosions involving less than 10% of body surface**

*Explanation:* Code T32.0 provides additional information as to how much of the patient's body was affected by the corrosive substance.

**7) Encounters for treatment of sequela of burns**

Encounters for the treatment of the late effects of burns or corrosions (i.e., scars or joint contractures) should be coded with a burn or corrosion code with the 7th character "S" for sequela.

**8) Sequelae with a late effect code and current burn**

When appropriate, both a code for a current burn or corrosion with 7th character "A" or "D" and a burn or corrosion code with 7th character "S" may be assigned on the same record (when both a current burn and sequelae of an old burn exist). Burns and corrosions do not heal at the same rate and a current healing wound may still exist with sequela of a healed burn or corrosion.

See Section I.B.10 Sequela (Late Effects)

Female patient seen for second-degree burn to the left ear; that is healing well with no current treatment orders. She also has significant scarring on her left elbow from a third-degree burn from childhood.

**T20.212D Burn of second degree of left ear [any part, except ear drum], subsequent encounter**

**L90.5 Scar conditions and fibrosis of skin**

**T22.322S Burn of third degree of left elbow, sequela**

*Explanation:* The patient is being seen for management of a current second-degree burn, which is reflected in the code by appending the seventh character D, indicating that active treatment is no longer needed and the burn is in the recovery phase of healing. The elbow scarring is a sequela of a previous third-degree burn. The sequela condition precedes the original burn injury, which is appended with a seventh character of S.

**9) Use of an external cause code with burns and corrosions**

An external cause code should be used with burns and corrosions to identify the source and intent of the burn, as well as the place where it occurred.

**e. Adverse effects, poisoning, underdosing and toxic effects**

Codes in categories T36-T65 are combination codes that include the substance that was taken as well as the intent. No additional external cause code is required for poisonings, toxic effects, adverse effects and underdosing codes.

**1) Do not code directly from the Table of Drugs**

Do not code directly from the Table of Drugs and Chemicals. Always refer back to the Tabular List.

**2) Use as many codes as necessary to describe**

Use as many codes as necessary to describe completely all drugs, medicinal or biological substances.

**3) If the same code would describe the causative agent**

If the same code would describe the causative agent for more than one adverse reaction, poisoning, toxic effect or underdosing, assign the code only once.

**4) If two or more drugs, medicinal or biological substances**

If two or more drugs, medicinal or biological substances are reported, code each individually unless a combination code is listed in the Table of Drugs and Chemicals.

**5) The occurrence of drug toxicity is classified in ICD-10-CM as follows:****(a) Adverse effect**

When coding an adverse effect of a drug that has been correctly prescribed and properly administered, assign the appropriate code for the nature of the adverse effect followed by the appropriate code for the adverse effect of the drug (T36-T50). The code for the drug should have a 5th or 6th character "5" (for example T36.0X5-) Examples of the nature of an adverse effect are tachycardia, delirium, gastrointestinal hemorrhaging, vomiting, hypokalemia, hepatitis, renal failure, or respiratory failure.

A patient with hyperthyroidism is now reported to have jaundice, RUQ abdominal pain, and elevated liver function studies resulting from prescribed treatment with methimazole. The physician has reduced the dose and ordered continued labs and monitoring of the patient's condition.

**R10.11 Right upper quadrant pain**

**R94.5 Abnormal results of liver function studies**

**T38.2X5D Adverse effect off antithyroid drugs, subsequent encounter**

**E05.90 Thyrotoxicosis, unspecified without thyrotoxic crisis or storm**

*Explanation:* The side-effects of the drug are coded first, followed by the code for the adverse effect of the drug to identify the drug responsible. The follow-up monitoring of the condition by the home health agency is captured with the use of seventh character D.

**(b) Poisoning**

When coding a poisoning or reaction to the improper use of a medication (e.g., overdose, wrong substance given or taken in error, wrong route of administration), first assign the appropriate code from categories T36-T50. The poisoning codes have an associated intent as their 5th or 6th character (accidental, intentional self-harm, assault

and undetermined. If the intent of the poisoning is unknown or unspecified, code the intent as accidental intent. The undetermined intent is only for use if the documentation in the record specifies that the intent cannot be determined. Use additional code(s) for all manifestations of poisonings.

If there is also a diagnosis of abuse or dependence of the substance, the abuse or dependence is assigned as an additional code.

Examples of poisoning include:

- (i) Error was made in drug prescription  
Errors made in drug prescription or in the administration of the drug by provider, nurse, patient, or other person.
- (ii) Overdose of a drug intentionally taken  
If an overdose of a drug was intentionally taken or administered and resulted in drug toxicity, it would be coded as a poisoning.
- (iii) Nonprescribed drug taken with correctly prescribed and properly administered drug  
If a nonprescribed drug or medicinal agent was taken in combination with a correctly prescribed and properly administered drug, any drug toxicity or other reaction resulting from the interaction of the two drugs would be classified as a poisoning.
- (iv) Interaction of drug(s) and alcohol  
When a reaction results from the interaction of a drug(s) and alcohol, this would be classified as poisoning.

See Section I.C.4. if poisoning is the result of insulin pump malfunctions.

#### (c) Underdosing

Underdosing refers to taking less of a medication than is prescribed by a provider or a manufacturer's instruction. For underdosing, assign the code from categories T36-T50 (fifth or sixth character "6").

Codes for underdosing should never be assigned as principal or first-listed codes. If a patient has a relapse or exacerbation of the medical condition for which the drug is prescribed because of the reduction in dose, then the medical condition itself should be coded.

Noncompliance (Z91.12-, Z91.13-) or complication of care (Y63.6-Y63.9) codes are to be used with an underdosing code to indicate intent, if known.

Patient admitted for atrial fibrillation with history of chronic atrial fibrillation for which she is prescribed amiodarone. Financial concerns have left the patient unable to pay for her prescriptions and she has been skipping her amiodarone dose every other day to offset the cost.

**I48.2 Chronic atrial fibrillation**

**T46.2X6A Underdosing of other antidysrhythmic drugs, initial encounter**

**Z91.120 Patient's intentional underdosing of medication regimen due to financial hardship**

*Explanation:* By skipping her amiodarone pill every other day, the patient's atrial fibrillation returned. The condition for which the drug was being taken is reported first, followed by an underdosing code to show that the patient was not adhering to her prescription regimen. The Z code helps elaborate on the patient's social and/or economic circumstances that led to the patient taking less than what she was prescribed.

#### (d) Toxic effects

When a harmful substance is ingested or comes in contact with a person, this is classified as a toxic effect. The toxic effect codes are in categories T51-T65.

Toxic effect codes have an associated intent: accidental, intentional self-harm, assault and undetermined.

#### f. Adult and child abuse, neglect and other maltreatment

Sequence first the appropriate code from categories T74.- (Adult and child abuse, neglect and other maltreatment, confirmed) or T76.- (Adult and child abuse, neglect and other maltreatment, suspected) for abuse, neglect and other maltreatment, followed by any accompanying mental health or injury code(s).

If the documentation in the medical record states abuse or neglect it is coded as confirmed (T74.-). It is coded as suspected if it is documented as suspected (T76.-).

For cases of confirmed abuse or neglect an external cause code from the assault section (X92-Y09) should be added to identify the cause of any

physical injuries. A perpetrator code (Y07) should be added when the perpetrator of the abuse is known. For suspected cases of abuse or neglect, do not report external cause or perpetrator code.

