This book includes ICD-9-CM changes announced in the CMS Hospital Inpatient Prospective Payment Systems Proposed Rules, as published in the. Any additional changes to these codes may be obtained at the CMS Web site or in the Final Rule for IPPS in the Federal Register when it is available (usually in August). The official ICD-9-CM addenda are available online from: http://www.cdc.gov/nchs/datawh/ftpserv/ftpicd9/ftpicd9.htm#guidelines.


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Exercise Answer Key

The answer key includes the correct ICD-9-CM codes and the Alphabetic Index entry used to locate each code.

Chapter 1 Introduction to ICD-9-CM

Exercise 1.1
1. Category
2. 055.9
3. Existence of complications of measles as well as uncomplicated cases
4. Manifestations
5. Section is Viral diseases accompanied by exanthem (050–057). Chapter is Infectious and Parasitic Diseases (001–139).

Exercise 1.2
1. 6
2. 3
3. 8
4. 820.01
5. 820.9

Exercise 1.3
1. Mass
2. Hydronephrosis
3. Deviated
4. Adenopathy
5. Arteriosclerotic or disease

Exercise 1.4
1. 307.81 Headache, tension
2. 577.0 Pancreatitis, suppurative
3. 520.6 Eruption, teeth/tooth, neonatal
4. 421.0 Endocarditis, infectious
5. 391.1 Endocarditis, mitral, with aortic (valve) disease, active or acute

Exercise 1.5
1. 756.3 Distortion (congenital), chest (wall)
2. 562.10 Diverticula (ruptured), cecum
3. 455.5 Hemorrhoids (rectum), external, bleeding
4. 627.4 Syndrome, menopause, postartificial
   Menopause (syndrome), postsurgical
5. 597.80 Urethritis (acute)

Exercise 1.6
1. 300.81 Briquet's disorder or syndrome
   Disorder, Briquet's
2. 335.20 Lou Gehrig's disease
   Disease, Lou Gehrig's
3. 426.9 Stokes-Adams syndrome
   Syndrome, Stokes-Adams
4. 755.52 Sprengel's deformity
   Deformity, Sprengel's
5. 359.1 Erb's disease
   Disease, Erb

Exercise 1.7
1. 615.0 Endomyometritis, see also Endometritis
   Endometritis, acute
2. 621.8 Metrorrhexis—see Rupture, uterus
   Rupture, uterus, nontraumatic
3. 715.31 Osteoarthritis, see also Osteoarthrosis
   Osteoarthrosis, localized
   Fifth digit 1 = shoulder
4. 722.0 Prolapse, disc—see Displacement, intervertebral disc
   Displacement, intervertebral disc, cervical
5. 622.4 Stenosis, cervix/cervical (canal)
   Stenosis—see also Stricture
   Stricture, cervix, cervical (canal)

Exercise 1.8
1. Lower jawbone
2. Crohn’s disease/Granulomatous enteritis
3. Infectious diarrhea
4. German measles
5. Congenital rubella

**Exercise 1.9**

1. Birth weight of 4,500 grams or more
2. Site of elbow dislocation
3. Closed
4. 3 is the fifth digit (type I diabetes, uncontrolled)
5. Injury, superficial

**Exercise 1.10**

1. 571.5, 456.20 Varices—see Varix
   Varix, esophagus, bleeding, in, cirrhosis of liver 571.5 [456.20]
2. 599.0, 041.4 Infection, urinary (tract)
   Tabular List—Use additional code to identify organism
   Infection, Escherichia coli
3. 532.01 Ulcer, duodenum/duodenal, acute, with hemorrhage
   (fifth digit with obstruction)
4. 776.6 Anemia, of prematurity
5. 392.9 Chorea, rheumatic

**Exercise 1.11**

1. 410.01 Infarction, myocardium, anterolateral (wall)—fifth digit for initial episode
2. 537.82 Angiodysplasia, stomach, or Angiodysplasia, duodenal
3. 017.30 Iritis, tuberculous (see also Tuberculosis) 017.3
   364.11 – fifth digit for unspecified
   Chronic iridocyclitis in diseases classified elsewhere
4. 159.1 Neoplasm, spleen, malignant, primary
5. 057.0 Fifth disease or Disease, fifth

**Review Exercise: Chapter 1**

1. 540.0 Appendicitis, acute, with, perforation
2. 482.30 Pneumonia, streptococcal
3. 786.52 Pain, chest, wall (anterior)
4. 415.0 Cor, pulmonale, acute
5. 715.17 Osteoarthrosis, localized, primary
   Fifth digit 7 = ankle
6. 242.31 Goiter, nodular, toxic
   Fifth digit 1 = crisis
7. 759.2 Extra—see also Accessory; Accessory, thyroid gland
8. 569.85 Angiodysplasia (intestine) with hemorrhage
9. 466.0 Tracheobronchitis, acute, with Bronchospasm
10. 414.01 Arteriosclerosis, heart—see also
    Arteriosclerosis, coronary
    Arteriosclerosis, coronary, native artery
    Angina, stable
11. 710.0, 581.81 Syndrome, nephrotic—see also
    Nephrosis
    Nephrosis, in systemic lupus
    Erythematous 710.0 [581.81]
12. V22.0 Prenatal care, normal first pregnancy
13. 820.22 Fracture, femur, subtrochanteric (section)
14. 131.03 Prostatitis due to Trichomonas
15. 433.11 Occlusion, carotid artery—see Occlusion, artery, carotid

**Chapter 2  Procedures**

**Exercise 2.1**

1. Myectomy
2. Repair
3. Removal
4. Biopsy
5. Dilation and curettage or Curettage
6. Irwin or Operation
7. Mohs’ or Chemosurgery
8. Suture
9. Training or Activities of daily living (ADL)
10. Anastomosis or Takedown

**Exercise 2.2**

1. 81.11 Arthrodesis, ankle
2. 85.11 Biopsy, breast, percutaneous (needle)
3. 21.01 Control, epistaxis, by, packing (nasal) (anterior)
4. 82.19 Myotomy, hand, with division
5. 38.45 Phlebectomy, graft replacement, thoracic NEC

**Exercise 2.3**
1. 59.5 Marshall-Marchetti-(Krantz) operation
   Operation, Marshall-Marchetti-(Krantz)
2. 44.66 Nissen operation (fundoplication of stomach)
   Operation, Nissen
3. 67.59 Shirodkar operation
   Operation, Shirodkar
4. 77.59 Mayo operation, bunionectiony
   Operation, Mayo, bunionectiony
5. 22.39 Caldwell-Luc operation
   Operation, Caldwell-Luc
   Sinusotony, maxillary, external approach
   (Caldwell-Luc)

**Exercise 2.4**
1. 32.49 Lobectomy, lung (complete), other
   Thoracotomy is the approach.
2. 01.51 Excision, cyst—see also
   Excision, lesion, by site
   Excision, lesion, meninges (cerebral)
   Craniotomy is the approach.
3. 45.79 Resection, colon (partial)
   End-to-end anastomosis included in resection
4. 81.92 Injection, joint
   99.23 Injection, steroid NEC, or Injection, Cortisone
5. 13.11 Extraction, cataract, intracapsular, by temporal
   inferior route
   13.71 Insertion, pseudophakos—see also
   Insertion, lens
   Insertion, lens, with cataract extraction, one-stage
6. 51.23 Cholecystectomy, laparoscopic
7. 34.21 Thoracoscopy, transpleural
8. 57.33 Cystoscopy, with biopsy
9. 80.26 Arthroscopy, knee
10. 80.6 Meniscectomy (knee)

**Review Exercise: Chapter 2**
1. 54.11 Laparotomy, exploratory (pelvic)
   Herniorrhaphy—see Repair, hernia
   (Ventral herniorrhaphy was canceled.)
2. 47.09 Appendectomy (with drainage)
   Drainage, appendix, abscess, with
   Appendectomy
3. 97.88 Removal, cast
4. 94.46 Counseling, alcoholism
5. 36.13 Bypass graft, (aorto) coronary, three
   coronary vessels
   39.61 Bypass, cardiopulmonary
6. 42.23 Esophagoscopy
   98.02 Removal, foreign body, esophagus
   (intraluminal)
7. 46.52 Takedown, colostomy
8. 23.19 Removal, impacted, tooth
9. 50.12 Biopsy, liver, open (done via laparotomy)
10. 81.23 Arthrodesis, shoulder
11. 620.2 Cyst, ovary, ovarian
    465.9 Infection, respiratory, upper
    V64.1 Procedure (surgical) not done, because of,
    contraindications
    No code for oophorectomy—procedure not done
12. 79.35 Reduction, fracture, femur, open, with
    internal fixation
13. 08.61 Tarsoplasty—see also
    reconstruction, eyelid
    Reconstruction, eyelid, with graft or flap, skin
14. 22.42 Turbinectomy, with sinusectomy—see
    Sinusectomy
    Sinusectomy, frontal
    22.62 Sinusectomy, maxillary
15. 60.11 Biopsy, prostate, percutaneous (needle)
Review Exercise: Chapter 3

1. To establish a minimum common core of data to be collected on individual acute care short term hospital discharges in Medicare and Medicaid programs. UHDDS sought to improve the uniformity and comparability of hospital discharge data.

2. All non-outpatient settings including acute care, short term care, long term care, and psychiatric hospitals, home health agencies, rehabilitation facilities, and nursing homes.

3. The condition established after study to be chiefly responsible for occasioning the admission of the patient to the hospital for care.

4. Conditions that coexist at the time of admission, that develop subsequently, or that affect the treatment received and/or the length of stay. Diagnoses are to be excluded that relate to an earlier episode that has no bearing on the current hospital stay.

5. A complication is an additional diagnosis that describes a condition arising after the beginning of the hospital observation and treatment and then modifying the course of the patient’s illness or the medical care required. A comorbidity is an additional diagnosis that describes a preexisting condition that because of its presence with a specific principal diagnosis will likely cause an increase in the patient’s length of stay in the hospital.

6. The National Uniform Billing Committee

7. Grand total of 22. 18 Diagnosis codes + 3 E codes + 1 admitting diagnosis code

8. 6 procedure codes

9. Principal diagnosis = seizure

10. Principal diagnosis could be either acute pyelonephritis or acute cystitis as there are inter-related conditions (same ICD-9-CM chapter) and both were treated during the hospital stay.

11. Principal diagnosis could be either acute exacerbation of COPD or acute low back pain as the two diagnosis equally meet the definition of principal diagnosis.

12. Principal diagnosis could be either acute pancreatitis or acute cholangitis as both are unconfirmed diagnosis and could explain the patient’s symptoms.

13. Principal diagnosis is left lower quadrant abdominal pain. The diagnoses of ruptured ovarian cyst and acute salpingitis are coded as additional diagnoses.

14. Principal diagnosis is osteoarthritis of knee. Additional codes for hypertensive heart disease and code V64.1, surgical or other procedure not carried out because of contraindication, would be assigned.

15. Principal diagnosis is postoperative wound infection. An additional diagnosis for diverticulitis is assigned.

16. Principal diagnosis is viral pneumonia.

17. Principal diagnosis is status asthmaticus

18. Principal diagnosis is orthostatic hypotension. An additional diagnosis code for cataract is also assigned. The procedure of the cataract extraction is also coded.

19. The other diagnoses of cholelithiasis and type II diabetes are coded. The history of pneumonia and status post bunionectomy are unrelated to this hospital stay, are historical events, and therefore not coded.

20. The other diagnoses of hypertension and benign prostatic hypertrophy are coded. No other diagnoses codes for the findings from the laboratory reports should be assigned without asking the physician if the abnormal findings are significant.

21. In addition to the gastritis, both the acute duodenitis and acute pancreatitis should be coded.

22. To improve Medicare’s ability to recognize severity of illness in its inpatient hospital payments. The new system is projected to increase payments to hospitals for services provided to sicker patients and decrease payments for treating less severely ill patients.

