PEARSON'S COMPREHENSIVE MEDICAL CODING: A PATH TO SUCCESS 2/E

TEXTBOOK ANSWER KEY

CHAPTERS 1-24

The words in parentheses ( ) following a code provide the Index entries for the Main

Term and subterms of one coding path. Selections for additional characters in the

Tabular List are listed after the subterms. Index entries vary among publishers.

To access the navigation pane in Word, press Ctrl-F, then click on the left hand tab.

CHAPTER 1: YOUR CODING CAREER

CODING PRACTICE

Exercise 1.1 What Is Coding?

1. Coding is the process of accurately assigning codes to verbal descriptions of
   patients' conditions and the healthcare services provided to treat those conditions.

2. Diagnosis codes describe patient illnesses, diseases, conditions, injuries, or other
   reason for seeking healthcare services. Procedure codes describe the services
   healthcare professionals provide to patients.

3. Abstract - determine which elements of the visit require codes

   Assign – determine the codes that describe the patient's condition and services

   Arrange – sequence the codes in proper order

Exercise 1.2 Understanding Patient Encounters

1. after an encounter is completed

2. diagnosis, treatment plan, documentation

3. history, physical examination, testing

Exercise 1.3 Certification

1. Certification is a voluntary achievement which documents that a coder has attained a certain level of proficiency by passing a rigorous examination.

2. CPC - Certified Professional Coder (physician office coding)

   COC - Certified Outpatient Coder

   CPC-P - Certified Professional Coder-Payer

3. CCS – Certified Coding Specialist (hospital inpatient and outpatient coding)

   CCS-P – Certified Coding Specialist-Physician

   CCA – Certified Coding Associate

Exercise 1.4 Coding Careers

1. Student answers will vary, so any item from Table 1-3 is acceptable.

2. Student answers will vary and should include the concept that payment for services from insurance companies is based a high degree of accuracy and productivity.

3. 30 to 40 words per minute (wpm) or 9,000 to 12,000 keystrokes per hour (ksph)

4. Coders must be able to identify medical terms, a skill which includes breaking down unfamiliar words into a prefix, root, and suffix to define the meaning. It is not possible to code accurately without knowing the definition of medical terms used in clinical documentation.

CONCEPT QUIZ

Completion

1. Diagnosis

2. abstract, assign, arrange (answers must be in this order)

3. outpatient

4. inpatient

5. ancillary

6. attending

7. career path

8. treatment

9. query

10. Covered entities

Multiple Choice

1. C

2. D

3. B

4. D

5. B

6. B

7. A

8. B

9. A

10. A

CHAPTER 2: CODING AND REIMBURSEMENT

CODING PRACTICE

Exercise 2.1 Healthcare Payers

1. most people age 65 and over, people of any age with end stage renal disease (ESR
    D), and people with disabilities

2. low income families

3. group, self-insured, individual

Exercise 2.2 Documentation

1. establishing the medical need for services

2. Student answers will vary and should include three of the following: improve a
    patient's condition, evidence-based practice, rendered by appropriate provider, least
    restrictive setting.

3. The medical record is the comprehensive collection of all information on a patient at
    a particular facility. Progress notes are the record of a specific patient encounter.

Exercise 2.3 Life Cycle Of An Insurance Claim

1. It is the time when providers begin collecting insurance information.

2. The computer automatically determines which procedure codes are covered and
    how much the insurance company is obligated to pay, and then triggers the
    payment.

3. Student answers will vary and should include three of the following: Characters in a
    code are mistyped, creating an invalid code.
    Codes have too many or too few characters.

Diagnosis does not match the procedure.

Codes are sequenced incorrectly.

Additional codes required by the Guidelines or Instructional Notes are missing.

Patient age or gender does not match the diagnosis or procedure.

The services described in one code are included (bundled) into another reported code.

A CPT procedure code requires a modifier in order to be paid.

Exercise 2.4 Reimbursement Methods

1. Negotiated fee schedule is a fee schedule in which the payer specifies the percentage of the provider's fee schedule it considers to be acceptable.

2. Prospective payment system is a reimbursement method in which payment is made based on a predetermined, fixed amount per case.

3. Capitation is a prospective payment method in which physicians are paid a fixed amount per month for each member assigned to them, regardless of whether that person requests services.

Exercise 2.5 Healthcare Claims

1. Version 5010A1 is the current version of the electronic standards for healthcare transactions.

2. CMS-1500 is used to bill physician services.

3. 837P is the electronic format used to bill physician services.

4. UB-04 or CMS-1450 is the claim form used to bill inpatient hospital services

5. 837I is the electronic format used to bill inpatient hospital services.

Exercise 2.6 Federal Compliance

1. When providers are overpaid they are legally obligated to report the overpayment to Medicare, to refund the money, and may even have to pay interest on it.

2. Overcoding is coding for a more complex diagnosis or procedure than is documented

3. False Claims Act (FCA)

Exercise 2.7 Health Information Technology

1. Any five of the following are acceptable:

   Code first

   Diagnosis-procedure mismatch

   Invalid characters (I and O in PCS)

   Manifestation codes

   Medicare medical necessity

   Mutually exclusive diagnoses

   Mutually exclusive procedures

   Patient age

   Patient gender

   Seven characters required (PCS)

   Unacceptable principal diagnosis

   Use additional code

   Use additional digit(s)

2. Student answers will vary but should include the concept that coders need to understand what information they must give the software in order for it to provide

accurate feedback. An untrained user can make coding errors with an encoder, just as they would using the physical manuals.

3. Student answers will vary but should resemble the following examples:

   A physician can view medications prescribed by other providers to avoid duplication or medication interactions.

   An emergency department can access a patient's medical history to more quickly identify a problem.

   A provider can access imaging studies that may help explain the progression of a patient's condition.

4. An encoder requires people to conduct an electronic search for each individual code to be assigned, whereas CAC automatically generates codes based on documentation.

5. Student answers will vary but should include the concept that technology elevates coders' professionalism and enables them to focus on tasks requiring judgment and critical thinking, while computers assist them with the repetitive tasks.

CONCEPT QUIZ

Completion

1. Part A
2. Medigap
3. TC (Tricare)
4. Family history
5. DRG
6. RA

7. Fraud

8. Abuse

9. OIG

10. compliance

Multiple Choice

1. A

2. B

3. D

4. A

5. A

6. C

7. A

8. C

9. C

10. B

CHAPTER 3: INTRODUCTION TO I C D-10-C M DIAGNOSIS CODING

CODING PRACTICE

Exercise 3.1 Organization of ICD-10-CM

1. category

2. code

3. block

4. code (Entries that require a seventh character are referred to as codes, not subcategories, even though they are not complete without the seventh character. Entries that require a fourth, fifth, or sixth character are called subcategories.)

5. code

6. subcategory

7. category

8. code

9. block

10. subcategory

Exercise 3.2 Conventions: Exclusion Notes

1. Don't use together (Instructional note at G43.0 states: Excludes1 chronic migraine without aura (G43.7-))

2. Don't use together (Instructional note at D56.1 states: Excludes1sickle-cell beta thalassemia (D57.4-))

3. OK

4. OK

5. 5. Don't use together (Instructional note at O04 states: Excludes1 failed attempted termination of pregnancy (O07.-))

6. Don't use together (Instructional note at R22.2 states: Excludes1 intra-abdominal or pelvic mass and lump (R19.0-), intra-abdominal or pelvic swelling (R19.0-))

7. OK

8. OK

9. Don't use together (Instructional note at S83 states: Excludes1 internal derangement of knee (M23.-))

10. Don't use together (Instructional note at T38.0 states: Excludes1: glucocorticoids, topically used (T49.-))

Exercise 3.3 Conventions: Use Additional Characters, Extensions, and Placeholders

1. Correct

2. Incorrect, should be E66.01

3. Incorrect, should be G43.101

4. Incorrect, should be I48.91

5. Incorrect, should be O31.01X1

6. Correct

7. Incorrect, should be S71.151S

8. Incorrect, should be S84.22XA

9. Incorrect, should be S72.022K

10. Incorrect, should be T59.6X1D

Exercise 3.4 Locating the Main Term

1. Wound, open, ear

2. Deprivation, water

3. Infection, urinary

4. Chickenpox, see Varicella

5. Fever, blackwater

6. Infection, gallbladder, see Cholecystitis

7. Malaria, quartan, see Malaria, malariae

8. Disease, cerebrovascular

9. Failure, congestive, see Failure, heart, congestive

10. Diabetes, type 1

Exercise 3.5 Abstracting, Assigning, and Arranging Diagnosis Codes

1.

   a. Syndrome

   b. toxic shock

   c. A48.3

   d. no

   e. Use additional code to identify the organism (B95, B96)

   f. Streptococcus A

   g. no

   h. Includes: diseases generally recognized as communicable or transmissible

   i. no

   j. B95

   k. B95.0

   l. yes

   m. A48.3

   n. B95.0

CONCEPT QUIZ

Completion

1. ( )

2. Excludes1

3. -

4. [ ]

5. with

6. X

7. Excludes2

8. code first

9. use additional code

10. see

Multiple Choice

1. A

2. C

3. B

4. A

5. A

6. B

7. A

8. A

9. D

10. D

KEEP ON CODING

1. **M21.42** (Flat, foot, see Deformity, limb, flat foot, left)

2. **Z51.12** (Encounter, immunotherapy for neoplasm)

3. **L89.323** (Ulcer, pressure, buttock; Tabular: left, stage 3)

4. **F10.20** (Dependence, alcohol)

5. **M25.122** (Fistula, joint, elbow; Tabular: left)

6. **Z81.1** (History, family, alcohol abuse)

7. **Z68.38** (Body, mass index, adult, 38.0-38.9)

8. **I10** (Hypertension)

9. **I69.391** (Dysphagia, following, cerebrovascular disease, cerebral infarction; Tabular: Use additional code to identify the type of dysphagia, if known (R13.1-))

   R13.10 (Dysphagia; Tabular: Code first, if applicable, dysphagia following cerebrovascular disease (I69. with final characters -91))

10. **R10.824** (Pain, abdominal, rebound, see Tenderness, abdominal, rebound, left lower quadrant)

11. **R29.6** (Repeated falls NEC)

12. **C4A.11** (Carcinoma, Merkel cell, eyelid; Tabular: right)

13. **G89.3** (Pain, due to malignancy)

14. **E11.9** (Diabetes, type 2)

15. **S90.562D** (Bite, ankle, superficial, insect; Tabular: left, subsequent encounter)

16. **T25.711A** (Burn, chemical, see corrosion by site; Corrosion, ankle, right, third degree; Tabular: initial encounter)

17. **Q70.23** (Fused, see Fusion, fused; Fusion, toes; Tabular: bilateral)

18. **N30.21** (Cystitis, chronic, with hematuria)

19. **B59** (Pneumonia, pneumocystis)

20. **D64.9** (Anemia)

21. **Z01.83** (Encounter, blood typing)

22. **J95.851** (Pneumonia, ventilator associated)

23. **B85.0** (Lice, head)

24. **O40.2XX3** (Polyhydramnios; Tabular: second trimester, fetus 3)

25. **H60.501** (Otitis, externa, acute; Tabular: right)

CODING CHALLENGE

1.

    a. shortness of breath

    b. Chronic combined systolic and diastolic heart failure; hypertension

2.

    a. yes

    b. no

    c. do not code for symptoms that are integral to the condition diagnosed

    d. hypertension

3.

    a. **I11.0**

    b. no

4.

    a. Use additional code to identify type of heart failure (I50.-)

    b. first

5.

   a. Patient is a current and long-term tobacco user

   b. Use additional code to identify tobacco use (Z72.0).

   c. no

6.

   a. **I50.-**

   b. additional characters required

7.

   a. **I50.4**

   b. **I50.42**

8. Heart failure due to hypertension (I11.0)

9. **Z72.0**

10.

   a. **I11.0**

   b. **I50.42**

   c. **Z72.0**

CHAPTER 4: SYMPTOMS, SIGNS, AND ABNORMAL CLINICAL AND LABORATORY FINDINGS, NOT ELSEWHERE CLASSIFIED (R00-R99)

CODING PRACTICE

Exercise 4.1 Symptoms and Signs Refresher

1. dys/pnea difficulty breathing, R06.00

2. noct/uria urination at night, R35.1

3. a/phag/ia unable to swallow, R13.0

4. epi/staxis bleeding from above (nosebleed), R04.0

5. lymph/adeno/pathy abnormal condition of lymph nodes, R59.1

6. hyper/emesis excessive vomiting, R11.10

7. hyp/ox/emia low oxygen in the blood, R09.02

8. cyan/osis yellow skin, R23.0

9. glycos/uria sugar in urine, R81

10. tachy/card/ia rapid heartbeat, R00.0

Exercise 4.2 Abstracting Symptoms and Signs

1.

    a. no

    b. abnormal laboratory test

    c. abnormal

2.

    a. irregular heartbeat, chest pain, and lightheadedness

    b. yes

    c. yes

    d. none

    e. atrial fibrillation

3.

    a. no

    b. seizures

    c. seizures

4.

    a. polydipsia, polyuria, difficulty sleeping, hyperglycemia

    b. yes, type 2 diabetes

    c. yes, sleep apnea

    d. no, symptoms and signs

    e. polydipsia, polyuria, hyperglycemia

    f. difficulty sleeping

    g. type 2 diabetes, difficulty sleeping

5.

    a. extreme nervousness and irritability

    b. uncertain condition the physician wants to confirm or eliminate from the final assessment

    c. no

    d. yes, hyperthyroidism

    e. nervousness and irritability

6.

    a. epigastric pain

    b. no

    c. acute pancreatitis or cholangitis

Exercise 4.3 Assigning Codes for Symptoms and Signs

1. **R94.5** (Abnormal, function studies, liver)

2. **I48.91** (Fibrillation, atrial)

3. **R56.9** (Seizures)

Exercise 4.4 Arranging Codes for Symptoms and Signs

1. **E11.9** (Diabetes, type 2)

   G47.9 (Sleep, disorder or disturbance)

2. **R45.0** (Nervousness)

   R45.4 (Irritability)

3. **K85.90** (Pancreatitis, acute)

   K83.0 (Cholangitis)

CONCEPT QUIZ

Completion

1. symptom

2. integral

3. uncertain

4. clinical

5. sign

6. related

7. uncertain

8. unrelated

9. abnormal

10. inpatient

Multiple Choice

1. A

2. C

3. B

4. B

5. B

6. A

7. A

8. D

9. A

10. D

KEEP ON CODING

1. **R10.823** (Tenderness, abdominal, rebound, right lower quadrant)

2. **R93.2** (Nonvisualization, gallbladder)

3. **R12** (Heartburn)

4. **R19.11** (Absence, bowel sounds)

5. **R00.1** (Slow, heart)

6. **R46.3** (Overactivity)

7. **R44.0** (Hallucination, auditory)

8. **R04.0** (Nosebleed)

9. **R06.02** (Shortness, breath)

10. **K85.90** (Pancreatitis. Instructional note at R65.10: Code first underlying condition.

    R65.10 (Syndrome, systemic inflammatory response (SIRS))

11. **R61** (Sweating, excessive)

12. **R62.0** (Late, walker)

13. **R19.4** (Change, bowel habit)

14. **R01.1** (Murmur)

15. **R40.2123** (Coma, with, opening of eyes, in response to, pain)

    R40.2233 (Coma, with, verbal response, inappropriate words)

    R40.2343 (Coma, with, motor response, flexion with withdrawal)

    R40.2423 (Glasgow coma scale, total score, 9-12)

16. **R78.2** (Findings, in blood, cocaine)

17. **R41.81** (Decline, cognitive, age associated)

18. **R39.198** (Urine, stream intermittent)

19. **R49.0** (Hoarseness)

20. **R79.81** (Abnormal, blood-gas level)

21. **R09.2** (Arrest, respiratory)

22. **R26.81** (Unsteadiness on feet)

23. **R93.2** (Abnormal, scan, liver)

24. **R62.51** (Failure, gain, weight)

25. **R56.00** (Seizure, febrile)

CODING CHALLENGE

1. **R92.0** (Abnormal mammogram, microcalcifications)

2. **R91.8** (Abnormal, diagnostic imaging, lung)

3. **R75** (HIV, laboratory evidence or Test, HIV, nonconclusive)

4. **R06.7** (Sneezing)

    R09.89 (Scratchy throat)

    R09.82 (Drip, postnasal)

5. **M51.16** (Hernia, intervertebral disc, see Displacement, intervertebral disc, lumbar region, with sciatica)

6. **R87.614** (Abnormal, Papanicolaou (smear), cervix, with cytologic evidence of malignancy)

7. **E88.81** (Resistance, insulin)

8. **R51** (Headache, daily chronic)

9. **I50.9** (Failure, heart, congestive)

10. **E55.9** (Deficiency, vitamin, D)

CHAPTER 5: NEOPLASMS (C00-D49)

CODING PRACTICE

Exercise 5.1 Neoplasm Refresher

1. osteo/sarc/oma malignant neoplasm of bone and connective tissue

2. leio/my/oma neoplasm of smooth muscle

3. lip/oma neoplasm of fatty tissue

4. lipo/sarc/oma malignant neoplasm of fatty tissue

5. aden/oma neoplasm of a gland

6. adeno/carcin/oma cancerous neoplasm of a gland

7. oste/oma neoplasm of bone

8. melan/oma neoplasm of pigmented cells

9. neuro/blast/oma neoplasm of immature nerve cells

10. lymph/oma neoplasm of lymph glands

Exercise 5.2 Abstracting Diagnoses for Neoplasms

1.

    a. right breast, lower outer quadrant

    b. yes, brain

    c. no

    d. chemotherapy

2.

    a. a therapeutic procedure blocking the flow of blood

    b. benign tumor of smooth muscle

    c. uterus

    d. benign

3.

    a. fundus of the stomach

    b. the top portion of the curve, the upper part of the stomach next to the cardia

    c. no

    d. no

    e. review results of biopsy and CT scan

4.

    a. left thigh

    b. b.no

    c. none

    d. surgery to remove tumor

    e. femur

5.

    a. classical lymphocyte depleted Hodgkin lymphoma

    b. no

    c. anemia

    d. anemia

6.

    a. squamous cell carcinoma of the lung

    b. yes, brain stem

    c. brain stem

    d. targeted delivery of stereotactic (using 3-D coordinates) radiation to the tumor

Exercise 5.3 Assigning Codes for Neoplasms

1. **D25.1** (Leiomyoma, uterus, intramural)

2. **C40.22** (Osteosarcoma, see Table of Neoplasms, bone, femur, malignant primary, Tabular List: left)

3. **C16.1** (Adenocarcinoma, *see also* Neoplasm, Malignant, by site; Table of Neoplasms, stomach, fundus, malignant primary)

Exercise 5.4 Arranging Codes for Neoplasms

1. **Z51.11** (Chemotherapy, neoplasm)

  C50.511 (Table of Neoplasms, breast, lower outer quadrant, malignant primary, Tabular List: right)

  C79.31 (Table of Neoplasms, brain, overlapping lesion, malignant secondary)

2. **C79.31** (Table of Neoplasms, brain, stem, malignant secondary)

  C34.90 (Table of Neoplasms, lung, malignant primary)

3. **C81.30** (Lymphoma, Hodgkin, classical, lymphocyte depleted, unspecified site)

   D63.0 (Anemia, in, neoplastic disease)

CONCEPT QUIZ

Completion

1. topography

2. histology

3. metastasis or secondary neoplasm

4. staging

5. adjuvant

6. chemotherapy

7. CA in situ

8. overlapping

9. grading

10. malignant

Multiple Choice

1. C

2. B

3. D

4. B

5. B

6. B

7. D

8. D

9. A

10. D

KEEP ON CODING

1. **D02.0** (Table of Neoplasms, vocal cords, false, CA in situ)

2. **D10.30** (Table of Neoplasms, mouth benign)

3. **D3A.093** (Tumor, carcinoid, benign, kidney)

4. **C45.7** (Mesothelioma, site classification, lung)

5. **C79.31** (Table of Neoplasms, brain, parietal lobe, malignant secondary)

6. **D12.6** (Polyp, colon, adenomatous)

7. **D35.1** (Adenoma, chief cell)

8. **B20** (Human, immunodeficiency virus disease)

   C46.4 (Kaposi's, sarcoma, stomach)

