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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, supplicative
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
           Hemorrhoids (rectum), bleeding, external
4. 627.4   Syndrome, menopause, postartificial
           Menopause (syndrome), postsurgical
5. 597.80  Urethritis (acute)
Exercise 1.6
1. 300.81 Briquet’s disorder
   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’s

Exercise 1.7
1. 615.0 Endomyometritis, see also
   Endometritis
   Endometritis, acute
2. 621.8 Metrorrhaxis—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

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
2. 599.0, 041.4 Infection, urinary (tract)
   Tabular List—Use additional code to identify organism
   Infection, Escherichia coli
3. 532.01 Ulcer, duodenal/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, duodenum
3. 017.30 Iritis, tuberculous (see also Tuberculosis) 017.3 [364.11]
   364.11 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
    413.9 Angina (pectoris)
11. 710.0, 581.81 Syndrome, nephrotic—see also Nephrosis
    Nephrosis, in systemic lupus erythematosus 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
    Fifth digit 1 = cerebral infarction
401.9 Hypertension (essential) unspecified

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, bunionectomy
   Operation, Mayo, bunionectomy
5. 22.39 Caldwell-Luc operation
   Operation, Caldwell-Luc
   Sinusotomy, maxillary, external approach (Caldwell-Luc)
Exercise 2.4

1. 32.4 Lobectomy, lung (complete)
   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

6. 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

15. 22.62 Sinusectomy, maxillary

16. 60.11 Biopsy, prostate, percutaneous
    (needle)
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 SIRS, due to, infectious process

4. 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]

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

20. 040.82 Syndrome, toxic, shock
   Toxic, shock syndrome

   041.01 Infection, streptococcus, Group A

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. 206.00 Leukemia, monocytic, acute  
   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. V58.1 Admission, for, chemotherapy  
   162.3 Neoplasm, lung, upper lobe, malignant, primary  
   M8042/3 Carcinoma, oat cell, primary site  
   198.5 Neoplasm, bone, malignant, secondary  
   M8042/6 Carcinoma, oat cell, secondary site  
   99.25 Chemotherapy, for cancer NEC  
8. 198.3 Neoplasm, brain, malignant, secondary  
   M8010/6 Carcinoma, secondary site  
   V10.3 History, malignant neoplasm, breast  
   V45.71 Absence, breast(s), (acquired)  
   Acquired—see condition

## 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, prostate  
5. 231.0 Carcinoma, in situ—see Neoplasm, by site, in situ, vocal cord  
6. 211.7 Adenoma, islet cell, pancreas  
7. 150.4 Carcinoma, epidermoid—see Neoplasm, by site, malignant, esophagus, middle third  
8. 227.3 Adenoma—see Neoplasm, by site, benign, pituitary  
   611.6 Galactorrhea, not associated with childbirth  
9. 216.6 Melanoma, benign—see Neoplasm, skin, benign, shoulder  
10. 227.0 Adenoma, adrenal (cortex)  
   255.12 Conn (-Louis) syndrome or Syndrome, Conn (-Louis)  
   255.14 Hyeraldosteronism, secondary
**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, 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, primary

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.  
   153.5 Neoplasm, appendix, malignant, 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.  
   208.10 Leukemia, chronic
   Fifth digit 0 = without mention of remission
   M9803/3 Leukemia, chronic

7.  
   201.61 Hodgkin’s disease, mixed cellularity
   Fifth digit 1 = lymph nodes head, face, neck
   M9652/3 Hodgkin’s disease, mixed cellularity
   40.11 Biopsy, lymphatic structure (node)

8.  
   140.0 Neoplasm, lip, upper, malignant, primary
   M8070/3 Carcinoma, epidermoid
   27.42 Resection, lip (wedge)
   Excision, lesion—see Excision, lesion, by site
   Excision, lip, by wide excision
   99.25 Chemotherapy, for cancer NEC

9.  
   206.21 Leukemia, monocytic, subacute
   Fifth digit 1 = in remission
   M9892/3 Leukemia, monocytic, subacute

10.  
    199.0 Carcinomatosis, unspecified site
    199.1 Neoplasm, unknown site, malignant, primary
    54.91 Paracentesis, abdominal
    M8010/6 Carcinoma, secondary site
    M8010/3 Carcinoma, primary site
11. Neoplasm, lung, lower lobe, malignant, primary
   197.1 Neoplasm, mediastinum, malignant, secondary
   32.3 Lobectomy, lung, partial
   M8041/3 Carcinoma, small cell, primary site
   M8041/6 Carcinoma, small cell, secondary site

12. Admission, for, radiotherapy
    200.10 Lymphoma, lymphocytic, poorly differentiated
    Fifth digit 0 = unspecified site, extranodal and solid organ sites
    92.24 Therapy, radiation, photon
    M9630/3 Lymphoma, lymphocytic, primary site

13. Neoplasm, breast, upper outer quadrant, malignant, primary
    196.3 Neoplasm, lymph gland, axillary, malignant, secondary
    85.43 Mastectomy, radical, modified
    M8140/3 Adenocarcinoma, primary site
    M8140/6 Adenocarcinoma, secondary site

14. Melanoma, arm
    86.4 Excision, lesion, skin, radical
    M8720/3 Melanoma, primary site

15. Admission, for, chemotherapy
    191.9 Glioblastoma, giant cell, unspecified site
    M9441/3 Glioblastoma, giant cell
    99.25 Chemotherapy for cancer

16. Angioma 228.00, see also Hemangioma, cavernous, see Hemangioma, by site = hemangioma, skin = 228.01
    86.3 Excision, lesion, skin
    M9121/0 Hemangioma, cavernous

17. Admission, for, chemotherapy
    204.00 Leukemia, lymphocytic, acute
    Fifth digit 0 = without mention of remission
    99.25 Chemotherapy for cancer
    M9821/3 Leukemia, lymphocytic acute

18. Sarcoma, Ewing’s—see Neoplasm, bone, malignant, femur
    77.65 Excision, lesion, bone, femur
    M9260/3 Sarcoma, Ewing’s

19. Carcinoma, squamous cell—see Neoplasm, by site, malignant
    Neoplasm, leg—see Neoplasm, skin, leg
    86.3 Excision, lesion, skin
    M8070/3 Carcinoma, squamous cell

20. Neoplasm, abdomen, unspecified
    M8000/1 Tumor
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
   581.81 Nephrosis, diabetic

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

3. 255.0 Syndrome, Cushing’s
   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
    272.0 Hypercholesterolemia

14. 278.02 Overweight
    V85.22 Body Mass Index of 26.5 in an adult

15. 253.6 Syndrome, inappropriate secretion of antidiuretic hormone
    Inappropriate secretion, antidiuretic hormone

16. 042 AIDS
    261 Marasmus

17. 274.0 Arthritis, gouty

18. 250.81 Hypoglycemia, diabetic
    Fifth digit 1 = Type I, not stated as uncontrolled

19. 242.30 Hyperthyroidism, with, goiter, nodular
    Fifth digit 0 = without mention of thyrotoxic crisis
    06.39 Thyroidectomy, partial

20. 273.0 Hypogammaglobulinemia, Waldenström’s
    Waldenström’s, hypergammaglobulinemia