23. Hospital payment = DRG relative weight multiplied by the hospital base rate.

24. Additional payments may be made to (1) disproportionate share hospitals, (2) for indirect medical education, (3) for new technologies and (4) for an outlier case.

25. Principal or secondary surgical procedures

26. The QIO’s programs are designed to:

1. Assist healthcare providers in hospitals, physician offices, nursing homes and home health agencies with their quality
improvement efforts to improve the processes and outcomes of medical care for Medicare beneficiaries.

2. Conduct case review to determine whether services provided are medically necessary, appropriate and meet professionally recognized standards of care.

3. Educate Medicare beneficiaries about their healthcare rights and responsibilities and the importance of preventive healthcare.

4. Respond to Medicare beneficiary concerns about the quality of care they have received.

5. Assist physician offices with the adoption and implementation of electronic health record (EHR) technology.

27. Recovery audit contractors

28. By reviewing all the ICD-9-CM diagnosis codes assigned to explain the reasons the services were provided.

29. The urinary retention would be reported with a “N” for no, condition not present on admission.

30. An advance beneficiary notice (ABN.)

Chapter 4 Infectious and Parasitic Diseases

Review Exercise: Chapter 4

1. 042 AIDS
   Syndrome, acquired immune deficiency or immunodeficiency

   047.8 Meningitis, aseptic [4th digit 8 = other specified viral meningitis (HIV)]

2. V08 HIV—see Human immunodeficiency virus
   Human immunodeficiency virus, infection

3. 038.11 Septicemia, staphylococcal aureus
   995.91 Sepsis
   (The “code first” note following code 995.91 directs the coder to assign the code for the underlying infection first.)

   110.4 Dermatophytosis, foot

5. 813.21 Fracture, radius, shaft
   042 AIDS

6. 011.15 Tuberculosis, pulmonary, nodular
   Fifth digit 5 = confirmed histologically

7. 045.90 Poliomyelitis

8. 344.30 Paralysis, lower extremity—see Leg
   138 Late, effect, poliomyelitis; Poliomyelitis, late effect

9. 070.1 Hepatitis, viral, type A

10. 005.0 Poisoning, food, due to staphylococcus

11. 042 AIDS
   348.39 Encephalopathy, other specified type
   (due to AIDS)
   112.84 Candidiasis, esophagus

12. 098.15 Cervicitis, gonococcal (acute)
   098.16 Endometritis, gonococcal (acute)

13. 093.22 Endocarditis, syphilitic NEC = 093.20
   Endocarditis, aortic, syphilitic

14. 034.0 Nasopharyngitis, septic

15. 125.9 Orchitis, filarial 125.9 [604.91]
    604.91

16. 102.6 Osteitis, due to yaws

17. 595.0 Cystitis, acute
   041.4 Infection, Escherichia coli

18. 112.1 Vaginitis, due to, C. albicans

19. 015.25 Osteomyelitis, tuberculous—see Tuberculosis, bone
   Tuberculosis, bone, knee 015.2 [730.86]
   Fifth digit 5 = confirmed histologically
   730.86 Other infections involving bone in diseases classified elsewhere

20. 040.82 Syndrome, toxic, shock
    Toxic, shock syndrome
    041.01 Infection, streptococcus, Group A

21. 078.12 Wart, plantar

22. 038.41 Septicemia, hemophilus influenzae
    995.92 Sepsis, severe
    785.52 Shock, septic
    584.9 Failure, renal, acute

23. 046.19 Disease, Creutzfeldt-Jakob

24. 135 Sarcoïdosis of lung [517.8]
    517.8 Lung involvement in other diseases

25. 136.21 Infection or keratitis, acanthamoeba
    370.8 Other forms of keratitis (use add’l code note)
Chapter 5 Neoplasms

Exercise 5.1
1. 141.6 Neoplasm, tonsil, lingual, malignant, primary
2. 237.5 Neoplasm, cerebrum, uncertain behavior
3. 211.5 Neoplasm, liver, benign
4. 233.1 Neoplasm, cervix, malignant, in situ
5. 239.8 Neoplasm, abdomen, unspecified
6. 197.0 Neoplasm, lung, lower lobe, malignant, secondary

Exercise 5.2
1. 193 Carcinoma, C cell, unspecified site M8510/3 Carcinoma, C cell
2. 183.0 Carcinoma, theca cell M8600/3 Carcinoma, theca cell
3. 206.02 Leukemia, monocytic, acute, in relapse M9891/3 Leukemia, monocytic, acute
4. 203.00 Myeloma (multiple) M9730/3 Myeloma (multiple)
5. 189.0 Wilms’ tumor M8960/3 Wilms' tumor
6. 186.9 Choriocarcinoma, unspecified site, male M9100/3 Choriocarcinoma
7. V58.11 Admission, for, (Encounter, for) Chemotherapy 162.3 Neoplasm, lung, upper lobe, malignant, primary M8042/3 Carcinoma, oat cell, primary site Neoplasm, bone, malignant, Secondary 198.5 M8042/6 Carcinoma, oat cell, secondary site Chemotherapy, for cancer NEC 99.25 198.3 Neoplasm, brain, malignant, Secondary M8010/6 Carcinoma, secondary site History, malignant neoplasm, breast Absence, breast(s), (acquired) Acquired—see condition V10.3 V45.71

Exercise 5.3
1. 172.4 Melanoma (malignant), scalp
2. 214.0 Lipoma, face
3. 191.3 Glioma, specified site (brain)—see Neoplasm, by site, malignant, brain, parietal Lobe
4. 185 Adenocarcinoma—see Neoplasm, by site, malignant, prostrate
5. 231.0 Carcinoma, in situ—see Neoplasm, by site, in situ, vocal cord
6. 211.7 Adenoma, islet cell, pancreas 251.1 Hypoglycemia, specified NEC
7. 150.4 Carcinoma, epidermoid—see Neoplasm, by site, malignant, esophagus, middle third
8. 227.3 Adenoma—see Neoplasm, by site, benign, pituitary
9. 611.6 Galactorrhea, not associated with childbirth
10. 216.6 Melanoma, benign—see Neoplasm, skin, benign, shoulder

Exercise 5.4
1. 208.20 Leukemia, subacute; Fifth digit of 0 = without mention of remission
2. 173.5 Carcinoma, basal cell—see Neoplasm, skin, malignant, buttock
3. 216.5 Papilloma—see also Neoplasm, by site, benign = Neoplasm, back NEC *, benign 229.8 Whenever referred to code 229, refer to:
Neoplasm, by site, skin, benign, shoulder = 216.5
4. 157.0 Adenocarcinoma—see also Neoplasm, by site, malignant, pancreas, head
5. 230.0 Carcinoma, epidermoid—see also Carcinoma, squamous cell—see Neoplasm, by site, tongue, dorsal, in situ
6. 228.01 Hemangioma, skin and subcutaneous
7. 205.01 Leukemia, myeloid, acute; Fifth digit of 1 = in remission
8. 173.7 Carcinoma, squamous cell—see Neoplasm,
by site, leg = Neoplasm, leg NEC *195.5
Whenever referred to code 195, refer to Neoplasm, by site, skin, malignant, leg

9. 201.13 Granuloma, Hodgkin's or Hodgkin's granuloma
Fifth digit 3 = intra-abdominal lymph nodes
201.17 Granuloma, Hodgkin’s or Hodgkin’s Granuloma
Fifth digit 7 = spleen

10. 174.8 Paget's disease, malignant, breast (174.0)
but code does not include central portion (174.1)
Neoplasm, malignant, breast, contiguous sites (central portion, nipple, areola) 174.8

Exercise 5.5
1. 181  Choriocarcinoma, unspecified site, female
2. 161.3 Carcinoma, see also Neoplasm, by site, larynx, cartilage, malignant, primary
196.0 Neoplasm, by site, lymph nodes, cervical, malignant, secondary
3. 188.1 Carcinoma, papillary, transitional cell
—see also Neoplasm, by site, bladder, dome, malignant, primary
4. 200.28 Burkitt's, lymphoma (fifth digit 8 = lymph, multiple sites)
200.27 Burkitt's, lymphoma (fifth digit 7 = spleen)
May also refer to Lymphoma, Burkitt's type
5. 162.5 Carcinoma—see also Neoplasm, by site, lungs, lower lobe, malignant, primary
198.3 Neoplasm, by site, brain, malignant, Secondary

Exercise 5.6
1. a. Carcinoma
b. 199.1
c. Yes
d. Unknown (199.1)
e. Bone (198.5)
2. 153.3 Neoplasm, colon—see Neoplasm, intestine, large, sigmoid, malignant, primary
197.6 Neoplasm, peritoneum, malignant, secondary
3. 197.1 Neoplasm, mediastinum, malignant, secondary
199.1 Carcinoma—see Neoplasm, by site, malignant
Neoplasm, primary, unknown site or unspecified
4. 156.1 Neoplasm, bile duct, malignant, primary
196.2 Neoplasm, local lymph (abdominal/intra-abdominal), malignant, secondary
5. 185 Neoplasm, prostate, malignant, primary
198.5 Neoplasm, bone, malignant, secondary

Review Exercise: Chapter 5
1. 209.11 Carcinoid tumor, malignant, appendix, primary
M8240/3 Carcinoid, malignant
47.09 Appendectomy
45.72 Resection, cecum
2. 214.3 Lipoma, kidney
M8850/0 Lipoma
3. 154.1 Neoplasm, rectum, malignant, primary
M8010/3 Carcinoma, primary site
197.7 Neoplasm, liver, malignant, secondary
M8010/6 Carcinoma, secondary site
4. 155.0 Carcinoma, hepatocellular
M8170/3 Carcinoma, hepatocellular
5. 233.1 Neoplasm, cervix, malignant, in situ
M8010/2 Carcinoma, in situ
6. 208.12 Leukemia, chronic
      Fifth digit 2 = in relapse
7. 201.61 Hodgkin's disease, mixed cellularity
      Fifth digit 1 = lymph nodes head, face, neck
50.11 Biopsy, lymphatic structure (node)
99.25 Chemotherapy, for cancer NEC
9. 206.21 Leukemia, monocytic, subacute
M8070/3 Carcinoma, epidermoid
27.42 Resection, lip (wedge)
28.42 Resection, lesion—see Excision, lesion, by site
99.25 Chemotherapy, for cancer NEC
<table>
<thead>
<tr>
<th>Code</th>
<th>Diagnosis</th>
<th>Page</th>
<th>Code</th>
<th>Diagnosis</th>
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<tr>
<td>V58.0</td>
<td>Admission, for, radiotherapy</td>
<td>16.</td>
<td>228.01</td>
<td>Angioma 228.00, see also</td>
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<td>32.39</td>
<td>Lobectomy, lung, partial, unspecified</td>
<td>18.</td>
<td>170.7</td>
<td>Sarcoma, Ewing's—see Neoplasm, bone, malignant, femur</td>
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<td>M9630/3</td>
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<td>99.25</td>
<td>Chemotherapy for cancer</td>
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<td>Neoplasm, breast, upper outer quadrant, malignant, primary</td>
<td>19.</td>
<td>173.7</td>
<td>Carcinoma, squamous cell—see Neoplasm, by site, malignant</td>
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<td>M8000/1</td>
<td>Tumor</td>
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<td>86.4</td>
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<td>Melanoma, primary site</td>
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<td>Admission, for, (encounter, for) chemotherapy</td>
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Chapter 6  Endocrine, Nutritional and Metabolic Diseases, and Immunity Disorders

Review Exercise: Chapter 6
1. 250.40  Diabetes, diabetic, nephrosis (syndrome) 250.4 [581.81]
Fifth digit 0 = Type II, not stated as uncontrolled

11.  581.81 Nephrosis, diabetic

2.  242.01 Goiter (diffuse), toxic
Fifth digit 1 = with mention of thyrotoxic crisis