9. **C44.612** (Table of Neoplasms, skin, hand, malignant primary, Tabular List: right)

10. **C43.59** (Melanoma, skin, abdominal wall)

11. **C50.011** (Table of Neoplasms, breast, nipple, female, Tabular List: right)

12. **C82.45** (Lymphoma, follicular, grade, Ⅲb, inguinal region)

13. **C95.02** (Leukemia, unspecified cell type, acute, in relapse)

14. **C43.62** (Melanoma, skin, forearm, Tabular List: left)

15. **D06.7** (Table of Neoplasms, cervix, stump, CA in situ)

16. **Z80.3** (History, family, malignant neoplasm, breast)

17. **Z85.841** (History, personal, malignant neoplasm, brain)

18. **C34.82** (Table of Neoplasms, lung, overlapping lesion, malignant primary, Tabular List: left)

19. **Z51.11** (Chemotherapy, neoplasm)

    C56.9 (Table of Neoplasms, ovary, malignant primary, unspecified)

20. **C25.1** (Table of Neoplasms, pancreas, body, malignant primary)

21. **C79.51** (Table of Neoplasms, rib, malignant, secondary)

22. **C69.92** (Table of Neoplasms, intraocular, malignant primary, Tabular List: left)

    D63.0 (Anemia, in, neoplastic disease)

23. **C78.7** (Table of Neoplasms, liver, malignant secondary)

    C80.1 (Table of Neoplasms, unknown site or unspecified, malignant primary)

24. **D39.2** (Hydatidiform mole, malignant)

25. **C07** (Table of Neoplasms, parotid, malignant primary)

    C79.51 (Table of Neoplasms, bone, spine, malignant secondary)

CODING CHALLENGE

1. **C90.01** (Myeloma, in remission)

2. **D11.0** (Table of Neoplasms, salivary gland, parotid, benign)

3. **D01.0** (Table of Neoplasms, intestine, large, colon, sigmoid, in situ)

4. **C43.39** (Melanoma, skin, forehead)

5. **D04.5** (Table of Neoplasms, skin, breast, in situ)

6. **Z51.0** (Radiation, therapy, encounter for)

    C78.01 (Table of Neoplasms, lung, malignant secondary, Tabular List: right)

    C80.1 (Table of Neoplasms, [first row] malignant primary)

7. **D13.7** (Islet cell tumor, pancreas)

8. **Z12.11** (Screening, colonoscopy)

   Z85.038 (History, personal, malignant neoplasm, colon, NEC)

9. **C25.9** (Table of Neoplasms, pancreas, malignant primary)

   C79.9 (Table of Neoplasms, [first row] malignant secondary

10. **E87.1** (Hyponatremia or Dehydration, hypotonic)

   C56.1 (Table of Neoplasms, ovary, malignant primary, Tabular List: right)

   C56.2 (Table of Neoplasms, ovary, malignant primary, Tabular List: left)

   C79.9 (Table of Neoplasms, [first row] malignant secondary)

CHAPTER 6: FACTORS INFLUENCING HEALTH STATUS AND CONTACT WITH HEALTH SERVICES (Z00-Z99)

CODING PRACTICE

Exercise 6.1 Introduction to Z Codes

1. Student answers will vary and may include any of the following:

   aftercare

   counseling

   follow up

   immunizations

   observation

   obstetrics

   routine or administrative examinations (pre-employment, annual check-up)

   screening examinations (colonoscopy, mammogram).

2.

a. OGCR I.C.21.c.1)

b. OGCR I.C.21. c.3)

c. OGCR I.C.21. c.7)

d. OGCR I.C.21. c.13)

3.

a. Screening

b. Donor

c. Non-specific

d. History

Exercise 6.2. Abstracting for Z Codes

1.

a. annual medical examination

b. no

2.

a. Supervision of normal second pregnancy, third trimester

b. no

3.

a. adjustment of cardiac pacemaker

b. no

4.

a. normal mammogram, both breasts

b. no

c. personal history of breast cancer

5.

    a. 6-month follow up for malignant neoplasm of prostate

    b. no

    c. malignant neoplasm of prostate

    d. personal history

    e. prostate

6.

    a. angina pectoris

    b. no

    c. tobacco use

Exercise 6.3. Assigning Z Codes

1. **Z00.00** (Examination, annual)

2. **Z34.83** (Pregnancy, supervision of, normal, specified NEC, third trimester)

    Z3A.34 (Pregnancy, weeks of gestation, 34 weeks)

3. **Z45.018** (Fitting and adjustment of, pacemaker)

Exercise 6.4. Arranging Z Codes

1. **Z12.31** (Screening, neoplasm, breast, routine mammogram)

    Z85.3 (History, personal, malignant neoplasm, breast)

2. **Z08** (Examination, following, treatment (for), malignant neoplasm)

    Z90.79 (Absence, prostate)

    Z85.46 (History, personal, malignant neoplasm, prostate)

3. **I20.0** (Angina, unstable)

    Z72.0 (Tobacco, use)

CONCEPT QUIZ

Completion

1. Screening

2. Personal history

3. Observation

4. Counseling

5. Routine and administrative examinations

6. Aftercare

7. Family history

8. Miscellaneous

9. Follow-up

10. Obstetrical and reproductive

Multiple Choice

1. D

2. B

3. A

4. C

5. A

6. B

7. D

8. A

9. D

10. C

KEEP ON CODING

1. **Z32.02** (Encounter, pregnancy, test, result negative)

2. **Z67.30** (Blood, type, AB, Rh positive)

3. **Z01.20** (Examination, dental)

4. **Z53.20** (Canceled procedure, because of, patient's decision)

5. **Z94.1** (Transplant, heart)

6. **Z99.2** (Dialysis, renal, status

7. **Z45.819** (Encounter, removal, breast implant)

8. **Z53.31** (Procedure, converted, laparoscopic to open)

9. **Z83.3** (History, family, diabetes mellitus)

10. **Z87.891** (History, personal, tobacco dependence)

11. **Z02.81** (Encounter, administrative, examination for, paternity testing)

12. **O09.92** (Pregnancy, supervision, high risk, 2nd trimester)

    Z3A.20 (Pregnancy, weeks of gestation, 20)

13. **Z38.00** (Newborn, born in hospital)

14. **Z72.3** (Lack of, physical exercise)

15. **Z79.1** (Long-term, anti-inflammatory, non-steroidal)

16. **Z91.013** (Allergy, food, status, seafood)

17. **Z98.2** (Presence, CSF shunt)

18. **Z78.1** (Status, physical restraint)

19. **Z66** (DNR)

20. **Z59.0** (Homelessness)

21. **Z33.1** (State, pregnant, incidental)

22. **Z87.442** (History, personal, kidney stones)

23. **Z14.1** (Carrier, genetic, cystic fibrosis)

24. **Z91.412** (History, personal, neglect, adult)

25. **Z00.121** (Examination, child, abnormal findings)

CODING CHALLENGE

1. **Z38.01** (Newborn, born in hospital, by cesarean)

2. **Z51.11** (Chemotherapy, cancer)

   E86.0 (Dehydration)

   C34.91 (Table of Neoplasms, lung, Tabular List: right)

   C34.92 (Table of Neoplasms, lung, Tabular List: left)

3. **Z08** (Examination, follow-up, malignant neoplasm)

   Z90.710 (Absence, uterus)

   Z85.42 (History, personal, malignant neoplasm, uterus)

4. **C67.9** (Table of Neoplasms, bladder, primary)

   Z51.0 (Radiation, therapy, encounter for)

5. **Z02.5** (Examination, physical, sports)

6. **Z28.01** (Immunization, not done, acute illness of patient)

   J00 (Cold, common)

7. **Z52.4** (Donor, kidney)

8. **Z00.129** (Examination, child)

   Z23 (Immunization, encounter for)

9. **O80** (Delivery, normal)

   Z3A.39 (Pregnancy, weeks of gestation, 39 weeks)

Z37.0 (Outcome of delivery, single, liveborn)

10. **I25.9** (Disease, heart, ischemic)

   F17.210 (Smoker, *See* Dependence, drug, nicotine, cigarettes)

   Z79.01 (Long term drug therapy, anticoagulants)

CHAPTER 7: EXTERNAL CAUSES OF MORBIDITY (V00-Y99)

CODING PRACTICE

Exercise 7.1 Abstracting for External Causes

1.

   a. 3 cm laceration on forehead

   b. fell off toilet and hit her head on the sink

   c. initial

2.

   a. second degree burn to the right hand

   b. touching hot stove

   c. initial

3.

   a. malunion of non-displaced comminuted fracture, left femur shaft.

   b. assault by handgun

   c. subsequent

4.

   a. acute myocardial infarction

   b. physical exertion

c. initial

d. driveway of single family home

e. shoveling snow

f. leisure

5.

a. fractured scapula, left side

b. traffic accident, while driving a van

c. subsequent

d. unknown

e. driving

f. van

g. driver

h. pickup truck

i. volunteer

6.

a. puncture wound, left calf

b. dog bite

c. initial

d. public sidewalk

e. walking

f. civilian work

Exercise 7.2 Assigning Codes for External Causes

1. **S01.81XA** (Laceration, forehead, initial encounter)

   Index to External Causes:

   W18.12XA (Fall, off toilet, with subsequent striking against object, initial encounter)

2. **T23.201A** (Burn, hand, right, second degree, initial encounter)

   Index to External Causes:

   X15.0XXA (Burn, stove, initial encounter)

3. **S72.355P** (Fracture, traumatic, femur, shaft, comminuted, nondisplaced, left, subsequent, closed, malunion)

   Index to External Causes:

   X93.XXXD (Assault, firearm, handgun, subsequent encounter)

Exercise 7.3 Arranging Codes for External Causes

1. **I21.3** (Infarction, myocardium)

   Index to External Causes:

   Y92.014 (Place, residence, house, driveway)

   Y93.H1 (Activity, snow, shoveling)

   Y99.8 (Status, Other)

2. **S42.112P** (Fracture, scapula, body, displaced, left, subsequent encounter for fracture with malunion)

   Index to External Causes:

   V53.5XXD (Accident, transport, van occupant, driver, collision with, pickup truck, subsequent encounter)

3. **S81.832A** (Puncture, leg, lower, left, initial encounter)

   Index to External Causes:

   W54.0XXA (Bite, dog)

   Y92.480 (Place, sidewalk)

   Y93.01 (Activity, walking)

   Y99.0 (Status, civilian activity done for pay)

CONCEPT QUIZ

Completion

1. intent

2. adverse effect

3. activity

4. external cause

5. status

6. initial

7. misadventure

8. status

9. causal event

10. traffic accidents

Multiple Choice

1. D

2. D

3. B

4. B

5. C

6. A

7. B

8. A

9. D

10. A

KEEP ON CODING

1. **V93.14XA** (Burn, on board watercraft, due to, specified heat source, sailboat, initial)

2. **Y93.45** (Activity, cheerleading)

3. **W29.3XXD** (Contact, with, chain, saw, subsequent)

4. **W21.04XS** (Struck by, ball, golf ball, sequela)

5. **X83.1XXA** (Suicide, electrocution, initial)

6. **W55.51XA** (Bite, raccoon, initial)

7. **W89.1XXS** (Exposure, sunlight, man-made, tanning bed, sequela)

8. **Y65.51** (Procedure, wrong, performed on correct patient)

9. **Y24.0XXA** (Discharge, air gun, stated as undetermined, initial)

10. **W42.9XXD** (Exposure, noise, subsequent)

11. **X15.1XXA** (Contact, with toaster, initial)

12. **Y23.1XXA** (Discharge, firearm, hunting rifle, stated as undetermined, initial)

13. **Y63.0** (Misadventure, excessive, transfusion)

14. **Y04.1XXA** (Bite, person, assault, initial)

15. **Y21.3XXA** (Drowning, following, fall, into, swimming pool, stated as undetermined, initial)

16. **Y90.3** (Blood alcohol level, 60-79 mg/ml)

17. **W17.0XXD** (Fall, into, well, subsequent)

18. **W00.1XXA** (Fall, due to, ice, on stairs, initial)

19. **W61.11XA** (Contact, with, macaw, bite, initial)

20. **V28.0XXA** (Accident, transport, motorcyclist, driver, noncollision, nontraffic, initial)

21. **W12.XXXA** (Fall, from scaffolding, initial)

22. **X37.2XXD** (Forces of nature, blizzard, subsequent)

23. **V00.111D** (Accident, transport, pedestrian, conveyance, roller skates, in-line, fall, subsequent)

24. **Y92.017** (Place of occurrence, residence, house, garden)

25. **Y62.3** (Misadventure, failure, sterile precautions during procedure, injection)

CODING CHALLENGE

1. **S06.0X0A** (Concussion, without loss of consciousness, initial encounter)

   S52.501A (Fracture, traumatic, radius, lower end, right, initial encounter)

   Index to External Causes:

   V03.10XA (Accident, transport, pedestrian, on foot, collision, car, traffic, initial encounter)

   Y92.414 (Place, street, local residential or business)

   Y93.01 (Activity, walking)

   Y99.8 (Status, other)

2. **R00.1** (Bradycardia)

   T68.XXXA (Hypothermia, initial encounter)

   R09.02 (Hypoxemia)

   Index to External Causes:

   V92.05XA (Drowning, fall overboard, unpowered craft, canoe, initial encounter)

   X31.XXXA (Exposure to, excess natural cold, initial encounter)

   Y92.828 (Place, lake)

   Y93.16 (Activity, canoeing)

   Y99.0 (Status, civilian for pay)

3. **S43.121A** (Dislocation, acromioclavicular, with displacement, 100-200%)

   Index to External Causes:

   V27.4XXA (Accident, transport, motorcyclist, driver, stationery object, traffic)

   Y92.411 (Place, freeway)

   Y93.C2 (Activity, cellular communication device)

4. **M17.0** (Osteoarthritis, knee, bilateral)

   Index to External Causes:

   Y65.53 (Inappropriate operation performed, correct operation on wrong side of body part)

5. **S27.331A** (Injury, intrathoracic, lung, laceration, unilateral, initial encounter)

   Index to External Causes:

   X99.1XXA (Assault, cutting or piercing instrument, knife initial encounter)

   Y92.830 (Place, park)

6. **S36.33XA** (Injury, stomach, laceration, initial encounter)

   Index to External Causes:

   V14.4XXA (Accident, transport, pedal cyclist, driver, collision with, bus, traffic, initial encounter)

   Y92.481 (Place, parking garage, lot)

   Y93.55 (Activity, bike riding)

   Y99.8 (Status, other)

7. **S06.0X1A** (Concussion, with loss of consciousness of 30 minutes or less, initial encounter)

   Index to External Causes:

   Y35.311A (Legal, intervention, blunt object, baton, injuring lase enforcement personnel, initial encounter)

   Y99.0 (Status, civilian activity done for pay)

8. **T67.0XXA** (Heat, stroke, initial encounter)

   R40.1 (Stupor)

   Index to External Causes:

   X30.XXXA (Exposure to, excessive, heat, initial encounter)

   Y92.832 (Place, beach)

   Y99.0 (Status, civilian activity, done for pay)

9. **S33.5XXD** (Sprain, lumbar, subsequent encounter)

   Index to External Causes:

   W18.40XD (Slipping, without fall, subsequent encounter)

10. **S61.041A** (Puncture, thumb, right, with, foreign body, initial encounter)

   Index to External Causes:

   W29.4XXA (Contact, nail, gun, initial encounter)

   W45.0XXA (Foreign body entering through skin, nail, initial encounter)

   Y93.H3 (Activity, construction)

   Y99.0 (Status, civilian activity, done for pay)

CHAPTER 8: DISEASES OF THE DIGESTIVE SYSTEM (K00-K94)

CODING PRACTICE

Exercise 8.1 Digestive System Refresher

1. ile/us pertaining to the ileum, K56.7

2. hemat/eme/sis pertaining to the vomiting of blood, K92.0

3. gingiv/itis inflammation of the gums, K05.10

4. volvul/us pertaining to rolling, K56.2

5. stomat/itis inflammation of the mouth, K12.1

6. hepat/oma tumor of the liver, C22.0

7. diverticul/itis inflammation of diverticula, K57.92

8. divertercul/osis condition of diverticula, K57.90

9. proct/itis inflammation of the anus and rectum, K62.89

10. chol/ang/itis inflammation of the bile duct, K83.0

Exercise 8.2 Abstracting for Digestive System Conditions

1.

   a. indigestion

b. stomach

c. perforation, bleeding

d. chronic

e. no, indigestion is integral to a perforated ulcer

f. chronic perforated peptic ulcer in stomach with bleeding

2.

a. groin

b. unilateral

c. yes

d. no

e. no

3.

a. GI series

b. no, it is not being performed during this encounter

c. ulcerative

d. fistula

e. ulcerative colitis with fistula

4.

a. abdominal pain and bloating, fatigue, vomiting

b. liver

c. ascites

d. alcohol

e. alcohol addiction

f.   no, they are integral to the condition

g.   alcoholic liver cirrhosis with ascites, alcoholism

5.

a.   hematemesis

b.   present, cirrhosis is not curable

c.   portal hypertension

d.   portal hypertensive gastropathy

e.   no, they are integral to the condition

f.   yes, it is coexisting condition that the physician documents

g.   portal hypertension

6.

a.   redness and tenderness around colostomy site

b.   colostomy infection, cellulitis

c.   methicillin susceptible staphylococcus aureus (MSSA)

d.   no, redness and tenderness are integral to an infection

Exercise 8.3 Assigning Codes for Digestive System Conditions

1.   **K25.6** (Ulcer, stomach, chronic, with hemorrhage, and perforation)

2.   **K40.91** (Hernia, inguinal, unilateral, recurrent)

3.   **K51.913** (Colitis, ulcerative, with, complication, fistula)

4.   **K58.0** (Irritable, bowel, with diarrhea)

5.   **K57.53** (Diverticulitis, intestine, large, with, small intestine, with bleeding)

Exercise 8.4 Arranging Codes for Digestive System Conditions

1. **K70.31** (Cirrhosis, liver, alcoholic, with ascites)

   F10.20 (Alcohol, addiction)

2. **K76.6** (Hypertension, portal)

   K31.89 (Hypertension, portal, gastropathy)

   K74.60 (Cirrhosis)

3. **K94.02** (Infection, colostomy)

   L03.311 (Cellulitis, abdominal wall)

   B95.61 (Infection, bacterial, as cause of disease classified elsewhere,

   staphylococcus, aureus)

4. **K62.81** (Tear, anus, nontraumatic)

   R15.9 (Incontinence, feces)

5. **K02.52** (Caries, dental, pit and fissure surface, penetrating into dentin)

   K02.51 (Caries, dental, pit and fissure surface, limited to enamel)

Exercise 8.5 Coding Neoplasms of the Digestive System

1. **D12.5** (Poylp, colon, sigmoid)

   Z86.010 (History, personal, neoplasm, benign, colon polyp)

   Z80.0 (History, family, malignant neoplasm, gastrointestinal tract)

2. **C18.8** (Table of Neoplasms, intestine, large, colon, overlapping lesion, malignant

   primary)

3. **C22.0** (Cancer, hepatocellular)

   F10.20 (Dependence, alcohol)

   B18.2 (Hepatitis, C, chronic)

4. **D01.2** (Table of Neoplasms, rectum, Ca in situ)

5. **C25.9** (Table of Neoplasms, pancreas, malignant primary)

   C78.7 (Table of Neoplasms, liver, secondary)

   C77.9 (Table of Neoplasms, lymph, gland, malignant secondary)

CONCEPT QUIZ

Completion

1. col/o

2. cholecyst/o

3. hepat/o

4. ile/o

5. fund/o

6. combination coding

7. multiple coding

8. instructional notes

9. liver

10. multiple coding

Multiple Choice

1. C

2. B

3. A

4. D

5. D

6. C

7. A

8. B

9. B

10. D

KEEP ON CODING

1. **C06.0** (Table of Neoplasms, buccal, mucosa, malignant primary)

2. **K03.2** (Erosion, teeth)

3. **K94.11** (Complication, enterostomy, hemorrhage)

4. **K86.2** (Cyst, pancreas)

5. **K11.6** (Cyst, salivary gland or duct)

6. **K22.0** (Cardiospasm)

7. **C02.9** (Table of Neoplasms, tongue, malignant primary)

