Putting ICD-10 into Practice:
Coding exercises and scenarios

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ICD | 10

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Putting ICD-10 into Practice: Coding exercises and scenarios

The *ICD-10 Spotlight: Know the codes* feature that appeared in *Partners in Health Update* throughout 2012 was designed to communicate various coding conventions, general guidelines, and chapter-specific guidelines in ICD-10. These conventions and guidelines are rules and instructions that must be followed to classify and assign the most appropriate code. As with ICD-9, adherence to these guidelines is required under the Health Insurance Portability and Accountability Act (HIPAA).

This year, we are introducing a new feature called *Putting ICD-10 into Practice: Coding exercises and scenarios*. Each month this feature will help you put the new guidelines and conventions you learned about last year into practice. If needed, use the *ICD-10 Spotlight: Know the codes* booklet for assistance with these exercises. An answer key is provided below so you can verify if your answers are correct. In addition, a list of code narratives is included to describe each ICD-10 code.

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Varicose vein of heel and mid-foot with presence of ulceration and swelling
2. Premature menopause with headache
3. Acute myocardial infarction of the anterolateral wall
4. Subsequent encounter for obesity resulting from the prescription drug Tryptanol®
5. Crohn's disease of ileum with rectal bleeding and abscess
6. Bilateral central corneal ulcer
7. Severe generalized abdominal pain with abdominal rigidity
8. Female with bilateral breast cancer of lower outer quadrant
9. Acute nonsuppurative otitis media of the right ear
10. Initial encounter for concussion and edema of the thoracic spine
11. Initial encounter for third degree burn of the right thigh by gasoline to fifteen percent of the total body surface area

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

While chopping vegetables in the kitchen of his mobile home for the local food bank's Thanksgiving dinner, John Doe lacerated his right thumb causing injury to the nail.

Answer to coding scenario:
S61.111A, W26.0xxA, Y92.020, Y93.G1, Y99.2,

Answers to coding exercises:
1) I83.224 2) E28.310 3) I21.09 4) E66.1, T43.015D 5) K50.011, K50.014 6) H16.013 7) R10.0 8) C50.511, C50.512 9) H65.191 10) S24.0xxA, T24.711A, T32.10, T52.0x1A

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the ICD-10 codes in the answer key:

I83.224: Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation

E28.310: Symptomatic premature menopause

I21.09: ST elevation myocardial infarction (STEMI) involving other coronary artery of anterior wall

E66.1: Drug-induced obesity

T43.015D: Adverse effect of tricyclic antidepressants, subsequent encounter

K50.011: Crohn's disease of small intestine with rectal bleeding

K50.014: Crohn's disease of small intestine with abscess

H16.013: Central corneal ulcer, bilateral

R10.0: Acute abdomen

C50.511: Malignant neoplasm of lower-outer quadrant of right female breast

C50.512: Malignant neoplasm of lower-outer quadrant of left female breast

H65.191: Other acute nonsuppurative otitis media, right ear

S24.0xxA: Concussion and edema of thoracic spinal cord, initial encounter

T24.711A: Corrosion of third degree of right thigh, initial encounter

T52.0x1A: Toxic effect of petroleum products, accidental (unintentional), initial encounter

T32.10: Corrosions involving 10%–19% of body surface with 0%–9% third degree corrosion

Y93.G1: Activity, food preparation and clean up

W26.0xxA: Contact with knife, initial encounter

S61.111A: Laceration without foreign body of right thumb with damage to nail, initial encounter

Y92.020: Kitchen in mobile home as the place of occurrence of the external cause

Y99.2: Volunteer activity

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Putting ICD-10 into Practice: Coding exercises and scenarios

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As announced in the January 2013 edition of *Partners in Health Update*, we have introduced a new feature called *Putting ICD-10 into Practice: Coding exercises and scenarios*. Each month this feature will help you put the new guidelines and conventions you learned about last year into practice. If needed, use the *ICD-10 Spotlight: Know the codes* booklet for assistance with these exercises. An answer key is provided below so you can verify if your answers are correct. In addition, a list of code narratives is included to describe each ICD-10 code.

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Borderline glaucoma
2. Congestive heart failure due to hypertension
3. HIV positive status without symptom
4. Urinary frequency
5. Morbid obesity with a BMI of 42 in an adult
6. Congenital red cell aplastic anemia
7. Cleft palate involving both the soft and hard palate with bilateral cleft lip
8. Severe persistent asthma with acute exacerbation
9. Fatigue fracture of vertebra, lumbar region, and subsequent encounter for fracture with delayed healing
10. Interstitial cystitis due to E. coli with hematuria
11. Sleep-related teeth grinding
12. Non-conclusive HIV-test finding in infants

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Jane and John Doe were shopping at the mall the day after Thanksgiving to take advantage of the sales. While rushing for the newest iPhone, John fell down the stairs. Thankfully, John sustained only minor abrasions to his right elbow.