3.  255.0 Syndrome, Cushing's syndrome

4.  276.8 Hypokalemia

5.  277.02 Fibrosis, cystic, with pulmonary manifestations

6.  250.02 Diabetes (without complication)
Fifth digit 2 = Type II, uncontrolled

263.1 Malnutrition, mild
Not stated as related to diabetes

7.  253.2 Panhypopituitarism

8.  279.06 Hypogammaglobulinemia, sporadic

9.  270.2 Tyrosinemia

10. 268.0 Rickets (infantile), acute

11. 250.83 Ulcer, due to diabetes/diabetic, lower extremity/limb, heel, 250.8 [707.14]
Fifth digit 3 = Type I, Uncontrolled

707.14 Ulcer, leg—see Ulcer lower extremity

12. 250.51 Retinopathy, diabetic, proliferative
250.5 [362.02]

362.02 Diabetic, retinopathy, proliferative 250.5
[362.02]

Fifth digit 1 = Type I, not stated as uncontrolled

13.  414.01 Arteriosclerosis, heart—see also Coronary, native artery

14.  272.0 Hypercholesterolemia

278.02 Overweight
V85.22 Body Mass Index of 26.5 in an Adult

15.  253.6 Syndrome, inappropriate secretion of antidiuretic hormone

26.  250.81 Hypoglycemia, diabetic
Fifth digit 1 = Type I, not stated as uncontrolled

16.  042 AIDS
261 Marasmus

17.  274.0 Arthritis, gouty

18.  250.81 Thyroidectomy, partial

20.  273.0 Hypergammaglobulinemia, Waldenström's

21.  996.85 Complication, bone marrow transplant
279.51 Graft-versus-Host disease, acute

22.  275.5 Syndrome, Hungry Bone

23.  259.52 Syndrome, androgen sensitivity, partial

24.  249.31 Diabetes, secondary, coma, uncontrolled status

25.  266.2 Deficiency, folic acid

Chapter 7 Diseases of the Blood and Blood-Forming Organs

Review Exercise: Chapter 7

1.  282.62 Sickle cell, disease
Disease, Sickle cell

2.  280.0 Anemia, iron deficiency, due to blood loss

3.  286.4 Von Willebrand's disease
Disease, Von Willebrand's

4.  289.51 Splenomegaly, congestive, Chronic

5.  282.3 Anemia, hemolytic, nonspherocytic, congenital
6. 287.31 Thrombocytopenia, purpura, idiopathic, thrombocytopenic
7. 288.09 Neutropenia, toxic
8. 284.09 Anemia, Fanconi's
9. 283.19 Anemia, hemolytic, microangiopathic
10. 284.89 Anemia, aplastic, due to, drugs
11. 286.6 Coagulation (disseminated), intravascular
12. 532.00 Ulcer, duodenal, acute, Hemorrhage
13. 042 AIDS
14. 289.2 Lymphadenitis (chronic), mesenteric
15. 282.49 Anemia, Cooley's
16. 289.0 Polycythemia, due to, high altitude
17. 282.2 Anemia, G-6-PD
18. 281.2 Anemia, Goat's milk
19. 286.3 Deficiency, Factor, I
20. 559.71 Hematuria, gross
21. 289.84 Thrombocytopenia, heparin-induced
22. 282.42 Thalassemia, sickle cell, with crisis
23. 284.01 Aplasia, red cell, pure
24. 285.21 585.6 Anemia, in, end-stage renal disease
25. 288.00 780.61 Fever, Neutropenic

Chapter 8  Mental Disorders

Exercise 8.1
1. 299.00 Disorder, autistic
2. 304.21 Dependence, cocaine
3. 295.52 Schizophrenia, latent
4. 331.0 Alzheimer's, dementia (senile)
5. 294.8 345.10 Psychosis, epileptic

Review Exercise: Chapter 8
1. 292.0 304.11 94.65 Withdrawal, drug
2. 295.64 Schizophrenia, undifferentiated, chronic
3. 298.0 Psychosis, depressive, reactive
4. 300.13 Dissociative, fugue
5. 300.00 780.2 Anxiety
6. 535.30 Fainting
7. 312.9 Disorder, disruptive behavior
<p>| | | | |</p>
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<thead>
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<tbody>
<tr>
<td>8.</td>
<td>290.21</td>
<td>Depression, senile</td>
<td>318.2</td>
</tr>
<tr>
<td>9.</td>
<td>300.7</td>
<td>Hypochondriac Habit, laxative</td>
<td>361.01</td>
</tr>
<tr>
<td></td>
<td>305.91</td>
<td>Fifth digit 1 = continuous</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>316</td>
<td>Colitis, mucous, psychogenic</td>
<td>343.0</td>
</tr>
<tr>
<td></td>
<td>316 [564.9]</td>
<td></td>
<td>350.1</td>
</tr>
<tr>
<td>11.</td>
<td>564.9</td>
<td>Disorder, attention deficit, with hyperactivity</td>
<td>343.2</td>
</tr>
<tr>
<td>12.</td>
<td>314.01</td>
<td>Disorder, attention deficit, with hyperactivity</td>
<td>354.0</td>
</tr>
<tr>
<td>13.</td>
<td>571.2</td>
<td>Cirrhosis, liver, with alcoholism</td>
<td>04.43</td>
</tr>
<tr>
<td>14.</td>
<td>303.93</td>
<td>Dependence, alcohol</td>
<td>345.10</td>
</tr>
<tr>
<td></td>
<td>Fifth digit 3 = in remission</td>
<td></td>
<td>Epilepsy, tonic-clonic</td>
</tr>
<tr>
<td>15.</td>
<td>320.82</td>
<td>Meningitis, Aerobacter aerogenes</td>
<td>366.17</td>
</tr>
<tr>
<td></td>
<td>324.0</td>
<td>Abscess, intracranial</td>
<td>13.41</td>
</tr>
<tr>
<td>16.</td>
<td>117.9</td>
<td>Meningitis, fungal</td>
<td>366.17</td>
</tr>
<tr>
<td></td>
<td>321.1</td>
<td>117.9 [321.1]</td>
<td>Phacoemulsification</td>
</tr>
<tr>
<td>17.</td>
<td>304.21</td>
<td>Encephalitis, postvaccinal</td>
<td>381.10</td>
</tr>
<tr>
<td>18.</td>
<td>303.00</td>
<td>Intoxication, alcohol, with alcoholism</td>
<td>20.01 x2</td>
</tr>
<tr>
<td></td>
<td>Alcoholic, intoxication, with dependence</td>
<td>Phacoemulsification</td>
<td></td>
</tr>
<tr>
<td>19.</td>
<td>331.0</td>
<td>Dementia, Alzheimer’s</td>
<td>385.32</td>
</tr>
<tr>
<td></td>
<td>294.11</td>
<td>Dementia, Alzheimer’s with behavioral disturbance</td>
<td>20.51</td>
</tr>
<tr>
<td>20.</td>
<td>300.01</td>
<td>Panic (attack)</td>
<td>303.90</td>
</tr>
<tr>
<td></td>
<td>Attack, panic</td>
<td>Ataxia, cerebellar, in, alcoholism 303.9 [334.4]</td>
<td></td>
</tr>
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</table>

### Chapter 9 Diseases of the Nervous System and Sense Organs

#### Review Exercise: Chapter 9

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1.</td>
<td>320.82</td>
<td>Meningitis, Aerobacter aerogenes</td>
<td>334.4</td>
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<tr>
<td>2.</td>
<td>324.0</td>
<td>Abscess, intracranial</td>
<td>346.00</td>
</tr>
<tr>
<td>3.</td>
<td>117.9</td>
<td>Meningitis, fungal</td>
<td>18.</td>
</tr>
<tr>
<td></td>
<td>321.1</td>
<td>117.9 [321.1]</td>
<td>Migraine, with aura</td>
</tr>
<tr>
<td>4.</td>
<td>323.51</td>
<td>Encephalitis, postvaccinal</td>
<td>346.00</td>
</tr>
<tr>
<td>5.</td>
<td>372.81</td>
<td>Conjunctivochalasis Excision, lesion, conjunctiva</td>
<td>385.32</td>
</tr>
<tr>
<td></td>
<td>10.31</td>
<td>Excision, lesion, conjunctiva</td>
<td>20.51</td>
</tr>
<tr>
<td>6.</td>
<td>330.1</td>
<td>Disease, Tay-Sachs</td>
<td>Excision</td>
</tr>
</tbody>
</table>

Tay-Sachs disease Retardation, mental, profound
Detachment, retinal, partial, with, single defect
Palsy, cerebral, diplegic
Quadriplegia, infantile (spastic)
Carpal tunnel syndrome Syndrome, carpal tunnel Release, carpal tunnel
Epilepsy, tonic-clonic Fifth digit 0 = without mention of intractable epilepsy
Conjunctivitis, acute, follicular Hydrocephalus, communicating Shunt, ventricular, to, abdominal cavity or organ
Extraction, cataract, emulsification (and aspiration)
Extraction, cataract, Phacoemulsification
Otitis, media, serous, chronic Otitis, media, chronic, serous Myringotomy, with insertion of tube or drainage device
Ataxia, cerebellar, in, alcoholism 303.9 [334.4] Fifth digit 0 = unspecified
Migraine, with aura Fifth digit 0 = no mention of intractable migraine without mention of status migrainosus
Cholesteatoma, middle ear Excision, cholesteatoma—see Excision
lesion, by site

Excision, lesion, middle ear

Diabetes mellitus, polyneuropathy 250.6 [357.2]

Fifth digit of 1 added for type I diabetes, not stated as uncontrolled

357.2 Polyneuropathy in diabetes 250.6 [357.2] 585.5

21. 339.01 Headache, episodic cluster 5. 584.9 401.9

22. 364.82 Syndrome, plateau iris 6. 402.91

23. 362.25 Retinopathy, of prematurity, stage 3

24. 346.31 Migraine, hemiplegic, with intractable migraine (fifth digit of 1)

25. 337.01 Syndrome, carotid sinus

Chapter 10 Diseases of the Circulatory System

Exercise 10.1

1. 398.91 Failure, heart, rheumatic (congestive) 7. 403.90

2. 396.1 Stenosis, mitral, with, aortic, insufficiency or incompetence

3. 397.9 Endocarditis, rheumatic (chronic)

4. 394.2 Stenosis, mitral, with, incompetency, insufficiency, or regurgitation 585.1

5. 391.9 Disease, heart, rheumatic, acute Rheumatism, Rheumatic, heart, disease —see also Disease, heart, rheumatic

Exercise 10.2

1. 402.00 Hypertension, cardiovascular disease, malignant 428.0

2. 428.0 Failure, heart, congestive 401.1 Hypertension, benign 585.2

3. 440.1 Stenosis, artery, renal 9. 405.99

405.11 Hypertension, secondary, due to, renal (artery), stenosis, benign

4. 403.01 Hypertension, with, chronic kidney disease, malignant 255.0

Hypertension, kidney, with, chronic kidney disease, malignant

Nephropathy, hypertensive 403.90 —see also Hypertension, kidney, fifth digit

1 = CKD stage V or end stage renal disease

Disease, kidney, chronic, stage V

Failure, renal, acute

Hypertension (essential)

Hypertension, heart, with heart failure, unspecified

Failure, heart, congestive, hypertensive 402.90 (see also Hypertension)

Refer to Tabular to find 402.91 to include heart failure

Failure, heart, congestive

[New use additional code note in Tabular 10/02]

Hypertension with chronic kidney disease, stage I

Disease, kidney chronic, with, hypertension

Disease, kidney chronic, stage I

Hypertension, cardiorenal with heart failure

Disease, cardiorenal (hypertensive) 404.90 – see Tabular for 404.90

Failure, heart, congestive

[New use additional code note in Tabular]