   Z87.891 (History, personal, tobacco dependence)

8. **K82.1** (Hydrops, gallbladder)

9. **K05.00** (Gingivitis, acute)

10. **K20.0** (Esophagitis, eosinophilic)

11. **K13.3** (Leukoplakia, hairy)

12. **K43.2** (Hernia, incisional)

13. **K35.30** (Appendicitis, acute, with peritonitis, localized)

14. **K51.014** (Pancolitis, with abscess)

15. **K64.2** (Hemorrhoids, 3rd degree)

16. **K59.01** (Constipation, slow transit)

17. **K80.10** (Calculus, gallbladder, with cholecystitis, chronic)

18. **K91.82** (Failure, hepatic, postprocedural)

19. **K13.0** (Cheilosis)

20. **K22.11** (Ulcer, esophagus, with bleeding)

21. **K08.3** (Retention, dental root)

22. **K14.6** (Glossodynia)

23. **K70.31** (Cirrhosis, alcoholic, with ascites)

    F10.20 (Dependence, alcohol)

24. **C15.8** (Table of Neoplasms, esophagus, overlapping lesion, malignant primary)

    F17.218 (Dependence, drug, nicotine, cigarettes, with disorder, specified disorder NEC)

25. **K66.1** (Hemoperitoneum)

CODING CHALLENGE

1. **K35.20** (Appendicitis, with perforation or rupture)

2. **K12.31** (Mucositis, mouth, due to antineoplastic therapy)

    T45.1X5A (Table of Drugs and Chemicals, antineoplastic, adverse effect, initial encounter)

    C18.9 (Table of Neoplasms, colon, malignant primary)

    C79.9 (Table of Neoplasms, unknown site or unspecified, malignant secondary)

3. **K44.0** (Hernia, hiatal, with obstruction)

4. **K21.9** (Reflux, gastroesophageal)

5. **K80.43** (Calculus, bile duct, with cholecystitis, acute, with obstruction)

6. **K51.412** (Polyps, colon, inflammatory, with, intestinal obstruction)

7. **K00.5** (Amelogenesis imperfecta)

8. **K52.29** (Gastroenteritis, allergic)

   Z91.012 (Allergy, food, status, eggs)

9. **K85.30** (Pancreatitis, acute, drug induced)

   F11.229 (Dependence, drug, opioid, with intoxication)

10. **K65.0** (Peritonitis, generalized)

   B96.20 (Escherichia coli as cause of disease classified elsewhere)

   K58.9 (Irritable, bowel)

CHAPTER 9: ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES (E00-E89)

CODING PRACTICE

Exercise 9.1 Endocrine System Refresher

1. thyro/toxic/osis condition of thyroid poisoning, E05.90

2. adrenal/itis inflammation of the adrenal gland, E27.8

3. thyro/megaly enlargement of the thyroid, E01.0

4. thyroid/itis inflammation of the thyroid, E06.9

5. hyper /insulin/ism elevated insulin, E16.1

6. hyper/lipid/emia excessive fat in the blood, E78.5

7. pan/hypo/pituitary/ism deficiency in all hormones of the pituitary, E23.0

8. para/thyroid tetany hyperexcitability of nerves and muscles due to removal of

   parathyroid gland, E20.9

9. hypo/para/thyroid/ism pertaining to a low parathyroid gland, E20.9

10. acro/megaly enlargement of the extremities, E22.0

Exercise 9.2 Abstracting for Endocrine System Conditions

1.

    a. diabetes monitoring

    b. type 2

    c. none

    d. none

2.

    a. cold clammy skin and pallor, rapid breathing & heart rate

    b. hypovolemia

    c. hypovolemia. Do not code the symptoms because they are integral to the condition.

3.

    a. hyperthyroidism

    b. overproduction of thyroid stimulating hormone

    c. not stated as such

    d. no

    e. yes

    f. No, do not code the symptoms because they are integral to the condition.

4.

    a. insulin-induced hypoglycemia

    b. secondary

    c. insulin-induced hypoglycemia

    d. chronic pancreatitis

e. yes, it is required for secondary diabetes

f. Long-term drug therapy

g. Pancreatitis, the underlying condition is coded first

5.

a. neuropathy

b. type 2

c. no, documentation states "unrelated"

d. peripheral autonomic neuropathy

e. type 2 diabetes

6.

a. FU on test results

b. proximal muscle weakness, easy bruising, weight gain

c. no, they are integral to Cushing's syndrome

d. benign, adenomas are by definition benign

e. pituitary adenoma

f. Cushing syndrome

g. pituitary adenoma

Exercise 9.3 Assigning Codes for Endocrine System Conditions

1. **E11.9** (Diabetes, type 2)

2. **E86.1** (Hypovolemia)

3. **E05.81** (Thyrotoxicosis, due to, overproduction of throid-stimulating hormone, with thyroid storm)

Exercise 9.4 Arranging Codes for Endocrine System Conditions

1. **K86.1** (Pancreatitis, chronic)

   E08.649 (Diabetes, due to underlying condition, with hypoglycemia, without coma)

   Z79.4 (Long term drug therapy, insulin) or (Therapy, drug, long-term, insulin)

   Optional: Z91.14 (Noncompliance, with, medication regimen NEC) (Note to

   instructors: This code is not mandatory, but would help demonstrate a need for the

   pump.)

2. **G90.9** (Neuropathy, peripheral autonomic)

   E11.9 (Diabetes, type 2)

3. **E24.0** (Cushing's syndrome, pituitary dependent)

   D35.2 (Adenoma (*see also* Neoplasm, benign, by site); Table of Neoplasms,

   pituitary, benign)

Exercise 9.5 Coding Neoplasms of the Endocrine System

1. **C73** (Carcinoma, papillary, serous, see Table of Neoplasms, thyroid, malignant

   primary)

2. **D34** (Table of Neoplasms, thyroid, benign)

3. **D15.0** (Thymoma)

4. **C7A.019** (Tumor, carcinoid, malignant, small intestine)

   E34.0 (Syndrome, carcinoid)

5. **Z51.11** (Chemotherapy, neoplasm)

   C25.9 (Table of Neoplasms, pancreas, malignant primary)

   C78.7 (Table of Neoplasms, liver, malignant secondary)

   C78.00 (Table of Neoplasms, lung, malignant secondary)

C78.5 (Table of Neoplasms, colon, malignant secondary)

CONCEPT QUIZ

Completion

1. pituitary

2. ovaries, testes

3. metabolism

4. hyperosmolarity hyperglycemic nonketotic syndrome (HHNS)

5. thyroid

6. thyrotoxicosis

7. hypothyroidism

8. body mass index (BMI)

9. Graves' disease

10. pancreas

Multiple Choice

1. A

2. C

3. B

4. B

5. D

6. C

7. C

8. B

9. A

10. B

KEEP ON CODING

1. **E10.36** (Diabetes, type 1, with, cataract)

2. **E03.5** (Coma, myxedematous)

3. **E89.2** (Hypoparathyroidism, postprocedural)

4. **C37** (Table of Neoplasms, thymus, malignant primary)

5. **E72.21** (Argininemia)

6. **E23.2** (Diabetes, insipidus)

7. **E03.3** (Hypothyroidism, postinfectious)

8. **E09.42** (Diabetes, due to drug, with neuralgia)

9. **E66.2** (Syndrome, Pickwickian)

10. **E74.04** (Disease, glycogen storage, type Ⅴ)

11. **E05.40** (Thyrotoxicosis, factitia)

12. **E78.2** (Hyperlipidemia, mixed)

13. **E11.52** (Diabetes, type 2, with, gangrene)

14. **E71.511** (Adrenoleukodystrophy, neonatal)

15. **E24.9** (Syndrome, Cushing's) or (Cushing's, syndrome or disease)

16. **E34.4** (Gigantism, constitutional)

17. **E71.310** (Deficiency, dehydrogenase, long chain/very long chain acyl CoA)

18. **E55.0** (Osteomalacia, infantile – *see* Rickets)

19. **E36.11** (Accidental – *see* condition; Puncture, accidental, complicating surgery – *see* Complication, accidental puncture or laceration; *see* Complications, intraoperative,

puncture or laceration, endocrine system organ or structure, during procedure on

endocrine system organ or structure)

20. **E70.0** (Phenylketonuria, classical)

21. **E84.11** (Ileus, meconium, in cystic fibrosis)

22. **E67.0** (Hypervitaminosis, A)

23. **E83.42** (Hypomagnesemia)

24. **E07.89** (Infarction, thyroid)

25. **E28.0** (Excess, estrogen)

CODING CHALLENGE

1. **E05.01** (Thyrotoxicosis, with goiter, with thyroid storm)

2. **E15** (Coma, hypoglycemic, nondiabetic)

3. **E23.0** (Hypopituitarism)

4. **E26.01** (Conn's syndrome)

   I15.2 (Hypertension, secondary, due to, endocrine disorders)

5. **E28.2** (Polycystic, ovaries) or (Syndrome, ovary, polycystic)

6. **Z00.01** (Examination, adult, with abnormal findings)

   E55.9 (Deficiency, Vitamin D)

   E66.09 (Obesity, due to excess calories)

   Z68.30 (BMI – *see* Body, mass index, adult, 30.0)

7. **E05.10** (Disease, Graves'-*see* Hyperthyroidism, with, goiter, nodular, uninodular)

8. **E11.621** (Diabetes, type 2, with, foot ulcer)

   L97.411 (Ulcer, heel, *see* ulcer lower limb, heel, with, skin breakdown only, right)

9. **E10.10** (Diabetes, type 1, with, ketoacidosis)

T38.3X6A (Table of Drugs and Chemicals, Insulin, Underdosing, initial encounter)

Z91.138 (Underdosing, unintentional)

10. **E87.5** (Hyperkalemia)

E87.0 (Hyperosmolality)

CHAPTER 10: DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE (L00-L99)

CODING PRACTICE

Exercise 10.1 Integumentary System Refresher

1. pachy/derma thick skin, L85.9

2. hyper/trich/osis excessive hair, L68.9

3. peri/follicul/itis inflammation around a hair follicle, L01.02

4. cellul/itis inflammation of a little cell, L03.90

5. erythro/derma red skin, L53.9

6. pyo/derma pus in the skin, L08.0

7. onycho/crypt/osis condition of a hidden (ingrown) nail, L60.0

8. hyper/kerat/osis condition of excessive horny layer of skin, L85.9

9. hidr/aden/itis inflammation of sweat gland, L73.2

10. ony/cho/dys/trophy abnormal shape of nail, L60.3

Exercise 10.2 Abstracting for Conditions of the Integumentary System

1.

   a. was at the beach all day and did not have sunscreen applied

   b. sun, ultraviolet rays

   c. 2nd

d. blistering

2.

    a. red itchy patches

    b. no, they are a symptom that is integral to the condition

    c. contact dermatitis

    d. dermatitis

3.

    a. red and tender area on the left great toe

    b. ingrown nail

    c. no, the symptoms are integral to the condition

4.

    a. cellulitis

    b. leg

    c. right

    d. *Streptococcus A*

5.

    a. erythema multiforme minor

    b. stomatitis

    c. herpes simplex virus

    d. falling off of layers of skin

    e. 15%

6.

    a. chronic skin ulcer

b. calf

c. right

d. non-pressure

e. postphlebitic syndrome

Exercise 10.3 Assigning Codes for Integumentary System Conditions

1. **L55.1** (Sunburn, second degree)

2. **L25.5** (Dermatitis, contact, due to, plants, non-food)

3. **L60.0** (Ingrowing, nail)

Exercise 10.4 Arranging Codes for the Integumentary System Conditions

1. **L03.116** (Cellulitis, lower limb, right lower)

    B95.0 (Streptococcus, A, as cause of disease classified elsewhere)

2. **L51.9** (Erythema, multiforme, minor)

    B00.2 (Stomatitis, herpes)

    L49.1 (Exfoliation, skin, due to erythematous condition, 10-19 percent of body

    surface)

3. **I87.011** (Postphlebitic syndrome, see Syndrome, postthrombotic, with ulcer, lower

    right extremity)

    L97.212 (Ulcer, lower limb, calf, right, exposed fat layer)

Exercise 10.5 Coding Neoplasms of the Integumentary System

1. **C44.319** (Table of Neoplasms, skin, face, basal cell carcinoma)

    C44.01 (Table of Neoplasms, skin, lip, basal cell)

2. **D03.39** (Melanoma, in situ, nose)

3. **Z51.12** (Immunotherapy, antineoplastic)

   C43.59 (Melanoma, skin, back)

   C79.9 (Melanoma, metastatic, NOS)

4. **D22.39** (Nevus, skin, nasolabial groove)

5. **C4A.62** (Carcinoma, Merkel cell, upper limb, including shoulder, left)

   Z94.0 (Transplant, kidney)

CONCEPT QUIZ

Completion

1. regulation

2. folliculitis

3. cellulitis

4. decubitus

5. urticaria

6. BCC

7. exfoliation

8. hair

9. allograft

10. protection

Multiple Choice

1. C

2. A

3. C

4. D

5. D

6. C

7. D

8. D (OGCR I.C.12.a.6))

9. C

10. B

KEEP ON CODING

1. **L20.83** (Eczema, infantile)

2. **L41.5** (Parapsoriasis, retiform)

3. **L81.3** (Café au lait spots)

4. **L93.0** (Lupus, erythematosus)

5. **L98.3** (Cellulitis, eosinophilic)

6. **L89.133** (Ulcer, pressure, stage 3, back, right, Tabular: right lower)

7. **L67.0** (Trichorrhexis)

8. **L50.0** (Urticaria, allergic)

9. **L02.03** (Carbuncle, face)

10. **C44.712** (Table of Neoplasms, skin, calf, malignant primary, right)

11. **L23.2** (Dermatitis, contact, allergic, due to, cosmetics)

12. **L56.3** (Urticaria, solar)

13. **L73.0** (Keloid, acne)

14. **L98.426** (Ulcer, back, with, bone involvement without evidence of necrosis)

15. **L28.0** (Neurodermatitis)

16. **L01.02** (Impetigo, Bockhart's)

17. **L90.2** (Anetoderma, Jadassohn-Pellizzari)

18. **L51.0** (Erythema, multiforme, nonbullous)

    L49.4 (Exfoliation, 40-49 percent of body surface)

19. **L70.4** (Acne, infantile)

20. **L80** (Vitiligo)

21. **L65.2** (Alopecia, mucinosa)

22. **L60.2** (Onychogryphosis)

23. **D03.111** (Melanoma, in situ, eyelid, right upper)

24. **L76.21** (Complication, postoperative, *See* Complications, postprocedural, skin,

    following a dermatologic procedure)

25. **L08.82** (Omphalitis, not of newborn)

CODING CHALLENGE

1. **L05.01** (Cyst, pilondial, with abscess)

2. **L00** (Ritter's disease)

   L49.6 (Exfoliation, due to erythematous conditions according to extent of body

   surface involved, 60-69 percent of body surface)

3. **L10.0** (Pemphigus, vulgaris)

4. **L82.0** (Keratosis, seborrheic, inflamed)

5. **L89.153** (Ulcer, pressure, stage 3, sacral region)

6. **L71.9** (Rosacea)

7. **L91.0** (Keloid, scar)

8. **L02.433** (Carbuncle, axilla, Tabular: right)

   B95.61 (Staphylococcus, aureus, as cause of disease classified elsewhere, aureus)

9. **L03.116** (Cellulitis, lower limb)

   B95.0 (Streptococcus, as cause of disease classified elsewhere, Group A)

10. **L22** (Diaper rash)

CHAPTER 11: DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (M00-M99)

CODING PRACTICE

Exercise 11.1 Musculoskeletal Refresher

1. arthro/pathy abnormal condition of the joint, M12.9

2. osteo/myel/itis inflammation of bone marrow, M86.9

3. fibro/my/algia pain of muscle fiber, M79.7

4. lord/osis condition of swayback, abnormal curve, M40.50

5. chondro/calcin/osis condition of calcium salt in cartilage, M11.20

6. spondylo/listhe/sis forward displacement of vertebra, M43.10

7. chondro/malac/ia softening of cartilage, M94.20

8. osteo/lysis dissolution of bone, M89.50

9. teno/synov/itis inflammation of tendon sheath, M65.9

10. fasc/itis inflammation of fascia, M72.9

Exercise 11.2 Abstracting for Conditions of the Musculoskeletal System

1.

   a. pain in lower back and hips

b. fibromyalgia

    c. no, the symptoms are integral to the condition

    d. no, physical therapy was not provided during this encounter

2.

    a. osteoarthritis

    b. knee

    c. right

    d. no

    e. primary

3.

    a. acute hip pain

    b. fracture of ilium

    c. osteoporosis

    d. pathologic

    e. no, it is integral to the fracture

4.

    a. vertebroplasty

    b. compression fracture

    c. vertebrae

    d. neoplastic

    e. bone metastasis, prostate cancer

    f. neoplastic fracture, L3 L4

    g. bone metastasis

    h. prostate cancer, primary

5.

    a. knee pain

    b. no, it is integral to the injury

    c. sequela

    d. anterior horn of the medial meniscus

    e. left

    f. tackle in football

    g. no, only code the activity of the external cause for the initial encounter

6.

    a. arthritis in crystal arthropathy

    b. dicalcium phosphate crystals

    c. hand

    d. right

    e. hyperparathyroidism

    f. yes, the physician states it is associated with crystal arthropathy

Exercise 11.3 Assigning Codes for Conditions of the Musculoskeletal System

1. **M79.7** (Fibromyalgia)

2. **M17.11** (Osteoarthritis, primary, knee, unilateral, right)

3. **M80.059A** (Osteoporosis, age related, with current pathological fracture, ilium,

    unspecified)

Exercise 11.4 Arranging Codes for Conditions of the Musculoskeletal System

1. **M84.58XA** (Fracture, pathological, due to, neoplastic disease, vertebra, initial encounter)

    C79.51 (Table of Neoplasms, bone, vertebra, malignant secondary)

    C61 (Table of Neoplasms, prostate, malignant primary)

2. **M23.212** (Derangement, knee, meniscus, due to old tear or injury, medial, anterior horn, left)

    W03.XXXS (Tackle in sport, sequela)

3. **M11.841** (Arthritis, in, crystals, dicalcium phosphate, *See* specified type, NEC, hand joint, right hand)

    E21.0 (Hyperparathyroidism, primary)

Exercise 11.5 Coding Neoplasms of the Musculoskeletal System

1. **C40.21** (Table of Neoplasms, bone, tibia, malignant primary, right)

2. **G89.3** (Pain, due to cancer)

    C79.51 (Table of Neoplasms, bone, malignant secondary)

    C50.912 (Table of Neoplasms, breast, malignant primary, left)

3. **Z51.11** (Chemotherapy, cancer)

    C91.00 (Leukemia, acute lymphoblastic, not having achieved remission)

4. **M79.629** (Pain, limb, upper, upper arm, unspecified)

    R22.30 (Mass, localized, limb, upper, unspecified)

5. **C40.22** (Table of Neoplasms, bone, primary, femur, primary malignant, left)

    Z51.11 (Chemotherapy, cancer)

CONCEPT QUIZ

Completion

1. traumatic

2. stress

3. tendons

4. delayed

5. malunion

6. diaphysis

7. proximal epiphysis

8. appendicular

9. ligaments

10. involuntary

Multiple Choice

1. C

2. B

3. D

4. A

5. B

6. D

7. B

8. C

9. D

10. C

KEEP ON CODING

1. **M00.172** (Arthritis, pneumococcal, ankle, left)

2. **M05.052** (Felty's syndrome, hip, left)

3. **M16.31** (Osteoarthritis, hip, due to dysplasia, right)

4. **M1A.18X0** (Gout, chronic, lead-induced, vertebrae, without tophus)

5. **M30.0** (Panarteritis nodosa)

6. **M54.5** (Pain, low back)

7. **M06.331** (Nodule, rheumatoid, wrist, right)

8. **M84.374A** (Fracture, traumatic, stress, ankle, right foot, initial encounter)

9. **M67.52** (Plica, syndrome, knee, left)

10. **M76.11** (Tendinitis, psoas, right)

11. **M86.221** (Osteomyelitis, subacute, humerus, right)

12. **M35.03** (Sicca syndrome, with, myopathy)

13. **C49.22** (Table of Neoplasms, connective tissue, hip, malignant primary, left)