**Chapter 7 Diseases of the Blood and Blood-Forming Organs**

**Review Exercise: Chapter 7**

1. 282.62 Sickle cell, disease
    Disease, Sickle cell
    Fifth digit 2 = with crisis
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
    Purpura, idiopathic, thrombocytopenic
7. 288.0 Neutropenia (malignant)
8. 284.0 Anemia, Fanconi’s
    Fanconi’s anemia
9. 283.19 Anemia, hemolytic, microangiopathic
10. 284.8 Anemia, aplastic, due to, drugs
    Neoplasms, breast, malignant, primary
    E933.1 Table of Drugs and Chemicals, antineoplastic agents, therapeutic use
11. 286.6 Coagulation (disseminated), intravascular
12. 532.00 Ulcer, duodenal, acute, hemorrhage
    Fifth digit 0 = without mention of obstruction
    Anemia, blood loss, acute
13. 042 AIDS
    Anemia, hemolytic, acquired
14. 289.2 Lymphadenitis (chronic), mesenteric
    Biopsy, lymphatic structure
15. 282.49 Anemia, Cooley’s
    Cooley’s anemia
    Splenectomy
16. 289.0 Polycythemia, due to, high altitude
    E902.0 High altitude, effects
    (E902.9)**
    Effects, air pressure, at high altitude, residence (E902.0)
17. 282.2 Anemia, G-6-PD
18. 281.2 Anemia, Goat’s milk
19. 286.3 Deficiency, Factor, I
20. 599.7 Hematuria
    E934.2 Table of Drugs and Chemicals, substance—Coumadin,
    E code from “Therapeutic Use” column

**Chapter 8 Mental Disorders**

**Exercise 8.1**

1. 299.00 Disorder, autistic
    Fifth digit 0 = current or active state
2. 304.21 Dependence, cocaine
    Fifth digit 1 = continuous
3. 295.52 Schizophrenia, latent
    Fifth digit 2 = chronic
4. 331.0 Alzheimer’s, dementia (senile) 331.0 [294.1]
    Fifth digit 0 = no documentation of behavioral disturbance
4. 294.10
5. 294.8 Psychosis, epileptic
    Epilepsy, grand mal
345.10 Epilepsy, grand mal
Review Exercise: Chapter 8

1. 292.0 Withdrawal, drug
   304.11 Dependence, diazepam
      Fifth digit 1 = continuous
   94.65 Detoxification therapy, drug
2. 295.64 Schizophrenia, undifferentiated, chronic
      Fifth digit 4 = chronic with acute exacerbation
3. 298.0 Psychosis, depressive, reactive
4. 300.13 Dissociative, fugue
5. 300.00 Anxiety
   780.2 Fainting
6. 535.30 Gastritis, alcoholic
      Fifth digit 0 = without mention of hemorrhage
   303.92 Alcoholism, chronic
      Fifth digit 2 = episodic
7. 312.9 Disorder, disruptive behavior
8. 290.21 Depression, senile
9. 300.7 Hypochondriac
   305.91 Habit, laxative
      Fifth digit 1 = continuous
10. 316 Colitis, mucous, psychogenic 316 [564.9]
    564.9
11. 314.01 Disorder, attention deficit, with hyperactivity
12. 571.2 Cirrhosis, liver, with alcoholism
    303.93 Dependence, alcohol
      Fifth digit 3 = in remission
13. 290.40 Dementia, vascular
    437.0 Arteriosclerosis, cerebral
14. 296.89 Disorder, Bipolar II
15. 308.3 Disorder, acute stress

Chapter 9 Diseases of the Nervous System and Sense Organs

Review Exercise: Chapter 9

1. 320.82 Meningitis, Aerobacter aerogenes
2. 324.0 Abscess, intracranial
3. 117.9 Meningitis, fungal 117.9 [321.1]
   321.1
4. 079.99 Encephalitis, postviral
   079.99 [323.6]
   323.6
5. 372.81 Conjunctivochalasis
   10.31 Excision, lesion, conjunctiva
6. 330.1 Disease, Tay-Sachs
    Tay-Sachs disease
   318.2 Retardation, mental, profound
7. 361.01 Detachment, retinal, partial, with single defect
8. 343.0 Palsy, cerebral, diplegic
9. 350.1 Tic douloureux
10. 343.2 Quadriplegia, infantile (spastic)
11. 354.0 Carpal tunnel syndrome
    Syndrome, carpal tunnel
    04.43 Release, carpal tunnel
12. 345.10 Epilepsy, tonic-clonic
    Fifth digit 0 = without mention of intractable epilepsy
13. 372.02 Conjunctivitis, acute, follicular
14. 331.3 Hydrocephalus, communicating
   02.34 Shunt, ventricular, to, abdominal cavity or organ
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<thead>
<tr>
<th>No.</th>
<th>Code</th>
<th>Description</th>
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<td>366.17</td>
<td>Cataract, senile, mature</td>
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<td>13.41</td>
<td>Phacoemulsification</td>
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<td></td>
<td></td>
<td>Aspiration, cataract, with, phacoemulsification</td>
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<td></td>
<td></td>
<td>Extraction, cataract, emulsification (and aspiration)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Extraction, cataract, phacoemulsification</td>
</tr>
<tr>
<td>16.</td>
<td>381.10</td>
<td>Otitis, media, serous, chronic</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Otitis, media, chronic, serous</td>
</tr>
<tr>
<td></td>
<td>20.01 x2</td>
<td>Myringotomy, with insertion of tube or drainage device</td>
</tr>
<tr>
<td>17.</td>
<td>303.90</td>
<td>Ataxia, cerebellar, in, alcoholism 303.9 [334.4]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit 0 = unspecified</td>
</tr>
<tr>
<td>18.</td>
<td>346.00</td>
<td>Migraine, classical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit 0 = no mention of intractable migraine, so stated</td>
</tr>
<tr>
<td>19.</td>
<td>385.32</td>
<td>Cholesteatoma, middle ear</td>
</tr>
<tr>
<td></td>
<td>20.51</td>
<td>Excision, cholesteatoma—see Excision lesion, by site</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excision, lesion, middle ear</td>
</tr>
<tr>
<td>20.</td>
<td>250.61</td>
<td>Diabetes mellitus, polyneuropathy 250.6 [357.2]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fifth digit of 1 added for type I diabetes, not stated as uncontrolled</td>
</tr>
<tr>
<td></td>
<td>357.2</td>
<td>Polyneuropathy in diabetes 250.6 [357.2]</td>
</tr>
</tbody>
</table>

**Chapter 10 Diseases of the Circulatory System**

**Exercise 10.1**

1. 398.91 Failure, heart, rheumatic (congestive)
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
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
2. **428.0** Failure, heart, congestive
   - **401.1** Hypertension, benign
3. **440.1** Stenosis, artery, renal
   - **405.11** Hypertension, secondary, due to, renal (artery), stenosis, benign
4. **403.01** Hypertension, with, chronic kidney disease, malignant
   - Hypertension, kidney, with, chronic kidney disease, malignant
   - Nephropathy, hypertensive
   - **403.90—see also** Hypertension, kidney
   - **585.4** Disease, kidney, chronic, stage IV
5. **584.9** Failure, renal, acute
   - **401.9** Hypertension (essential)
6. **402.91** 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.
   - **428.0** Failure, heart, congestive [New use additional code note in Tabular 10/02]
7. **403.91** Hypertension with chronic kidney disease unspecified
   - Disease, kidney chronic, with, hypertension
   - **585.1** Disease, kidney, chronic, stage I
8. **404.91** Hypertension, cardiorenal with heart failure, unspecified
   - Disease, cardiorenal (hypertensive) **404.90—see Tabular for 404.91**
   - **428.0** Failure, heart, congestive [New use additional code note in Tabular]
9. **405.99** Hypertension, due to, Cushing’s disease, unspecified
   - **255.0** 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
   - **428.0** Failure, heart, congestive [New use additional code note in Tabular]
   - **585.6** Disease, renal, end-stage