If a suspected case of abuse, neglect or mistreatment is ruled out during an encounter code Z04.71, Encounter for examination and observation following alleged physical adult abuse, ruled out, or code Z04.72, Encounter for examination and observation following alleged child physical abuse, ruled out, should be used, not a code from T76.

If a suspected case of alleged rape or sexual abuse is ruled out during an encounter code Z04.41, Encounter for examination and observation following alleged adult rape or code Z04.42, Encounter for examination and observation following alleged child rape, should be used, not a code from T76.

See Section I.C.15. Abuse in a pregnant patient.

#### g. Complications of care

##### 1) General guidelines for complications of care

###### (a) Documentation of complications of care

See Section I.B.16. for information on documentation of complications of care.

##### 2) Pain due to medical devices

Pain associated with devices, implants or grafts left in a surgical site (for example painful hip prosthesis) is assigned to the appropriate code(s) found in Chapter 19, Injury, poisoning, and certain other consequences of external causes. Specific codes for pain due to medical devices are found in the T code section of the ICD-10-CM. Use additional code(s) from category G89 to identify acute or chronic pain due to presence of the device, implant or graft (G89.18 or G89.28).

A patient with multiple sclerosis has an implanted pain pump in the upper right buttock. The provider notes indicate chronic pain of the lower back due to placement of pain pump.

**T85.848D Pain due to other internal prosthetic devices, implants and grafts, subsequent encounter**

**M54.5 Low back pain**

**G89.28 Other chronic postprocedural pain**

**G35 Multiple sclerosis**

*Explanation:* As the pain is a complication of the implanted pain pump, the complication code is sequenced first. The seventh character D is used, as caregivers in the post-acute care setting will be monitoring this chronic pain condition but not providing active treatment. The T code does not fully describe the site or type of pain, and additional codes should be assigned for these.

##### 3) Transplant complications

###### (a) Transplant complications other than kidney

Codes under category T86, Complications of transplanted organs and tissues, are for use for both complications and rejection of transplanted organs. A transplant complication code is only assigned if the complication affects the function of the transplanted organ. Two codes are required to fully describe a transplant complication: the appropriate code from category T86 and a secondary code that identifies the complication.

Pre-existing conditions or conditions that develop after the transplant are not coded as complications unless they affect the function of the transplanted organs.

See I.C.21. for transplant organ removal status

See I.C.2. for malignant neoplasm associated with transplanted organ.

###### (b) Kidney transplant complications

Patients who have undergone kidney transplant may still have some form of chronic kidney disease (CKD) because the kidney transplant may not fully restore kidney function. Code T86.1- should be assigned for documented complications of a kidney transplant, such as transplant failure or rejection or other transplant complication. Code T86.1- should not be assigned for post kidney transplant patients who have chronic kidney (CKD) unless a transplant complication such as transplant failure or rejection is documented. If the documentation is unclear as to whether the patient has a complication of the transplant, query the provider.

Conditions that affect the function of the transplanted kidney, other than CKD, should be assigned a code from subcategory T86.1, Complications of transplanted organ, Kidney, and a secondary code that identifies the complication.

For patients with CKD following a kidney transplant, but who do not have a complication such as failure or rejection, see section I.C.14. *Chronic kidney disease and kidney transplant status.*

Patient seen for chronic kidney disease stage 2; history of successful kidney transplant with no complications identified

**N18.2 Chronic kidney disease, stage 2 (mild)**

**Z94.0 Kidney transplant status**

*Explanation:* This patient's stage 2 CKD is not indicated as being due to the transplanted kidney but instead is just the residual disease the patient had prior to the transplant.

#### 4) Complication codes that include the external cause

As with certain other T codes, some of the complications of care codes have the external cause included in the code. The code includes the nature of the complication as well as the type of procedure that caused the complication. No external cause code indicating the type of procedure is necessary for these codes.

#### 5) Complications of care codes within the body system chapters

Intraoperative and postprocedural complication codes are found within the body system chapters with codes specific to the organs and structures of that body system. These codes should be sequenced first, followed by a code(s) for the specific complication, if applicable.

A patient with a history of bilateral ovarian cancer is admitted following a total abdominal hysterectomy. The patient has a Foley catheter with active hematuria and continues with radiation for the neoplastic disease. The provider notes indicate that the bladder was nicked during the hysterectomy procedure.

**N99.71 Accidental puncture and laceration of a genitourinary system organ or structure during a genitourinary system procedure**

**R31.9 Hematuria, unspecified**

**C56.1 Malignant neoplasm of right ovary**

**C56.2 Malignant neoplasm of left ovary**

**Z46.6 Encounter for fitting and adjustment of urinary device**

*Explanation:* The accidental puncture of the bladder is specifically due to a procedure and is categorized to the genitourinary chapter rather than coded using an injury code from chapter 19.



## Muscle/Tendon Table

ICD-10-CM categorizes certain muscles and tendons in the upper and lower extremities by their action (e.g., extension, flexion), their anatomical location (e.g., posterior, anterior), and/or whether they are intrinsic or extrinsic to a certain anatomical area. The Muscle/Tendon Table is provided at the beginning of chapters 13 and 19 as a resource to help users when code selection depends on one or more of these characteristics. Please note that this table is not all-inclusive, and proper code assignment should be based on the provider's documentation.

Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Shoulder</b>				
	Deltoid	Posterior deltoid	Anterior deltoid	
	Rotator cuff			
	Infraspinatus			Infraspinatus
	Subscapularis			Subscapularis
	Supraspinatus			Supraspinatus
	Teres minor			Teres minor
	Teres major	Teres major		
<b>Upper arm</b>				
	Anterior muscles			
	Biceps brachii — long head		Biceps brachii — long head	
	Biceps brachii — short head		Biceps brachii — short head	
	Brachialis		Brachialis	
	Coracobrachialis		Coracobrachialis	
	Posterior muscles			
	Triceps brachii	Triceps brachii		
<b>Forearm</b>				
	Anterior muscles			
	Flexors			
	Deep			
	Flexor digitorum profundus		Flexor digitorum profundus	
	Flexor pollicis longus		Flexor pollicis longus	
	Intermediate			
	Flexor digitorum superficialis		Flexor digitorum superficialis	
	Superficial			
	Flexor carpi radialis		Flexor carpi radialis	
	Flexor carpi ulnaris		Flexor carpi ulnaris	
	Palmaris longus		Palmaris longus	
	Pronators			
	Pronator quadratus			Pronator quadratus
	Pronator teres			Pronator teres
	Posterior muscles			
	Extensors			
	Deep			
	Abductor pollicis longus			Abductor pollicis longus
	Extensor indicis	Extensor indicis		
	Extensor pollicis brevis	Extensor pollicis brevis		
	Extensor pollicis longus	Extensor pollicis longus		
	Superficial			
	Brachioradialis			Brachioradialis
	Extensor carpi radialis brevis	Extensor carpi radialis brevis		
	Extensor carpi radialis longus	Extensor carpi radialis longus		
	Extensor carpi ulnaris	Extensor carpi ulnaris		
	Extensor digiti minimi	Extensor digiti minimi		
	Extensor digitorum	Extensor digitorum		
	Anconeus	Anconeus		
	Supinator			Supinator

Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Hand</b>				
Extrinsic — attach to a site in the forearm as well as a site in the hand with action related to hand movement at the wrist				
	Extensor carpi radialis brevis	Extensor carpi radialis brevis		
	Extensor carpi radialis longus	Extensor carpi radialis longus		
	Extensor carpi ulnaris	Extensor carpi ulnaris		
	Flexor carpi radialis		Flexor carpi radialis	
	Flexor carpi ulnaris		Flexor carpi ulnaris	
	Flexor digitorum superficialis		Flexor digitorum superficialis	
	Palmaris longus		Palmaris longus	
Extrinsic — attach to a site in the forearm as well as a site in the hand with action in the hand related to finger movement				
	Adductor pollicis longus			Adductor pollicis longus
	Extensor digiti minimi	Extensor digiti minimi		
	Extensor digitorum	Extensor digitorum		
	Extensor indicis	Extensor indicis		
	Flexor digitorum profundus		Flexor digitorum profundus	
	Flexor digitorum superficialis		Flexor digitorum superficialis	
Extrinsic — attach to a site in the forearm as well as a site in the hand with action in the hand related to thumb movement				
	Extensor pollicis brevis	Extensor pollicis brevis		
	Extensor pollicis longus	Extensor pollicis longus		
	Flexor pollicis longus		Flexor pollicis longus	
Intrinsic — found within the hand only				
	Adductor pollicis			Adductor pollicis
	Dorsal interossei	Dorsal interossei	Dorsal interossei	
	Lumbricals	Lumbricals	Lumbricals	
	Palmaris brevis			Palmaris brevis
	Palmar interossei	Palmar interossei	Palmar interossei	
	<b>Hypothenar muscles</b>			
	Abductor digiti minimi			Abductor digiti minimi
	Flexor digiti minimi brevis		Flexor digiti minimi brevis	
	Opponens digiti minimi		Opponens digiti minimi	
	<b>Thenar muscles</b>			
	Abductor pollicis brevis			Abductor pollicis brevis
	Flexor pollicis brevis		Flexor pollicis brevis	
	Opponens pollicis		Opponens pollicis	
<b>Thigh</b>				
	<b>Anterior muscles</b>			
	Iliopsoas		Iliopsoas	
	Pectineus		Pectineus	
	Quadriceps	Quadriceps		
	Rectus femoris	Rectus femoris — Extends knee	Rectus femoris — Flexes hip	
	Vastus intermedius	Vastus intermedius		
	Vastus lateralis	Vastus lateralis		
	Vastus medialis	Vastus medialis		
	Sartorius		Sartorius	
	<b>Medial muscles</b>			
	Adductor brevis			Adductor brevis
	Adductor longus			Adductor longus
	Adductor magnus			Adductor magnus
	Gracilis			Gracilis
	Obturator externus			Obturator externus
	<b>Posterior muscles</b>			
	Hamstring	Hamstring — Extends hip	Hamstring — Flexes knee	
	Biceps femoris	Biceps femoris	Biceps femoris	
	Semimembranosus	Semimembranosus	Semimembranosus	
	Semitendinosus	Semitendinosus	Semitendinosus	

Body Region	Muscle	Extensor Tendon	Flexor Tendon	Other Tendon
<b>Lower leg</b>				
	Anterior muscles			
	Extensor digitorum longus	Extensor digitorum longus		
	Extensor hallucis longus	Extensor hallucis longus		
	Fibularis (peroneus) tertius	Fibularis (peroneus) tertius		
	Tibialis anterior	Tibialis anterior		Tibialis anterior
	Lateral muscles			
	Fibularis (peroneus) brevis		Fibularis (peroneus) brevis	
	Fibularis (peroneus) longus		Fibularis (peroneus) longus	
	Posterior muscles			
	Deep			
	Flexor digitorum longus		Flexor digitorum longus	
	Flexor hallucis longus		Flexor hallucis longus	
	Popliteus		Popliteus	
	Tibialis posterior		Tibialis posterior	
	Superficial			
	Gastrocnemius		Gastrocnemius	
	Plantaris		Plantaris	
	Soleus		Soleus	
				Calcaneal (Achilles)
<b>Ankle/Foot</b>				
Extrinsic — attach to a site in the lower leg as well as a site in the foot with action related to foot movement at the ankle				
	Plantaris		Plantaris	
	Soleus		Soleus	
	Tibialis anterior	Tibialis anterior		
	Tibialis posterior		Tibialis posterior	
Extrinsic — attach to a site in the lower leg as well as a site in the foot with action in the foot related to toe movement				
	Extensor digitorum longus	Extensor digitorum longus		
	Extensor hallucis longus	Extensor hallucis longus		
	Flexor digitorum longus		Flexor digitorum longus	
	Flexor hallucis longus		Flexor hallucis longus	
Intrinsic — found within the ankle/foot only				
	Dorsal muscles			
	Extensor digitorum brevis	Extensor digitorum brevis		
	Extensor hallucis brevis	Extensor hallucis brevis		
	Plantar muscles			
	Abductor digiti minimi		Abductor digiti minimi	
	Abductor hallucis		Abductor hallucis	
	Dorsal interossei	Dorsal interossei	Dorsal interossei	
	Flexor digiti minimi brevis		Flexor digiti minimi brevis	
	Flexor digitorum brevis		Flexor digitorum brevis	
	Flexor hallucis brevis		Flexor hallucis brevis	
	Lumbricals	Lumbricals	Lumbricals	
	Quadratus plantae		Quadratus plantae	
	Plantar interossei	Plantar interossei	Plantar interossei	

## Chapter 20. External Causes of Morbidity (V00–Y99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

The external causes of morbidity codes should never be sequenced as the first-listed or principal diagnosis.

External cause codes are intended to provide data for injury research and evaluation of injury prevention strategies. These codes capture how the injury or health condition happened (cause), the intent (unintentional or accidental; or intentional, such as suicide or assault), the place where the event occurred, the activity of the patient at the time of the event, and the person's status (e.g., civilian, military).

There is no national requirement for mandatory ICD-10-CM external cause code reporting. Unless a provider is subject to a state-based external cause code reporting mandate or these codes are required by a particular payer, reporting of ICD-10-CM codes in Chapter 20, External Causes of Morbidity, is not required. In the absence of a mandatory reporting requirement, providers are encouraged to voluntarily report external cause codes, as they provide valuable data for injury research and evaluation of injury prevention strategies.

#### a. General external cause coding guidelines

##### 1) Used with any code in the range of A00.0–T88.9, Z00–Z99

An external cause code may be used with any code in the range of A00.0–T88.9, Z00–Z99, classification that **represents** a health condition due to an external cause. Though they are most applicable to injuries, they are also valid for use with such things as infections or diseases due to an external source, and other health conditions, such as a heart attack that occurs during strenuous physical activity.

Patient has bilateral sensorineural hearing loss due to history of exposure to loud noise over 100 dB for a period of greater than 10 years as a sound technician for a band.

**H90.3**      **Sensorineural hearing loss, bilateral**

**W42.9XXS**    **Exposure to other noise, sequela**

*Explanation:* The hearing loss is due to noise exposure. An external cause code identifies the noise as the cause. The seventh character S is used in this case as the hearing loss is a residual effect of the exposure.