14. **M94.1** (Polychondritis, relapsing)

15. **M43.06** (Spondylolysis, lumbar)

16. **M96.4** (Lordosis, postsurgical)

17. **M26.622** (Arthralgia, temporomandibular, left)

18. **M06.242** (Bursitis, rheumatoid, hand joint, left)

19. **M80.071A** (Osteoporosis, age-related, with current pathologic fracture, metatarsus,

    Tabular: right ankle and foot, initial encounter)

20. **M76.61** (Tendinitis, Achilles, right)

21. **M48.02** (Stenosis, spinal, cervical region)

22. **M62.012** (Diastasis, muscle, shoulder region, left)

23. **M66.369** (Rupture, tendon, nontraumatic, flexor, lower leg, unspecified)

24. **M79.7** (Fibromyalgia)

25. **M88.0** (Osteitis, deformans, skull)

CODING CHALLENGE

1. **M71.062** (Abscess, bursa, knee, left)

   B95.0 (Streptococcus, A, as cause of disease classified elsewhere)

2. **M50.222** (Displacement, intervertebral disc, cervical, Tabular: C5-6 level)

3. **M99.33** (Stenosis, osseous, lumbar region)

4. **M08.29** (Still's disease, multiple sites)

   K51.90 (Colitis, ulcerative, without complications)

5. **M75.01** (Frozen, shoulder *see* Capsulitis, adhesive, right)

6. **M20.12** (Hallux, valgus, left foot)

7. **M21.371** (Deformity, limb, foot, drop, right)

8. **M75.100** (Syndrome, rotator cuff, unspecified shoulder)

9. **M21.541** (Drop, foot, *see* Deformity, limb, clubfoot, right)

10. **M00.852** (Arthritis, pyogenic, bacterial, hip, left)

    B96.5 (Pseudomonas, aeruginosa)

    F19.10 (Abuse, drug NEC)

CHAPTER 12: INJURY, POISONING, AND CERTAIN OTHER CONSEQUENCES OF EXTERNAL CAUSES (S00-T88)

CODING PRACTICE

Exercise 12.1 Injury and Poisoning Refresher

1. displaced fracture

2. complications of care

3. perforation

4. corrosion

5. Gustilo

6. adverse effect

7. poisoning

8. toxic effect

9. adverse effect

10. underdosing

Exercise 12.2 Abstracting for Injury and Poisoning

1.

   a. tibia, right

   b. growth plate at the upper end

   c. Salter Harris

   d. Type III

   e. pain, tenderness, swelling, and distortion on right knee

   f. no, they are integral to the fracture

g. initial

h. tackle in sports

i. accidental

j. school

k. recreation

l. football

2.

    a. uncontrolled

    b. third degree, forearm, left

    c. second degree, upper arm and shoulder, left

    d. assign one code for the highest degree burn

    e. smoke inhalation

    f. initial

    g. exposure to fire and smoke

    h. accidental

    i. barn

    j. civilian work for pay

    k. not documented

3.

    a. laceration, wound

    b. index finger, right

    c. remove sutures

    d. subsequent

  e. cut with knife

  f. no, OGCR I.C.19.a.) instructs coders to NOT assign an aftercare code, but to assign an injury code with the seventh character for subsequent care

4.

  a. irregular pulse, palpitations, confusion; no, they are integral to cumulative intoxication

  b. adverse effect, because the medication was taken as prescribed

  c. digitalis

  d. atrial fibrillation

  e. chronic kidney disease

  f. initial

5.

  a. Flunitrazepam

  b. assault

  c. examination

  d. rape, sexual assault

  e. initial

  f. boyfriend

  g. yes, the abuse is confirmed

6.

  a. chemical

  b. corrosion

  c. sulfuric acid

d. cornea, eyelid, face

e. eyelids bilateral, cornea right, cheek right

f. second

g. initial

h. battery explosion

i. accidental

j. driveway at home

k. recreation

l. automobile repair

Exercise 12.3 Assigning Codes for Injury and Poisoning

1. **S89.031A** (Fracture, tibia, upper end, physeal, Salter Harris Type Ⅲ, right, initial)

2. **T22.392A** (Burn, upper limb, multiple sites, third degree, left)

   J70.5 (Inhalation, smoke)

3. **S61.200D** (Wound, finger, index, right, subsequent)

Exercise 12.4 Arranging Codes for Injury and Poisoning

1. **I48.91** (Fibrillation, atrial)

   T46.0X5A (Table of Drugs and Chemicals: Digitalis, adverse effect, initial)

   N18.2 (Disease, kidney, chronic, stage 2)

2. **T74.21XA** (Assault, rape, adult, initial encounter)

   T42.4X3A (Table of Drugs and Chemicals: Flunitrazepam, assault)

   Index to External Causes:

   Y07.03 (Perpetrator, boyfriend)

3. **T54.2X1A** (Table of Drugs and Chemicals: Sulfuric, acid, accidental, initial

   encounter)

   T26.61XA (Corrosion, cornea, right eye, initial encounter)

   T26.51XA (Corrosion, eyelid, right)

   T26.52XA (Corrosion, eyelid, left)

   T20.66XA (Corrosion, cheek/forehead, second degree) Index to External Causes:

   Y92.014 (Place of occurrence, residence, house, driveway)

   Y99.8 (Activity, leisure activity)

CONCEPT QUIZ

Completion

1. P
2. F
3. K
4. A
5. C
6. H
7. S
8. B
9. D
10. E

Multiple Choice

1. C

2. A

3. B

4. A

5. B

6. A

7. B

8. D

9. B

10. C

KEEP ON CODING

1. **S00.01XA** (Abrasion, scalp, initial)

2. **S02.609D** (Fracture, traumatic, mandible, subsequent encounter with routine healing)

3. **S15.012A** (Injury, blood vessel, carotid artery, laceration, left, initial)

4. **S39.012A** (Strain, low back, initial)

5. **T62.0X1A** (Table of Drugs and Chemicals: Mushroom, poisoning accidental, initial)

6. **T86.02** (Failure, transplant, bone, marrow)

7. **S47.2XXA** (Crush, arm, left, initial)

8. **T67.1XXA** (Collapse, heat, initial)

9. **S32.16XD** (Fracture, traumatic, sacrum, type 3, subsequent encounter with routine healing)

10. **S28.211S** (Amputation, breast, complete, right, sequela)

11. **S36.031S** (Laceration, spleen, moderate, sequela)

12. **S72.001K** (Fracture, traumatic, femur, upper end, right, subsequent with nonunion)

13. **T80.410A** (Complication, transfusion, incompatibility reaction, Rh, hemolytic, acute, initial)

14. **T79.A22A** (Syndrome, compartment, lower extremity, left, initial)

15. **S88.922D** (Amputation, traumatic, leg, partial, left, subsequent)

16. **S09.311A** (Injury, blast, ear, right, initial)

17. **S27.2XXD** (Pneumothorax, traumatic, with hemothorax, subsequent)

18. **T17.1XXA** (Foreign body, entering through orifice, nostril, initial)

19. **T25.312S** (Burn, ankle, left, third degree, sequela)

20. **S32.611A** (Fracture, traumatic, ischium, avulsion, right, initial)

21. **S37.022A** (Contusion, kidney, major, left, initial)

22. **S82.021A** (Fracture, traumatic, patella, longitudinal, right, initial)

23. **S31.815D** (Bite, buttock, right, subsequent)

24. **S93.401A** (Sprain, ankle, right, initial)

25. **T47.4X5D** (Table of Drugs and Chemicals: Laxative, adverse effect, subsequent)

CODING CHALLENGE

1. **M80.031A** (Osteoporosis, with current pathological fracture, radius, right, initial)

   S80.11XA (Contusion, lower leg, right, initial)

   T45.515A (Adverse effect Coumadin)

   Z79.01 (Long term drug use, anticoagulants)

   Index to External Causes:

   W01.0XXA (Fall, same level, from, slipping, stumbling, tripping)

   Y92.038 (Place of occurrence, residence, apartment, specified NEC)

2. **S43.121D** (Dislocation, acromioclavicular, with displacement, 100-200%, right, subsequent)

   Index to External Causes:

   V23.4XXD (Accident, transport, motorcycle, driver, collision with, car, subsequent)

3. **S91.332A** (Puncture, foot, left, initial encounter)

   L08.9 (Infection, foot)

   Index to External Causes:

   W45.0XXA (Contact with, nail, initial encounter)

4. **S02.110A** (Fracture, traumatic, skull, base, occiput, condyle, type I, initial)

   S06.6X3A (Injury, intracranial, subarachnoid hemorrhage, traumatic, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial)

5. **E10.11** (Diabetes, type 1, with ketoacidosis, with coma)

   T38.3X6A (Table of Drugs and Chemicals: Insulin, underdosing, initial)

   Z91.138 (Noncompliance, medication regimen, underdosing, unintentional)

6. **S52.332D** (Fracture, traumatic, radius, shaft, oblique, left, subsequent)

7. **T52.4X1A** (Table of Drugs and Chemicals: Acetone, accidental, initial)

   R11.2 (Vomiting with nausea)

   R51 (Headache)

   Index to External Causes:

   Y92.009 (Place of occurrence, residence, unspecified)

   Y99.8 (External cause status, hobby or leisure)

   Y93.D3 (Activity, furniture, repair)

8. **S82.221A** (Fracture, traumatic, tibia, transverse, right, initial encounter)

   C61 (Neoplasm, prostate, malignant primary)

   Index to External Causes:

   V86.69XA (Accident, transport, all-terrain vehicle occupant, passenger, initial encounter)

9. **T74.02XA** (Neglect, child, confirmed, initial)

   T51.0X1A (Table of Drugs and Chemicals: Alcohol, absolute, beverage, accidental, initial)

   R40.20 (Coma, unspecified)

   Index to External Causes:

   Y07.430 (Perpetrator, father, stepfather)

   Y90.1 (Blood alcohol level, 20-39mg/100ml)

   Y92.039 (Place of occurrence, residence, apartment)

10. **I47.1** (Tachycardia, supraventricular)

    T40.1X2S (Table of Drugs and Chemicals: Heroin, intentional self-harm, sequela)

CHAPTER 13: DISEASES OF THE CIRCULATORY SYSTEM (I00-I99)

CODING PRACTICE

Exercise 13.1 Circulatory System Refresher

1. hyper/tension abnormally high (blood) pressure, I10

2. myo/card/itis inflammation of the heart muscle, I51.4

3. cardio/myo/pathy abnormal condition of the heart muscle, I42.9

4. ather/oma fatty deposit, I70.90

5. arterio/scler/osis hardening of arteries, I70.90

6. a/rrhythm/ia pertaining to the lack of rhythm, I49.9

7. lympho/cele a swelling containing lymph, I89.8

8. thrombo/phleb/itis inflammation of a vein with a clot, I80.9

9. thrombo/angi/itis inflammation of the lining of a blood vessel with a clot, I73.1

10. pyo/pneumo/peri/card/ium pus in the lungs and sac around the heart, I30.1

Exercise 13.2 Abstracting for Circulatory System Conditions

1.

    a. an infarction that affects only a small portion of the heart wall, usually due to a decreased, but not totally occluded, blood supply

    b. same as a.

    c. Infarct

2.

    a. Hypertension

    b. no

    c. Hypertension

3.

    a. between the left atrium and the left ventricle

    b. The patient's mitral valve was replaced with a valve from a pig

    c. The mitral valve does not close properly and is allowing blood to flow backward into the atrium.

4.

    a. no, it is an integral symptom of MI

    b. transient ischemic attack (mini-stroke)

    c. ST elevation myocardial infarction, a full occlusion

    d. right coronary artery

    e. yes

    f. open heart surgery to create a new route around the blocked artery

5.

    a. shortness of breath, hypertension, congestive heart failure, atrial fibrillation

    b. CHF

    c. per the OGCR, assume a causal relationship between these two conditions, because documentation does not state otherwise

    d. Code hypertensive CHF first because it is the cause of the increased symptoms

    e. anticoagulant

    f. antiplatelet

6.

    a. stroke

    b. embolus

    c. a particle or clot that has travelled from another location

    d. cerebral

    e. cerebral atherosclerosis, hypertension

    f. history of tobacco use

    g. The clot was surgically removed.

Exercise 13.3 Assigning Codes for Circulatory System Conditions

1. **I21.4** (Infarct, myocardium, nontransmural)

2. **I11.9** (Hypertension, heart)

3. **I34.0** (Insufficiency, mitral valve)

4. **I49.02** (Flutter, ventricular)

5. **I83.811** (Varix, leg, right, with pain)

Exercise 13.4 Arranging Codes for Circulatory System Conditions

1. **I21.11** (Infarction, myocardial, STEMI, involving right coronary artery)

   I25.2 (Infarction, myocardial, old)

   Z86.73 (History, personal, transient ischemic attack)

2. **I11.0** (Hypertension, heart, with heart failure)

   I50.9 (Failure, heart, congestive, decompensated)

   I48.91 (Fibrillation, atrial)

   Z79.01 (Long term drug therapy, anticoagulant)

   Z79.02 (Long term drug therapy, antiplatelet)

3. **I63.411** (Infarction, cerebral, due to, embolism, cerebral arteries, right middle

   cerebral artery)

   I67.2 (Arteriosclerosis, cerebral)

   I10 (Hypertension)

   Z92.82 (Status, administration of tPA)

   Z72.0 (History, personal, tobacco use)

4. **I48.91** (Fibrillation, atrial)

   I50.32 (Failure, heart, congestive, diastolic, chronic)

   I87.2 (Ulcer, stasis, without varicose veins)

   L97.121 (Ulcer, lower leg, thigh, left, with skin breakdown only)

5. **I26.99** (Embolism, pulmonary)

   I82.512 (Thrombosis, vein, femoral, chronic, left)

CONCEPT QUIZ

Completion

1. ischemia

2. cerebrovascular accident (CVA)

3. embolus

4. congestive heart failure (CHF)

5. deep vein thrombosis (DVT)

6. bypass graft

7. 4

8. STEMI

9. endarterectomy

10. Holter monitor

Multiple Choice

1. B

2. D

3. A

4. A

5. C

6. B

7. A

8. B

9. A

10. C

KEEP ON CODING

1. **I09.0** (Myocarditis, rheumatic)

2. **I26.09** (Cor, pulmonale, acute)

3. **I34.1** (Floppy, nonrheumatic mitral valve syndrome)

4. **I67.1** (Aneurysm, brain)

5. **I77.72** (Dissection, artery, iliac)

6. **I77.2** (Rupture, artery)

7. **I87.023** (Syndrome, postthrombotic, with inflammation, bilateral)

8. **I97.710** (Arrest, cardiac, intraoperative)

9. **I13.10** (Hypertension, cardiorenal, without heart failure, with stage 1 through stage 4

   chronic kidney disease)

   N18.3 (Disease, kidney, chronic, stage 3)

10. **I63.432** (Infarct, cerebral, due to, embolism, cerebral arteries, left)

    Z92.82 (Administration of tPA)

11. **I20.1** (Angina, variant, see angina with documented spasm)

    Z72.0 (Use, tobacco)

12. **I95.3** (Hypotension, intra-dialytic)

13. **I80.211** (Phlebitis, leg, deep, iliac, right)

14. **I88.0** (Lymphadenitis, mesenteric)

15. **I81** (Obstruction, portal)

16. **I85.01** (Varix, esophagus, bleeding)

17. **I83.93** (Varix, asymptomatic, bilateral)

18. **C49.4** (Table of Neoplasms, aorta, abdominal, malignant primary)

19. **I21.09** (Infarction, myocardium, ST elevation (STEMI), anterior)

20. **I42.6** (Cardiomyopathy, alcoholic)

    F10.10 (Abuse, alcohol)

21. **I21.02** (Infarction, myocardial, ST Elevation (STEMI), involving left anterior

    descending coronary artery)

    I25.2 (Infarction, myocardium, healed or old)

22. **I44.1** (Block, heart, second degree)

23. **I69.323** (Stuttering, following cerebrovascular disease, see Disorder, fluency,

    following cerebral infarction)

24. **I49.1** (Premature, beats, atrial)

25. **I87.323** (Hypertension, venous, idiopathic, with, inflammation, bilateral)

CODING CHALLENGE

1. **I71.3** (Aneurysm aortic, abdominal, ruptured)

2. **I21.19** (Infarction, myocardial, inferolateral)

   I22.1 (Infarction, myocardial, inferolateral, subsequent)

3. **I44.4** (Block, bundle branch, left, hemiblock, anterior)

4. **E05.91** (Thyrotoxicosis, heart, with thyroid storm)

   I43 (Cardiomyopathy, metabolic, thyrotoxic, with thyroid storm)

5. **I30.1** (Pericarditis, staphylococcal)

   B95.61 (Infection, bacterial, as cause of disease classified elsewhere, staphylococcus, aureus)

6. **I70.542** (Atherosclerosis, see also Arteriosclerosis. Arteriosclerosis, extremities, bypass graft, nonautologous biological, left, with ulceration, calf)

   L97.223 (Ulcer, lower limb, calf, left, with muscle necrosis)

7. **I25.721** (Arteriosclerosis, coronary, bypass graft, autologous artery with angina, with documented spasm)

   I11.0 (Hypertension, heart, with, heart failure)

   I50.42 (Failure, heart, congestive, systolic with diastolic, chronic)

8. **I95.1** (Hypotension, orthostatic)

9. **I63.131** (Infarction, cerebral, due to embolism, precerebral arteries, carotid, right)

   I69.354 (Hemiplegia, following cerebral infarction, left non-dominant side)

   I69.391 (Dysphagia, following cerebral infarction)

   R13.13 (Dysphagia, pharyngeal phase)

10. **I23.7** (Angina, post-infarctional)

    I21.02 (Infarction, myocardial, involving left anterior descending artery)

CHAPTER 14: DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS AND CERTAIN DISORDERS INVOLVING THE IMMUNE MECHANISM (D50-D89)

CODING PRACTICE

Exercise 14.1 Refresher on the Blood

1. hemo/philia blood attraction, D66

2. neutro/penia deficiency of neutrophils, D70.9

3. thrombo/cyto/penia deficiency of platelet cells, D69.6

4. leuko/cyto/sis white blood cell condition, D72.829

5. eosino/phil/ia accumulation of eosinophils, D72.1

6. hemo/globin/emia blood condition of hemoglobin, D59.9

7. pan/hemato/penia deficiency of all types of blood cells, D61.9

8. hemo/lymph/angi/oma tumor of the lymph and blood vessels, D18.1

9. erythro/blasto/phthi/sis wasting away of immature red blood cells, D61.09

10. leuko/erythro/blast/osis abnormal condition of red and white immature blood cells, D75.9

Exercise 14.2 Abstracting for Conditions of the Blood

1.

    a. reduction in lymphocyte count

    b. lymphocytopenia

    c. no, a definitive diagnosis was made

2.

    a. numbness in extremities, nausea and vomiting

    b. pernicious anemia

    c. yes

    d. no

3.

    a. pain and swelling in LUQ

    b. enlargement of the spleen

    c. inflammation of the spleen

    d. removal of the spleen

    e. LUQ

    f. splenitis

4.

    a. weakness, fatigue, confusion

    b. yes

    c. chemotherapy

    d. colon

    e. cancer that has spread to other organs

    f. anemia due to chemotherapy

    g. primary colon cancer

    h. metastatic cancer

5.

    a. adverse effect of chemotherapy

    b. tachycardia, headaches, fatigue

    c. anemia due to stage 3 CKD

    d. yes

    e. CKD

    f. stage 3 CKD

    g. anemia in chronic disease

6.

    a. elevated blood sugar

b. no, hyperglycemia is an abnormal test result, but a definitive diagnosis is stated

c. yes, it is separate from pre-diabetes

d. iron-deficiency anemia

e. pre-diabetes

f. iron-deficiency anemia

Exercise 14.3 Assigning Codes for Conditions of the Blood

1. **D72.810** (Lymphocytopenia)

2. **D51.0** (Anemia, pernicious)

3. **D73.89** (Splenitis)

Exercise 14.4 Arranging Codes for Conditions of the Blood

1. **D64.81** (Anemia, due to, antineoplastic chemotherapy)

   C18.9 (Table of Neoplasms, colon, malignant primary)

   C79.9 (Table of Neoplasms, malignant secondary)