**Exercise 10.3**

1. **410.21** Infarction, myocardial (acute), inferolateral wall
   - Fifth digit 1 = initial episode of care
2. **414.01** Arteriosclerosis, heart—see Arteriosclerosis, coronary, native artery
   - **413.9** Angina (pectoris)
3. **412** Infarction, myocardial, healed or old
4. **414.02** Arteriosclerosis, coronary, graft—see Arteriosclerosis bypass graft, coronary artery, autologous vein
5. **411.1** Syndrome, preinfarction

**Exercise 10.4**

1. **427.31** Fibrillation, atrial
2. **416.8** Hypertension, pulmonary (artery) [unspecified]
3. **425.5** Cardiomyopathy, alcoholic
4. **416.9** Cor, pulmonale (chronic)
5. **421.0** Endocarditis, acute
   - Use additional code to identify infection.
   - **041.00** Infection, streptococcal
6. 426.12 Block, Atroventricular, Mobitz type, II
7. 427.5 Arrest, cardiac
8. 427.81 Syndrome, sick sinus
9. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
10. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
11. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
12. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
13. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
14. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
15. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
16. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
17. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
18. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
19. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure
20. 428.1 Failure, ventricular, left
Edema, pulmonary—see Edema, lung, acute, with heart disease or failure

**Exercise 10.5**

1. 433.30 Thrombosis, artery, carotid 433.1
   Note in Tabular List: 433.3 for multiple & bilateral
   Endarterectomy, head and neck for carotid
   38.12 x 2
2. 437.1 Ischemia, cerebral (generalized)
3. 435.9 Insufficiency, arterial, precerebral
4. 453.41 Thrombosis, leg, deep, iliac
5. 440.24 Arteriosclerosis—see Arteriosclerosis, extremity, claudication, and gangrene
   39.29 Bypass, vascular, femoropopliteal
6. 434.01 Infarct, infarction, thrombotic 453.9
   Infarct, infarction, brain, thrombotic
7. 432.1 Hematoma, subdural, nontraumatic
8. 430 Aneurysm, berry (ruptured)
9. 454.1 Varicose, vein (lower extremity), with, stasis dermatitis
10. 572.3 Varices, esophageal, bleeding, in, portal hypertension 572.3 [456.20]
11. 424.0 Insufficiency, mitral (valve)
12. 410.71 Infarct, infarction, myocardial, transmural
   Fifth digit 1 = initial episode
13. 427.41 Fibrillation, ventricular
14. 428.0 Failure, heart, congestive
15. 511.9 Effusion, pleura
16. 250.01 Diabetes (mellitus)
   Fifth digit 1 = Type I, not stated as uncontrolled
17. 710.0 Endocarditis due to disseminated lupus erythematosus 710.0 [424.91]
18. 451.11 Thrombophlebitis, leg, deep, femoral vein
19. 592.0 Stone, kidney; see also Calculus
20. 405.99 Hypertension, due to/secondary, calculus, kidney, unspecified
21. 55.03 Removal, calculus, kidney,
22. 426.7 Syndrome, Wolff-Parkinson-White
23. 456.20 Fibrillation, ventricular
24. 428.0 Failure, heart, congestive
25. 401.0 Hypertension, malignant
26. 455.2 Hemorrhoids, internal, bleeding
27. 49.45 Hemorrhoidectomy, by, ligation
28. 403.11 Disease, kidney, chronic, with, hypertension, benign
29. 585.2 Disease, kidney, chronic, stage II
30. 710.10 Endocarditis due to disseminated lupus erythematosus 710.0 [424.91]
Exercise 10.6

1. 37.83 Insertion, pacemaker, cardiac, dual-chamber device
37.72 Insertion, leads—see Insertion, electrodes, heart, atrium and ventricle

2. 36.14 Bypass, coronary—see also Bypass, aortocoronary, 4 coronary vessels
39.61 Bypass, cardiopulmonary or Bypass, heart-lung

3. 37.94 Implant/implantation, cardioverter-defibrillator, total system

4. 37.23 Catheterization, cardiac, combined right and left
88.56 Arteriography, coronary, double catheter (Judkins)
88.54 Ventriculogram, cardiac, left combined right or right combined left

5. 36.01 Angioplasty, percutaneous transluminal, coronary
99.10 Injection, thrombolytic agent
00.40 Note at Angioplasty instructs to assign code for number of vessels treated.

Review Exercise: Chapter 10

1. 426.4 Block, bundle branch, right
2. 420.90 Effusion, pericardial, acute
37.0 Pericardiocentesis

3. 427.31 Fibrillation, atrial
37.82 Insertion, pacemaker, cardiac, single chamber
37.71 Insertion, electrodes, heart, ventricle

4. 414.02 Arteriosclerosis, heart—see Coronary artery graft—see Bypass graft
Arteriosclerosis, bypass graft, coronary artery, autologous vein
37.22 Catheterization, cardiac, left
88.53 Ventriculogram, cardiac, left
88.55 Arteriography, coronary, single catheter (Sones)

5. 425.3 Fibroelastosis (endocardial)
6. 441.2 Aneurysm, aorta, aortic, thoracic
38.45 Aneurysmectomy, with, graft replacement, aorta, thoracic

7. 424.0 Insufficiency, mitral (valve)
35.24 Replacement, mitral valve
39.61 Bypass, cardiopulmonary

8. 410.51 Infarct, infarction, myocardial posterolateral
Fifth digit 1 = initial episode of care
36.12 Bypass coronary—see also Bypass, aortocoronary, 2 coronary vessels
36.15 Bypass, internal mammary—coronary artery (single)
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.
39.61 Bypass, cardiopulmonary

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 of care
36.01 Angioplasty, percutaneous transluminal, coronary
00.31 Note at Angioplasty 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)
00.55 Insertion, stent, non-coronary vessel (with angioplasty 39.50) drug eluting
00.40 Note at Angioplasty instructs to assign code for number of vessels treated and number of stents inserted.
00.45
15. 443.0 Raynaud’s disease
Disease, Raynaud’s
Raynaud’s gangrene 443.0 [785.4]
785.4 Gangrene

**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]

**Exercise 11.2**
1. 518.81 Failure, respiratory
358.01 Myasthenia, gravis, with exacerbation
2. 493.11 Asthma, intrinsic
Fifth digit 1 = with status asthmaticus
3. 492.8 Obstruction, lung, with, emphysema
4. 491.20 Bronchitis, chronic, obstructive
5. 518.84 Failure, respiratory, acute and chronic
492.8 Emphysema
6. 042 AIDS
Infection, HIV, with symptoms
481 Pneumonia, pneumococcal
7. 466.11 Bronchiolitis, respiratory syncytial virus
8. 473.8 Pansinusitis
478.0 Hypertrophy, nasal, turbinates
9. 033.9 Pneumonia, in, whooping cough 033.9 [484.3]
484.3 Pneumonia in whooping cough
10. 491.21 Bronchitis, obstructive, with acute bronchitis or acute exacerbation
Emphysema, with, bronchitis, chronic, with acute bronchitis or acute exacerbation
Review Exercise: Chapter 11