##### 2) External cause code used for length of treatment

Assign the external cause code, with the appropriate 7th character (initial encounter, subsequent encounter or sequela) for each encounter for which the injury or condition is being treated.

Most categories in chapter 20 have a 7th character requirement for each applicable code. Most categories in this chapter have three 7th character values: A, initial encounter, D, subsequent encounter and S, sequela. While the patient may be seen by a new or different provider over the course of treatment for an injury or condition, assignment of the 7th character for external cause should match the 7th character of the code assigned for the associated injury or condition for the encounter.

##### 3) Use the full range of external cause codes

Use the full range of external cause codes to completely describe the cause, the intent, the place of occurrence, and if applicable, the activity of the patient at the time of the event, and the patient's status, for all injuries, and other health conditions due to an external cause.

##### 4) Assign as many external cause codes as necessary

Assign as many external cause codes as necessary to fully explain each cause. If only one external code can be recorded, assign the code most related to the principal diagnosis.

##### 5) The selection of the appropriate external cause code

The selection of the appropriate external cause code is guided by the Alphabetic Index of External Causes and by Inclusion and Exclusion notes in the Tabular List.

##### 6) External cause code can never be a principal diagnosis

An external cause code can never be a principal (first-listed) diagnosis.

##### 7) Combination external cause codes

Certain of the external cause codes are combination codes that identify sequential events that result in an injury, such as a fall which results in striking against an object. The injury may be due to either event or both.

The combination external cause code used should correspond to the sequence of events regardless of which caused the most serious injury.

An 86-year-old patient fell and hit his head against the nightstand. He went to the local ER and returned the same day with a diagnosis of scalp contusion.

**S00.03XD**    **Contusion of scalp, subsequent encounter**

**W01.190D**    **Fall on same level from slipping, tripping, and stumbling with subsequent striking against furniture, subsequent encounter**

*Explanation:* Combination external cause codes identify sequential events that result in an injury, such as a fall resulting in striking against an object. The injury may be due to either or both events.

#### 8) No external cause code needed in certain circumstances

No external cause code from Chapter 20 is needed if the external cause and intent are included in a code from another chapter (e.g. T36.0X1-Poisoning by penicillins, accidental (unintentional)).

#### b. Place of occurrence guideline

Codes from category Y92, Place of occurrence of the external cause, are secondary codes for use after other external cause codes to identify the location of the patient at the time of injury or other condition.

Generally, a place of occurrence code is assigned only once, at the initial encounter for treatment. However, in the rare instance that a new injury occurs during hospitalization, an additional place of occurrence code may be assigned. No 7th characters are used for Y92.

Do not use place of occurrence code Y92.9 if the place is not stated or is not applicable.

#### c. Activity code

Assign a code from category Y93, Activity code, to describe the activity of the patient at the time the injury or other health condition occurred.

An activity code is used only once, at the initial encounter for treatment. Only one code from Y93 should be recorded on a medical record.

The activity codes are not applicable to poisonings, adverse effects, misadventures or sequela.

Do not assign Y93.9, Unspecified activity, if the activity is not stated.

A code from category Y93 is appropriate for use with external cause and intent codes if identifying the activity provides additional information about the event.

#### d. Place of occurrence, activity, and status codes used with other external cause code

When applicable, place of occurrence, activity, and external cause status codes are sequenced after the main external cause code(s). Regardless of the number of external cause codes assigned, there should be only one place of occurrence code, one activity code, and one external cause status code assigned to an encounter. However, in the rare instance that a new injury occurs during hospitalization, an additional place of occurrence code may be assigned.

#### e. If the reporting format limits the number of external cause codes

If the reporting format limits the number of external cause codes that can be used in reporting clinical data, report the code for the cause/intent most related to the principal diagnosis. If the format permits, capture of additional external cause codes, the cause/intent, including medical misadventures, of the additional events should be reported rather than the codes for place, activity, or external status.

#### f. Multiple external cause coding guidelines

More than one external cause code is required to fully describe the external cause of an illness or injury. The assignment of external cause codes should be sequenced in the following priority:

If two or more events cause separate injuries, an external cause code should be assigned for each cause. The first-listed external cause code will be selected in the following order:

External codes for child and adult abuse take priority over all other external cause codes.

See Section I.C.19., *Child and Adult abuse guidelines.*

External cause codes for terrorism events take priority over all other external cause codes except child and adult abuse.

External cause codes for cataclysmic events take priority over all other external cause codes except child and adult abuse and terrorism. External cause codes for transport accidents take priority over all other external cause codes except cataclysmic events, child and adult abuse and terrorism. Activity and external cause status codes are assigned following all causal (intent) external cause codes. The first-listed external cause code should correspond to the cause of the most serious diagnosis due to an assault, accident, or self-harm, following the order of hierarchy listed above.

A 70-year-old male was cleaning his basement and accidentally discharged a handgun, resulting in a gunshot wound to his left foot. As he was attempting to go up his stairs to seek help, he fell backwards and sustained a left hip fracture. The GSW is currently being treated with a wound VAC.

**S91.332A Puncture wound without foreign body, left foot, initial encounter**  
**W32.0XXA Accidental handgun discharge, initial encounter**  
**S72.002D Fracture of unspecified part of neck of left femur, subsequent encounter for closed fracture with routine healing**  
**W10.8XXD Fall (on) (from) other stairs and steps, subsequent encounter**

*Explanation:* If one or more events cause separate injuries, each injury and the appropriate external cause code should be assigned. The left foot wound requires active treatment with a VAC dressing and should be coded with seventh character A.

#### g. Child and adult abuse guideline

Adult and child abuse, neglect and maltreatment are classified as assault. Any of the assault codes may be used to indicate the external cause of any injury resulting from the confirmed abuse.

For confirmed cases of abuse, neglect and maltreatment, when the perpetrator is known, a code from Y07, Perpetrator of maltreatment and neglect, should accompany any other assault codes.

See Section I.C.19. Adult and child abuse, neglect and other maltreatment

#### h. Unknown or undetermined intent guideline

If the intent (accident, self-harm, assault) of the cause of an injury or other condition is unknown or unspecified, code the intent as accidental intent. All transport accident categories assume accidental intent.

##### 1) Use of undetermined intent

External cause codes for events of undetermined intent are only for use if the documentation in the record specifies that the intent cannot be determined.

#### i. Sequelae (late effects) of external cause guidelines

##### 1) Sequelae external cause codes

Sequelae are reported using the external cause code with the 7th character "S" for sequela. These codes should be used with any report of a late effect or sequela resulting from a previous injury.

See Section I.B.10 Sequela (Late Effects)

A patient is in a persistent vegetative state resulting from traumatic brain injury 1 year ago that was sustained in a diving accident in which his head hit the diving board.

**R40.3 Persistent vegetative state**  
**S06.9X9S Unspecified intracranial injury with loss of consciousness of unspecified duration, sequela**  
**W21.4XXS Striking against diving board, sequela**

*Explanation:* The persistent vegetative state is identified as a result of the intracranial injury and should be coded first, followed by the injury code with seventh character S to identify the sequelae condition. An external cause code also using seventh character S may be assigned if the cause of the injury is known.

##### 2) Sequela external cause code with a related current injury

A sequela external cause code should never be used with a related current nature of injury code.