Disease, kidney, chronic, stage II

Hypertension, due to, Cushing’s unspecified

Disease, Cushing’s Cushing’s, basophilism, disease, or syndrome
10. 404.03 Hypertension, cardiorenal, with heart failure and chronic kidney disease, malignant
Accelerated is the same as malignant form.
Failure, heart, hypertensive, with renal disease, with chronic kidney disease
Refer to Tabular for malignant form of hypertension = 404.03
9. 428.1 Failure, ventricular, left Edema, pulmonary — see Edema, lung, acute, with heart disease or failure
10. 402.10 Cardiomegaly, hypertensive, benign (no mention of congestive heart failure)
Tabular 402.90 — unspecified hypertension, change to 402.10 for benign

Exercise 10.3
1. 410.21 Infarction, myocardial (acute), inferolateral wall
Fifth digit 1 = initial episode of care
38.12 x 2
00.41 Procedure on two vessels
2. 414.01 Arteriosclerosis, heart — see Arteriosclerosis, coronary, native artery
3. 413.9 Angina (pectoris)
4. 412 Infarction, myocardial, healed or old
5. 414.02 Arteriosclerosis, coronary, graft — see Arteriosclerosis bypass graft, coronary artery, autologous vein
39.29
6. 411.1 Syndrome, preinfarction

Exercise 10.4
1. 427.31 Fibrillation, atrial
7. 432.1 Infarct, infarction, brain, thrombotic
2. 416.8 Hypertension, pulmonary (artery) [unspecified]
8. 430 Aneurysm, berry (ruptured)
3. 425.5 Cardiomyopathy, alcoholic
9. 454.1 Varicose, vein (lower extremity), with, stasis dermatitis
4. 416.9 Cor, pulmonale (chronic)
5. 421.0 Endocarditis, acute Use additional code to identify infection
10. 572.3 Varices, esophageal, bleeding, in, portal hypertension 572.3 [456.20]
041.00 Infection, streptococcal
6. 426.12 Block, Atrioventricular, Mobitz type, II
11. 424.0 Insufficiency, mitral (valve)
7. 427.5 Arrest, cardiac
12. 410.71 Infarct, infarction, myocardial, transmural Fifth digit 1 = initial episode
8. 427.81 Syndrome, sick sinus
427.41 Fibrillation, ventricular
13. 428.0 Failure, heart, congestive 88.54 Ventriculogram, cardiac, left combined right or right combined left
  511.9 Effusion, pleura 5. 00.66 Angioplasty, coronary, percutaneous transluminal
  250.0 Diabetes (mellitus) 0.40 Procedure on single vessel
Fifth digit 1 = Type I, not stated as uncontrolled
5. 34.91 Thoracentesis

14. 428.0 Failure, heart, congestive Not at Angioplasty codes instructs to assign code for number of vessels treated
  401.0 Hypertension, malignant

15. 455.2 Hemorrhoids, internal, bleeding 99.10 Injection, thrombolytic agent
  49.45 Hemorrhoidectomy, by, ligation

16. 403.10 Disease, kidney, chronic, with, hypertension, benign
  585.2 Disease, kidney, chronic, stage II

17. 710.0 Endocarditis due to disseminated lupus erythematosus 710.0 [424.91]
  424.91

18. 451.11 Thrombophlebitis, leg, deep, femoral vein 37.71 Insertion, electrodes, heart, ventricle

19. 592.0 Stone, kidney; see also Calculus Arteriosclerosis, heart—see Coronary artery graft—see Bypass graft
  405.99 Hypertension, due to/secondary, calculus, kidney, unspecified Arteriosclerosis, bypass graft, coronary artery, autologous vein
  55.03 Removal, calculus, kidney 37.22 Catheterization, cardiac, left

20. 426.7 Syndrome, Wolff-Parkinson-White 88.53 Ventrulogram, cardiac, left
  Wolff-Parkinson-White syndrome 88.55 Arteriography, coronary, single catheter (Sones)

**Exercise 10.6**

1. 37.83 Insertion, pacemaker, cardiac, dual-chamber device 5. 425.3 Fibroelastosis (endocardial)
   37.72 Insertion, leads—see Insertion, electrodes, heart, atrium and ventricle 6. 441.2 Aneurysm, aorta, aortic, thoracic
   Insertion, leads—see Insertion, electrodes, heart, atrium and ventricle 39.73 Repair, aneurysm, endovascular graft, thoracic aorta
2. 36.14 Bypass, coronary—see also Bypass, aortocoronary, 4 coronary vessels 0.08 Insertion, intra-aneurysm sac pressure monitoring device (intraoperatively)
   39.61 Bypass, cardiopulmonary or Bypass, heart-lung 7. 424.0 Insufficiency, mitral (valve)
   Bypass, aortocoronary, 4 coronary vessels 35.24 Replacement, mitral valve
3. 37.94 Implant/implantation, cardioverter-defibrillator, total system 39.61 Bypass, cardiopulmonary
4. 37.23 Catheterization, cardiac, combined right and left 8. 410.51 Infarct, infarction, myocardial posterolateral
88.56 Arteriography, coronary, double catheter (Judkins)
Fifth digit 1 = initial episode of care

36.12  Bypass coronary—see also Bypass, aortocoronary, 2 coronary vessels 00.55 Insertion, stent, non-coronary vessel (with angioplasty 39.50) drug eluting Code also any number of vascular stents inserted (00.45-00.48) Code also any number of vessels treated (00.40-00.43)

36.15  Bypass, internal mammary–coronary artery (single) 00.45 Insertion of one vascular stent

Explanation of codes: Triple bypass (two saphenous veins used to graft the diagonal branch and circumflex and one mammary artery used to graft the left anterior descending for a total of 3 bypass grafts). Correct codes are 36.12 and 36.15 instead of 36.13.

15. 443.0 Raynaud's disease
Disease, Raynaud's
Raynaud's gangrene  443.0 [785.4] Gangrene

39.61  Bypass, cardiopulmonary 785.4

9. 421.0 Endocarditis, bacterial (subacute)

041.11  Infection, staphylococcal, aureus

427.1  Tachycardia, ventricular

10. 410.11 Infarct, infarction, myocardial, anterior wall Fifth digit 1 = initial episode

00.66  Angioplasty, coronary, percutaneous transluminal

00.40  Procedure on two vessels

Note at Angioplasty codes instructs to assign code for number of vessels treated

99.10  Injection, thrombolytic agent

11. 440.22 Arteriosclerosis, extremity, rest pain

39.29  Bypass, vascular, popliteal-tibial

12. 403.91 Hypertension, with chronic kidney disease, unspecified

585.6  Disease, renal, end-stage
38.95  Catheterization, vein, for renal dialysis

39.95  Dialysis, renal

13. 454.2 Varicose, veins, with inflammation, ulcerated

14. 444.81 Occlusion, iliac artery
39.50  Angioplasty, percutaneous, iliac Code also any insertion of noncoronary stent(s) or stent graft(s) Code also any number of vascular stents inserted (00.45-00.48) Code also any number of vessels treated (00.40-00.43)

Chapter 11
Diseases of the Respiratory System

Exercise 11.1

1. 507.0  Pneumonia, aspiration, due to, food

2. 482.32  Pneumonia, streptococcal, group, B

3. 482.40  Bronchopneumonia—see Pneumonia, broncho

Pneumonia, broncho, staphylococcal

4. 495.9  Pneumonitis, allergic

5. 078.5  Pneumonia, in, cytomegalic inclusion disease  078.5 [484.1] 484.1

Exercise 11.2

1. 518.81  Failure, respiratory

Failure, respiratory

2. 358.01  Myasthenia, gravis, with exacerbation

Asthma, intrinsic

5. 491.20  Bronchitis, chronic, obstructive

5. 491.20  Bronchitis, chronic, obstructive

3. 492.8  Obstruction, lung, with, emphysema

4. 492.8  Obstruction, lung, with, emphysema

6. 042  AIDS

Failure, respiratory, acute

Emphysema

AIDS
Review Exercise: Chapter 11
1. 518.5 Failure, respiratory, due to trauma, surgery, or shock
2. 474.10 Hypertrophy, adenoids, and tonsils
3. 477.0 Hay, fever, due to, pollen
4. 478.34 Paralysis, vocal cord, complete
5. 518.81 Failure, respiratory, acute
6. 496 Disease, lung, obstructive (chronic) (COPD)
7. 96.71 Ventilation, mechanical, other continuous, for less than 96 consecutive hours
8. 96.04 Intubation, trachea
9. 478.0 Hypertrophy, nasal, turbinates
10. 491.21 Bronchitis, obstructive, with acute bronchitis or acute exacerbation
   Emphysema, with, bronchitis, chronic, with acute bronchitis or acute exacerbation
11. 484.3 Pneumonia in whooping cough
12. 482.2 Pneumonia, due to, Hemophilus influenzae
13. 480.3 Pneumonia, SARS-associated coronavirus
14. 500 Black, lung disease
15. 512.1 Pneumothorax, postoperative or iatrogenic

Chapter 12 Diseases of the Digestive System

Exercise 12.1
1. 524.23 Mesio-occlusion, Angle’s class III
2. 551.00 Hernia, femoral, with, gangrene
3. 53.21 Repair, hernia, femoral, with
prosthesis or graft

3. 575.6 Cholesterolosis

4. 555.1 Enteritis, regional, intestine, large

5. 558.3 Diarrhea, allergic

6. 578.1 Melena

45.16 Esophagogastroduodenoscopy, with closed biopsy

7. 533.10 Ulcer, peptic, acute, with perforation

Fifth digit 0 = without mention of obstruction

8. 535.01 Gastritis, acute

Fifth digit 1 = with hemorrhage

285.1 Anemia, blood loss, acute

9. 540.1 Appendicitis, acute, with, perforation, with peritoneal abscess

47.09 Appendectomy

10. 574.00 Cholecystitis with calculus in gall-bladder (cholelithiasis) — see Cholelithiasis

Cholelithiasis, with, cholecystitis, acute

Fifth digit 0 = without mention of obstruction

51.23 Cholecystectomy, laparoscopic

11. 524.64 Disorder, temporomandibular joint

12. 562.11 Diverticulosis, with diverticulitis

Diverticulosis, intestine (large), with, diverticulitis

45.23 Diverticulosis, colon, with, diverticulitis

Colonscopy, fiberoptic (flexible)

13. 530.11 Reflux, esophageal

Tabular 530.81 excludes reflux esophagitis (530.11)

Reflex, esophagitis

14. 569.61 Infection, colostomy

15. 560.81 Obstruction, intestine, with, adhesions

54.59 Lysis, adhesions, intestine

**Review Exercise: Chapter 12**

1. 531.70 Ulcer, gastric — see Stomach

Ulcer, stomach, chronic

Fifth digit 0 = without mention of obstruction

Gastrectomy, proximal

43.5

2. 556.0 Enterocolitis, ulcerative

45.25 Colonoscopy, with biopsy

3. 550.91 Hernia, inguinal

Fifth digit 1 = unilateral or unspecified, recurrent

Repair (open), hernia, inguinal, Direct

53.01

4. 075 Hepatitis, due to, infectious mononucleosis 075 [573.1]

573.1

5. 532.40 Ulcer, duodenal, chronic, with, hemorrhage

Fifth digit 0 = no mention of obstruction

Esophagogastroduodenoscopy

45.13

6. 574.30 Cholecystitis with calculus in common bile duct — see Choledocholithiasis

Choledocholithiasis, with, cholecystitis, acute

Fifth digit 0 = no mention of obstruction

51.96 Removal, calculus, bile duct, percutaneous

Neoplasm, colon, sigmoid, malignant, primary

153.3

7. 153.3 Resection (open) colon, sigmoid (Sigmoidectomy)

See Note in Tabular List —

Code also any synchronous anastomosis other than end-to-end

45.76

8. 569.41 Ulcer, rectum

48.24 Colonoscopy, with biopsy, rectum
Chapter 13  Diseases of the Genitourinary System

Review Exercise: Chapter 13

1. 593.72  Reflux, vesicoureteral, with
   reflux nephropathy, bilateral

2. 580.4  Glomerulonephritis, acute,
   with, necrotizing glomerulitis

3. 039.8  Cystitis, actinomycotic 039.8 [595.4]