1. 518.5 Failure, respiratory, due to trauma, surgery, or shock
2. 474.10 Hypertrophy, adenoids, and tonsils
   Hypertrophy, tonsils, and adenoids
28.3 Tonsillectomy and adenoidectomy
3. 477.0 Hay, fever, due to, pollen
4. 478.34 Paralysis, vocal cord, complete
31.42 Laryngoscopy
5. 518.81 Failure, respiratory, acute
496 Disease, lung, obstructive (chronic) (COPD)
   Obstruction, lung, disease, chronic
96.71 Ventilation, mechanical, other continuous, for less than 96 consecutive hours
96.04 Intubation, trachea
   Insertion, tube, endotracheal
6. 491.0 Bronchitis, chronic, simple
33.24 Biopsy, bronchus, closed
7. 512.0 Pneumothorax, tension
34.91 Thoracentesis
8. 162.3 Neoplasm, lung, upper lobe, malignant, primary
32.28 Excision, lesion, lung, endoscopic
9. 471.8 Polyp, frontal (sinus)
   Polyp, sinus (frontal)
22.42 Excision, polyp—see Excision, lesion, by site
   Excision, lesion, nasal sinus, frontal
10. 476.1 Laryngotracheitis, chronic
31.43 Biopsy, larynx, closed (endoscopic)
11. 482.83 Pneumonia, Gram-negative bacteria NEC
12. 487.0 Pneumonia, due to, influenza
   Pneumonia, influenzal
13. 480.3 Pneumonia, SARS-associated coronavirus
   Pneumonia, due to, SARS-associated coronavirus
14. 500 Black, lung disease
   Disease, black lung
15. 512.1 Pneumothorax, postoperative or iatrogenic

Chapter 12 Diseases of the Digestive System

Exercise 12.1

1. 524.23 Mesio-occlusion
2. 551.00 Hernia, femoral, with, gangrene
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 gallbladder (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
   Diverticulosis, colon, with, diverticulitis
45.23 Colonoscopy, fiberoptic (flexible)
13. 530.11 Reflux, esophageal
   Tabular 530.81 excludes reflux esophagitis (530.11)
   Reflux, 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
43.5 Gastrectomy, proximal
2. 556.0 Enterocolitis, ulcerative
45.25 Colonoscopy, with biopsy
3. 550.91 Hernia, inguinal
   Fifth digit 1 = unilateral or unspecified, recurrent
53.01 Repair, hernia, inguinal, direct
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
45.13 Esophagogastroduodenoscopy
6. 574.30 Cholecystitis with calculus in common bile duct—see Choledocho lithiasis
   Choledocho lithiasis, with, cholecystitis, acute
   Fifth digit 0 = no mention of obstruction
51.96 Removal, calculus, bile duct, percutaneous
7. 153.3 Neoplasm, colon, sigmoid, malignant, primary
45.76 Resection, colon, sigmoid
   See Note in Tabular List—Code also any synchronous anastomosis other than end-to-end
8. 569.41 Ulcer, rectum
48.24 Colonoscopy, with biopsy, rectum
9. 564.1 Syndrome, irritable bowel
   Irritable—see Irritability, bowel syndrome
10. 211.3 Polyp, colon
45.42 Polypectomy, large intestine
11. 438.82 Dysphagia 787.2—No cross-reference in Tabular
   Accident, cerebrovascular, late effect—see Late Effects of cerebrovascular disease
   (Have to know what is a late effect)
   Late effect, cerebrovascular disease with dysphagia 438.82
43.11 Gastrostomy, percutaneous endoscopic
12. 552.21 Hernia, incisional, with, obstruction (incarcerated)
53.51 Repair, hernia, incisional
13. 577.0 Pancreatitis, acute
577.1 Pancreatitis, chronic
535.10 Gastritis, atrophic
   Fifth digit 0 = no mention of hemorrhage
14. 579.3 Syndrome, malabsorption, postsurgical
   Malabsorption, postsurgical
15. 571.49 Hepatitis, chronic, active
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
   622.7 Polyp, cervical
   617.0 Endometriosis, uterus
   68.4 Hysterectomy, abdominal
   65.61 Salpingo-oophorectomy, bilateral
5. 622.12 Dysplasia, cervix, moderate
   67.12 Biopsy (punch) of cervix
6. 626.0 Absence, menstruation
7. 627.2 Menopause, menopausal (symptoms) 627.2
   256.39 Failure, ovarian (primary)
8. 610.1 Fibrocystic disease of breast
    85.11 Closed biopsy of breast
9. 600.01 Hypertrophy, prostate, (benign), with urinary obstruction
    60.29 Resection, transurethral, prostate
10. 611.1 Gynecomastia
    85.31 Mammaplasty, reduction, unilateral
11. 189.0 Wilms’ tumor
    Tumor, Wilms’
    55.51 Nephrectomy (total) (unilateral)
12. 592.1 Stone, ureteral
    59.8 Insertion, ureteral stent
    (Note—No subterm ureteral under Insertion, stent)
13. 603.1 Hydrocele, infected
    63.1 Hydrocelectomy, spermatic cord
14. 250.41 Diabetic, nephrosis 250.4 [581.81]
    581.81 Nephrosis, in diabetes mellitus 250.4 [581.81]
    Syndrome, nephrotic, diabetic 250.4 [581.81]
    Fifth digit 1 = Type I, not stated as uncontrolled
15. 600.01 Hypertrophy, prostate, benign, with urinary retention (obstruction)
    60.96 Thermotherapy, prostate, by TUMT
16. 618.01 Cystocele, midline
17. 618.04 Rectocele
    618.83 Wasting, pelvic muscle
    70.50 Repair, cystocele, and rectocele
18. 256.4 Infertility, female, due to, Stein-Leventhal syndrome 256.4 [628.0]
    628.0 Stein-Leventhal syndrome 628.0—note to also code infertility
19. 611.0 Abscess, breast (acute)
    85.0 Incision (and drainage), breast (skin) = 85.0
    Incision (and drainage) abscess, breast = no entry
    Drainage, abscess,—see also Drainage by site and Incision by site
    Drainage, abscess, breast = no entry
20. 590.10 Pyelonephritis, acute
    041.7 Infection, Pseudomonas
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
   69.01 Abortion, by, dilation and curettage
4. 634.91 Abortion, spontaneous
   Fifth digit 1 = incomplete
   654.53 Pregnancy, complicated by, incompetent cervix
   Fifth digit 3 = antepartum condition (used with abortion codes)
   69.02 Dilation and curettage, uterus, after, abortion
5. 644.21 (Disease Index) Delivery, premature, labor (before 37 completed weeks)
   Any spontaneous abortion that results in a liveborn infant must be coded to 644.
   V27.0 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.
2. X
3.
4. X
5.
6.
7.
8.
9. X
Exercise 14.5