#### 3) Use of sequela external cause codes for subsequent visits

Use a late effect external cause code for subsequent visits when a late effect of the initial injury is being treated. Do not use a late effect external cause code for subsequent visits for follow-up care (e.g., to assess healing, to receive rehabilitative therapy) of the injury when no late effect of the injury has been documented.

#### j. Terrorism guidelines

##### 1) Cause of injury identified by the Federal Government (FBI) as terrorism

When the cause of an injury is identified by the Federal Government (FBI) as terrorism, the first-listed external cause code should be a code from category Y38, Terrorism. The definition of terrorism employed by the FBI is found at the inclusion note at the beginning of category Y38. Use additional code for place of occurrence (Y92.-). More than one Y38 code may be assigned if the injury is the result of more than one mechanism of terrorism.

##### 2) Cause of an injury is suspected to be the result of terrorism

When the cause of an injury is suspected to be the result of terrorism a code from category Y38 should not be assigned. Suspected cases should be classified as assault.

##### 3) Code Y38.9, Terrorism, secondary effects

Assign code Y38.9, Terrorism, secondary effects, for conditions occurring subsequent to the terrorist event. This code should not be assigned for conditions that are due to the initial terrorist act.

It is acceptable to assign code Y38.9 with another code from Y38 if there is an injury due to the initial terrorist event and an injury that is a subsequent result of the terrorist event.

#### k. External cause status

A code from category Y99, External cause status, should be assigned whenever any other external cause code is assigned for an encounter, including an Activity code, except for the events noted below. Assign a code from category Y99, External cause status, to indicate the work status of the person at the time the event occurred. The status code indicates whether the event occurred during military activity, whether a non-military person was at work, whether an individual including a student or volunteer was involved in a non-work activity at the time of the causal event.

A code from Y99, External cause status, should be assigned, when applicable, with other external cause codes, such as transport accidents and falls. The external cause status codes are not applicable to poisonings, adverse effects, misadventures or late effects.

Do not assign a code from category Y99 if no other external cause codes (cause, activity) are applicable for the encounter.

An external cause status code is used only once, at the initial encounter for treatment. Only one code from Y99 should be recorded on a medical record.

Do not assign code Y99.9, Unspecified external cause status, if the status is not stated.

## Chapter 21. Factors Influencing Health Status and Contact with Health Services (Z00–Z99)

### Chapter Specific Guidelines with Coding Examples

The chapter specific guidelines from the ICD-10-CM Official Guidelines for Coding and Reporting have been provided below. Along with these guidelines are coding examples, contained in the shaded boxes, that have been developed to help illustrate the coding and/or sequencing guidance found in these guidelines.

**Note:** The chapter specific guidelines provide additional information about the use of Z codes for specified encounters.

#### a. Use of Z codes in any healthcare setting

Z codes are for use in any healthcare setting. Z codes may be used as either a first-listed (principal diagnosis code in the inpatient setting) or secondary code, depending on the circumstances of the encounter. Certain Z codes may only be used as first-listed or principal diagnosis.

Patient with middle lobe lung cancer admitted for observation and discontinuation of chemotherapy

**Z51.11**      **Encounter for antineoplastic chemotherapy**

**C34.2**      **Malignant neoplasm of middle lobe, bronchus or lung**

*Explanation:* A Z code can be used as first-listed in this situation based on guidelines in this chapter as well as chapter 2, "Neoplasms."

#### b. Z Codes indicate a reason for an encounter

Z codes are not procedure codes. A corresponding procedure code must accompany a Z code to describe any procedure performed.

#### c. Categories of Z codes

##### 1) Contact/exposure

Category Z20 indicates contact with, and suspected exposure to, communicable diseases. These codes are for patients who do not show any sign or symptom of a disease but are suspected to have been exposed to it by close personal contact with an infected individual or are in an area where a disease is epidemic.

Category Z77, Other contact with and (suspected) exposures hazardous to health, indicates contact with and suspected exposures hazardous to health.

Contact/exposure codes may be used as a first-listed code to explain an encounter for testing, or, more commonly, as a secondary code to identify a potential risk.

##### 2) Inoculations and vaccinations

Code Z23 is for encounters for inoculations and vaccinations. It indicates that a patient is being seen to receive a prophylactic inoculation against a disease. Procedure codes are required to identify the actual administration of the injection and the type(s) of immunizations given. Code Z23 may be used as a secondary code if the inoculation is given as a routine part of preventive health care, such as a well-baby visit.

##### 3) Status

Status codes indicate that a patient is either a carrier of a disease or has the sequelae or residual of a past disease or condition. This includes such things as the presence of prosthetic or mechanical devices resulting from past treatment. A status code is informative, because the status may affect the course of treatment and its outcome. A status code is distinct from a history code. The history code indicates that the patient no longer has the condition.

A status code should not be used with a diagnosis code from one of the body system chapters, if the diagnosis code includes the information provided by the status code. For example, code Z94.1, Heart transplant status, should not be used with a code from subcategory T86.2, Complications of heart transplant. The status code does not provide additional information. The complication code indicates that the patient is a heart transplant patient.

For encounters for weaning from a mechanical ventilator, assign a code from subcategory J96.1, Chronic respiratory failure, followed by code Z99.11, Dependence on respirator [ventilator] status.

The status Z codes/categories are:

Z14      Genetic carrier

Genetic carrier status indicates that a person carries a gene, associated with a particular disease, which may be passed to

offspring who may develop that disease. The person does not have the disease and is not at risk of developing the disease.

Z15      Genetic susceptibility to disease

Genetic susceptibility indicates that a person has a gene that increases the risk of that person developing the disease.

Codes from category Z15 should not be used as principal or first-listed codes. If the patient has the condition to which he/she is susceptible, and that condition is the reason for the encounter, the code for the current condition should be sequenced first. If the patient is being seen for follow-up after completed treatment for this condition, and the condition no longer exists, a follow-up code should be sequenced first, followed by the appropriate personal history and genetic susceptibility codes. If the purpose of the encounter is genetic counseling associated with proactive management, code Z31.5, Encounter for genetic counseling, should be assigned as the first-listed code, followed by a code from category Z15. Additional codes should be assigned for any applicable family or personal history.

Z16      Resistance to antimicrobial drugs

This code indicates that a patient has a condition that is resistant to antimicrobial drug treatment. Sequence the infection code first.

Z17      Estrogen receptor status

Z18      Retained foreign body fragments

Z19      Hormone sensitivity malignancy status

Z21      Asymptomatic HIV infection status

This code indicates that a patient has tested positive for HIV but has manifested no signs or symptoms of the disease.

Z22      Carrier of infectious disease

Carrier status indicates that a person harbors the specific organisms of a disease without manifest symptoms and is capable of transmitting the infection.

Z28.3      Underimmunization status

Z33.1      Pregnant state, incidental

This code is a secondary code only for use when the pregnancy is in no way complicating the reason for visit. Otherwise, a code from the obstetric chapter is required.

Z66      Do not resuscitate

This code may be used when it is documented by the provider that a patient is on do not resuscitate status at any time during the stay.

Z67      Blood type

Z68      Body mass index (BMI)

As with all other secondary diagnosis codes, the BMI codes should only be assigned when they meet the definition of a reportable diagnosis (see Section III, Reporting Additional Diagnoses).