   T45.1X5A (Table of Drugs and Chemicals, Antineoplastic NEC, adverse effect, initial

   encounter)

2. **N18.3** (Disease, kidney, chronic, stage 3)

   D63.1 (Anemia, in, chronic kidney disease)

3. **R73.09** (Prediabetes)

   D50.9 (Anemia, iron deficiency)

Exercise 14.5 Coding Malignancies of the Blood

1. **Z51.11** (Chemotherapy, cancer)

   C94.20 (Leukemia, acute myeloid, M7, not having achieved remission)

2. **Z51.11** (Chemotherapy, cancer)

   C91.10 (Leukemia, chronic lymphocytic, of B-cell type, not having achieved

   remission)

3. **C91.01** (Leukemia, acute lymphoblastic, in remission)

4. **C81.21** (Lymphoma, Hodgkin, classical, mixed cellularity (classical), head, face and

   neck)

5. **Z51.0** (Radiation, therapy, encounter for)

   C82.18 (Lymphoma, follicular, grade Ⅱ, multiple sites)

CONCEPT QUIZ

Completion

1. hemoglobin

2. bone marrow

3. hemolytic

4. leukocytes

5. hemic

6. sarcoidosis

7. formed elements

8. erythrocytes

9. polycythemia

10. sickle cell disease

Multiple Choice

1. A

2. A

3. C

4. A

5. D

6. B

7. C

8. B

9. B

10. A

KEEP ON CODING

1. **D50.1** (Dysphagia, sideropenic)

2. **D56.0** (Thalassemia, alpha)

3. **D57.1** (Disease, sickle-cell)

4. **D67** (Deficiency, factor, IX)

5. **D72.825** (Bandemia)

6. **D73.4** (Cyst, spleen NEC)

7. **C83.34** (Lymphoma, diffuse large, B-cell, axilla)

8. **D53.1** (Anemia, megaloblastic)

9. **D61.810** (Pancytopenia, antineoplastic chemotherapy induced)

   C25.1 (Table of Neoplasms, pancreas, body, malignant primary)

   C79.9 (Table of Neoplasms, malignant secondary)

   T45.1X5A (Table of Drugs and Chemicals, Antineoplastic NEC, adverse effect, initial

   encounter)

10. **Z51.11** (Encounter, chemotherapy for neoplasm)

    C93.90 (Leukemia, monocytic, not having achieved remission)

11. **D86.86** (Sarcoid, arthropathy)

12. **D78.22** (Complication, postprocedural, spleen, following procedure on other organ)

13. **D70.4** (Neutropenia, cyclic)

14. **C96.A** (Sarcoma, histiocytic)

15. **D55.2** (Anemia, deficiency, PK)

16. **D59.3** (Syndrome, hemolytic-uremic)

17. **D64.89** (Pseudoleukemia, infantile)

18. **D75.82** (Thrombocytopenia, heparin induced)

19. **D72.819** (Leukopenia)

20. **D82.1** (Syndrome, di George's)

21. **D89.1** (Cryoglobulinemia)

22. **D53.0** (Anemia, deficiency, protein)

23. **D69.41** (Syndrome, Evans)

24. **D60.9** (Aplasia, red cell, acquired)

25. **D75.1** (Polycythemia, stress)

CODING CHALLENGE

1. **D61.1** (Anemia, aplastic, due to, drugs)

   C61 (Table of Neoplasms, prostate, malignant primary)

   C79.51 (Table of Neoplasms, bone, pelvic, malignant secondary))

   T45.1X5A (Table of Drugs and Chemicals, Antineoplastic NEC, adverse effect, initial

   encounter)

2. **C34.31** (Table of Neoplasms, lung, lower lobe, malignant primary, right)

   C79.51 (Table of Neoplasms, bone, malignant secondary)

   D63.0 (Anemia, in, neoplastic disease)

3. **D68.59** (Deficiency, antithrombin)

4. **D68.62** (Lupus, anticoagulant)

   T45.516A (Table of Drugs and Chemicals, warfarin, underdosing, initial encounter)

   M32.9 (Lupus, erythematosus, systemic)

5. **D61.818** (Pancytopenia)

6. **D59.6** (Hemoglobinuria, due to exertion or hemolysis NEC)

   Y84.1 (Index of External Causes: Complication, dialysis)

   N18.6 (Failure, renal, end stage)

7. **D70.9** (Neutropenia)

   R50.81 (Fever, due to, conditions classified elsewhere)

8. **D57.02** (Crisis, sickle cell, with, splenic sequestration)

9. **C50.911** (Table of Neoplasms, breast, malignant primary, right)

   D75.81 (Myelofibrosis, secondary)

10. **D45** (Polycythemia vera)

    D72.829 (Leukocytosis)

CHAPTER 15: DISEASES OF THE RESPIRATORY SYSTEM (J00-J99)

CODING PRACTICE

Exercise 15.1 Respiratory System Refresher

1. pneumato/cele hernia or swelling in the lung, J98.4

2. bronchiol/itis inflammation of the bronchiole, J21.9

3. pneumo/hemo/thorax air and blood in the chest, J94.2

4. rhino/rrhea flowing from the nose, J34.89

5. naso/pharyng/itis inflammation of the nose and throat, J00

6. broncho/alveol/itis inflammation of the bronchus and alveoli, J18.0

7. laryngo/plegia paralysis of the voice box, J38.00

8. pyo/thorax pus in the chest, J86.9

9. tracheo/stenosis narrowing of the trachea, J39.8

10. hydro/pneumo/thorax water and air in the chest, J94.8

Exercise 15.2 Abstracting for Respiratory System Conditions

1.

   a. extrinsic asthma

   b. coughing, wheezing, and SOB

   c. acute exacerbation

   d. none

   e. mild intermittent

2.

   a. productive cough and fever

   b. she used to have COPD and is worried about it recurring

   c. viral pneumonia

   d. whether it is caused by a virus or bacteria; viral pneumonia cannot be cured with

      antibiotics.

   e. no

f. no, they are integral to the pneumonia

g. no, conditions that have been resolved and are no longer being treated should not be coded

h. yes, it is the reason chiefly responsible for the encounter

3.

a. COPD

b. declining spirometry, SOB

c. no

d. no, they are integral to the disease process

e. yes, it is the reason for services provided

f. no, they are COPD

4.

a. low fever, chills, cough

b. no, they are integral to pneumonia

c. CHF puts the patient at increased risk for complications, although it did not cause the pneumonia and bronchitis.

d. lobular pneumonia and acute bronchitis

e. acute

f. Mycoplasma pneumoniae

g. no

h. either lobular pneumonia or acute bronchitis

i. either lobular pneumonia or acute bronchitis

j. CHF

    k. supplemental oxygen

5.

    a. acute bronchitis

    b. COPD, chronic bronchitis

    c. acute bronchitis is an exacerbation of the COPD

    d. yes, it is the reason for admission

    e. no, it is part of COPD

    f. tobacco dependence

6.

    a. asbestosis

    b. asbestosis

    c. yes, it is a manifestation that is not integral to asbestosis

    d. asthma

    e. mild persistent

    f. yes, it is a separate condition

    g. asbestosis

Exercise 15.3 Assigning Codes for Respiratory System Conditions

1. **J45.21** (Asthma, intermittent (mild), with, acute exacerbation)

2. **J12.9** (Pneumonia, viral)

3. **J44.9** (Bronchitis, emphysematous or Disease, lung, obstructive, with, bronchitis)

   (See Excludes1 notes under J43 and Includes notes under J44)

Exercise 15.4 Arranging Codes for Respiratory System Conditions

1. **J15.7** (Pneumonia, lobular, see Pneumonia, broncho, Mycoplasma pneumoniae)

   J20.0 (Bronchitis, acute, due to Mycoplasma pneumoniae)

   I50.9 (Failure, heart, congestive)

   Z99.81 (Dependence on, oxygen)

2. **J44.0** (Disease, lung, obstructive, with acute bronchitis)

   J44.1 (Disease, lung, obstructive, with, acute, exacerbation)

   F17.210 (Dependence, drug, nicotine, cigarettes)

3. **J61** (Asbestosis)

   J45.30 (Asthma, mild persistent)

   R68.3 (Clubbing of fingers)

Exercise 15.5 Coding Neoplasms of the Respiratory System

1. **Z51.0** (Radiotherapy)

   C34.12 (Table of Neoplasms, lung, upper lobe, malignant primary, left)

   Z72.0 (Tobacco, use)

2. **D14.31** (Table of Neoplasms, lung, benign, lower, right)

3. **C77.0** (Table of Neoplasms, lymph, gland, cervical malignant secondary)

   C14.0 (Table of Neoplasms, pharynx, malignant primary)

   F10.20 (Dependence, alcohol)

   Z87.891 (History, personal, nicotine dependence)

4. **C45.0** (Mesothelioma, site, pleura)

   T57.8X1A (Table of Drugs and Chemicals: Asbestos, poisoning, accidental, initial encounter)

5. **C31.0** (Table of Neoplasms, sinus, maxillary, primary malignant)

CONCEPT QUIZ

Completion

1. upper

2. alveoli

3. atelectasis

4. chronic bronchitis

5. asthma

6. lobular

7. status asthmaticus

8. tracheostomy

9. novel influenza A

10. pharyngitis

Multiple Choice

1. C

2. A

3. A

4. D

5. D

6. B

7. A

8. D

9. B

10. D

KEEP ON CODING

1. **J02.9** (Pharyngitis)

2. **J98.11** (Atelectasis)

3. **J94.0** (Effusion, chylous)

4. **J30.1** (Rhinitis, allergic, due to, pollen)

5. **C31.1** (Table of Neoplasms, ethmoid, malignant primary)

6. **J38.6** (Stenosis, larynx)

7. **J16.0** (Pneumonia, chlamydial)

8. **J03.00** (Tonsillitis, streptococcal)

9. **J09.X2** (Influenza, avian)

10. **J21.0** (Bronchiolitis, due to, respiratory syncytial virus)

11. **J35.01** (Tonsillitis, chronic)

12. **J45.990** (Bronchospasm, exercise induced)

13. **J95.821** (Failure, respiratory, postprocedural)

14. **J98.59** (Hernia, mediastinum)

15. **J41.8** (Bronchitis, mixed simple and mucopurulent)

16. **J44.1** (Disease, pulmonary, chronic obstructive, with acute exacerbation)

17. **C33** (Table of Neoplasms, trachea, malignant primary)

18. **J96.01** (Failure, respiratory, acute, with, hypoxia)

19. **J67.4** (Maltworker's lung)

20. **Z85.118** (History, personal, malignant neoplasm, lung)

21. **J38.02** (Paralysis, vocal cords, bilateral)

22. **J95.04** (Fistula, tracheo-esophageal, following tracheostomy)

23. **J98.09** (Ulcer, bronchus)

24. **J32.0, Z77.22** (Sinusitis. Note: This condition is poorly indexed. The nonessential modifier in the Index after Sinusitis J32.9 includes *chronic*. This leads to *J32.9* which is *Chronic sinusitis, unspecified*. The coder then needs to review the other entries in the category *J32 Chronic sinusitis* to identify *J32.0 maxillary*. An instructional note directs coders to *Use additional code ti identify exposure to environmental tobacco smoke Z77.22*. Use this as an opportunity to reinforce that coders need to review the entire category in the Tabular List.)

25. **J39.1** (Abscess, pharynx)

CODING CHALLENGE

1. **J20.2** (Bronchitis, acute or subacute, due to, streptococcus)

   P96.81 (Exposure, second hand tobacco smoke, in the perinatal period)

   Z77.22 (Exposure, second hand tobacco smoke)

2. **J45.31** (Asthma, mild persistent, with, exacerbation)

3. **J13** (Pneumonia pneumococcal)

   J44.0 (Disease, lung, obstructive, with, acute, lower respiratory infection)

4. **J95.03** (Complication, tracheostomy, mechanical)

   D86.0 (Sarcoidosis, lung)

5. **J34.2** (Deviation, septum)

   J33.8 (Polyp, sinus)

   J34.3 (Hypertrophy, nasal, turbinate)

6. **J01.01** (Sinusitis, acute, maxillary, recurrent)

7. **J69.0** (Pneumonia, aspiration, due to gastric secretions)

   J85.1 (Abscess, lung, with pneumonia)

   J96.00 (Failure, respiration, acute)

   E11.43 (Diabetes, type 2, with gastroparesis)

8. **J15.6** (Pneumonia, gram negative)

   I50.1 (Failure, ventricular, left)

9. **J43.9** (Bleb, lung (ruptured))

   J93.12 (Pneumothorax, spontaneous, secondary)

10. **J35.03** (Tonsillitis, chronic, with adenoiditis)

CHAPTER 16: DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (G00-G99)

CODING PRACTICE

Exercise 16.1 Nervous System Refresher

1. neur/oma tumor on a nerve, D36.10 (This is the default code for Neoplasm, nerve, benign.)

2. neuro/myel/itis inflammation of the nerves and spinal cord, G36.9

3. encephalo/myelo/radicul/itis inflammation of the spinal cord and nerve roots in the head, G61.0

4. caus/algia burning pain, G56.40

5. neuro/myo/tonia contraction of the nerves and muscles, G71.19

6. myelino/lysis destruction of the membrane that covers neurons, G37.2

7. hemi/chorea jerky movements on one side of the body, G25.5

8. meningo/encephalo/pathy abnormal condition of the membranes covering the spinal cord and brain in the head, G96.9

9. my/asthenia lack of strength in the muscles, G70.9

10. hemi/plegia paralysis on one side of the body, G81.90 (This is the default code for unspecified side.)

Exercise 16.2 Abstracting for Nervous System Conditions

1.

   a. pharmacoresistant migraine

   b. yes, pharmacoresistant means intractable

   c. no

   d. yes

   e. no, only 48 hours

   f. no

2.

   a. epilepsy

   b. benign childhood epilepsy with EEG spikes

   c. yes, poorly controlled qualifies as intractable

   d. no

3.

   a. tremors, difficulty walking

   b. Parkinson's disease

   c. no, they are integral to the disease

d. primary

e. no

4.

    a. implant neurostimulator for pain control

    b. low back

    c. displaced disc at L3-L4

    d. yes, due to trauma

    e. yes

    f. no

    g. yes

    h. no

5.

    a. generalized weakness

    b. hyponatremia

    c. early onset

    d. she could wander off

    e. yes, hallucinations and wandering

    f. hyponatremia

    g. AD and dementia with behavioral disturbance; they created an elopement risk

6.

    a. persistent migraine

    b. yes, unresponsive to medication means intractable

    c. no

d. yes, 4 days is more than 72 hours

e. cerebrovascular infarction, cerebral stenosis, hypertension

f. right cerebellar artery

g. persistent migraine

Exercise 16.3 Assigning Codes for Nervous System Conditions

1. **G43.119** (Migraine, with aura, intractable, without status migrainosus)

2. **G40.019** (Epilepsy, benign childhood with EEG spikes, see Epilepsy, localization related, idiopathic, intractable, without status epilepticus)

3. **G20** (Parkinsonism)

Exercise 16.4 Arranging Codes for Nervous System Conditions

1. **G89.21** (Pain, chronic, due to trauma)

    M51.26 (Displacement, intervertebral, lumbar)

2. **E87.1** (Hyponatremia)

    G30.1 (Disease, Alzheimer, late onset, with behavioral disturbance)

    F02.81 (2nd code listed for Disease, Alzheimer, late onset, with behavioral disturbance)

    Z91.83 (Wandering, in diseases classified elsewhere)

    R44.3 (Hallucinations)

3. **G43.011** (Migraine, without aura, intractable, with status migrainosus)

    I63.541 (Infarction, cerebral, due to, stenosis, cerebral arteries, Tabular: right cerebellar artery)
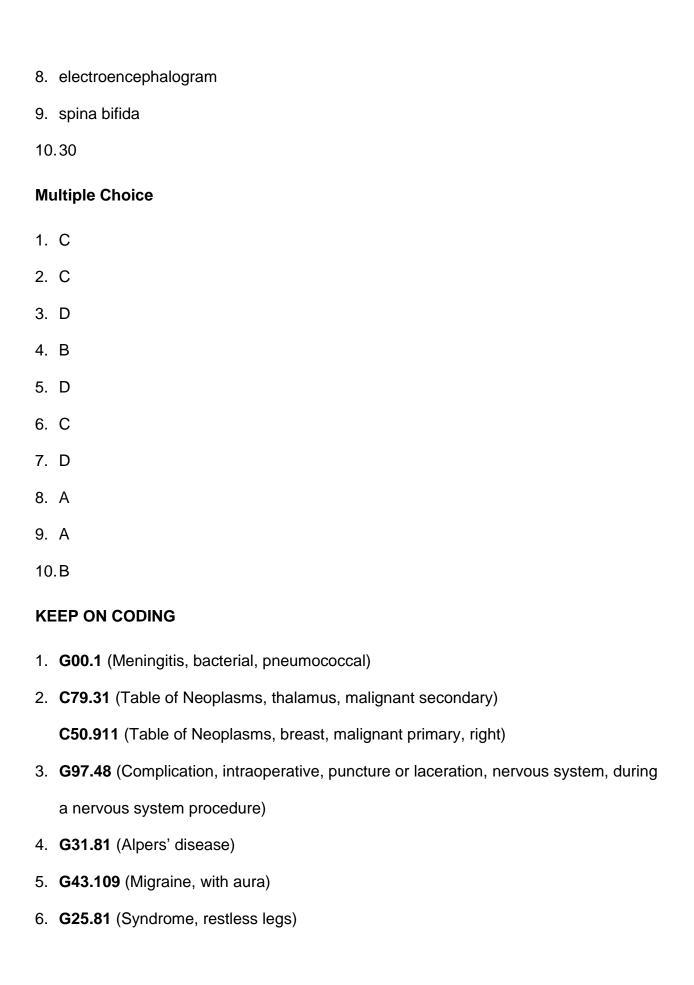
    I10 (Hypertension)

Exercise 16.5 Coding Neoplasms of the Nervous System

1. **D33.0** (Table of Neoplasms, Hypothalmus, benign)

2. **G89.22** (Pain, chronic, due to, post-thoracotomy)

   C34.91 (Table of Neoplasms, Lung, primary, right)

3. **G89.3** (Pain, due to cancer)

   C83.30 (Lymphoma, diffuse large cell, B cell, unspecified)

   G55 (Compression, nerve, root, neoplastic disease)

4. **C71.6** (Table of Neoplasms, Brain, cerebellum. primary malignant)

   Z51.11 (Encounter, chemotherapy for neoplasm)

5. **D64.81** (Anemia, due to, antineoplastic chemotherapy)

   T45.1X5A (Table of Drugs and Chemicals: Antineoplastic, adverse effect, initial)

   G89.3 (Pain, due to cancer)

   C56.2 (Table of Neoplasms, ovary, malignant primary, left)

   C79.31 (Table of Neoplasms, Brain, malignant secondary)

CONCEPT QUIZ

Completion

1. CNS

2. encephalitis

3. epilepsy

4. brain

5. PNS

6. intractable

7. dominance

8. electroencephalogram

9. spina bifida

10. 30

Multiple Choice

1. C

2. C

3. D

4. B

5. D

6. C

7. D

8. A

9. A

10. B

KEEP ON CODING

1. **G00.1** (Meningitis, bacterial, pneumococcal)

2. **C79.31** (Table of Neoplasms, thalamus, malignant secondary)

   C50.911 (Table of Neoplasms, breast, malignant primary, right)

3. **G97.48** (Complication, intraoperative, puncture or laceration, nervous system, during

   a nervous system procedure)

4. **G31.81** (Alpers' disease)

5. **G43.109** (Migraine, with aura)

6. **G25.81** (Syndrome, restless legs)

7. **G21.4** (Parkinsonism, vascular)

8. **G12.21** (Sclerosis, amyotrophic)

9. **G24.5** (Blepharospasm)

10. **G40.A11** (Epilepsy, childhood, absence, with status epilepticus)

11. **G43.839** (Migraine, menstrual, intractable, without status migrainosus)

12. **G47.411** (Narcolepsy with cataplexy)

13. **G10** (Huntington's disease or chorea)

14. **G97.1** (Complication, puncture spinal, headache)

15. **G80.4** (Palsy, cerebral, ataxic)

16. **G61.0** (Syndrome, Guillian-Barré)