1. 643.13 Hyperemesis, gravidarum, with, dehydration
   Fifth digit 3 = antepartum condition

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

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

5. 660.11 Delivery, complicated by, abnormal, size, fetus, causing obstructed labor
   653.51 Pregnancy, complicated by, abnormal, size, fetus
   Delivery, cesarean, abnormal, size, fetus
   Fifth digit 1 = delivered with or without 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

73.59 Delivery, assisted spontaneous
   Delivery, manually assisted

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

74.0 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 Outcome of delivery, single, liveborn

75.69 Repair, laceration—see Suture, by site
   Suture, perineum, after delivery

5. 655.13 Pregnancy, management affected by, chromosomal abnormalities (Down’s)
   Fifth digit 3 = antepartum condition
1. Pregnancy, complicated by, infection, urinary (tract)
   Fifth digit 3 = antepartum condition
   Infection, urinary (tract), complicating pregnancy, childbirth, or puerperium

2. Infection, urinary tract

3. Infection, E. coli

4. Blighted, ovum

5. Pregnancy, tubal (without intrauterine pregnancy)
   Salpingectomy, unilateral, removal of tubal pregnancy

6. Pregnancy, complicated by, placenta, previa
   Fifth digit 1 = delivered with or without antepartum condition

7. Outcome of delivery, single, liveborn
   Cesarean section, low cervical

8. Hemorrhoids—Tabular 455, excludes note: that complicating pregnancy
   Fifth digit 3 = antepartum condition

9. Pregnancy, complicated by, current disease or condition, diabetic
    Pregnancy, complicated by, diabetes (mellitus)
    Fifth digit 3 = Type I, uncontrolled

10. Abortion, threatened
    Fifth digit 3 = antepartum condition

11. Failure, cervical dilation in labor
    Delivery, cesarean, poor dilation, cervix
    Delivery, complicated by, cervical dystocia
    Delivery, complicated by, arrested active phase
    Delivery, complicated by, dystocia, cervical
    Fifth digit 1 = delivered with or without antepartum condition

12. Outcome of delivery, single, liveborn
    Cesarean section, low cervical

13. Delivery, completely normal case—see category 650
    Delivery, normal
    Delivery, uncomplicated—see category 650

14. Diabetes mellitus (without complication)
    Fifth digit 3 = Type I, uncontrolled

15. Thrombophlebitis, puerperal, postpartum, childbirth, deep
    Fifth digit 4 = postpartum condition

16. Admission, for, sterilization
    Sterilization, admission for Contraception, sterilization

17. Multiparity

18. Ligation, fallopian tubal, with, Falope ring
17. 672.02 Pyrexias, puerperal
Fever, puerperal
Puerperal, pyrexia
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 & curettage, to terminate pregnancy
Index to Procedures—Abortion, therapeutic, by dilation and curettage
20. 656.81 Pregnancy, complicated by, fetal, distress
(This is the correct code for the nonspecific diagnosis of “fetal distress.” Code 656.3x is a specific condition that is coded only when the physician documents “fetal [metabolic] academia,” and that is the only entry in the Alphabetic Index to Diseases that leads to 656.3, Fetal acidemia, affecting management of pregnancy.)
Delivery, cesarean, distress, fetal
Distress, fetal, affecting management of pregnancy or childbirth
644.21 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
V27.1 Outcome of delivery, single, stillborn
74.0 Delivery, cesarean, classical
Cesarean section, classical

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
041.00 Infection, streptococcus
5. 703.0 Infection/infected, nail, ingrowing
6. 685.0 Cyst, pilonidal, with, abscess
Pilonidal—see condition
86.03 Incision (and drainage), pilonidal cyst
7. 708.0 Urticaria, allergic
8. 701.0 Scleroderma, circumscribed
9. 695.1 Erythema, multiforme
10. 683 Lymphadenitis, acute
041.10 Infection, staphylococcus
11. 692.84 Dermatitis, animal dander
12. 693.1 Dermatitis, due to, food ingested
Review Exercise: Chapter 15

1. 707.03 Decubitus (ulcer), sacrum
   86.22 Debridement, skin, excisional

2. 216.7 Nevus—see also Neoplasm, skin, benign
   Nevus, blue (M8780/0) = code as neoplasm, skin, benign
   Neoplasm, skin, foot, benign

3. 692.0 Dermatitis, due to, detergent

4. 707.13 Ulcer, leg – see Ulcer, lower extremity (chronic), ankle
   86.63 Graft, skin, full-thickness

5. V10.3 History (personal) malignant neoplasm, breast
   V45.71 Status post mastectomy = no entry
   Status post, absence, organ = see Absence by site, acquired
   Absence, breast (acquired)
   85.53 Insertion, implant – see Insertion, prosthesis
   Insertion, prosthesis, breast, unilateral
   Implant/implantation, breast, unilateral

6. 174.3 Neoplasm, breast, lower inner quadrant, malignant, primary
   85.22 Resection, breast, quadrant

7. 610.0 Cyst, breast (benign)
   85.11 Biopsy, breast, percutaneous (needle)

8. 708.1 Urticaria, idiopathic

9. 403.91 Hypertension, renal, unspecified – see also Hypertension, kidney
   Hypertension, kidney, with chronic kidney disease
   585.5 Disease, kidney, chronic, stage V
   86.07 Insertion, vascular access device, totally implantable

10. 682.3 Cellulitis, arm
   86.28 Debridement, skin, nonexcisional (performed by nonphysician)
Chapter 16 Diseases of the Musculoskeletal System and Connective Tissue

Review Exercise: Chapter 16

1. 722.11 Displacement, intervertebral disc, thoracic
   80.51 Laminectomy, with, excision of herniated intervertebral disc
2. 715.15 Osteoarthrosis, localized, primary
   Fifth digit 5 = hip
3. 714.31 Arthritis, rheumatoid, juvenile, acute
4. 721.42 Spondylosis, lumbar, with myelopathy
5. 717.7 Chondromalacia, patella
6. 710.0 Lupus, erythematous, systemic
   Erythematous, lupus—see also Lupus, erythematous 695.4
   Tabular List 695.4—excludes note: systemic (disseminated) lupus erythematosus
7. 730.07 Osteomyelitis, acute
   Fifth digit 7 = ankle
   041.11 Infection, staphylococcus aureus
8. 733.13 Fracture, pathologic, vertebrae
   Fracture, vertebrae, pathologic
   198.5 Neoplasm, bone, malignant, secondary
   162.9 Neoplasm, lung, malignant, primary
9. 736.71 Equinovarus, acquired
   Talipes, equinovarus, acquired
10. 711.04 Arthritis, pyogenic
    Fifth digit 4 = hand
    041.02 Infection, streptococcus, Group, B
11. 722.82 Syndrome, postlaminectomy, thoracic
    Postlaminectomy syndrome, thoracic
12. 733.00 Kyphosis, due to, osteoporosis 733.0 [737.41]
    737.41 Kyphosis, due to, osteoporosis 733.0 [737.41]
    Tabular: Osteoporosis, unspecified 733.00
13. 717.3 Derangement, joint, knee 717.9
    Derangement, knee 717.9
    *Derangement, meniscus, medial 717.3
    No mention of current injury, current injury = 836.2. Tabular List = 836.0 medial, see also Tear, meniscus
    80.6 Meniscectomy (knee) NEC
    Note: Per instructions in Coding Clinic (1993, 2000), the arthroscopic approach is not coded; code 80.26 is not necessary.
14. 716.95 Arthritis, nonpyogenic
    Fifth digit 5 = pelvic region (hip)
    041.10 Infection, staphylococcal
15. 720.0 Spondylitis, ankylosing
16. 727.51 Baker’s cyst (knee)
    Cyst, Baker’s (knee)
    83.39 Excision, cyst, Baker
17. 733.11 Fracture, pathologic, humerus
    Fracture, humerus, pathologic
733.01 Osteoporosis, postmenopausal
79.01 Reduction, fracture, humerus (closed)
18. 731.0 Paget’s disease, bone
19. 733.22 Cyst, bone, aneurysmal
77.67 Excision, cyst—no bone subterm, see also Excision, lesion, by site
    Excision, lesion, bone, tibia
20. 732.2 Slipped epiphysis, upper femoral