Z74.01      Bed confinement status

Z76.82      Awaiting organ transplant status

Z78      Other specified health status

Code Z78.1, Physical restraint status, may be used when it is documented by the provider that a patient has been put in restraints during the current encounter. Please note that this code should not be reported when it is documented by the provider that a patient is temporarily restrained during a procedure.

Z79      Long-term (current) drug therapy

Codes from this category indicate a patient's continuous use of a prescribed drug (including such things as aspirin therapy) for the long-term treatment of a condition or for prophylactic use. It is not for use for patients who have addictions to drugs. This subcategory is not for use of medications for detoxification or maintenance programs to prevent withdrawal symptoms in patients with drug dependence (e.g., methadone maintenance for opiate dependence). Assign the appropriate code for the drug dependence instead.

Assign a code from Z79 if the patient is receiving a medication for an extended period as a prophylactic measure (such as for the prevention of deep vein thrombosis) or as treatment of a

- chronic condition (such as arthritis) or a disease requiring a lengthy course of treatment (such as cancer). Do not assign a code from category Z79 for medication being administered for a brief period of time to treat an acute illness or injury (such as a course of antibiotics to treat acute bronchitis).
- Z88 Allergy status to drugs, medicaments and biological substances  
Except: Z88.9, Allergy status to unspecified drugs, medicaments and biological substances status
- Z89 Acquired absence of limb
- Z90 Acquired absence of organs, not elsewhere classified
- Z91.0- Allergy status, other than to drugs and biological substances
- Z92.82 Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to a current facility  
Assign code Z92.82, Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility, as a secondary diagnosis when a patient is received by transfer into a facility and documentation indicates they were administered tissue plasminogen activator (tPA) within the last 24 hours prior to admission to the current facility.  
This guideline applies even if the patient is still receiving the tPA at the time they are received into the current facility.  
The appropriate code for the condition for which the tPA was administered (such as cerebrovascular disease or myocardial infarction) should be assigned first.  
Code Z92.82 is only applicable to the receiving facility record and not to the transferring facility record.
- Z93 Artificial opening status
- Z94 Transplanted organ and tissue status
- Z95 Presence of cardiac and vascular implants and grafts
- Z96 Presence of other functional implants
- Z97 Presence of other devices
- Z98 Other postprocedural states  
Assign code Z98.85, Transplanted organ removal status, to indicate that a transplanted organ has been previously removed. This code should not be assigned for the encounter in which the transplanted organ is removed. The complication necessitating removal of the transplant organ should be assigned for that encounter.  
*See section I.C19. for information on the coding of organ transplant complications.*
- Z99 Dependence on enabling machines and devices, not elsewhere classified  
**Note:** Categories Z89-Z90 and Z93-Z99 are for use only if there are no complications or malfunctions of the organ or tissue replaced, the amputation site or the equipment on which the patient is dependent..

#### 4) History (of)

There are two types of history Z codes, personal and family. Personal history codes explain a patient's past medical condition that no longer exists and is not receiving any treatment, but that has the potential for recurrence, and therefore may require continued monitoring.

Patient with a history of bladder cancer underwent a cystectomy 6 months ago with ileal conduit formation, for which she requires assistance and instruction to manage. No further treatment for the neoplasm has been provided. The patient has been experiencing frequent episodes of pyelonephritis since the surgery. It is noted in the preadmission provider H&P that antibiotic therapy was discontinued 3 days ago.

- Z85.51 Personal history of malignant neoplasm of bladder**
- Z87.440 Personal history of urinary (tract) infections**
- Z43.6 Encounter for attention to other artificial openings of urinary tract**

*Explanation:* Since the malignancy has been excised with no further treatment noted, code Z85 should be assigned to report the personal history of malignancy. The antibiotic treatment for pyelonephritis has been discontinued, and it is not appropriate to code the infection as active. Instead Z87.440 should be assigned to report that the patient has a significant history of urinary infection. Code Z43.6 captures the presence of and the care needed to manage the ileal conduit.

Family history codes are for use when a patient has a family member(s) who has had a particular disease that causes the patient to be at higher risk of also contracting the disease.

Personal history codes may be used in conjunction with follow-up codes and family history codes may be used in conjunction with screening codes to explain the need for a test or procedure. History codes are also acceptable on any medical record regardless of the reason for visit. A history of an illness, even if no longer present, is important information that may alter the type of treatment ordered.

The history Z code categories are:

- Z80 Family history of primary malignant neoplasm
- Z81 Family history of mental and behavioral disorders
- Z82 Family history of certain disabilities and chronic diseases (leading to disablement)
- Z83 Family history of other specific disorders
- Z84 Family history of other conditions
- Z85 Personal history of malignant neoplasm
- Z86 Personal history of certain other diseases
- Z87 Personal history of other diseases and conditions
- Z91.4- Personal history of psychological trauma, not elsewhere classified
- Z91.5 Personal history of self-harm
- Z91.81 History of falling**
- Z91.82 Personal history of military deployment**
- Z92 Personal history of medical treatment  
Except: Z92.0, Personal history of contraception  
Except: Z92.82, Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to a current facility

#### 5) Screening

Screening is the testing for disease or disease precursors in seemingly well individuals so that early detection and treatment can be provided for those who test positive for the disease (e.g., screening mammogram).

The testing of a person to rule out or confirm a suspected diagnosis because the patient has some sign or symptom is a diagnostic examination, not a screening. In these cases, the sign or symptom is used to explain the reason for the test.

A screening code may be a first-listed code if the reason for the visit is specifically the screening exam. It may also be used as an additional code if the screening is done during an office visit for other health problems. A screening code is not necessary if the screening is inherent to a routine examination, such as a pap smear done during a routine pelvic examination.

Should a condition be discovered during the screening then the code for the condition may be assigned as an additional diagnosis.

The Z code indicates that a screening exam is planned. A procedure code is required to confirm that the screening was performed.

The screening Z codes/categories:

- Z11 Encounter for screening for infectious and parasitic diseases
- Z12 Encounter for screening for malignant neoplasms
- Z13 Encounter for screening for other diseases and disorders  
Except: Z13.9, Encounter for screening, unspecified
- Z36 Encounter for antenatal screening for mother

#### 6) Observation

There are three observation Z code categories. They are for use in very limited circumstances when a person is being observed for a suspected condition that is ruled out. The observation codes are not for use if an injury or illness or any signs or symptoms related to the suspected condition are present. In such cases the diagnosis/symptom code is used with the corresponding external cause code.

The observation codes are to be used as principal diagnosis only. The only exception to this is when the principal diagnosis is required to be a code from category Z38, Liveborn infants according to place of birth and type of delivery. Then a code from category Z05, Encounter for observation and evaluation of newborn for suspected diseases and conditions ruled out, is sequenced after the Z38 code. Additional codes may be used in addition to the observation code but only if they are unrelated to the suspected condition being observed.

Codes from subcategory Z03.7, Encounter for suspected maternal and fetal conditions ruled out, may either be used as a first-listed or as an additional code assignment depending on the case. They are for use in very limited circumstances on a maternal record when an encounter is for a suspected maternal or fetal condition that is ruled out during that encounter (for example, a maternal or fetal condition may be suspected

due to an abnormal test result). These codes should not be used when the condition is confirmed. In those cases, the confirmed condition should be coded. In addition, these codes are not for use if an illness or any signs or symptoms related to the suspected condition or problem are present. In such cases the diagnosis/symptom code is used.