17. **G70.00** (Myasthenia, gravis)

18. **G40.911** (Epilepsy, intractable, with status epilepticus)

19. **G47.31** (Apnea, sleep, primary central)

20. **G24.3** (Torticollis, spasmodic

21. **G14** (Syndrome, postpolio)

22. **G04.1** (Paraplegia, spastic, tropical)

23. **C71.6** (Medulloblastoma, unspecified site)

24. **G30.9, F02.80** (Disease, Alzheimer's)

25. **G44.219** (Headache, tension, episodic)

CODING CHALLENGE

1. **G00.3** (Meningitis staphylococcal)

   B95.61 (Infection, bacterial, as cause of disease classified elsewhere,

   staphylococcus, aureus)

2. **G70.01** (Myasthenia gravis, crisis)

   G61.81 (Polyneuropathy, demyelinating, chronic inflammatory)

3. **G40.B19** (Epilepsy, juvenile myoclonic - see Epilepsy, generalized, idiopathic, intractable, without status epilepticus)

4. **G40.109** (Seizure, cortical (focal) see Epilepsy, localization-related, symptomatic, with simple partial seizures, not intractable, without status epilepticus)

5. **G89.4** (Syndrome, chronic pain)

   E66.3 (Overweight)

6. **G91.2** (Hydrocephalus, normal pressure)

7. **G47.33** (Apnea, sleep, obstructive)

   E66.09 (Obesity, nutritional)

   Z68.33 (Body, mass index, adult, 33.0-33.9)

8. **G56.01** (Syndrome, carpal tunnel, right upper limb)

   E11.42 (Diabetes, type 2, with polyneuropathy)

9. **G72.1** (Myopathy, alcoholic)

   F10.288 (Dependence, alcohol, with, specified disorder NEC)

10. **G81.94** (Hemiplegia, left, nondominant)

    G09 (Sequelae, infection, pyogenic, intracranial or intraspinal)

CHAPTER 17: MENTAL, BEHAVIORAL, AND NEURODEVELOPMENTAL DISORDERS (F01–F99)

CODING PRACTICE

Exercise 17.1 Psychiatry Refresher

1. agora/phobia fear of the marketplace, F40.00

2. psych/asthenia lack of strength in the mind (anxiety disorder), F48.8

3. tricho/tillo/mania preoccupation with pulling hair, F63.3

4. hypo/mania lesser preoccupation (a state less than full mania), F30.8

5. pedo/philia attraction toward children, F65.4

6. hemato/phobia fear of blood, F40.230

7. dys/morpho/phobia fear of abnormal body shape, F45.22

8. somn/ambul/ism condition of walking during sleep, F51.3

9. para/philia attraction near or beside (sexual deviation), F65.9

10. pseudo/cyesis false (imagined) pregnancy, F45.8

Exercise 17.2 Abstracting Diagnoses for Psychiatry

1.

  a. hyperactivity, short attention span, and irritability

  b. attention deficit hyperactive disorder

  c. predominately hyperactive type

  d. none, they are due to the main disorder

2.

  a. cocaine

b. dependence

c. yes

d. no

e. no

f. yes, hallucinations delusions

3.

a. medical management, prescription renewal

b. schizophrenia

c. paranoid

d. no

4.

a. "fussing and worry about his private parts", "desire to be like his sister"

b. gender identity disorder

c. autism

d. gender identity disorder

5.

a. gastritis with hemorrhaging

b. alcohol

c. yes, states it is alcohol-induced

d. dependence

e. yes

f. 0.09%, 90 mg per 100 ml

g. no

  h. cocaine

6.

  a. bipolar

  b. depressed

  c. no

  d. severe

  e. liver cirrhosis with ascites

  f. alcoholism

  g. dependence

  h. no

  i. bipolar, depressed

Exercise 17.3 Assigning Diagnosis Codes for Psychiatry

1. **F90.1** (Disorder, attention-deficit hyperactivity, hyperactive type)

2. **F14.250** (Dependence, drug, cocaine, with, psychosis, delusions)

3. **Z76.0** (Issue of, repeat prescription)

  F20.0 (Schizophrenia, paranoid)

Exercise 17.4 Arranging Diagnosis Codes for Psychiatry

1. **F64.2** (Disorder, gender identity, childhood)

  F84.0 (Disorder, autistic)

2. **K29.21** (Gastritis, alcoholic, with bleeding)

  F10.229 (Alcohol, intoxication, with dependence)

  F14.21 (History, personal, drug dependence, see Dependence, drug, cocaine, in

  remission)

Index to External Causes:

Y90.4 (External Cause Index, Blood alcohol level, 80-99 mg/100ml)

3. **F31.4** (Disorder, bipolar (I), current episode, severe depression)

   K70.31 (Cirrhosis, liver, alcoholic, with ascites)

   F10.288 (Dependence, alcohol, with, specified disorder NEC)

CONCEPT QUIZ

Completion

1. cognitive

2. sexual

3. impulse-control

4. mood

5. barbiturate

6. narcotic

7. hallucinogen

8. intoxication

9. in remission

10. use

Multiple Choice

1. B

2. D

3. C

4. A

5. B

6. C

7. B

8. A

9. D

10. A

KEEP ON CODING

1. **F05** (Syndrome, brain, acute *see* Delirium, due to, unknown etiology)

2. **F20.2** (Schizophrenia, catatonic)

3. **F98.8** (Thumb, sucking)

4. **F50.2** (Bulimia)

5. **F40.243** (Fear of—*see* Phobia. Phobia, specific, situational, flying)

6. **F17.203** (Dependence, drug, nicotine, with disorder, withdrawal)

7. **F10.182** (Disorder, sleep due to, alcohol, abuse)

8. **F31.81** (Disorder, bipolar Ⅱ)

9. **F43.22** (Disorder, adjustment, with, anxiety)

10. **F51.11** (Hypersomnia, primary)

11. **F65.3** (Voyeurism)

12. **F84.0** (Disorder, autistic)

13. **F73** (Disability, intellectual, profound (IQ under 20))

14. **F98.1** (Encopresis, psychogenic)

15. **F63.3** (Trichotillomania)

16. **F55.0** (Abuse, antacids)

17. **F44.2** (Stupor, dissociative)

18. **F51.3** (Sleep, walking)

19. **F94.0** (Mutism, selective)

20. **F45.8** (Torticollis, psychogenic)

21. **F34.1** (Disorder, dysthymic cyclothymic)

22. **F45.21** (Hypochondria)

23. **F82** (Syndrome, clumsiness)

24. **F17.210** (see Smoker, *see* Dependence, drug, nicotine, Tabular List: cigarettes)

25. **F14.21** (Dependence, drug, cocaine, in remission)

CODING CHALLENGE

1. **J45.40** (Asthma, persistent, moderate)

   F54 (Asthma, psychogenic)

2. **F43.12** (Disorder, posttraumatic stress, chronic)

3. **C79.31** (Table of Neoplasms, brain, secondary malignant)

   C25.9 (Table of Neoplasms, pancreas, primary malignant)

   F51.3 (Sleep, walking)

   E08.9 (Diabetes, secondary due to underlying condition)

   Z79.4 (Long term drug therapy, insulin)

4. **F11.23** (Dependence, drug, opioid, with withdrawal) 5.

   F34.1 (Depression, anxiety, persistent)

   R45.851 (Ideation, suicidal)

   Z56.0 (Unemployment, anxiety concerning)

5. **F31.75** (Disorder, bipolar (I), in remission, in partial remission, most recent episode, depressed)

6. **F53.0** (Depression, postpartum)

7. **F81.0** (Dyslexia, developmental)

   F81.81 (Disorder, spelling)

8. **F44.81** (Personality, multiple)

   D53.9 (Anemia, deficiency, nutritional)

   F70 (Disability, intellectual, mild)

9. **Z71.6** (Counseling, tobacco use)

   F17.220 (Dependence, drug, nicotine, chewing tobacco)

CHAPTER 18: DISEASES OF THE EYE AND ADNEXA (H00-H59)

CODING PRACTICE

Exercise 18.1 Eye Refresher

1. photo/kerat/itis inflammation of the cornea due to light, H16.131

2. retino/blast/oma neoplasm of embryonic cells in the retina, C69.22

3. lago/phthalmos inability of the eye to close, H02.209

4. blepharo/ptosis drooping of the eyelid, H02.403

5. dacryo/aden/itis inflammation of the tear gland, H04.001

6. kerato/malacia softening of the cornea, H18.443

7. retino/schisis splitting of the retina, H33.102

8. ambly/opia dimness of vision, H53.003

9. irido/cycl/itis inflammation of the iris and ciliary body, H20.9

10. a/phakia lack of a lens, H27.01

Exercise 18.2 Abstracting for Eye Conditions

1.
   a. use ultrasonic vibrations to liquefy the lens and suck it out, followed by implanting
      an artificial lens
   b. cataract
   c. age related, nuclear
   d. left

2.
   a. eye injections
   b. macular degeneration
   c. wet
   d. bilateral

3.
   a. blepharitis
   b. nonulcerative
   c. bilateral
   d. upper, upper

4.
   a. routine eye exam
   b. yes
   c. retinopathy
   d. nonproliferative

e. moderate

f. no

g. diabetes

h. type 2

5.

a. anterior uveitis

b. bilateral

c. cataract

d. neovascularization

e. left

f. yes

g. arthritis

h. rheumatoid, juvenile

6.

a. difficulty seeing, gritty feeling in eyes, ocular hyperemia

b. corneal deposits and conjunctival deposits

c. bilateral

d. yes

e. renal failure, stage 5

f. dialysis

Exercise 18.3 Assigning Codes for Eye Conditions

1. **H25.12** (Cataract, senile, nuclear, Tabular: left eye)

2. **H35.3232** (Degeneration, macula, exudative, Tabular: bilateral, stage 2)

3. Either code can be sequenced first:

   H01.004 (Blepharitis, left, upper)

   H01.001 (Blepharitis, right, upper)

Exercise 18.4 Arranging Codes for Eye Conditions

1. **Z01.01** (Examination, eye, with abnormal findings)

   E11.3393 (Diabetes, type 2, with retinopathy, nonproliferative, moderate, Tabular: bilateral)

2. **H20.9** (Uveitis (anterior) see Iridocyclitis (default unspecified code))

   H26.212 (Cataract, with neovascularization, left eye)

   M08.00 (Arthritis, rheumatoid, juvenile)

3. **H18.003** (Deposit, cornea, Tabular: bilateral)

   H11.113 (Deposit, conjunctiva, Tabular: bilateral)

   N18.6 (Disease, renal, end stage)

   Z99.2 (Status, hemodialysis)

Exercise 18.5 Coding Neoplasms of the Eye

1. **C69.21** (Retinoblastoma, Tabular: right eye)

2. **D31.42** (Melanocytoma, eyeball, Tabular: left eye)

   H40.52X0 (Glaucoma, secondary, left, stage unspecified)

3. **C79.49** (Table of Neoplasms, choroid, malignant secondary)

   Z85.3 (History, personal, malignant neoplasm, breast)

   Z90.11 (Status, mastectomy, Tabular: right breast and nipple)

4. **C44.112** (Table of Neoplasms, eyelid, Tabular: right eye)

5. **C88.4** (Lymphoma, mucosa associated lymphoid tissue)

CONCEPT QUIZ

Completion

1. adnexa

2. chalazion

3. vitreous body

4. diabetic retinopathy

5. uvea

6. macular degeneration

7. hordeolum

8. orbital cavity

9. conjunctivitis

10. keratitis

Multiple Choice

1. D

2. C

3. A

4. C

5. B

6. A

7. D

8. C

9. A

10. C

KEEP ON CODING

1. **H00.031** (Abscess, eyelid, Tabular: right upper eyelid)

   H00.034 (Abscess, eyelid, Tabular: left upper eyelid)

2. **H10.13** (Conjunctivitis, acute, atopic, Tabular: bilateral)

3. **H18.042** (Kayser-Fleischer ring, Tabular: left eye)

4. **H18.611** (Keratoconus, stable, Tabular: right eye)

5. **H25.033** (Cataract, senile, subcapsular polar, Tabular: bilateral)

6. **H35.121** (Retinopathy, of prematurity, stage 1, Tabular: right eye)

7. **H40.1290** (Glaucoma, open angle, low-tension, Tabular: unspecified eye, stage

   unspecified)

8. **C69.31** (Table of Neoplasms, choroid, malignant primary, Tabular: right eye)

9. **H47.032** (Hypoplasia, optic nerve, Tabular: left eye)

10. **H50.21** (Strabismus, vertical, Tabular: right eye)

11. **H02.822** (Cyst, eyelid, right, lower)

12. **H54.2** (Low, vision, Tabular: both eyes)

13. **H59.032** (Complication, postprocedural, following cataract surgery, Tabular: left eye)

14. **H51.11** (Insufficiency, convergence)

15. **H04.213** (Epiphora, due to, excess lacrimation, Tabular: bilateral)

16. **H49.41** (Ophthalmoplegia, external, progressive, Tabular: right eye)

17. **H33.312** (Break, retina, horseshoe, tear, Tabular: left eye)

18. **H30.813** (Disease, Harada's, Tabular: bilateral eye)

19. **H25.011** (Cataract, senile, cortical, Tabular: right eye)

20. **H15.833** (Staphyloma, posticum, Tabular: bilateral)

21. **H05.112** (Pseudotumor, orbital, Tabular: left eye)

22. **H02.403** (Blepharoptosis, Tabular: bilateral)

23. **H53.2** (Diplopia)

24. **H16.412** (Ghost, vessels, Tabular: left eye)

25. **H59.42** (Bleb, inflamed, stage 2)

CODING CHALLENGE

1. **Z01.01** (Examination, eye, with abnormal findings)

   H55.02 (Nystagmus, latent)

2. **H33.011** (Detachment, retina, with retinal break, single, Tabular: right eye)

3. **H16.041** (Ulcer, cornea, marginal, Tabular: right eye)

   H04.123 (Syndrome, dry eye, Tabular: bilateral)

4. **H11.063** (Pterygium recurrent, Tabular: bilateral)

5. **H26.052** (Cataract, presenile, subcapsular, posterior, Tabular: left eye)

   E75.5 (Xanthomatosis, cerebrotendinous)

6. **H34.12** (Occlusion, artery, retinal, central, Tabular: left eye)

   I10 (Hypertension)

   I25.9 (Disease, coronary artery, *see* Disease, heart, ischemic)

7. **H53.52** (Deficiency, color vision)

8. **H18.223** (Edema, cornea, idiopathic, Tabular: bilateral)

9. **H00.12** (Chalazion, right, lower)

10. **H10.45** (Conjunctivitis, chronic, allergic)

    H00.011 (Stye, *See* Hordeolum, right, upper)

CHAPTER 19: DISEASES OF THE EAR AND MASTOID PROCESS (H60-H95)

CODING PRACTICE

Exercise 19.1 Ear Refresher

1. labyrinth/itis inflammation of the labyrinth, H83.03

2. oto/sclero/sis hardening in the ear, H80.91

3. cholesteat/oma mass of fat (cholesterol, cells), H71.92

4. mastoid/itis inflammation of the mastoid process, H70.90

5. presby/cusis old (age) hearing, H91.13

6. oto/lith stone in the ear, H81.8X2

7. oto/rrhagia bleeding from the ear, H92.22

8. oto/rrhea discharge from the ear, H92.10

9. mastoid/algia pain in the mastoid bone, H92.02

10. tympano/scler/osis hardening of the eardrum, H74.03

Exercise 19.2 Abstracting for Ear Conditions

1.

  a. repair of the eardrum

  b. otitis media

  c. nonsuppurative (serous)

  d. bilateral

  e. chronic

2.

  a. severe nausea, vomiting, sweating, vertigo

b. no, they are due to Meniere's

c. Meniere's

d. left

3.

a. ringing, buzzing, difficulty hearing

b. no, they are integral to tinnitus

c. objective tinnitus, observable by the physician

d. right

4.

a. making an incision in the stapes bone

b. conductive

c. bilateral

d. growth of spongy bone in the inner ear

e. nonobliterative

f. the stapes at the oval window

g. bilateral

5.

a. left earache, fever, head congestion

b. otitis media

c. suppurative

d. acute

e. yes

f. earache, fever because it is suppurative and antibiotics were prescribed

g. left

h. sinusitis

i. acute

j. yes

k. head congestion, possibly fever

l. otitis media, because it is an infection

m. yes, mother smokes cigarettes in the house

6.

a. dizziness, nausea, headache, low back pain

b. inflammation of the labyrinth in the inner ear

c. right

d. dizziness, nausea, headache

e. low back pain; yes, physical therapy is ordered for it

Exercise 19.3 Assigning Codes for Ear Conditions

1. **H65.23** (Otitis, media, nonsuppurative, chronic, serous, bilateral)

2. **H81.02** (Meniere's disease, left)

3. **H93.11** (Tinnitus, Tabular: right)

Exercise 19.4 Arranging Codes for Ear Conditions

1. **H80.03** (Otosclerosis, involving oval window, nonobliterative, Tabular: bilateral)

   H90.0 (Deafness, conductive, Tabular: bilateral)

2. **H66.005** (Otitis, media, suppurative, acute, recurrent, Tabular: left ear)

   J01.91 (Sinusitis, acute, recurrent)

   Z77.22 (Exposure, environmental tobacco smoke)

3. **H83.01** (Labyrinthitis, Tabular: right ear)

   M54.5 (Pain, low back)

CONCEPT QUIZ

Completion

1. external

2. ceruminoma

3. sensorineural

4. middle

5. middle

6. suppurative

7. inner

8. labyrinthitis

9. vertigo

10. chronic

Multiple Choice

1. A

2. D

3. A

4. C

5. B

6. D

7. B

8. C

9. A

10. D

KEEP ON CODING

1. **H71.31** (Cholesteatosis, diffuse, right)

2. **H83.3X3** (Deafness, noise-induced, bilateral)

3. **H95.133** (Complication, postmastoidectomy, cyst, mucosal, bilateral)

4. **H60.332** (Swimmer's, ear, left)

5. **H61.811** (Exostosis, external ear canal, right)

6. **H70.813** (Fistula, postauricular, bilateral)

7. **H81.319** (Vertigo, aural, unspecified)

8. **H90.2** (Deafness, conductive)

9. **H80.21** (Otosclerosis, cochlear, right)

10. **H74.322** (Loss, ossicles, left)

11. **H70.213** (Petrositis, acute, bilateral)

12. **H95.811** (Stenosis, external ear canal, postprocedural, right)

13. **H92.02** (Otalgia, Tabular: left ear)

14. **C44.212** (Table of Neoplasms, skin, ear, basal cell, malignant primary, right)

15. **H65.419** (Otitis, media, nonsuppurative, chronic, allergic, unspecified)

16. **H93.231** (Hyperacusis, right)

17. **H74.12** (Otitis, adhesive, Tabular: left ear)

18. **H69.03** (Patulous, Eustachian tube, Tabular: bilateral)

19. **H60.552** (Otitis, externa, reactive, Tabular: right ear)

20. **H73.003** (Myringitis, acute, Tabular: bilateral)

21. **H81.09** (Hydrops, labyrinth, Tabular: unspecified ear)

22. **H72.92** (Perforation, tympanum, Tabular: left ear)

23. **H93.012** (Deafness, transient ischemic, Tabular: left ear)

24. **E88.02** (Deficiency, plasminogen)

    H67.1 (Instructional note at E88.02 to *Use additional code for associated findings,*

    such as otitis media (H67.-))

25. **H61.121** (Disorder, pinna, hematoma, Tabular: right ear)

CODING CHALLENGE

1. **H73.012** (Myringitis, acute, bullous, left)

2. **H91.03** (Deafness, ototoxic, see subcategory H91.0)

    T36.5X5A (Table of Drugs and Chemicals, tobramycin, adverse effect, initial)

3. **H74.41** (Polyp, ear (middle), right)

    H71.91 (Cholesteatoma in middle ear, right)

4. **H65.23** (Otitis, media, nonsuppurative, chronic, serous, bilateral)

    H72.13 (Rupture, eardrum, nontraumatic, see also Perforation, tympanum, attic, left)

5. **H68.012** (Salpingitis, Eustachian, acute, left)

    J06.9 (Infection, respiratory, upper)

6. **H65.116** (Otitis, media, nonsuppurative, acute or subacute, allergic, recurrent,

    bilateral)