4. 218.2  Leiomyoma, uterine, subserous

5. 622.12  Dysplasia, cervix, moderate

6. 67.12  Biopsy (punch) of cervix

7. 627.2  Menopause, menopausal (symptoms) 627.2

8. 610.1  Fibrocystic disease of breast

9. 599.69  Obstruction, urinary

10. 60.29  Resection, transurethral, prostate

11. 552.21  Hernia, incisional, with, obstruction
   (incarcerated)

12. 53.51  Repair, hernia, incisional

13. 577.0  Pancreatitis, acute

14. 577.1  Pancreatitis, chronic

15. 571.49  Hepatitis, chronic, active

16. 55.51  Nephrectomy (total) (unilateral)

17. 592.1  Stone, ureteral

18. 59.8  Insertion, ureteral stent
   (Note—No subterm ureteral
    under Insertion, stent)
Chapter 14  Complications of Pregnancy, Childbirth, and the Puerperium

Exercise 14.1

1. 639.1  Syndrome, Defibrination = 286.6
   See also Fibrinolysis, following abortion, 639.1
   Tabular List—see excludes note under 286.6— that complicating: abortion
   Abortion, with complication(s) (any) following previous abortion
   — see category 639

2. 632  Abortion, missed

3. 635.12  Abortion, legal, with, hemorrhage
   Fifth digit 2 = complete
   Abortion, by, dilation and curettage

4. 634.91  Abortion, spontaneous
   Fifth digit 1 = incomplete
   Pregnancy, complicated by, incompetent cervix

5. 644.21  (Disease Index) Delivery, pre-mature, labor (before 37 completed weeks)
   Any spontaneous abortion that results in a liveborn infant must be coded to 644.
   Outcome of delivery, single, liveborn

Exercise 14.2

1. 671.0  Postpartum—see also condition
   Have to know alternate word—puerperal
   Puerperal, varicose veins (legs)
   Varicose veins, in pregnancy or puerperium

2. 652.2  Delivery, breech

3. 641.9  Pregnancy, complicated by, hemorrhage
   Gestation—see also pregnancy
4. 634.9 Abortion, spontaneous
5. 651.1 Pregnancy, triplet
   Triplet pregnancy

Exercise 14.3
1. 2
2. 4
3. 3
4. 1
5. 1

Exercise 14.4
1. X
2. X
3. 
4. X
5. 
6. 
7. 
8. 
9. X
10.

Exercise 14.5
1. 643.13 Hyperemesis, gravidarum, with, dehydration
   Fifth digit 3 = antepartum condition
   V27.0

2. 648.13 Pregnancy, complicated by, goiter
   Pregnancy, complicated by, thyrotoxicosis
   Fifth digit 3 = antepartum condition
   Thyrotoxicosis, complicating pregnancy, childbirth, or puerperium
   V27.0

   242.01 Goiter, toxic
   Thyrotoxicosis, with goiter
   Fifth digit 1 = with mention of thyrotoxic crisis or storm

3. 671.22 Pregnancy, complicated by, thrombophlebitis
   Fifth digit 2 = delivered with mention of postpartum complication
   V27.0

4. 676.44 Failure, lactation
   Lactation, failed
   Fifth digit 4 = postpartum condition
   V27.0

5. 642.41 Pregnancy, complicated by, preeclampsia
   Preeclampsia (mild)
   Fifth digit 1 = delivered, with or without mention of antepartum condition
   V27.0

Exercise 14.6
1. 74.1 Delivery, cesarean, low cervical
   Cesarean section, low cervical

2. 72.1 Delivery, forceps, low, with episiotomy

3. 72.54 Delivery, breech, total

4. 73.59 Delivery, manually assisted

5. 73.4 Induction, labor, medical

Review Exercise: Chapter 14
1. 632 Pregnancy, complication by, death of fetus, early pregnancy
   Death, fetus, early with retention (before 22 completed weeks’ gestation)

   2. 651.01 Pregnancy, twin
      Delivery, twins NEC
      Fifth digit 1 = delivered with or without antepartum condition
      V27.2
      Outcome of delivery, twins, both liveborn
      Delivery, assisted spontaneous
      Delivery, manually assisted

      3. 660.11 Delivery, complicated by, abnormal size, fetus, causing obstructed labor
         Pregnancy, complicated by, abnormal size, fetus
         Delivery, cesarean, abnormal size, fetus
         Fifth digit 1 = delivered with or without antepartum condition
         V27.0

      74.0 Outcome of delivery, single, liveborn
      Delivery, cesarean, classical
      Cesarean section, classical

      4. 664.01 Delivery, complicated by, laceration, perineum, first degree
         Fifth digit 1 = delivered with or without antepartum condition
         V27.0

      75.69 Outcome of delivery, single, liveborn
      Repair, laceration—see Suture, by site
      Suture, perineum, after delivery
<table>
<thead>
<tr>
<th></th>
<th>Code</th>
<th>Description</th>
<th>V27.0</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>5.</td>
<td>655.13</td>
<td>Pregnancy, management affected by, chromosomal abnormalities (Down's)</td>
<td>V27.0</td>
<td>Outcome of delivery, single, liveborn</td>
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<tr>
<td></td>
<td></td>
<td>Fifth digit 3 = antepartum condition</td>
<td>74.1</td>
<td>Cesarean section, low cervical</td>
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<tr>
<td>6.</td>
<td>646.63</td>
<td>Pregnancy, complicated by, infection, urinary (tract)</td>
<td>12.</td>
<td>671.83 Hemorrhoids—Tabular 455, excludes note: that complicating pregnancy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Infection, urinary (tract), complicating pregnancy, childbirth, or puerperium</td>
<td></td>
<td>671.8 Fifth digit 3 = antepartum condition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit 3 = antepartum condition</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>599.0</td>
<td>Infection, urinary tract</td>
<td>455.0</td>
<td>Hemorrhoids, internal</td>
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<tr>
<td></td>
<td>041.4</td>
<td>Infection, E. coli</td>
<td>13.</td>
<td>650 Delivery, completely normal case see category 650</td>
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<td>7.</td>
<td>631</td>
<td>Blighted, ovum</td>
<td>6.</td>
<td>633.10 Pregnancy, tubal (without intrauterine pregnancy)</td>
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<tr>
<td></td>
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<td>Fifth digit 1 = delivered with or without antepartum condition</td>
<td>14.</td>
<td>641.11 Pregnancy, complicated by, placenta, previa</td>
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<td></td>
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<td>V27.0 Outcome of delivery, single, liveborn</td>
<td></td>
<td>第五 digit 1 = delivered with or without antepartum condition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>66.62 Salpingectomy, unilateral, removal of tubal pregnancy</td>
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<td>第五 digit 1 = delivered with or without antepartum condition</td>
</tr>
<tr>
<td></td>
<td>641.11</td>
<td>Pregnancy, complicated by, placenta, previa</td>
<td>14.</td>
<td>648.03 Pregnancy, complicated by, current disease or condition, diabetic</td>
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<tr>
<td></td>
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<td>Fifth digit 1 = delivered with or without antepartum condition</td>
<td></td>
<td>第五 digit 3 = antepartum condition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>V27.0 Outcome of delivery, single, liveborn</td>
<td></td>
<td>第五 digit 3 = Type I, uncontrolled</td>
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<tr>
<td></td>
<td></td>
<td>654.21 Delivery, complicated, previous, cesarean delivery</td>
<td>250.03</td>
<td>Diabetes mellitus (without complication)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit 1 = delivered with or without antepartum condition</td>
<td></td>
<td>第五 digit 3 = Type I, uncontrolled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>74.1 Cesarean section, low cervical</td>
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<td>10.</td>
<td>640.03</td>
<td>Abortion, threatened</td>
<td>15.</td>
<td>671.44 Thrombophlebitis, puerperal, postpartum, childbirth, deep</td>
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<tr>
<td>11.</td>
<td>661.01</td>
<td>Failure, cervical dilation in labor</td>
<td>16.</td>
<td>V25.2 Admission, for, sterilization</td>
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<tr>
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<td></td>
<td>Delivery, cesarean, poor dilation, cervix</td>
<td></td>
<td>Sterilization, admission for contraception, sterilization</td>
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<tr>
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<td></td>
<td>Delivery, complicated by, cervical dystocia</td>
<td></td>
<td>Multiparity</td>
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<tr>
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<td></td>
<td>Delivery, complicated by, arrested active phase</td>
<td>V61.5</td>
<td>Ligation, fallopian tubal, with, Falope ring</td>
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<tr>
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<td></td>
<td>Delivery, complicated by, dystocia, cervical</td>
<td>66.39</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit 1 = delivered with or without antepartum condition</td>
<td>672.02</td>
<td>Puerperal, pyrexia</td>
</tr>
</tbody>
</table>
Add fourth digit of 0 to fill
Fifth digit 2 = delivered with
mention of postpartum complication

V27.0  Outcome of delivery, single, liveborn
73.6  Episiotomy (with subsequent episiorrhaphy)

18.  669.51  Delivery, forceps
Forceps, delivery
Fifth digit 1 = delivered with or without antepartum condition

V27.0  Outcome of delivery, single, liveborn
72.1  Delivery, forceps, low, with episiotomy
Forceps delivery—see Delivery, forceps

19.  635.12  Abortion, elective—see legal, with, hemorrhage
Fifth digit 2 = complete

285.1  Anemia, blood loss, acute
69.01  Dilation and curettage, to terminate pregnancy

Index to Procedures—Abortion, therapeutic, by dilation and curettage

20.  656.81  Pregnancy, complicated by, fetal, distress

656.21  Pregnancy, complicated by, early onset delivery (spontaneous)
Delivery, premature (before 37 completed weeks)
Fifth digit 1 = delivered with or without mention of antepartum condition

656.41  Pregnancy, complicated by, fetal death (near term)
Death, fetus/fetal, late, affecting management of pregnancy or childbirth

Death, intrauterine, complicating pregnancy

Chapter 15: Diseases of the Skin and Subcutaneous Tissue

Exercise 15.1

1.  691.0  Rash, diaper
2.  706.1  Acne (vulgaris)
3.  709.2  Cicatrix, skin, post-infectional
4.  682.7  Cellulitis, foot
5.  703.0  Infection/infected, nail, ingrowing
6.  685.0  Cyst, pilonidal, with, abscess
7.  708.0  Incision (and drainage), pilonidal cyst
8.  701.0  Urticaria, allergic
9.  695.12  Erythema, multiforme major
10.  683  Lymphadenitis, acute
11.  692.84  Infection, staphylococcus
12.  693.1  Dermatitis, animal dander
13.  695.14  Syndrome, Stevens-Johnson with toxic epidermal necrolysis overlap syndrome
14.  695.51  Exfoliation due to erythematous condition, 10 percent of body surface

Acne, rosacea
Review Exercise: Chapter 15

1. 707.03 Pressure (ulcer), sacrum
    707.23 Pressure ulcer, Stage III

2. 216.7 Nevus—see also Neoplasm, skin, benign

3. 692.0 Dermatitis, due to, detergent

4. 707.13 Ulcer, leg—see Ulcer, lower extremity (chronic), ankle

5. V10.3 History (personal) malignant neoplasm, breast

6. V45.71 Status post mastectomy = no entry

7. 610.0 Cyst, breast (benign)