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
    756.6 Hernia, diaphragmatic, congenital
    53.7 Repair, hernia, diaphragmatic, abdominal approach
2. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
    755.01 Polydactyly, fingers
3. 749.22 Cleft, lip, with, cleft palate, unilateral
    27.54 Repair, cleft, lip
4. 747.0 Patent, ductus arteriosus
    38.85 Repair, patent ductus arteriosus
5. 754.69 Talipes (congenital), equinovalgus
    758.0 Down’s syndrome
    Syndrome, Down’s
6. 742.3 Hydrocephalus, congenital
    02.34 Insertion, shunt—no entry
    Insertion, ventriculoperitoneal—no entry
    Shunt, ventricular to abdominal cavity (peritoneal)
7. 748.5 Hypoplasia, lung
8. 756.79 Omphalocele
    53.49 Repair, omphalocele
9. 753.14 Polycystic, kidney, childhood
10. 759.2 Cyst, thyroglossal (duct)
    06.7 Excision, thyroglossal duct
Review Exercise: Chapter 17

1. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
   768.2 Distress, fetal, liveborn infant, first noted, before onset of labor
2. 773.2 Erythroblastosis (fetalis)
3. 774.2 Hyperbilirubinemia, neonatal, of prematurity
   765.18 Prematurity NEC
   Premature, infant NEC
   Fifth digit 8 = birth weight 2,000 grams
   765.28 Gestation, weeks of, 35 completed
4. 767.6 Erb’s palsy
   Palsy, Erb’s
5. 775.0 Hypoglycemia, in infant of diabetic mother
6. 777.5 Enterocolitis, fetus or newborn, necrotizing
7. V30.00 Newborn, single, born in hospital, delivered without mention of c. delivery
   760.75 Maternal condition, affecting fetus or newborn, noxious substance transmitted via breast milk or placenta, “crack” or cocaine
   765.14 Prematurity NEC
   Premature, infant, NEC
   Fifth digit 4 = birth weight 1,247 grams
   765.26 Gestation, 32 completed weeks
8. 486 Pneumonia
9. 771.81 Septicemia, of newborn
10. 776.2 Coagulation, intravascular, newborn
    Neonatal = 28 days of life or first month of life
11. V30.01 Newborn, single, born in hospital, delivered by cesarean delivery
    775.0 Large, baby, of diabetic mother
12. 741.02 Spina bifida, with hydrocephalus
    Fifth digit 2 = dorsal (thoracic) region
    03.52 Repair, myelomeningocele
    02.34 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
    770.84 Failure, respiratory, newborn
    96.71 Ventilation, mechanical
    96.04 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
    752.61 Hypospadias (male)
Chapter 18 Symptoms, Signs, and Ill-Defined Conditions

Exercise 18.1

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
7. 486 Pneumonia
8. 796.2 Elevation, blood pressure, reading
9. 788.32 Incontinence, stress, male Incontinence, urine, male, stress Incontinence, urine, stress, male
10. 571.2 Cirrhosis, Laennec’s (of liver) Laennec’s cirrhosis (alcoholic)
11. 789.5 Ascites
12. 780.39 Seizures
13. 789.01 Pain, abdominal Fifth digit 1 = right upper quadrant
14. 780.71 Syndrome, fatigue, chronic Fatigue, chronic, syndrome
15. 789.30 Mass, abdominal
16. 782.4 Jaundice
17. 786.59 Pain, chest, noncardiac
18. 788.42 Polyuria

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 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
839.02 Dislocation, vertebra, cervical, second
3. 835.10 Dislocation, hip, open
4. 844.0 Sprain, lateral collateral, knee
5. 846.0 Strain — see also Sprain, by site
Sprain, lumbosacral

Exercise 19.5
1. 852.36 Hemorrhage, subdural, traumatic — see Hemorrhage, brain, traumatic, subdural
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
850.5 Concussion, with, loss of consciousness
5. 863.21 Injury, duodenum — see Injury, internal, duodenum
Injury, internal, duodenum

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
941.10 Burn, face (see burn, head), first degree 941.10
2. 943.41 Burn, forearm, third degree, deep
3. 942.34 Burn, back, third degree
948.22 Burn, extent, 20–29 percent
Fifth digit 2 = 20–29 percent
4. 948.31 Burn, extent, 30 percent
Fifth digit 1 = 10–19 percent
5. 944.25 Burn, palm, second degree
6. 943.23 Burn, arm, upper, second degree
944.20 Burn, hand, second degree
7. 945.26 Burn, thigh, second degree
958.3 Burn, infected
8. 945.29 Burn, legs, multiple, second degree
9. 942.34 Burn, full thickness — see Burn by site third degree
Burn by site third degree
Burn, back, third degree
10. 943.35 Burn, shoulder, third degree
941.26 Burn, scalp, second degree
Exercise 19.8

1. 891.2 Wound, open, leg, lower, with tendon involvement
   904.51 Injury, artery—see also injury, blood vessel, by site
   Injury, blood vessel, tibial, artery, anterior
2. 913.5 Bite, insect, nonvenomous—see Injury, superficial, by site
   Injury, superficial, elbow
   Fourth digit 5 = insect bite, nonvenomous, infected
3. 924.10 Contusion, leg, lower (with knee)
4. 952.00 Injury, spinal cord, cervical (C1–C4)
5. 927.20 Crush, crushed, crushing injury, hand, except fingers alone (and wrist)
   Crush, crushed, crushing injury, wrist, with hand(s) except fingers alone

Exercise 19.9

1. 934.1 Foreign body, entering through orifice, bronchus
   98.15 Removal, foreign body, bronchus
2. 930.9 Foreign body, entering through orifice, eye
3. 936 Foreign body, entering through orifice, colon
4. 932 Foreign body, entering through orifice, nose
5. 931 Foreign body, entering through orifice, ear