    F17.200 (Smoker, *see* Dependence, drug, nicotine)

    Z77.22 (Exposure, second hand tobacco smoke)

7. **H61.21** (Cerumen, impacted, right)

8. **H60.23** (Otitis, externa, malignant, bilateral)

   B96.5 (Pseudomonas, aeruginosa, as cause of disease classified elsewhere)

   E10.9 (Diabetes, type 1)

9. **H60.02** (Abscess, ear, external)

10. **H70.012** (Mastoiditis, subperiosteal, Tabular: left ear)

CHAPTER 20: CERTAIN INFECTIOUS AND PARASITIC DISEASES (A00-B99)

CODING PRACTICE

Exercise 20.1 Infectious Disease Refresher

1. candida, inflammation of the bronchus due to candida, B37.1

2. syphilis, inflammation of the lining of the heart due to syphilis, A52.03

3. herpes, eyelid affected by the herpes virus, B02.39

4. typhus, inflammation of the meninges due to typhus, A01.01

5. amoeba, condition of the skin due to an amoeba, A06.7

6. parasite, inflammation of the mouth due to a parasite, B37.0

7. rickettsia (not rickets), an eruptive disease caused by rickettsia, A79.1

8. trichomonas, condition of the prostate due to trichomonas, A59.02

9. mycobacterium tuberculosis or tuberculous, condition of the anus due to

   tuberculosis, A18.32

10. gonococcus or gonorrhoeae, inflammation of the throat due to gonococcus, A54.5

Exercise 20.2 Abstracting for Infectious Diseases

1.

   a. lack of energy, fatigue, loss of appetite, fever, and chills

b. confirmed by blood test

c. Epstein-Barr virus

d. no, they are integral to the condition

2.

a. mycobacterium tuberculosis

b. no

c. lung

3.

a. *Staphylococcus aureus*

b. yes, *Staphylococcus*

c. yes

4.

a. Syphilis

b. primary

c. no

d. no

5.

a. *Staphylococcus aureus*

b. no

c. no

d. no

e. no

6.

a. yes

   b. yes

   c. yes

7.

   a. toe pain

   b. distal phalanx, right great toe

   c. right

   d. initial

   e. yes

   f. yes

   g. no

8.

   a. yes

   b. no

   c. no

   d. yes

9.

   a. dysuria, weakness, and fever

   b. urinary tract infection

   c. *Escherichia coli*, non-Shiga toxin-producing

   d. no

   e. yes

   f. no

g. urinary tract infection

10.

a. methicillin resistant *Staphyloccus aureus*

b. yes

c. yes

d. yes, documented as such; end organ damage is present with CHF

e. yes, heart failure

Exercise 20.3 Assigning Codes for Infectious Diseases

1. **B27.00** (Mononucleosis, Epstein-Barr)

2. **A15.0** (Tuberculosis, pulmonary)

3. **Z21** (Human, immunodeficiency virus, asymptomatic status)

   Z71.7 (Human, immunodeficiency virus, counseling)

4. **A51.0** (Syphilis, genital)

5. **A41.01** (Sepsis, Staphylococcus, aureus)

Exercise 20.4 Arranging Codes for Infectious Diseases

1. **B20** (Acquired, immunodeficiency syndrome)

   C46.0 (Kaposi's, sarcoma, skin)

2. **S92.421A** (Fracture, traumatic, toe, great, distal phalanx, right, initial encounter)

   B20 (Acquired, immunodeficiency syndrome)

   C46.3 (Kaposi's, sarcoma, lymph node)

   Index to External Causes:

   W55.19XA (Stepped on, by animal, Tabular: other contact with horse, initial

   encounter)

3. **J15.211** (Pneumonia, Staphylococcal, aureus)

4. **N39.0** (Infection, urinary)

   B96.29 (Escherichia coli, as cause of disease classified elsewhere, non-Shiga toxin-producing)

   Z21 (Human, immunodeficiency virus, asymptomatic)

5. **A41.02** (Sepsis, staphylococcus aureus, methicillin resistant)

   R65.20 (Sepsis, severe)

   I50.9 (Failure, heart)

   Index to External Causes:

   Y95 (Nosocomial condition)

CONCEPT QUIZ

Completion

1. HPV

2. trichinosis

3. leprosy

4. severe sepsis

5. HIV

6. opportunistic

7. herpes zoster

8. inconclusive

9. bacteria

10. septic shock

Multiple Choice

1. A

2. C

3. B

4. D

5. B

6. D

7. B

8. A

9. A

10. D

KEEP ON CODING

1. **A02.25** (Pyelonephritis, in Salmonella infection)

2. **A24.0** (Glanders)

3. **A48.51** (Botulism, infant)

4. **A54.23** (Orchitis, gonococcal)

5. **A81.83** (Insomnia, fatal familial)

6. **B05.3** (Otitis, media, postmeasles)

7. **B37.9** (Candidiasis)

8. **A39.0** (Meningitis, meningococcal)

9. **A19.2** (Tuberculosis, military, acute)

10. **B04** (Monkeypox)

11. **A28.1** (Fever, cat-scratch)

12. **B02.22** (Neuralgia, postherpetic, trigeminal)

13. **B00.0** (Eczema, herpeticum)

14. **B33.23** (Pericarditis, coxsackie)

15. **B58.82** (Myositis, in, toxoplasmosis)

16. **B56.1** (Trypanosomiasis, African, by Trypanosoma brucei, rhodesiense)

17. **A37.01** (Whooping cough, with pneumonia, due to, Bordetella, pertussis)

18. **B17.2** (Hepatitis, viral, type, E)

19. **A41.51** (Sepsis, Escherichia coli)

20. **A95.0** (Fever, jungle, yellow)

21. **B39.5** (Histoplasmosis, African)

22. **B92** (Sequelae, leprosy)

23. **A82.9** (Rabies)

24. **A74.0** (Conjunctivitis, chlamydial)

25. **A92.30** (Fever, West, Nile)

CODING CHALLENGE

1. **A04.4** (Colitis, *see also* Enteritis; Enteritis, due to, infectious organism, *see* Enteritis, infectious; Enteritis infectious NOS, due to, Escherichia coli)

2. **B02.7** (Herpes, zoster, disseminated)

3. **Z11.4** (Screening, disease, human immunodeficiency virus (HIV) infection)

   Z20.6 (Exposure, human immunodeficiency virus)

4. **B18.1** (Hepatitis, B, chronic)

5. **A02.0** (Poisoning, food, due to, salmonella, with gastroenteritis)

6. **J95.02** (Complication, tracheostomy, infection)

   L03.221 (Cellulitis, neck)

   B95.4 (Streptococcus, specified NEC, as cause of disease classified elsewhere)

7. **B51.0** (Malaria, vivax, with ruptured spleen)

8. **B85.0** (Infestation, lice, *see* Infestation, Pediculus, head)

9. **A30.4** (Leprosy, BL)

10. **A41.9** (Sepsis)

    K04.7 (Infection, tooth)

CHAPTER 21: DISEASES OF THE GENITOURINARY SYSTEM (N00-N99)

CODING PRACTICE

Exercise 21.1 Genitourinary System Refresher

1. a/meno/rrhea lack of menstrual flow N91.2

2. cysto/lith/iasis abnormal condition of stones in the bladder N21.0

3. dys/pareun/ia painful sexual intercourse N94.10

4. hydro/cele water hernia (used to describe an accumulation of fluid in the spermatic cord) N43.3

5. cysto/pto/sis prolapse or sagging of the bladder N32.89

6. nephr/algia kidney pain N23

7. urethro/rrhag/ia bleeding from the urethra N36.8

8. nephr/osis abnormal condition of the kidney N04.9

9. uretero/cele hernia of the ureter N28.89

10. pyleo/nephro/sis condition of the kidney and renal pelvis N11.1

Exercise 21.2 Abstracting for for Genitourinary System Conditions

1.

    a. female reproductive

    b. endometriosis

    c. uterus

    d. no, endometriosis is not caused by an infectious organism

2.

    a. female reproductive

    b. fibrocystic changes

    c. breast

    d. bilateral

    e. no

    f. no

3.

    a. urinary

    b. occasional excruciating low back pain

    c. calculi

    d. yes

    e. kidney and ureter

    f. Laterality does not apply.

    g. no

4.

    a. male reproductive

b. benign prostatic hypertrophy

c. yes

d. urinary retention

5.

a. female reproductive

b. vaginal discharge, burning, redness in perineal area

c. vaginitis

d. bacterial

e. *Staphylococcus*

f. no, it is treatable

6.

a. urinary

b. urinary tract infection

c. no

d. *Escherichia coli*, non-Shiga toxin-producing

e. yes

Exercise 21.3 Assigning Codes for Genitourinary System Conditions

1. **N80.0** (Endometriosis, uterus)

2. **N60.11** (Fibrocystic, disease, breast, *see* Mastopathy, cystic, right)

   N60.12 (Mastopathy, cystic, left)

3. **N20.2** (Calculus, kidney, with calculus, ureter)

Exercise 21.4 Arranging Codes for Genitourinary System Conditions

1. **N40.1** (Enlarged prostate, with lower urinary tract symptoms)

   N13.8 (Obstruction, urinary)

   R33.8 (Retention, urinary)

2. **N76.0** (Vaginitis, bacterial)

   B95.8 (Infection, bacterial, as cause of disease classified elsewhere,

   staphylococcus).

3. **N39.0** (Infection, urinary tract)

   B96.29 (Escherichia coli, as cause of disease classified elsewhere, non-Shiga toxin-

   producing)

   Z87.440 (History, personal, urinary tract infection)

Exercise 21.5 Coding Neoplasms of the Genitourinary System

1. **C61** (Table of Neoplasms, prostate, malignant primary)

2. **Z51.0** (Radiation, therapy)

   C67.8 (Table of Neoplasms, bladder, orifice, overlapping lesions, primary malignant)

   C79.82 (Table of Neoplasms, prostate, malignant secondary)

3. **N30.41** (Cystitis, irradiation, with hematuria)

   C56.9 (Table of Neoplasms, ovary, malignant primary, unspecified laterality)

   C79.9 (Table of Neoplasms, malignant secondary)

   Index to External Causes:

   Y84.2 (Radiation, complication of or abnormal reaction to)

4. **D17.71** (Angiomyolipoma, *see* Lipoma, kidney)

5. **D05.12** (Table of Neoplasms, breast, upper inner quadrant, in situ, female, left)

CONCEPT QUIZ

Completion

1. ureter

2. nephritic

3. glomerulus

4. diabetic nephropathy

5. EP

6. glomerulus

7. cervical dysplasia

8. ESRD

9. calculi

10. dialysis

Multiple Choice

1. D

2. A

3. D

4. C

5. B

6. C

7. B

8. A

9. B

10. C

KEEP ON CODING

1. **N13.4** (Hydroureter)

2. **N99.512** (Complication, cystostomy, malfunction)

3. **C65.2** (Table of Neoplasms, kidney, pelvis, malignant primary, left)

4. **N21.1** (Urethrlithiasis)

5. **N81.0** (Urethrocele)

6. **N12** (Nephritis, interstitial-*see* Nephritis, tubulo-interstitial)

7. **N30.30** (Trigonitis)

8. **N18.6** (Disease, kidney, chronic, stage 5 Excludes1 note in Tabular List at N18.5

   redirects to N18.6 for stage 5 requiring dialysis)

   Z99.2 (Dialysis, renal)

9. **N26.1** (Atrophy, kidney)

10. **N36.41** (Hypermobility, urethra)

    N39.3 (Incontinence, urine, stress)

11. **N21.0** (Stone, bladder)

12. **N28.86** (Ureteritis, cystica)

13. **N40.1** (Enlarged, prostate, with lower urinary tract symptoms)

    R35.1 (Nocturia)

14. **N46.11** (Oligospermia)

15. **N48.31** (Priapism, due to, trauma)

16. **N43.1** (Hydrocele, infected)

    B96.20 (Escherichia coli as cause of disease classified elsewhere, unspecified)

17. **N44.1** (Cyst, tunica albuginea testes)

18. **E11.69** (Diabetes, type 2, with, complication, specified, NEC)

    N52.1 (Dysfunction, sexual, male, due to, disease classified elsewhere)

19. **N62** (Gynecomastia)

20. **N83.529** (Torsion, fallopian tube, tabular: unspecified side)

21. **N86** (Ulcer, cervix)

22. **N91.1** (Amenorrhea, secondary)

23. **N85.4** (Anteversion, uterus)

24. **N80.5** (Endometriosis, intestine)

25. **N75.0** (Cyst, Bartholin's gland)

CODING CHALLENGE

1. **N17.0** (Failure, renal, acute, with, tubular necrosis)

   I10 (Hypertension)

2. **E08.21** (Diabetes, due to underlying condition, with, glomerulonephrosis)

   K86.0 (Pancreatitis, chronic, alcohol induced)

   F10.288 (Dependence, alcohol, with, specified disorder NEC)

   Z79.4 (Long term drug therapy, insulin)

3. **N18.6** (Disease, kidney, chronic, stage 5, Excludes1 note in Tabular List at N18.5

   redirects to N18.6 for stage 5 requiring dialysis)

   Q61.19 (polycystic, kidney autosomal, recessive)

   Z99.2 (Dialysis, renal)

4. **N41.0** (Prostatitis, acute)

   B95.2 (Infection, bacterial, as cause of disease classified elsewhere, enterococcus)

5. **N48.1** (Balanitis)

   B96.20 (Escherichia coli as cause of disease classified elsewhere)

6. **N81.3** (Cystocele, female, with prolapse of uterus-*see* Prolapse, uterus, third

   degree)

7. **N94.6** (Pain, menstrual)**N85.4** (Retroversion, uterus)

8. **N87.1** (CIN-*see* Neoplasia, intraepithelial, cervix, grade Ⅱ)

9. **N81.12** (Cystocele, female, lateral)

10. **Z12.31** (Screening, neoplasm, breast, routine mammogram)

    N63.10 (Mass, breast, right)

    R92.0 (Microcalcification, breast)

CHAPTER 22: PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM (O00-O9A)

CODING PRACTICE

Exercise 22.1 Obstetrics Refresher

1. hyper/emesis excessive vomiting O21.0

2. ante/partum hemo/rrhage flow of blood before birth O46.92

3. amnion/itis inflammation of the amnion O41.1210

4. iso/immunization production of antibodies against the same species O36.0920

5. oligo/hydr/amnios little water in the amnion O41.02X0

6. salpingo-oophor/itis inflammation of the tubes and ovaries O23.521

7. intra/peritoneal within the peritoneum O00.00

8. primi/gravida first pregnancy O09.512

9. cervical dys/tocia difficult labor due to the cervix O62.2

10. abruptio placentae detachment of the placenta O45.93

Exercise 22.2 Abstracting Diagnoses for Obstetrics

1.

   a. no

   b. 2nd trimester, 26 weeks

   c. 3

   d. 2

   e. none

   f. placenta previa, hemorrhage

2.

   a. no

   b. 3rd trimester, 40 weeks

   c. 1

   d. 0

   e. none

   f. 40 weeks, 2 days

   g. unstable lie

   h. no

   i. unstable lie

3.

   a. yes, over age 35

   b. 1st trimester, 10 weeks

   c. 1

d. 0

e. none

f. 10 weeks, 4 days

g. the patient's age is a complication

h. prenatal encounter for high-risk pregnancy

4.

a. no

b. 2nd, 24 weeks

c. 3

d. 2

e. none

f. 24 weeks, 6 days

g. gestational diabetes, controlled with diet

h. gestational diabetes

5.

a. no

b. 3rd trimester, 28 weeks

c. 2

d. 1

e. none

f. 28 weeks, 3 days

g. Rhesus incompatibility

h. Rhesus incompatibility

6.

   a. full term labor

   b. during week 38 (37 completed weeks)

   c. vaginal

   d. no

   e. no

   f. placental infarction

   g. 1 fetus, 1 stillbirth

7.

   a. no

   b. 1st trimester, 12 weeks

   c. 2

   d. 1

   e. none

   f. 12 weeks, 0 days

   g. pernicious anemia

   h. pernicious anemia

8.

   a. premature rupture of membranes

   b. 33rd

   c. classical cesarean

   d. severe pre-eclampsia

   e. no

    f. none

    g. 1 live birth

9.

    a. yes, under age 16

    b. 3rd trimester, 30 weeks

    c. 1

    d. 0

    e. none

    f. 30 weeks, 4 days

    g. 1 chorion, 2 amnions

    h. gestational proteinuria

10.

    a. postterm labor

    b. during week 42

    c. cesarean

    d. obstructed labor due to cephalopelvic disproportion

    e. severe obesity of mother

    f. cephalopelvic disproportion

    g. 1, live birth

Exercise 22.3 Assigning Diagnosis Codes for Obstetrics

1. **O44.12** (Pregnancy, complicated by, placenta, previa with hemorrhage, second

    trimester)

O48.0 (Pregnancy, post-term)

Z3A.26 (Pregnancy, weeks of gestation, 26 weeks)

2. **O32.0XX0** (Pregnancy, complicated by, unstable lie, single fetus)

   Z3A.40 (Pregnancy, weeks of gestation, 40 weeks)

3. **O09.511** (Pregnancy, supervision of, elderly mother, primigravida, first trimester)

   Z3A.10 (Pregnancy, weeks of gestation, 10 weeks)

4. **O24.410** (Diabetes, gestational, diet controlled)

   Z3A.24 (Pregnancy, weeks of gestation, 24 weeks)

5. **O09.893** (Pregnancy, supervision of, high risk, due to, specified, NEC, third

   trimester)

   O36.0130 (Rh, incompatibility affecting management of pregnancy, anti-D antibody,

   third trimester, single gestation)

   Z3A.28 (Pregnancy, weeks of gestation, 28 weeks)

Exercise 22.4 Arranging Diagnosis Codes for Obstetrics

1. **O43.813** (Infarct/Infarction, placenta, third trimester)

   O36.4XX0 (Pregnancy, complicated by, death of fetus, single gestation)

   Z37.1 (Outcome of delivery, single, stillborn)

   Z3A.37 (Pregnancy, weeks of gestation, 37 weeks)

2. **O99.011** (Pregnancy, complicated by anemia, first trimester)

   D51.0 (Anemia, pernicious)

   Z3A.12 (Pregnancy, weeks of gestation, 12 weeks)

3. **O42.913** (Delivery, complicated, premature rupture of membranes, unspecified

   length of time between rupture and onset of labor, third trimester)

O14.13 (Delivery, cesarean, pre-eclampsia, severe, third trimester)

O60.14X0 (Delivery, preterm, third trimester, third trimester)

Z37.0 (Outcome of delivery, single, liveborn)

Z3A.32 (Pregnancy, weeks of gestation, 32 weeks)

4. **O09.613** (Pregnancy, supervision, high risk, due to, very young mother, primigravida, third trimester)

   O12.13 (Pregnancy, complicated by, proteinuria, third trimester)

   O30.033 (Pregnancy, twin, monochorionic/diamniotic, third trimester)

   Z3A.30 (Pregnancy, weeks of gestation, 30 weeks)

5. **O65.4** (Delivery, complicated by, obstruction, fetopelvic disproportion,)

   O48.0 (Pregnancy, post-term)

   O99.214 (Delivery, complicated by, obesity, complicating pregnancy)

   E66.01 (Obesity, severe)

   Z68.41 (BMI, 40.0-44.9)

   Z37.0 (Outcome of delivery, single, liveborn)

   Z3A.41 (Pregnancy, weeks of gestation, 41 weeks)

CONCEPT QUIZ

Completion

1. peripartum
2. parturition
3. last menstrual period
4. third trimester
5. nuchal cord

6. Rhesus incompatibility

7. preeclampsia

8. MoDi

9. fetopelvic

10. PROM

Multiple Choice

1. C

2. B

3. A

4. B

5. C

6. B

7. D

8. D

9. C

10. D

KEEP ON CODING

1. **O00.101** (Pregnancy, tubal)

2. **O09.513** (Pregnancy, supervision of, high-risk, due to older mother – *see*

   Pregnancy, supervision of, elderly mother, primigravida, third trimester)

   Z3A.35 (Pregnancy, weeks, 35)

3. **O20.0** (Threatened, abortion)

4. **O99.844** (Pregnancy, complicated by, bariatric surgery status, childbirth)