8. 710.0 Lupus, erythematosus, systemic

9. 403.91 Hypertension, renal, unspecified—see also Hypertension, kidney

Chapter 16 Diseases of the Musculoskeletal System and Connective Tissue

Review Exercise: Chapter 16

1. 722.11 Displacement, intervertebral disc, thoracic

2. 714.31 Arthritis, rheumatoid, juvenile, acute

3. 714.42 Spondylosis, lumbar, with myelopathy

4. 717.7 Chondromalacia, patella

5. 610.0 Lupus, erythematosus, systemic

6. 730.07 Osteomyelitis, acute

7. 733.13 Fracture, pathologic, vertebrae

8. 733.13 Fracture, vertebrae, pathologic

9. 403.91 Hypertension, renal, unspecified—see also Hypertension, kidney

10. 711.04 Arthritis, pyogenic

11. 682.3 Cellulitis, arm

12. 86.28 Debridement, skin, nonexcisional (performed by nonphysician)
Chapter 17  
Congenital Anomalies and Certain Conditions Originating in the Perinatal Period

Exercise 17.1

1. V30.01  Newborn, single, born in hospital, with cesarean delivery

Hernia, diaphragmatic, congenital

Repair, hernia, diaphragmatic, abdominal approach

Newborn, single, born in hospital, delivered without mention of c. delivery

Polydactyly, fingers

Cleft, lip, with, cleft palate, unilateral

Repair, cleft, lip

Patent, ductus arteriosus

Repair, patent ductus arteriosus

Talipes (congenital), equinovalgus

Down's syndrome

Syndrome, Down's

Hydrocephalus, congenital

Insertion, shunt—no entry

Insertion, ventriculoperitoneal—no entry

Shunt, ventricular to abdominal cavity (peritoneal)

Hypoplasia, lung

Omphalocele

Repair, hernia, umbilical, open

Polycystic, kidney, childhood

Cyst, thyroglossal (duct)
Excision, thyroglossal duct

Review Exercise: Chapter 17

1. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
   Distress, fetal, liveborn infant, first noted, before onset of labor
2. 773.2 Erythroblastosis (fetalis)
3. 774.2 Hyperbilirubinemia, neonatal, of prematurity
   Prematurity NEC
   Premature, infant NEC
   Fifth digit 8 = birth weight 2,000 grams
4. 767.6 Erb's palsy
   Palsy, Erb's
5. 775.0 Hypoglycemia, in infant of diabetic mother
6. 777.51 Enterocolitis, fetus or newborn, necrotizing, Stage I
7. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
   Maternal condition, affecting fetus or newborn, Noxious substance transmitted via breast milk or placenta, "crack" or cocaine
   Prematurity NEC
   Premature, infant, NEC
   Fifth digit 4 = birth weight 1,247 grams
8. 765.14 Gestation, 32 completed weeks
9. 486 Pneumonia
10. 771.81 Septicemia, of newborn
11. 776.2 Coagulation, intravascular, newborn
   Neonatal = 28 days of life or first month of life
12. 741.02 Spina bifida, with hydrocephalus
   Fifth digit 2 = dorsal (thoracic) region
   Repair, myelomeningocele
   Insertion, shunt—no entry
   Insertion, ventriculoperitoneal—no entry
   Shunt, ventricular to abdominal cavity (peritoneal)
13. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
    Failure, respiratory, newborn
    Ventilation, mechanical
    Intubation, trachea
    Insertion, tube, endotracheal
14. 745.2 Tetralogy of Fallot
    39.0 Blalock-Taussig operation
    Procedure—no entry for Blalock-Taussig
    39.61 Bypass, cardiopulmonary
15. V30.01 Newborn, single, born in hospital, delivered by cesarean delivery
    Hypospadias (male)

Chapter 18 Symptoms, Signs, and Ill-Defined Conditions

Review Exercise: Chapter 18

1. 795.01 Abnormal, Papanicolaou (smear), cervix, atypical squamous cells
2. 798.0 Sudden, death, infant
   Syndrome, infant, death, sudden
3. 780.51 Apnea, sleep, with, insomnia
4. 786.05 Shortness, breath
5. 793.80 Abnormal, mammogram
6. 788.63 Urgency, urination
Chapter 19  Injury and Poisoning I

Exercise 19.1
1. with loss of consciousness of unspecified duration
2. coracoid process
3. lateral dislocation of elbow
4. hematoma without rupture of capsule
5. back (any part)

Exercise 19.2
1. 823.22 Fracture, tibia, shaft, with fibula
2. 812.20 Fracture, humerus
3. 821.10 Fracture, femur, open
4. 813.53 Fracture, ulna, lower end, open
5. 733.16 Fracture, pathologic, fibula
   Fracture, fibula, pathologic
   756.51 Osteogenesis imperfecta

Exercise 19.3
1. 800.72 Fracture, frontal (bone)—see Fracture, skull, vault
   Fracture, skull, vault, open, with subarachnoid hemorrhage
   Fifth digit 2 = with brief (less than one hour) loss of consciousness
2. 812.41 Fracture, humerus, supracondylar
   813.01 Fracture, olecranon
3. 822.1 Fracture, patella, open
4. 827.0 Fracture, multiple, leg
5. 823.30 Fracture, tibia, shaft, open

Exercise 19.4
1. 832.01 Dislocation, elbow, anterior
2. 839.01 Dislocation, vertebra, cervical, first
Exercise 19.5

1. 852.36 Hemorrhage, subdural, traumatic—see Hemorrhage, brain, traumatic, subdural with open intracranial wound Fifth digit 6 = with loss of consciousness of unspecified duration

2. 851.82 Contusion, cerebral – see Contusion, brain Fifth digit 2 = with brief (less than one hour) loss of consciousness

3. 864.03 Laceration, liver, moderate

4. 860.3 Hemothorax, traumatic, with, open wound into thorax

5. 850.5 Concussion, with, loss of consciousness

Exercise 19.6

1. 871.3 Avulsion, eye

2. 897.1 Amputation, traumatic, leg, below knee, complicated See note that defines "complicated" as delayed healing

3. 877.0 Wound, open, buttock

4. 881.22 Wound, open, wrist, with tendon involvement

5. 872.00 Laceration, external ear—no entry Laceration—see also Wound, open, by site Wound, open, ear, external

Exercise 19.7

1. 942.22 Burn, chest wall, second degree

2. 943.41 Burn, forearm, third degree, deep

3. 942.34 Burn, back, third degree

4. 948.22 Burn, extent, 20–29 percent Fifth digit 2 = 20–29 percent

5. 948.31 Burn, extent, 30 percent Fifth digit 1 = 10–19 percent

6. 944.25 Burn, palm, second degree

7. 943.23 Burn, arm, upper, second degree

8. 944.20 Burn, hand, second degree

9. 945.26 Burn, thigh, second degree

10. 945.29 Burn, legs, multiple, second degree

Exercise 19.8

1. 891.2 Wound, open, leg, lower, with tendon involvement

2. 913.5 Bite, insect, nonvenomous—see Injury, superficial, by site Injury, superficial, elbow

3. 904.51 Injury, artery—see also injury, blood vessel, by site Injury, blood vessel, tibial, artery, anterior

4. 913.5 Bite, insect, nonvenomous—see Injury, superficial, by site Injury, superficial, elbow

5. 913.5 Bite, insect, nonvenomous, infected

Fourth digit 5 = insect bite, nonvenomous, infected
3. 924.10 Contusion, leg, lower (with knee) E933.0 Table of Drugs & Chemicals, Periactin, External Cause, Therapeutic Use
4. 952.00 Injury, spinal cord, cervical (C1–C4) 5. 342.90 Hemiplegia
5. 927.20 Crush, crushed, crushing injury, hand, except fingers alone (and wrist) 909.5 Late, effect(s), adverse effect of drug, medicinal or biological substance
Crush, crushed, crushing injury, wrist, with hand(s) except fingers alone

**Exercise 19.9**
1. 934.1 Foreign body, entering through orifice, bronchus E932.2 Table of Drugs & Chemicals, Enovid, External Cause, Therapeutic Use
2. 98.15 Removal, foreign body, bronchus
3. 930.9 Foreign body, entering through orifice, eye
4. 936 Foreign body, entering through orifice, colon
5. 932 Foreign body, entering through orifice, nose
6. 931 Foreign body, entering through orifice, ear

**Chapter 20  Injury and Poisoning II**

**Exercise 20.1**
1. 781.3 Ataxia E936.1 Table of Drugs & Chemicals, Dilantin, External Cause, Therapeutic Use
2. 780.4 Vertigo 4. 693.0 Rash E947.9 Table of Drugs & Chemicals, Drug, External Cause, Therapeutic Use
3. 564.09 Constipation E858.0 Table of Drugs & Chemicals, contraceptives (oral), poisoning
4. 962.2 E930.3 Table of Drugs & Chemicals, Erythromycin, External Cause, Therapeutic Use
5. 969.4 Table of Drugs & Chemicals, contraceptives (oral), External Cause, Accidental

**Exercise 20.2**
1. 995.27 Allergy, drug E929.2 E-Code Index
2. 909.5 Late, effect(s), adverse effect of drug, medicinal or biological substance
3. 796.0 Toxicity, Dilantin, asymptomatic; query the physician to obtain the correct E code

**Exercise 20.3**
1. 962.2 Table of Drugs & Chemicals, contraceptives (oral), poisoning
2. 530.3 Stricture, esophagus
3. 909.1 Late, effect(s), toxic effect, nonmedical substance
4. 201.90 Hodgkin's disease E929.2 Late effect of, poisoning, accidental
5. 980.0 Table of Drugs & Chemicals, Alcohol, absolute, beverage, poisoning
6. 980.0 Table of Drugs & Chemicals, Alcohol, absolute, beverage, poisoning
780.97  Listlessness  2.  998.32  Dehiscence, operative wound
E980.3  Table of Drugs & Chemicals, Valium,  3.  965.02  Table of Drugs & Chemicals, Methadone, poisoning
External Cause, Undetermined  E980.9  Table of Drugs & Chemicals, Alcohol,  E950.0  Table of Drugs & Chemicals, Methadone, External Cause, suicide attempt
External Cause, undetermined  4.  984.0  Table of Drugs & Chemicals, Lead paint, poisoning  4.  958.0  Embolism, air
E861.5  Table of Drugs & Chemicals, Lead  5.  823.90  Fracture, tibia, open (compound)
paint, External Cause, accidental  79.36  Reduction, fracture, tibia, open, with internal fixation
5.  986  Table of Drugs & Chemicals, Carbon monoxide, poisoning  6.  920  Contusion, cheek
E952.0  Table of Drugs & Chemicals, Carbon  923.10  Contusion, forearm
monoxide, External Cause, suicide attempt  7.  813.41  Fracture, Colles'
E849.0  Place of occurrence: Home (garage)  79.02  Reduction, fracture, radius

Exercise 20.4
1.  996.63  Complication, infection, ventricle shunt  8.  881.20  Wound, open, forearm, with tendon involvement
2.  996.54  Displacement/displaced, internal  9.  974.3  Table of Drugs & Chemicals, Diuril, poisoning
prosthesis—see Complications, mechanical  980.0  Table of Drugs & Chemicals, alcohol, absolute, beverage
Complications, mechanical, prosthesis, breast  780.2  Syncope
Complications, mechanical, implant, prosthetic, in, breast  E858.5  Table of Drugs & Chemicals, Diuril, External Cause, accident
Complications, due to (presence of) any device, implant, or graft classified to 996.0–996.5  E860.0  Table of Drugs & Chemicals, Alcohol, absolute, beverage, External Cause, accident
Tabular List—review all codes in subcategory
3.  996.02  Leakage, device—see Complications, mechanical, heart valve prosthesis  10.  787.03  Vomiting
198.5  Neoplasm, bone, malignant, secondary
4.  997.2  Thrombophlebitis, postoperative  199.1  Neoplasm, unknown site or unspecified, malignant, primary
451.0  Thrombophlebitis, leg, superficial (vessels)  E933.1  Table of Drugs & Chemicals, Cytoxan,
5.  383.30  Complication, postmastoidectomy  External Cause, Therapeutic Use
  E930.4  Table of Drugs & Chemicals, Tetracycline, therapeutic use
Review Exercise: Chapters 19 and 20
1.  708.0  Urticaria  11.  996.42  Dislocation, prosthesis, internal—see Complications, mechanical
E930.4  Table of Drugs & Chemicals, Complication, mechanical, orthopedic dislocation
Tetracycline, therapeutic use
32