Chapter 20 Injury and Poisoning II

Exercise 20.1

1. 781.3 Ataxia
   E936.3 Table of Drugs & Chemicals, Carbamazepine, External Cause, Therapeutic Use
   E930.3 Table of Drugs & Chemicals, Erythromycin, External Cause, Therapeutic Use
2. 780.4 Vertigo
   E947.8 Table of Drugs & Chemicals, radio-opaque (drugs) (material), External Cause, Therapeutic Use
   Table of Drugs & Chemicals, dye, diagnostic agents, External Cause, Therapeutic Use
3. 564.09 Constipation
   E933.1 Table of Drugs & Chemicals, Oncovin, External Cause, Therapeutic Use
   201.90 Hodgkin’s disease
   Fifth digit 0 = unspecified site, extranodal and solid organ sites
4. 780.09 Drowsiness
   E933.0 Table of Drugs & Chemicals, Periactin, External Cause, Therapeutic Use
5. 342.90 Hemiplegia
   909.5 Late, effect(s), adverse effect of drug, medicinal or biological substance
   E932.2 Table of Drugs & Chemicals, Enovid, External Cause, Therapeutic Use
Exercise 20.2
1. 995.2 Reaction, allergic, drug—see Allergy, drug

Exercise 20.3
2. 909.5 Late, effect(s), adverse effect of drug, medicinal or biological substance

Exercise 20.4
1. 996.63 Complication, infection, ventricle shunt

Tabular List—review all codes in subcategory 996.0–996.5

3. 996.02 Leakage, device—see Complications, mechanical, heart valve prosthesis

4. 997.2 Thrombophlebitis, postoperative

5. 383.30 Complication, postmastoidectomy
Review Exercise:
Chapters 19 and 20

1. 708.0 Urticaria
   E930.4 Table of Drugs & Chemicals, Tetracycline, therapeutic use

2. 998.32 Dehiscence, operative wound

3. 965.02 Table of Drugs & Chemicals, Methadone, poisoning
   E950.0 Table of Drugs & Chemicals, Methadone, External Cause, suicide attempt

4. 958.0 Embolism, air

5. 823.90 Fracture, tibia, open (compound)
   79.36 Reduction, fracture, tibia, open, with internal fixation

6. 920 Contusion, cheek
   923.10 Contusion, forearm

7. 813.41 Fracture, Colles’
   79.02 Reduction, fracture, radius

8. 881.20 Wound, open, forearm, with tendon involvement

9. 974.3 Table of Drugs & Chemicals, Diuril, poisoning
   980.0 Table of Drugs & Chemicals, alcohol, absolute, beverage
   780.2 Syncope
   E858.5 Table of Drugs & Chemicals, Diuril, External Cause, accident
   E860.0 Table of Drugs & Chemicals, Alcohol, absolute, beverage, External Cause, accident

10. 787.03 Vomiting
    198.5 Neoplasm, bone, malignant, secondary
    199.1 Neoplasm, unknown site or unspecified, malignant, primary
   E933.1 Table of Drugs & Chemicals, Cytoxan, External Cause, Therapeutic Use

11. 996.42 Dislocation, prosthesis, internal—see Complications, mechanical
    Complication, mechanical, orthopedic device, internal, mechanical, dislocation
    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
    997.3 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
    E950.4 Table of Drugs & Chemicals, Ampicillin, External Cause, suicide attempt

**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
   E849.4 Accident, occurring, school, riding
2. E917.0 Striking against, object, in sports
   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
   E929.0 Index to External Causes
   Late effect of, motor vehicle accident
2. 780.39 Convulsions
   905.0 Late, effects, fracture, skull
   E929.3 Index to External Causes
   Late effect of, fall
3. 470 Deviation, septum (nasal) (acquired)
   905.0 Late, effect, fracture, face and skull
   E929.8 Index to External Causes
   Late effect of, accident, specified
   (No entry for sports injury, but this is a specified accident)
4. 709.2 Scars
   906.7 Late, effect, burn, extremities
   E929.4 Index to External Causes
   Late effect of, fire, accident caused by
5. 348.1 Damage, cerebral—see Damage, brain
   Damage, brain, anoxic/hypoxic
   Anoxia, cerebral
   906.0 Late, effect, wound, open, head
   E969 Index to External Causes
   Late effect of, homicide, attempt (any means)

Chapter 22 Late Effects

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, epileptic
   326 Late, effect, encephalitis
2. 733.81 Malunion, fracture
   930.2 Late, effect, fracture, extremity, upper
3. 906.1 Late, effect, wound, open, extremity
4. 344.1 Paraplegia
   907.2 Late, effect, injury, spinal, cord
5. 701.4 Keloid
   906.4 Late, effect, crushing (injury)
6. 438.11 Late effect, cerebrovascular disease, with, aphasia
7. 716.17 Arthritis, traumatic
   Fifth digit 7 = ankle
   905.4 Late, effect, fracture, extremity, lower
8. 709.2 Scar
   906.7 Late, effect, burn, extremity
9. 718.43 Contraction/Contracture, joint, wrist
   138 Late, effect, poliomyelitis
10. 244.1 Hypothyroidism due to irradiation (therapy)
    909.2 Late, effects, radiation
Chapter 23 Supplementary Classifications—V Codes
(Factors Influencing Health Status and Contact with Health Services)

Exercise 23.1

1. V01.1 Exposure, to, tuberculosis
2. V25.2 Admission, for, sterilization
   66.22 Ligation, fallopian tubes, with, division, by endoscopy
3. V16.0 History, family, malignant neoplasm, colon
4. V32.01 Newborn, twin, mate stillborn, born in hospital
   Fifth digit 1 = delivered by cesarean section
5. V28.0 Screening, antenatal, based on amniocentesis, chromosomal anomalies
   75.1 Amniocentesis

Exercise 23.2

1. V42.0 Transplant, kidney
2. V54.89 Encounter for, no entry regarding case—see also Admission for
   Admission for cast removal—see No entry
   Admission for removal of cast
   Aftercare, involving, removal of, fixation device, external
   Aftercare, orthopedic, removal of fixation device, external
   97.88 Removal, cast
3. V59.3 Admission, as organ donor—see Donor
   Donor, bone, marrow
   41.91 Aspiration, bone marrow
4. V58.1 Admission, for, chemotherapy
   Chemotherapy, encounter (for)
   201.90 Lymphoma, Hodgkin’s
   Hodgkin’s, lymphoma
   Fifth digit 0 = unspecified site
   99.25 Chemotherapy
5. V53.31 Reprogramming, cardiac pacemaker
   Admission, for, reprogramming of cardiac pacemaker
6. V50.2 Admission, for, circumcision
   Circumcision, routine
   64.0 Circumcision
7. V55.0 Encounter for dialysis, no entry—see also Admission for
   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”
   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
   Deficit, neurologic, due to, cerebrovascular lesion, late effect—see Late effects of cerebrovascular disease

93.83 Therapy, occupational
   Occupational therapy

10. V52.1 Encounter for fitting, no entry—see also Admission for
    Admission, for, fitting, artificial, leg
    Fitting, artificial leg

84.46 Fitting, prosthesis/prosthetic, leg, below knee

Review Exercise: Chapter 23

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

89.26 Examination, gynecologic

91.46 Examination, microscopic, cervix
   Fourth digit 6 = cell block and Papanicolaou smear

2. V71.3 Observation, accident, at work

3. V71.1 Observation, malignant neoplasm, suspected

91.46 Examination, microscopic, cervix
   Fourth digit 6 = cell block and Papanicolaou smear

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

87.61 Radiology, digestive tract, barium swallow

5. V67.09 Follow-up, specified, surgery (colon resection)
   V10.05 History, malignant neoplasm, personal, colon

45.23 Colonoscopy

6. 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. V58.1 Encounter for, chemotherapy
   Admission, chemotherapy
   Chemotherapy, encounter for
174.2 Neoplasm, breast, upper inner quadrant, malignant, primary
99.25 Chemotherapy