   Z3A.36 (Pregnancy, weeks, 36)

5. **O26.01** (Pregnancy, complicated by, excessive weight gain, first trimester)

   Z3A.12 (Pregnancy, weeks, 12)

6. **O24.03** (Puerperal, diabetes, pre-existing, type 1)

7. **O32.1XX0** (Pregnancy, complicated by, breech, unspecified)

   Z3A.39 (Pregnancy, weeks, 39)

8. **O92.6** (Galactorrhea)

9. **O90.5** (Thyroiditis, postpartum)

10. **O29.012** (Pregnancy, complicated by, adverse effect anesthesia, aspiration

    pneumonitis, second trimester)

    Z3A.26 (Pregnancy, weeks, 26)

11. **O9A.113** (Pregnancy, complicated by, neoplasm, malignant, third trimester)

    C91.00 (Leukemia, acute lymphoblastic)

    Z3A.30 (Pregnancy, weeks, 30)

12. **O03.32** (Abortion, incomplete, complicated, renal failure or shutdown)

13. **O26.41** (Herpes, gestational, first)

    Z3A.10 (Pregnancy, weeks, 10)

14. **O36.8290** (Pregnancy, complicated by, fetal, anemia, unspecified trimester,

    unspecified fetus)

15. **O61.0** (Pregnancy, complicated by, failed induction of labor, medical)

    O48.0 (Pregnancy, post-term)

    Z3A.40 (Pregnancy, weeks, 40)

16. **O30.103** (Pregnancy, triplet, third trimester)**Z37.51** (Outcome, multiple, all liveborn, triplets)

    Z3A.38 (Pregnancy, weeks, 38)

17. **O60.03** (Pregnancy, complicated by, preterm labor, without delivery, third trimester,)

    Z3A.33 (Pregnancy, weeks, 33)

18. **O99.313** (Pregnancy, complicated by, alcohol use, third trimester)

    Z3A.37 (Pregnancy, weeks, 37)

19. **O80** (Delivery, normal)

    Z37.0 (Outcome of delivery, single, liveborn)

    Z3A.38 (Pregnancy, weeks of gestation, 38 weeks)

20. **O91.02** (Puerperal, abscess, nipple)

21. **O99.810** (Pregnancy, complicated by, abnormal, glucose)

    Z3A.22 (Pregnancy, weeks, 22)

22. **O22.42** (Pregnancy, complicated by, hemorrhoids, second trimester)

    Z3A.26 (Pregnancy, weeks, 26)

23. **O34.32** (Pregnancy, complicated by, incompetent cervix, second trimester)

    Z3A.25 (Pregnancy, weeks, 25)

24. **O23.01** (Pregnancy, complicated by, infection, kidney, first trimester)

    Z3A.12 (Pregnancy, weeks, 12)

25. **O9A.311** (Pregnancy, complicated by, abuse, physical, first trimester)

    Z3A.01 (Pregnancy, weeks, less than 8)

CODING CHALLENGE

1. **S43.401A** (Sprain, shoulder joint, NOS, initial encounter)

   Z33.1 (Pregnancy, incidental finding)

   Y93.H9 (Activity, maintenance, yard)

   Y92.017 (Place of occurrence, residence, single family, yard)

   Y99.8 (Status, leisure)

2. **O98.712** (Pregnancy, complicated by, HIV, second trimester)

   Z21 (HIV, asymptomatic)

   Z3A.19 (Pregnancy, weeks, 19)

3. **O09.521** (Pregnancy, supervision of, high risk, older mother, multigravida, first

   trimester)

   O09.811 (Pregnancy, supervision of, high risk, in vitro fertilization, first trimester)

   O09.291 (Pregnancy, supervision of, high risk, poor reproductive history, first

   trimester)

   Z3A.10 (Pregnancy, weeks, 10)

4. **O69.2XX1** (Delivery, complicated by, cord, entanglement, with compression, fetus 1)

   O30.043 (Pregnancy, twin, dichorionic/diaamniotic, third trimester)

   Z37.2 (Outcome of delivery, twins, both liveborn)

   Z3A.39 (Pregnancy, weeks, 39)

5. **O86.01** (Infection, obstetrical surgical wound, superficial incisional site)

   B95.8 (Staphylococcus, as cause of disease classified elsewhere, unspecified)

6. **O64.4XX0** (Delivery, complicated by, obstruction, due to, prolapsed arm, single

   gestation)

O70.0 (Delivery, complicated by, laceration, perineal, first degree)

Z37.0 (Outcome of delivery, single, liveborn)

Z3A.39 (Pregnancy, weeks, 39)

7. **O07.4** (Abortion, attempted)

O35.1XX0 (Pregnancy, complicated by, fetal, chromosomal abnormality, single gestation)

Z3A.12 (Pregnancy, weeks, 12)

8. **O91.12** (Abscess, breast, puerperal, *see* Mastitis, obstetric, purulent, puerperium)

9. **O10.011** (Hypertension, complicating pregnancy, preexisting, essential, first trimester)

Z3A.11 (Pregnancy, weeks, 11)

10. **O42.113** (Pregnancy, complicated by, premature rupture of membranes, with onset of labor, after 24 hours, preterm, third trimester)

O34.212 (Delivery, vaginal, after previous cesarean delivery, classical (vertical) scar)

O60.14X0 (Delivery, preterm, third trimester, third trimester)

Z37.0 (Outcome of delivery, single, liveborn)

Z3A.31 (Pregnancy, weeks, 31)

CHAPTER 23: CERTAIN CONDITIONS ORIGINATING IN THE PERINATAL PERIOD (P00-P96)

CODING PRACTICE

Exercise 23.1 Perinatal Refresher

1. tachy/card/ia pertaining to rapid heart rate P29.11

2. intra/uter/ine within the uterus P50.9

3. hyper/bilirubin/emia excessive bilirubin in the blood P59.9

4. matern/al pertaining to the mother, poly/hydr/amnios excessive amniotic fluid P01.3

5. mast/itis inflammation of the breast P39.0

6. omphal/itis inflammation of navel P38.9

7. hyp/oxic low oxygen, ischem/ic lack of blood supply, en/cephalo/pathy abnormal condition inside the head P91.60

8. chorio/amnion/itis inflammation of the chorion and amnion sacs P02.7

9. hypo/natr/emia low sodium in the blood P74.2

10. erythro/blasto/sis abnormal condition of immature red blood cells, fet/al/is condition pertaining to the fetus P55.9

Exercise 23.2 Abstracting Diagnoses for Perinatal Conditions

1.

    a. yes

    b. vaginal

    c. 3,521 grams

    d. 38 weeks, 2 days

    e. no

    f. no

    g. none

2.

    a. 22 days

    b. routine newborn exam

    c. no

3.

    a. 13 days

    b. neonatal check up

    c. yes, neonatal diabetes

4.

    a. 18 days

    b. mother found baby not breathing

    c. apnea

    d. central sleep apnea

    e. none

    f. yes, by definition because the infant is only 18 days old

5.

    a. yes

    b. vaginal

    c. 3,200 grams

    d. 39 weeks, 6 days

    e. no

    f. no

    g. bradycardia during labor

    h. none, the bradycardia is a condition of the infant, not the mother

6.

    a. no

b. yes

c. vaginal

d. 3,765 grams

e. 43 weeks, 3 days

f. no

g. no

h. none

i. meconium aspiration

j. with dyspnea and tachypnea

7.

a. no, this is a readmission

b. vaginal

c. 2,016 grams

d. 35 weeks, 5days

e. yes, jaundice

f. no

g. jaundice

8.

a. no, infant was transferred in from Valley Hospital

b. cesarean

c. 1,923 grams

d. 37 weeks, 2 days

e. no

f. no

g. maternal preeclampsia, maternal tobacco use

h. small for gestational age, intrauterine growth restriction

9.

a. 22 days

b. foul smelling urine

c. urinary tract infection

d. due to E. coli

e. none

f. yes, based on the age

10.

a. 4 days

b. neonatal examination

c. breast engorgement

d. none

e. none

f. yes, based on the age

Exercise 23.3 Assigning Codes for Perinatal Conditions

1. **Z38.00** (Newborn, born in hospital)

2. **Z00.110** (Newborn, examination, under 8 days old)

3. **Z00.111** (Newborn, examination, 8 to 28 days)

    P70.2 (Diabetes, neonatal)

4. **P28.3** (Apnea, newborn, sleep)

5. **Z38.00** (Newborn, born in hospital)

   P03.811 (Newborn, affected by, heart rate abnormalities, intrauterine, during labor)

Exercise 23.4 Arranging Codes for Perinatal Conditions

1. **Z38.1** (Newborn, born outside hospital)

   P08.22 (Prolonged, gestation, newborn)

   P24.01 (Aspiration, meconium, with, respiratory symptoms)

2. **P59.0** (Newborn, jaundice, due to, preterm delivery)

   P07.18 (Low, birthweight, with weight of, 2000-2499 grams)

   P07.38 (Preterm, newborn, gestational age, 35 completed weeks)

3. **P05.17** (Small-for-dates, 1750-1999)

   P05.9 (Newborn, affected by, fetal, growth retardation)

   P00.0 (Newborn, affected by, maternal, hypertensive disorder)

   P04.2 (Newborn, affected by, tobacco)

4. **P39.3** (Infection, urinary, newborn)

   B96.29 (Escherichia coli, as cause of disease classified elsewhere, non-Shiga toxin-

   producing)

5. **Z00.110** (Newborn, Examination, under 8 days old)

   P83.4 (Engorgement, breast, newborn)

CONCEPT QUIZ

Completion

1. LBW

2. 2,500 to 4,000

3. MAS

4. LGA

5. birth trauma

6. omphalitis

7. transitory

8. neonate

9. amni/o

10. 2,500

Multiple Choice

1. C

2. D

3. D

4. B

5. A

6. B

7. D

8. B

9. D

10. C

KEEP ON CODING

1. **P94.0** (Myasthenia, gravis, neonatal)

2. **P10.0** (Hematoma, subdural, newborn, birth injury)

3. **P05.14** (Small-for-dates, 1000-1249 grams)

4. **P54.1** (Melena, newborn)

5. **P23.5** (Pneumonia, congenital, due to, Pseudomonas)

6. **P08.21** (Post-term, infant)

7. **P92.4** (Overfeeding, newborn)

8. **P58.3** (Jaundice, newborn, due to, polycythemia)

9. **P96.3** (Craniotabes, neonatal)

10. **P28.10** (Atelectasis, newborn)

11. **P76.1** (Ileus, newborn, transitory)

12. **P24.20** (Aspiration, blood, newborn)

13. **P14.2** (Paralysis, nerve, phrenic)

14. **P03.4** (Newborn, affected, Cesarean delivery)

15. **P07.31** (Pre-term, newborn, gestational, 28 completed weeks)

16. **P78.3** (Diarrhea, neonatal)

17. **P70.1** (Newborn, affected, maternal, diabetes mellitus)

18. **P72.0** (Goiter, neonatal)

19. **P61.2** (Anemia, of prematurity)

20. **P83.5** (Hydrocele, congenital)

21. **P55.0** (Isoimmunization, newborn, Rhesus (Rh) factor)

22. **P91.5** (Coma, newborn)

23. **P29.81** (Arrest, cardiac, newborn)

24. **P51.0** (Hemorrhage, umbilicus, newborn, massive)

25. **P61.5** (Neutropenia, neonatal)

CODING CHALLENGE

1. **Z38.01** (Newborn, born in hospital, by cesarean)

   P08.0 (Large-for-dates, exceptionally, 4500 grams or more)

2. **Z38.00** (Newborn, born in hospital)

   P08.21 (Post term, infant)

3. **T40.1X1A** (Table of Drugs and Chemicals, heroin, poisoning, accidental, initial

   encounter)

   P96.1 (Syndrome, withdrawal, drug, infant of dependent mother)

   P07.15 (Low, birthweight, with weight of, 1250-1499 grams)

   P07.33 (Preterm, newborn, gestational age, 30 completed weeks)

4. **Z38.01** (Newborn, born in hospital, by cesarean)

   P70.0 (Newborn, affected by, maternal, gestational diabetes)

   P03.4 (Newborn, affected by, delivery, cesarean)

   P22.0 (Distress, respiratory, newborn, unspecified)

5. **Z38.00** (Newborn, born in hospital)

   P03.1 (Newborn, affected by, malpresentation NEC)

   P13.4 (Fracture, traumatic, clavicle, birth injury)

6. **P38.1** (Omphalitis, with mild hemorrhage)

7. **Z38.61** (Newborn, triplet, born in hospital)

   P07.03 (Low, birthweight, extreme, with weight of, 750-799 grams)

   P07.31 (Preterm, newborn, gestational age, 28 completed weeks)

   I42.8 (Newborn, affected by, cardiomyopathy)

8. **Z38.00** (Newborn, born in hospital)

   P14.3 (Injury, brachial plexus, newborn)

9. **P36.2** (Newborn, sepsis, due to, staphylococcus, aureus)

   R65.20 (Sepsis, severe)

   J96.00 (Failure, respiratory, acute, unspecified)

   P02.7 (Newborn, affected by, amnionitis)

10. **P55.1** (Isoimmunization, newborn, ABO)

CHAPTER 24: CONGENITAL MALFORMATIONS, DEFORMATIONS, AND CHROMOSOMAL ABNORMALITIES (Q00-Q99)

CODING PRACTICE

Exercise 24.1 Congenital Abnormalities Refresher

1. ichthy/osis abnormal condition of scaliness Q80.9

2. a/gene/sis lack of forming (absence) Q60.0

3. en/cephalo/cele hernia of the brain Q01.0

4. macr/otia large ear Q17.1

5. a/tresia lack of opening Q52.4

6. crypt/orch/ism condition of hidden testicles Q53.9

7. poly/dactyl many fingers or toes Q69.9

8. poly/cystic many cysts Q61.3

9. bi/cornate two horns or heart shaped Q51.3

10. pseudo/herm/aphrodit/ism false condition of male and female Q56.3

Exercise 24.2 Abstracting for Congenital Abnormalities

1.

    a. Marfan's syndrome

    b. not applicable

    c. yes

    d. mitral valve prolapse

    e. MVP is not integral to Marfan's syndrome

    f. no others

    g. MVP

2.

    a. renal cyst

    b. congenital

    c. yes

    d. none

    e. not applicable

    f. congenital hydronephrosis

    g. congenital renal cyst

3.

    a. lack of a uterus

    b. none

    c. yes, it is congenital by definition

    d. amenorrhea

    e. amenorrhea

f. none

g. lack of a uterus

4.

a. esophageal ring

b. Schatzki

c. yes, stated as congenital

d. spitting up

e. spitting up

f. none

g. Schatzki esophageal ring

5.

a. polydactyl

b. accessory thumb of right hand

c. yes, it is congenital by definition

d. none

e. none

f. none

g. accessory thumb of right hand

6.

a. Down syndrome

b. nonmosaic

c. yes, Down syndrome is congenital by definition

    d. hypotonia, sleep apnea due to hypertrophy of tonsils and adenoids, atrial septal

       defect

    e. hypotonia

    f. no others mentioned

    g. Down syndrome

7.

    a. Prader-Willi

    b. none

    c. yes

    d. hypotonia, hypogonadism

    e. hypotonia

    f. small for gestational age

    g. birth

8.

    a. Microgastria

    b. not applicable

    c. yes

    d. none

    e. not applicable

    f. failure to thrive

    g. routine examination

9.

    a. pyloric stenosis

b. not applicable

c. yes

d. vomiting

e. vomiting

f. Meckel's diverticulum

g. birth; pyloric stenosis was treated during the admission

10.

a. ventricular septal defect

b. none

c. yes

d. heart murmur

e. heart murmur

f. patent foramen ovale

g. VSD was treated so it is the first-listed diagnosis

Exercise 24.3 Assigning Codes for Congenital Abnormalities

1. **Q87.418** (Syndrome, Marfan's, with, cardiovascular manifestations)

2. **Q61.01** (Cyst, kidney, solitary)

    Q62.0 (Hydronephrosis, congenital)

3. **Q51.0** (Absence, uterus, congenital)

4. **Q39.3** (Ring, Schatzki's, congenital)

5. **Q69.1** (Accessory, thumb)

Exercise 24.4 Arranging Codes for Congenital Abnormalities

1. **Q90.0** (Down syndrome, nonmosaicism)

   Q21.1 (Defect, septal, atrial)

   Q34.8 (Anomaly, respiratory system, other specified)

2. **Z38.00** (Newborn, born in hospital)

   P05.18 (Small-for-dates, 2000-2499 grams)

   Q87.1 (Prader-Willi syndrome)

   Q55.1 (Hypoplasia, testis)

3. **Z00.121** (Examination, child, with abnormal findings

   Q40.2 (Microgastria)

   R62.51 (Failure, to thrive)

4. **Z38.01** (Newborn, born in hospital, by cesarean)

   Q40.0 (Stenosis, pylorus, congenital)

   Q43.0 (Meckel's diverticulitis, diverticulum)

5. **Q21.0** (Defect, septal, ventricular)

   Q21.1 (Patent, foramen, ovale)

CONCEPT QUIZ

Completion

1. chromosomal abnormality

2. deformity

3. cleft palate

4. hydronephrosis

5. transposition of the great vessels

6. mothers

7. hypospadias

8. Marfan's syndrome

9. Down syndrome

10. Turner's syndrome

Multiple Choice

1. B

2. A

3. C

4. A

5. C

6. B

7. D

8. B

9. D

10. B

KEEP ON CODING

1. **Q15.0** (Glaucoma, congenital)

2. **Q50.31** (Accessory, ovary)

3. **Q96.0** (Karyotype, 45, X)

4. **Q85.03** (Schwannomatosis)

5. **Q71.62** (Lobster-claw hand, left)

6. **Q66.89** (Clawfoot)

7. **Q45.2** (Cyst, pancreas, congenital)

8. **Q03.0** (Anomaly, aqueduct of Sylvius)

9. **Q63.2** (Ectopic, kidney)

10. **Q83.3** (Supernumerary, nipple)

11. **Q31.3** (Laryngocele)

12. **Q36.1** (Cleft, lip, median)

13. **Q17.4** (Low, set ears)

14. **Q00.0** (Anencephalus)

15. **Q07.02** (Arnold-Chiari disease, obstruction or syndrome, with, hydrocephalus)

16. **Q67.3** (Plagiocephaly)

17. **Q87.40** (Syndrome, Marfan's)

18. **Q13.5** (Blue, sclera)

19. **Q22.5** (Ebstein's anomaly or syndrome)

20. **Q25.29** (Atresia, aorta)

21. **Q77.2** (Syndrome, short, rib)

22. **Q76.2** (Spondylolysis, congenital)

23. **Q82.5** (Strawberry, mark)

24. **Q81.1** (Epidermolysis, bullosa, letalis)

25. **Q40.1** (Hernia, hiatal, congenital)

CODING CHALLENGE

1. **Z38.00** (Newborn, born in hospital)

   Q37.1 (Cleft, lip, with cleft palate, hard)

2. **S67.10XA** (Crush, fingers, unspecified, initial encounter)

   Q74.0 (Development, defective, congenital, *see* Anomaly, by site, Anomaly, hand)

   Index to External Causes:

   W49.9XXA (Exposure, mechanical forces NEC, inanimate NEC, initial encounter)

   Y99.0 (Status of external cause, civilian activity done for financial or other

   compensation)

3. **Q23.0** (Syndrome, Shone's, code to specific anomalies, Stenosis, aortic, congenital)

   Q24.4 (Stenosis, subaortic)

   Q25.1 (Coarctation, aorta)

   Q23.1 (Bicuspid aortic valve)

4. **Q05.6** (Spina bifida, thoracic)

5. **Q38.1** (Frenum, tongue)

6. **Q39.4** (Web, esophagus)

   K22.4 (Spasm, esophagus)

   K21.0 (Esophagitis, reflux)

7. **Z01.818** (Examination, pre-procedural, specified NEC)

   Q53.22 (Cryptorchid/Cryptorchism/ Cryptorchidism, bilateral, perineal)

8. **Z46.89** (Fitting, orthopedic device)

   Q68.2 (Genu, recurvatum, congenital)

9. **Z38.00** (Newborn, born in hospital)

   Q54.2 (Hypospadias, penoscrotal)

10. **Q20.3** (Transposition, great vessels)