V43.64  Replacement, joint, hip
        Status, organ replacement, joint, hip

79.75  Reduction, dislocation, hip (closed)

12.  998.59  Infection, postoperative wound

682.6  Cellulitis, leg
        (Use additional code, if desired, to identify any infectious organism.)

041.11  Infection, staphylococcus aureus

13.  574.10  Cholelithiasis, with, cholecystitis, chronic
        Fifth digit 0 = without mention of obstruction

997.39  Atelectasis—no subterm for postoperative
        Have to know to code this as a complication of surgical procedure
        Complication, surgical procedure, no atelectasis
        Complication, surgical procedure, respiratory

518.0  Atelectasis

51.22  Cholecystectomy

87.53  Cholangiogram, Intraoperative

14.  850.0  Concussion, without loss of consciousness

913.0  Abrasion—see Injury, superficial, by site
        Injury, superficial, elbow
        Fourth digit = type of injury = 0 = abrasion without mention of infection

917.0  Injury, superficial, foot
        Fourth digit = type of injury = 0 = abrasion without mention of infection

15.  965.4  Table of Drugs & Chemicals, Tylenol—no entry
        Table of Drugs & Chemicals, Acetaminophen, poisoning

960.0  Table of Drugs & Chemicals, Ampicillin, poisoning

311  Depression

E950.0  Table of Drugs & Chemicals, Acetaminophen, External Cause, suicide attempt

Table of Drugs & Chemicals, Ampicillin, External Cause, suicide attempt

Pneumonia, ventilator associated

Disruption, wound, external

Thrombophlebitis, following infusion

Reaction, transfusion—see Complications, transfusion

Infection, due to, central venous catheter

Chapter 21 Supplementary Classifications—E Codes (External Causes of Injury and Poisoning)

Exercise 21.1
1.  E883.9  Fall, into, hole
2.  E884.1  Fall, from, cliff
3.  E923.0  Fireworks
4.  E924.0  Burn, hot, liquid
5.  E886.0  Tackle in sport

Exercise 21.2
1.  (k)  Off-road motor vehicle
2.  (r)  Pedestrian
3.  (u)  Aircraft
4.  (i)  Motor vehicle
5.  (q)  Pedestrian conveyance

Exercise 21.3
1.  E911  Choking on, food any type
2.  E849.4  Accident, occurring, school, riding
3.  E917.0  Striking against, object, in sports
4.  (h)  Hit/hitting, object, projected or thrown—see Striking against
E849.4  Accident, occurring, baseball field

3. E885.9  Slipping, on, surface, slippery
   E849.6  Accident, occurring, store
4. E916    Fall/Falling, timber
   E849.8  Accident, occurring, forest
5. E910.2  Cramp, swimmer's
   E849.0  Accident, occurring, swimming pool, private home or garden

**Exercise 21.4**

1. E804.1  Fall, while alighting from boarding/entering/leaving, railway train
   Fall, from/off, railway rolling stock/train/vehicle (while alighting, boarding)
   Fourth digit 1 = passenger

2. E827.0  Knocked down, transport vehicle—see vehicle involved under Hit by
   Hit/Hitting, vehicle—see Accident, vehicle
   Accident, animal-drawn vehicle
   Fourth digit 0 = pedestrian

3. E834.3  Fall, from, gangplank, to dock
   Fourth digit 3 = occupant of other watercraft other than crew

4. E828.2  Thrown, from, animal (being ridden)
   Fourth digit 2 = rider of animal

5. E838.4  Hit/Hitting by, boat, while swimming, waterskiing
   Fourth digit 4 = water-skier

**Exercise 21.5**

1. 730.25  Osteomyelitis
   Fifth digit 5 = pelvic region and thigh
   905.4  Late, effects, fracture, extremity, lower

**Exercise 22.1**

1. Residual—Tendon contracture
   Cause—Poliomyelitis
2. Residual—Mental retardation
   Cause—Viral encephalitis
3. Residual—Seizure disorder
   Cause—Intracranial abscess
4. Residual—Aphasia
   Cause—Cerebrovascular accident
5. Residual—Paralysis
   Cause—Radial nerve injury

**Exercise 22.2**

1. 345.90  Seizures, recurrent
<table>
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<tr>
<th>Code</th>
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<tr>
<td>326</td>
<td>Late, effect, encephalitis</td>
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<tr>
<td>733.81</td>
<td>Malunion, fracture</td>
</tr>
<tr>
<td>905.2</td>
<td>Late, effect, fracture, extremity, upper</td>
</tr>
<tr>
<td>906.1</td>
<td>Late, effect, wound, open, extremity</td>
</tr>
<tr>
<td>344.1</td>
<td>Paraplegia</td>
</tr>
<tr>
<td>907.2</td>
<td>Late, effect, injury, spinal, cord</td>
</tr>
<tr>
<td>701.4</td>
<td>Keloid</td>
</tr>
<tr>
<td>906.4</td>
<td>Late, effect, crushing (injury)</td>
</tr>
<tr>
<td>438.22</td>
<td>Late effect, cerebrovascular disease, with hemiplegia, affecting, nondominant side</td>
</tr>
<tr>
<td>716.17</td>
<td>Arthritis, traumatic</td>
</tr>
<tr>
<td>905.4</td>
<td>Fifth digit 7 = ankle</td>
</tr>
<tr>
<td>709.2</td>
<td>Scar</td>
</tr>
<tr>
<td>906.7</td>
<td>Late, effect, burn, extremity</td>
</tr>
<tr>
<td>718.43</td>
<td>Contraction/Contracture, joint, wrist</td>
</tr>
<tr>
<td>138</td>
<td>Late, effect, poliomyelitis</td>
</tr>
<tr>
<td>244.1</td>
<td>Hypothyroidism due to irradiation (therapy)</td>
</tr>
<tr>
<td>909.2</td>
<td>Late, effects, radiation</td>
</tr>
<tr>
<td>438.82</td>
<td>Late, effect, cerebrovascular disease, with dysphagia</td>
</tr>
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<td>736.05</td>
<td>Drop, wrist</td>
</tr>
<tr>
<td>907.4</td>
<td>Late, effect, injury, nerve, upper limb</td>
</tr>
<tr>
<td>389.21</td>
<td>Loss, hearing, mixed conductive and sensorineural, unilateral</td>
</tr>
<tr>
<td>905.0</td>
<td>Late, effect, fracture, skull and face</td>
</tr>
<tr>
<td>621.8</td>
<td>Deformity, uterus, acquired</td>
</tr>
<tr>
<td>677</td>
<td>Late, effect, complication, delivery</td>
</tr>
<tr>
<td>438.7</td>
<td>Late, effect, cerebrovascular disease, with disturbance of vision</td>
</tr>
<tr>
<td>368.2</td>
<td>Double, vision or Diplopia (See use additional code note at 438.7)</td>
</tr>
<tr>
<td>368.2</td>
<td>Double, vision or Diplopia (See use additional code note at 438.7)</td>
</tr>
</tbody>
</table>

### Chapter 23: Supplementary Classifications—V Codes (Factors Influencing Health Status)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>701.4</td>
<td>Keloid</td>
</tr>
<tr>
<td>906.4</td>
<td>Late, effect, crushing (injury)</td>
</tr>
<tr>
<td>709.2</td>
<td>Scar</td>
</tr>
<tr>
<td>906.7</td>
<td>Late, effect, burn, extremity</td>
</tr>
<tr>
<td>718.43</td>
<td>Contraction/Contracture, joint, wrist</td>
</tr>
<tr>
<td>138</td>
<td>Late, effect, poliomyelitis</td>
</tr>
<tr>
<td>244.1</td>
<td>Hypothyroidism due to irradiation (therapy)</td>
</tr>
<tr>
<td>909.2</td>
<td>Late, effects, radiation</td>
</tr>
<tr>
<td>438.82</td>
<td>Late, effect, cerebrovascular disease, with dysphagia</td>
</tr>
<tr>
<td>736.05</td>
<td>Drop, wrist</td>
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<tr>
<td>907.4</td>
<td>Late, effect, injury, nerve, upper limb</td>
</tr>
<tr>
<td>389.21</td>
<td>Loss, hearing, mixed conductive and sensorineural, unilateral</td>
</tr>
<tr>
<td>905.0</td>
<td>Late, effect, fracture, skull and face</td>
</tr>
<tr>
<td>621.8</td>
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</tr>
<tr>
<td>368.2</td>
<td>Double, vision or Diplopia (See use additional code note at 438.7)</td>
</tr>
</tbody>
</table>

### Exercise 23.1

1. Exposure, to, tuberculosis
2. Admission, for, sterilization
3. History, family, malignant neoplasm, colon
4. Newborn, twin, mate stillborn, born in hospital Fifth digit 1 = delivered by cesarean section
5. Screening, antenatal, based on amniocentesis, chromosomal anomalies

### Exercise 23.2

1. Transplant, kidney
2. Encounter for, no entry regarding case—see also Admission for cast removal—see No entry
3. Admission, as organ donor—ee Donor Donor, bone, marrow
4. Admission, for, (encounter, for) chemotherapy Chemotherapy, encounter (for)

### V Codes—Supplementary Classifications

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201.90</td>
<td>Lymphoma, Hodgkin's</td>
</tr>
<tr>
<td>99.25</td>
<td>Chemotherapy</td>
</tr>
</tbody>
</table>

Fifth digit 0 = unspecified site
5. V53.31 Reprogramming, cardiac pacemaker  
Admission, for, reprogramming of cardiac pacemaker
Deficit, neurologic, due to, cerebrovascular lesion, late effect—see Late effects of cerebrovascular disease

6. V50.2 Admission, for, circumcision  
Circumcision, routine
Therapy, occupational

64.0 Circumcision
Occupational therapy

7. V55.0 Replacement, no entry for tracheostomy tube—see also Fitting of 
Tracheostomy, attention to (Alpha Index to Diseases)
Fitting of, no entry for tracheostomy tube
Have to know to use index entry "Attention to"
"Attention to, tracheostomy"

97.23 Replacement, tube, tracheostomy

8. V56.0 Encounter for dialysis, no entry—see also Admission for 
Admission, for, dialysis
Dialysis, renal

585.6 Disease, renal, end-stage

39.95 Hemodialysis

9. V57.21 Encounter for occupational therapy, no entry—see also Admission for 
Admission, for, occupational therapy
Admission for, rehabilitation, occupational
Admission, for, therapy, occupational
Therapy, occupational
Occupational, therapy

438.0 Accident, cerebrovascular, old—see Late effects
Late effect, cerebrovascular, with, cognitive deficits
Review Exercise: Chapter 23

1. V72.31 Papanicolaou smear, cervix, as part of gynecological examination
Examination, cervical
Papanicolaou smear, as part of gynecological examination

2. V71.3 Observation, accident, at work

3. V71.1 Observation, malignant neoplasm, suspected

4. 789.00 Pain, abdominal
Fifth digit 0 = unspecified site

5. V67.09 Follow-up, specified, surgery (colon resection)

6. V10.05 History, malignant neoplasm, personal, colon

45.23 Colonoscopy

191.9 Neoplasm, brain, malignant, primary
Glioblastoma, giant cell, specified site – see Neoplasm, by site, malignant

V66.7 Palliative care
Care, palliative

7. V70.0 Examination, medical, general, routine

8. V72.0 Examination, eye

9. V79.3 Screening, developmental, in early childhood (infant)

10. 780.79 Fatigue
(No code V72.6 for laboratory test if reason for test is known)

11. V82.81 Screening (for), osteoporosis

12. V57.1 Encounter for physical therapy, no entry — see also Admission for
Admission, for, physical therapy
Admission, for, rehabilitation, physical
Admission, for, therapy, physical
Therapy, physical
Physical therapy NEC