Additional codes may be used in addition to the code from subcategory Z03.7, but only if they are unrelated to the suspected condition being evaluated.

Codes from subcategory Z03.7 may not be used for encounters for antenatal screening of mother. See Section I.C.21. Screening.

For encounters for suspected fetal condition that are inconclusive following testing and evaluation, assign the appropriate code from category O35, O36, O40 or O41.

The observation Z code categories:

- Z03 Encounter for medical observation for suspected diseases and conditions ruled out
- Z04 Encounter for examination and observation for other reasons  
Except: Z04.9, Encounter for examination and observation for unspecified reason
- Z05 Encounter for observation and evaluation of newborn for suspected diseases and conditions ruled out

## 7) Aftercare

Aftercare visit codes cover situations when the initial treatment of a disease has been performed and the patient requires continued care during the healing or recovery phase, or for the long-term consequences of the disease. The aftercare Z code should not be used if treatment is directed at a current, acute disease. The diagnosis code is to be used in these cases. Exceptions to this rule are codes Z51.0, Encounter for antineoplastic radiation therapy, and codes from subcategory Z51.1, Encounter for antineoplastic chemotherapy and immunotherapy. These codes are to be first-listed, followed by the diagnosis code when a patient's encounter is solely to receive radiation therapy, chemotherapy, or immunotherapy for the treatment of a neoplasm. If the reason for the encounter is more than one type of antineoplastic therapy, code Z51.0 and a code from subcategory Z51.1 may be assigned together, in which case one of these codes would be reported as a secondary diagnosis.

The aftercare Z codes should also not be used for aftercare for injuries. For aftercare of an injury, assign the acute injury code with the appropriate 7th character (for subsequent encounter).

The aftercare codes are generally first-listed to explain the specific reason for the encounter. An aftercare code may be used as an additional code when some type of aftercare is provided in addition to the reason for admission and no diagnosis code is applicable. An example of this would be the closure of a colostomy during an encounter for treatment of another condition.

Aftercare codes should be used in conjunction with other aftercare codes or diagnosis codes to provide better detail on the specifics of an aftercare encounter visit, unless otherwise directed by the classification. Should a patient receive multiple types of antineoplastic therapy during the same encounter, code Z51.0, Encounter for antineoplastic radiation therapy, and codes from subcategory Z51.1, Encounter for antineoplastic chemotherapy and immunotherapy, may be used together on a record. The sequencing of multiple aftercare codes depends on the circumstances of the encounter.

Certain aftercare Z code categories need a secondary diagnosis code to describe the resolving condition or sequelae. For others, the condition is included in the code title.

Additional Z code aftercare category terms include fitting and adjustment, and attention to artificial openings.

Status Z codes may be used with aftercare Z codes to indicate the nature of the aftercare. For example code Z95.1, Presence of aortocoronary bypass graft, may be used with code Z48.812, Encounter for surgical aftercare following surgery on the circulatory system, to indicate the surgery for which the aftercare is being performed. A status code should not be used when the aftercare code indicates the type of status, such as using Z43.0, Encounter for attention to tracheostomy, with Z93.0, Tracheostomy status.

The aftercare Z category/codes:

- Z42 Encounter for plastic and reconstructive surgery following medical procedure or healed injury
- Z43 Encounter for attention to artificial openings
- Z44 Encounter for fitting and adjustment of external prosthetic device
- Z45 Encounter for adjustment and management of implanted device
- Z46 Encounter for fitting and adjustment of other devices

- Z47 Orthopedic aftercare
- Z48 Encounter for other postprocedural aftercare
- Z49 Encounter for care involving renal dialysis
- Z51 Encounter for other aftercare and medical care

Patient admitted post right total knee replacement for physical therapy

### Z47.1 Aftercare following joint replacement surgery

#### Z96.651 Presence of right artificial knee joint

*Explanation:* An elective joint replacement, that is one done by choice and not to correct a fracture or other injury, should be reported by the post-acute care provider by using code Z47.1. Guidelines for the assignment of Z47.1 include instructions to "use additional code to identify the joint."

## 8) Follow-up

The follow-up codes are used to explain continuing surveillance following completed treatment of a disease, condition, or injury. They imply that the condition has been fully treated and no longer exists. They should not be confused with aftercare codes, or injury codes with a 7th character for subsequent encounter, that explain ongoing care of a healing condition or its sequelae. Follow-up codes may be used in conjunction with history codes to provide the full picture of the healed condition and its treatment. The follow-up code is sequenced first, followed by the history code.

A follow-up code may be used to explain multiple visits. Should a condition be found to have recurred on the follow-up visit, then the diagnosis code for the condition should be assigned in place of the follow-up code.

The follow-up Z code categories:

- Z08 Encounter for follow-up examination after completed treatment for malignant neoplasm
- Z09 Encounter for follow-up examination after completed treatment for conditions other than malignant neoplasm
- Z39 Encounter for maternal postpartum care and examination

## 9) Donor

Codes in category Z52, Donors of organs and tissues, are used for living individuals who are donating blood or other body tissue. These codes are only for individuals donating for others, not for self-donations. They are not used to identify cadaveric donations.

## 10) Counseling

Counseling Z codes are used when a patient or family member receives assistance in the aftermath of an illness or injury, or when support is required in coping with family or social problems.

The counseling Z codes/categories:

- Z30.0 Encounter for general counseling and advice on contraception
- Z31.5 Encounter for **procreative** genetic counseling
- Z31.6 Encounter for general counseling and advice on procreation
- Z32.2 Encounter for childbirth instruction
- Z32.3 Encounter for childcare instruction
- Z69 Encounter for mental health services for victim and perpetrator of abuse
- Z70 Counseling related to sexual attitude, behavior and orientation
- Z71 Persons encountering health services for other counseling and medical advice, not elsewhere classified
- Z76.81 Expectant mother prebirth pediatrician visit

## 11) Encounters for obstetrical and reproductive services

See Section I.C.15. Pregnancy, Childbirth, and the Puerperium, for further instruction on the use of these codes.

Z codes for pregnancy are for use in those circumstances when none of the problems or complications included in the codes from the Obstetrics chapter exist (a routine prenatal visit or postpartum care). Codes in category Z34, Encounter for supervision of normal pregnancy, are always first-listed and are not to be used with any other code from the OB chapter.

Codes in category Z3A, Weeks of gestation, may be assigned to provide additional information about the pregnancy. Category Z3A codes should not be assigned for pregnancies with abortive outcomes (categories O00-O08), elective termination of pregnancy (code Z33.2), nor for postpartum conditions, as category Z3A is not applicable to these conditions. The date of the admission should be used to determine weeks of gestation for inpatient admissions that encompass more than one gestational week.

The outcome of delivery, category Z37, should be included on all maternal delivery records. It is always a secondary code. Codes in category Z37 should not be used on the newborn record.



Z codes for family planning (contraceptive) or procreative management and counseling should be included on an obstetric record either during the pregnancy or the postpartum stage, if applicable.