**Coding Self-Test**

1. 635.92 Abortion, elective—see Abortion, legal
   Abortion, legal
   Fifth digit 2 = complete
647.53 Pregnancy, complicated by, rubella
   Pregnancy, complicated by, current disease or condition, rubella
   Fifth digit 3 = antepartum, not delivered, used with abortion codes
   Curettage, uterus, aspiration, to terminate pregnancy
   Aspiration, curettage, to terminate pregnancy
2. 675.14 Abscess, breast, puerperal/postpartum
   Puerperal, abscess, breast
   Fifth digit 4 = postpartum condition
3. 153.2 Neoplasm, colon—see Neoplasm, intestine, large
   Neoplasm, intestine, large, colon, descending, malignant, primary
   Neoplasm, lymph nodes, mesenteric, malignant, secondary
46.13 Colostomy, permanent
   M8140/3 Adenocarcinoma, NOS
   M8140/6 Adenocarcinoma, metastatic, NOS
4. 295.35 Schizophrenia, paranoid
   Fifth digit 5 = in remission
5. 331.4 Hydrocephalus (obstructive)
   02.32 Shunt, ventriculocatheter
   Shunt, ventricular, to, circulatory system
6. 332.1 Parkinsonism, secondary
E939.2 Table of Drugs & Chemicals, haloperidol, external cause, therapeutic use

7. 250.73 Diabetes, gangrene 250.7 [785.4]
Fifth digit 3 = Type I, uncontrolled
785.4 Gangrene, diabetic 250.7 [785.4]

8. V32.01 Newborn, twin, mate stillborn, born in hospital
Fifth digit 1 = delivered by cesarean delivery
775.0 Hypoglycemia, in infant of diabetic mother

9. V14.2 History, allergy to, sulfa

10. V56.0 Admission, dialysis, renal
Dialysis, renal
585.5 Disease, kidney, chronic, stage V
585 Failure, renal, chronic
39.95 Hemodialysis

11. 493.20 Asthma, with, chronic obstructive pulmonary disease (COPD)
Disease, lung, obstructive (chronic) (COPD), with, asthma (chronic) (obstructive)

12. 411.1 Angina, unstable

13. 780.4 Dizziness

14. 404.92 Hypertension/hypertensive, with heart, with kidney—see Hypertension, cardiorenal
Hypertension, cardiorenal, with, renal failure, unspecified
585.3 Disease, kidney, chronic, stage III

15. 280.0 Anemia, iron deficiency, due to blood loss (chronic)

16. 577.2 Pancreatitis, cystic

17. 331.81 Syndrome, Reye’s
Reye’s syndrome

18. 942.42 Burn, chest, third-degree, deep
945.40 Burn, leg, third-degree, deep

19. 310.9 Syndrome, brain (chronic)
Brain, syndrome
437.0 Arteriosclerosis, cerebral

20. 800.29 Fracture, frontal (bone)—see Fracture, skull, vault
Fracture, skull, vault, with subarachnoid hemorrhage
Fifth digit 9 = with concussion
Concussion not coded separately
E819.0 Accident, motor vehicle
Fourth digit 0 = driver of motor vehicle other than motorcycle

21. 011.04 Tuberculosis, lung—see Tuberculosis, pulmonary
Tuberculosis, pulmonary, infiltrative
Fifth digit 4 = confirmed by bacterial culture
015.01 Tuberculosis, spondylitis 015.0 [720.81]
Spondylitis, tuberculous 015.0 [720.81]
Fifth digit 1 = bacterial or histological examination not done
720.81 Spondylitis, tuberculosis

22. 620.2 Cyst, ovary/ovarian, retention
65.25 Oophorectomy, partial, laparoscopic

23. 088.81 Lyme disease
Disease, Lyme
711.80 Arthritis, due to, Lyme disease 088.81 [711.8]
24. 790.92 Findings, abnormal, prothrombin time
   Abnormal, test results without manifest disease—see Findings, abnormal
   Abnormal, laboratory findings—see Findings, abnormal
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)
616.11 No entry under vaginitis to indicate vaginitis in diseases classified elsewhere

25. 746.7 Hypoplasia, heart, left (syndrome)
   Syndrome, hypoplastic left heart
26. 969.0 Table of Drugs & Chemicals, amitriptyline, poisoning
   785.0 Tachycardia
   E950.3 Table of Drugs & Chemicals, amitriptyline, external cause, suicide attempt
31. 174.4 Carcinoma, infiltrating duct, unspecified site but upper outer quadrant is a clue to the site of breast; also Carcinoma, infiltrating duct means the breast is primary site
198.5 Neoplasm, bone, malignant, secondary
M8500/3 Carcinoma, infiltrating duct
M8010/6 Carcinoma, metastatic

27. 812.00 Fracture, shoulder—see Fracture, humerus, upper end
   Fracture, humerus, upper end
   881.0 Index to External Causes
   Fall, from/off, ladder
   E849.0 Accident, occurring, home (private) (residential)
   79.01 Reduction, fracture, humerus (closed)
28. 702.11 Seborrhea/seborrheic, keratosis, inflamed
   Keratosis, seborrheic, inflamed
   86.3 Cryotherapy, skin
29. 318.0 Retardation, mental, moderate
33. 289.4 Hypersplenism (known underlying cause of thrombocytopenia)
287.4 Thrombocytopenia, secondary
41.5 Splenectomy
30. 250.83 Diabetes/diabetic, hypoglycemic shock
   Hypoglycemic shock, diabetic
34. 482.41 Pneumonia, due to, staphylococcus aureus
32. 287.4 Hypoglycemia, diabetic
   Fifth digit 3 = Type I, uncontrolled
35. 531.00 Ulcer, stomach, acute, with, hemorrhage
   Fifth digit 0 = without mention of obstruction
   Ulcer, peptic = 533; see excludes note—peptic ulcer: gastric 531
45.16 Esophagogastroduodenoscopy, with closed biopsy
36. 582.4 Glomerulonephritis, chronic, rapidly progressive
Glomerulonephritis, rapidly progressive, chronic

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

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 Osteoarthritis
Osteoarthritis (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. 598.2 Stricture, urethra, postcatheterization

788.30 Incontinence, urine

42. 705.83 Hidradenitis (suppurative)

86.4 Excision, skin, radical (wide)

86.69 Graft, skin (partial thickness)

43. 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

44. 795.5 Positive, skin test, tuberculin
Findings, abnormal, skin test, positive, tuberculin
45. 862.9 Gunshot wound, internal organs—see Injury, internal, by site, with open wound
Injury, internal, intrathoracic, with open wound
E965.0 Index to External Causes
Gunshot wound—see also Shooting E922.9
Shooting, homicide (attempt), handgun
E849.5 Accident, occurring, street
34.02 Thoracotomy, exploratory
46. V58.1 Admission, chemotherapy
Encounter for, chemotherapy
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
50. 644.21 Delivery, premature, labor
Fifth digit 1 = delivered, with or without mention of antepartum condition
V27.0 Outcome of delivery, single, liveborn
672.02 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
648.31 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
304.31 Dependence, marihuana
Fifth digit 1 = continuous