V49.75 Status (post), amputation—no entry
Amputation status—see Absence, by site, acquired
Absence, leg, below knee

93.39 Therapy, physical
Physical therapy

13. V43.3 Status (post), organ replacement, heart, valve

14. V59.4 Admission, as organ donor—see Donor
Donor, kidney

55.51 Nephrectomy

15. V58.11 Encounter for, chemotherapy
Admission, chemotherapy
Chemotherapy, encounter for

174.2 Neoplasm, breast, upper
inner quadrant, malignant, primary

Coding Self-Test

1. 635.92 Abortion, elective—see Abortion, legal
abortion, legal

Fifth digit 2 = complete

2. 647.53 Pregnancy, complicated by, rubella
Pregnancy, complicated by, current disease or condition, rubella

Fifth digit 3 = antepartum, not delivered, used with abortion codes

3. 69.51 Curettage, uterus, aspiration, to terminate pregnancy
Aspiration, curettage, to terminate pregnancy

4. 153.2 Neoplasm, colon—see Neoplasm, intestine, large
Neoplasm, intestine, large, colon, descending, malignant, primary

5. 196.2 Neoplasm, lymph nodes, mesenteric, malignant, secondary

6. 46.13 Colostomy, permanent
Adenocarcinoma, NOS

7. 295.35 Schizophrenia, paranoid

5th digit 5 = in remission

8. 331.4 Hydrocephalus (obstructive)

Shunt, ventriculoatrial
Shunt, ventricular, to, circulatory system

9. 99.25 Chemotherapy
<table>
<thead>
<tr>
<th></th>
<th>Code</th>
<th>Diagnosis</th>
<th></th>
<th>Code</th>
<th>Diagnosis</th>
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<tr>
<td>6</td>
<td>332.1</td>
<td>Parkinsonism, secondary</td>
<td>17</td>
<td>331.81</td>
<td>Syndrome, Reye's</td>
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<td>E939.2</td>
<td>Table of Drugs &amp; Chemicals, haloperidol, external cause, therapeutic use</td>
<td>18</td>
<td>942.42</td>
<td>Burn, chest, third-degree, deep</td>
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<td>945.40</td>
<td>Burn, leg, third-degree, deep</td>
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<td>7</td>
<td>250.73</td>
<td>Diabetes, gangrene 250.7</td>
<td>19</td>
<td>310.9</td>
<td>Syndrome, brain (chronic)</td>
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<td></td>
<td></td>
<td>Fifth digit 3 = Type I, uncontrolled</td>
<td></td>
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<td>20</td>
<td>800.29</td>
<td>Fracture, frontal (bone) — see</td>
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<td></td>
<td></td>
<td>Fracture, skull, vault</td>
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<td>785.4</td>
<td>Gangrene, diabetic 250.7</td>
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<td></td>
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<td>Fifth digit 1 = delivered by cesarean delivery</td>
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<td>775.0</td>
<td>Hypoglycemia, in infant of diabetic mother</td>
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<td>8</td>
<td>V32.01</td>
<td>Newborn, twin, mate stillborn, born in hospital</td>
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<td>Fifth digit 1 = delivered by cesarean delivery</td>
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<td>720.81</td>
<td>Spondylitis, tuberculous</td>
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<td>9</td>
<td>V14.2</td>
<td>History, allergy to, sulfa</td>
<td>21</td>
<td>011.04</td>
<td>Tuberculosis, lung — see</td>
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<td>10</td>
<td>V56.0</td>
<td>Admission, dialysis, renal</td>
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<td>Tuberculosis, pulmonary</td>
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<td></td>
<td>Dialysis, renal</td>
<td></td>
<td></td>
<td>Tuberculosis, pulmonary, infiltrative</td>
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<td>585.6</td>
<td>Disease, kidney, chronic, stage V, on dialysis</td>
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<td>39.95</td>
<td>Hemodialysis</td>
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<td>11</td>
<td>493.20</td>
<td>Asthma, with, chronic obstructive pulmonary disease (COPD)</td>
<td>22</td>
<td>620.2</td>
<td>Cyst, ovary/ovarian, retention</td>
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<tr>
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<td>Disease, lung, obstructive (chronic) (COPD), with, asthma (chronic) (obstructive)</td>
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<td>Oophorectomy, partial, laparoscopic</td>
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<td>Fifth digit 4 = confirmed by bacterial culture</td>
<td></td>
<td></td>
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<tr>
<td>12</td>
<td>411.1</td>
<td>Angina, unstable</td>
<td>23</td>
<td>088.81</td>
<td>Lyme disease</td>
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<tr>
<td>13</td>
<td>780.4</td>
<td>Dizziness</td>
<td></td>
<td></td>
<td>Disease, Lyme</td>
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<tr>
<td>14</td>
<td>404.90</td>
<td>Hypertension/hypertensive, with heart, with kidney — see</td>
<td>24</td>
<td>790.92</td>
<td>Findings, abnormal, prothrombin time</td>
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<tr>
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<td>Hypertension, cardiorenal</td>
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<td>Hypertension, cardiorenal, with, kidney disease, stage III</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disease, kidney, chronic, stage III</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>15</td>
<td>280.0</td>
<td>Anemia, iron deficiency, due to blood loss (chronic)</td>
<td></td>
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<tr>
<td>16</td>
<td>577.2</td>
<td>Pancreatitis, cystic</td>
<td></td>
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</tr>
</tbody>
</table>
Abnormal, test results without manifest disease—see Findings, abnormal

Abnormal, laboratory findings—see Findings, abnormal

M8500/3

25. 746.7
Hypoplasia, heart, left (syndrome)
Syndrome, hypoplastic left heart

198.5
Neoplasm, bone, malignant, secondary

26. 969.0
Table of Drugs & Chemicals, amitriptyline, poisoning

M8010/6
Carcinoma, metastastic

785.0
Tachycardia

32. 250.83
Diabetes/diabetic, hypoglycemic shock

E950.3
Table of Drugs & Chemicals, amitriptyline, external cause, suicide attempt

Hypoglycemic shock, diabetic

27. 812.00
Fracture, shoulder—see Fracture, humerus, upper end
Fracture, humerus, upper end

531.00
Ulcer, stomach, acute, with hemorrhage

33. 289.4
Hypersplenism (known underlying cause of thrombocytopenia)

E881.0
Index to External Causes

Fall, from/off, ladder

287.4
Thrombocytopenia, secondary

E849.0
Accident, occurring, home (private) (residential)

41.5
Splenectomy

79.01
Reduction, fracture, humerus (closed)

482.41
Pneumonia, due to, staphylococcus aureus

28. 702.11
Seborrhea/seborrheic, keratosis, inflamed
Keratosis, seborrheic, inflamed

3.22
Bronchoscopy, fiberoptic

531.00
Ulcer, stomach, acute, with hemorrhage

35. 324.8
Fifth digit 3 = Type I, uncontrolled

86.3
Cryotherapy, skin

531.00
Ulcer, peptic = 533; see excludes note— peptic ulcer: gastric 531

326
Late, effects, meningitis, bacterial—see category 326

45.16
Esophagogastrroduodenoscopy, with closed biopsy

Meningitis, late effect—see Late, effect, meningitis

36. 582.4
Glomerulonephritis, chronic, rapidly progressive

30. 099.53
Vaginitis, chlamydial
See “use additional code” note under code 099.53 to specify site of infection, such as vagina and vulva (616.11)

Glomerulonephritis, rapidly progressive, chronic

616.11
No entry under vaginitis to indicate vaginitis in diseases classified elsewhere

55.23
Biopsy, kidney, Percutaneous

37. 414.02
Disease, coronary (see also Ischemia, heart) 414.9
Refer to Tabular List and review other subcategories under 414

Arteriosclerosis, coronary, graft — **see** Arteriosclerosis, bypass graft

Arteriosclerosis, bypass graft, coronary, autologous vein

36.16 Bypass, internal mammary-coronary artery, double vessel

36.11 Bypass, aortocoronary, one coronary vessel

39.61 Bypass, heart-lung Extracorporeal, circulation

38. V67.09 Examination, follow-up, specified surgery (partial cystectomy)

Follow-up, specified, surgery

V10.51 History, malignant neoplasm, bladder

57.33 Cystoscopy, with biopsy

39. 715.36 Disease, joint, knee 719.96 Disease, degenerative— **see also** Degeneration

Degeneration, joint disease 715.9— **see also** Osteoarthrosis

Osteoarthrosis (degenerative), localized

Fifth digit 6 = lower leg, includes knee by definition

36.16 Bypass, internal mammary-coronary artery, double vessel

36.11 Bypass, aortocoronary, one coronary vessel

39.61 Bypass, heart-lung Extracorporeal, circulation

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Degeneration, joint disease 715.9— **see also** Osteoarthrosis

Osteoarthrosis (degenerative), localized

Fifth digit 6 = lower leg, includes knee by definition

81.54 Replacement, knee

40. 200.20 Lymphoma (malignant), undifferentiated, Burkitt's type

Lymphoma (malignant), Burkitt's type (undifferentiated)

M9750/3 Lymphoma (malignant), Burkitt's type (undifferentiated)

41.31 Aspiration, bone marrow

41. 598.2 Stricture, urethra, Postcatheterization

788.30 Incontinence, urine

58.5 Release, urethral stricture

42. 705.83 Hidradenitis (suppurative)

86.4 Excision, skin, radical (wide)

86.69 Graft, skin (partial thickness)

4.965.01 Table of Drugs & Chemicals, heroin, poisoning

780.01 Coma

304.70 Dependence, drug, combination, morphine or opioid-type drug with any other drug

E850.0 Table of Drugs & Chemicals, heroin, external cause, accidental

795.5 Positive, skin test, tuberculin

Findings, abnormal, skin test, positive, tuberculin

862.9 Gunshot wound, internal organs— **see** Injury, internal, by site, with open wound

815.96 Injury, internal, intrathoracic, with open wound

E849.5 Accident, occurring, street

34.02 Thoracotomy, exploratory

V58.11 Admission, chemotherapy

46. 183.0 Neoplasm, ovary, malignant, primary

M8010/3 Carcinoma, primary

196.6 Neoplasm, lymph, gland, intrapelvic, malignant, secondary
M8010/6 Carcinoma, metastatic
99.25 Chemotherapy
47. 750.5 Hypertrophy/hypertrophic, pylorus, congenital/infantile
Stenosis, pylorus (hypertrophic), congenital/infantile
43.3 Pyloromyotomy
48. 717.43 Derangement, meniscus, lateral, posterior horn
Derangement, joint, knee 717.9
Refer to Tabular List and review other subcategories under 717
Derangement, knee 717.9—review other subcategories under 717
Please note if more information was supplied as to the type of past sports injury, such as a sprain or tendon injury, a late effect code might be added.
80.26 Arthroscopy, knee
49. 716.13 Arthritis, traumatic
Fifth digit 3 = forearm, includes wrist by definition
905.2 Late, effect, fracture, extremity, upper
E929.3 Index to External Causes
Late effect of, fall
304.31 Dependence, marihuana
50. 644.21 Delivery, premature, labor
Fifth digit 1 = delivered, with or without mention of antepartum condition
Outcome of delivery, single, liveborn
Pregnancy, complicated by, fever—no entry
Delivery, complicated by fever during labor—this case described as postpartum
Fever, puerperal/postpartum
Puerperal, fever, meaning pyrexia (of unknown origin)
Pyrexia, puerperal
Fourth digit 0 = fill in digit
Fifth digit 2 = delivered, with mention of postpartum complication
Pregnancy, complicated, drug dependence
Pregnancy, complicated, current disease or condition, drug dependence
Fifth digit 1 = delivered, with or without mention of antepartum condition
Refer to Tabular under category 648—use additional code to identify condition
Dependence, marihuana
Fifth digit 1 = continuous