Z codes/categories for obstetrical and reproductive services:

Z30	Encounter for contraceptive management
Z31	Encounter for procreative management
Z32.2	Encounter for childbirth instruction
Z32.3	Encounter for childcare instruction
Z33	Pregnant state
Z34	Encounter for supervision of normal pregnancy
Z36	Encounter for antenatal screening of mother
Z3A	Weeks of gestation
Z37	Outcome of delivery
Z39	Encounter for maternal postpartum care and examination
Z76.81	Expectant mother prebirth pediatrician visit

## 12) Newborns and infants

See Section I.C.16. *Newborn (Perinatal) Guidelines, for further instruction on the use of these codes.*

Newborn Z codes/categories:

Z76.1	Encounter for health supervision and care of foundling
Z00.1-	Encounter for routine child health examination
Z38	Liveborn infants according to place of birth and type of delivery

## 13) Routine and administrative examinations

The Z codes allow for the description of encounters for routine examinations, such as, a general check-up, or, examinations for administrative purposes, such as, a pre-employment physical. The codes are not to be used if the examination is for diagnosis of a suspected condition or for treatment purposes. In such cases the diagnosis code is used. During a routine exam, should a diagnosis or condition be discovered, it should be coded as an additional code. Pre-existing and chronic conditions and history codes may also be included as additional codes as long as the examination is for administrative purposes and not focused on any particular condition.

Some of the codes for routine health examinations distinguish between "with" and "without" abnormal findings. Code assignment depends on the information that is known at the time the encounter is being coded. For example, if no abnormal findings were found during the examination, but the encounter is being coded before test results are back, it is acceptable to assign the code for "without abnormal findings." When assigning a code for "with abnormal findings," additional code(s) should be assigned to identify the specific abnormal finding(s).

Pre-operative examination and pre-procedural laboratory examination Z codes are for use only in those situations when a patient is being cleared for a procedure or surgery and no treatment is given.

The Z codes/categories for routine and administrative examinations:

Z00	Encounter for general examination without complaint, suspected or reported diagnosis
Z01	Encounter for other special examination without complaint, suspected or reported diagnosis
Z02	Encounter for administrative examination Except: Z02.9, Encounter for administrative examinations, unspecified
Z32.0-	Encounter for pregnancy test

## 14) Miscellaneous Z codes

The miscellaneous Z codes capture a number of other health care encounters that do not fall into one of the other categories. Certain of these codes identify the reason for the encounter; others are for use as additional codes that provide useful information on circumstances that may affect a patient's care and treatment.

Patient has Asperger's syndrome and wanders.

**F84.5 Asperger's syndrome**

**Z91.83 Wandering in diseases classified elsewhere**

*Explanation:* Code Z91.83 is a miscellaneous Z code that provides additional insight into this patient's Asperger's diagnosis. Care provided to an Asperger's patient who wanders or elopes may be different than for an Asperger's patient who does not wander.

## Prophylactic organ removal

For encounters specifically for prophylactic removal of an organ (such as prophylactic removal of breasts due to a genetic susceptibility to cancer or a family history of cancer), the principal or first-listed code should be a code from category Z40, Encounter for prophylactic surgery, followed by the appropriate codes to identify the associated risk factor (such as genetic susceptibility or family history).

If the patient has a malignancy of one site and is having prophylactic removal at another site to prevent either a new primary malignancy or metastatic disease, a code for the malignancy should also be assigned in addition to a code from subcategory Z40.0, Encounter for prophylactic surgery for risk factors related to malignant neoplasms. A Z40.0 code should not be assigned if the patient is having organ removal for treatment of a malignancy, such as the removal of the testes for the treatment of prostate cancer.

Miscellaneous Z codes/categories:

Z28	Immunization not carried out Except: Z28.3, Underimmunization status
Z29	Encounter for other prophylactic measures
Z40	Encounter for prophylactic surgery
Z41	Encounter for procedures for purposes other than remedying health state Except: Z41.9, Encounter for procedure for purposes other than remedying health state, unspecified
Z53	Persons encountering health services for specific procedures and treatment, not carried out
Z55	Problems related to education and literacy
Z56	Problems related to employment and unemployment
Z57	Occupational exposure to risk factors
Z58	Problems related to physical environment
Z59	Problems related to housing and economic circumstances
Z60	Problems related to social environment
Z62	Problems related to upbringing
Z63	Other problems related to primary support group, including family circumstances
Z64	Problems related to certain psychosocial circumstances
Z65	Problems related to other psychosocial circumstances
Z72	Problems related to lifestyle <b>Note:</b> These codes should be assigned only when the documentation specifies that the patient has an associated problem
Z73	Problems related to life management difficulty
Z74	Problems related to care provider dependency Except: Z74.01, Bed confinement status
Z75	Problems related to medical facilities and other health care
Z76.0	Encounter for issue of repeat prescription
Z76.3	Healthy person accompanying sick person
Z76.4	Other boarder to healthcare facility
Z76.5	Malingering [conscious simulation]
Z91.1-	Patient's noncompliance with medical treatment and regimen
Z91.83	Wandering in diseases classified elsewhere
<b>Z91.84- Oral health risk factors</b>	
Z91.89	Other specified personal risk factors, not elsewhere classified

## 15) Nonspecific Z codes

Certain Z codes are so non-specific, or potentially redundant with other codes in the classification, that there can be little justification for their use in the inpatient setting. Their use in the outpatient setting should be limited to those instances when there is no further documentation to permit more precise coding. Otherwise, any sign or symptom or any other reason for visit that is captured in another code should be used.

Nonspecific Z codes/categories:

Z02.9	Encounter for administrative examinations, unspecified
Z04.9	Encounter for examination and observation for unspecified reason
Z13.9	Encounter for screening, unspecified
Z41.9	Encounter for procedure for purposes other than remedying health state, unspecified
Z52.9	Donor of unspecified organ or tissue
Z86.59	Personal history of other mental and behavioral disorders
Z88.9	Allergy status to unspecified drugs, medicaments and biological substances status
Z92.0	Personal history of contraception

**16) Z codes that may only be principal/first-listed diagnosis**

The following Z codes/categories may only be reported as the principal/first-listed diagnosis, except when there are multiple encounters on the same day and the medical records for the encounters are combined:

- Z00 Encounter for general examination without complaint, suspected or reported diagnosis  
Except: Z00.6
- Z01 Encounter for other special examination without complaint, suspected or reported diagnosis
- Z02 Encounter for administrative examination
- Z03 Encounter for medical observation for suspected diseases and conditions ruled out
- Z04 Encounter for examination and observation for other reasons
- Z33.2 Encounter for elective termination of pregnancy
- Z31.81 Encounter for male factor infertility in female patient
- Z31.82 Encounter for Rh incompatibility status
- Z31.83 Encounter for assisted reproductive fertility procedure cycle
- Z31.84 Encounter for fertility preservation procedure
- Z34 Encounter for supervision of normal pregnancy
- Z39 Encounter for maternal postpartum care and examination
- Z38 Liveborn infants according to place of birth and type of delivery
- Z40 Encounter for prophylactic surgery**
- Z42 Encounter for plastic and reconstructive surgery following medical procedure or healed injury
- Z51.0 Encounter for antineoplastic radiation therapy
- Z51.1- Encounter for antineoplastic chemotherapy and immunotherapy
- Z52 Donors of organs and tissues  
Except: Z52.9, Donor of unspecified organ or tissue
- Z76.1 Encounter for health supervision and care of foundling
- Z76.2 Encounter for health supervision and care of other healthy infant and child
- Z99.12 Encounter for respirator [ventilator] dependence during power failure