Answer to coding scenario:
S50.311A, W10.9xxA, Y92.59

Answers to coding exercises:
1) H40.001 2) I11.0 3) Z21 4) R35.0 5) E66.01, Z68.41 6) D61.01 7) Q37.4 8) J45.51 9) M48.46xG 10) N30.11, B96.20 11) G47.63 12) R75

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the ICD-10 codes in the answer key for the coding exercises and coding scenarios:

H40.001: Preglaucoma, unspecified, right eye

I11.0: Hypertensive heart disease with heart failure

Z21: Asymptomatic human immunodeficiency virus [HIV] infection status

R35.0: Frequency of micturition

E66.01: Morbid (severe) obesity due to excess calories

Z68.41: Body mass index (BMI) 40.0 – 44.9, adult

D61.01: Constitutional (pure) red blood cell aplasia

Q37.4: Cleft hard and soft palate with bilateral cleft lip

J45.51: Severe persistent asthma with (acute) exacerbation

M48.46xG: Fatigue fracture of vertebra, lumbar region, subsequent encounter for fracture with delayed healing

N30.11: Interstitial cystitis (chronic) with hematuria

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

G47.63: Sleep-related bruxism

R75: Inconclusive laboratory evidence of human immunodeficiency virus [HIV]

S50.311A: Abrasion of right elbow, initial encounter

W10.9xxA: Fall (on) (from) unspecified stairs and steps, initial encounter

Y92.59: Other trade areas as the place of occurrence of the external cause

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Putting ICD-10 into Practice: Coding exercises and scenarios

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Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Routine infant or child health check
2. Acquired loss of teeth due to trauma, partial
3. Influenzal myocarditis
4. Elevated fasting triglycerides
5. Hungry bone syndrome
6. Primary open-angle glaucoma, moderate stage in left eye and mild stage in right eye
7. Dorsal somatic dysfunction
8. Invasive ductular carcinoma of breast, completely excised
9. Decompensated COPD with (acute) exacerbation
10. Concussion without loss of consciousness, initial encounter with neck pain

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

A 16-year-old student was at the gymnasium participating in a dancing contest to raise money for her class. She slipped on the gym floor and fell, injuring her left ankle. After she visited the emergency room, it was determined that she did not fracture her ankle. However, she did suffer a sprain to that ankle.

Answer to coding scenario:
S93.402A, W01.0xxA, Y92.39, Y93.41, Y99.2

Answers to coding exercises:
1) Z00.129 2) K08.419 3) J10.89 4) E78.1 5) E83.81 6) H40.11x2, H40.11x1 7) M99.01 8) C50.412 9) J44.1 10) S06.0x0A, M54.2

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the ICD-10 codes in the answer key for the coding exercises and coding scenarios:

ICD-10 code	Code narrative
Z00.129	Encounter for routine child health examination without abnormal findings
K08.419	Partial loss of teeth due to trauma, unspecified class
J10.89	Influenza due to other identified influenza virus with other manifestations
E78.1	Pure hyperglyceridemia
E83.81	Hungry bone syndrome
H40.11x2	Primary open-angle glaucoma, moderate stage
H40.11x1	Primary open-angle glaucoma, mild stage
M99.01	Segmental and somatic dysfunction of cervical region
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation
S06.0x0A	Concussion without loss of consciousness, initial encounter
M54.2	Cervicalgia
S93.402A	Sprain of unspecified ligament of left ankle, initial encounter
W01.0xxA	Fall on same level from slipping, tripping, and stumbling without subsequent striking against object, initial encounter
Y92.39	Other specified sports and athletic area as the place of occurrence of the external cause
Y93.41	Activity, dancing
Y99.2	Volunteer activity

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Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Atrial tachycardia
2. Irregular astigmatism of both eyes
3. Shaken infant syndrome, initial encounter
4. Painful respiration
5. Neonatal esophageal reflux
6. Twin pregnancy, one placenta, two amniotic sacs, third trimester with complication of gestational hypertension
7. Lisping
8. Subacute monocytic leukemia, in remission
9. Neoplasm of uncertain behavior of the nasal cavities
10. Benign carcinoid tumor of the small intestine
11. Atypical chest pain due to angina

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Due to ailing health, Jane's grandfather will be moving in with her in a few months. To understand what care is needed, Jane escorted her grandfather to his doctor appointment for the first time. The doctor told Jane that her grandfather was being treated for mild nonproliferative diabetic retinopathy with macular edema. He has type 2 diabetes and takes insulin on a daily basis. He has also developed diabetic cataract in his right eye.

Answer to coding scenario:
E11.321, E11.36, Z79.4

Answers to coding exercises:
1) I47.1 2) H52.213 3) T74.4xxA 4) R07.1 5) R07.1 6) O30.033, O13.3 7) F80.0 8) C93.91 9) D38.5 10) D3A.019 11) R07.89, I20.9

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Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the ICD-10 codes in the answer key for the coding exercises and coding scenario:

ICD-10 code	Code narrative
I47.1	Supraventricular tachycardia
H52.213	Irregular astigmatism, bilateral
T74.4xxA	Shaken infant syndrome, initial encounter
R07.1	Chest pain on breathing
P78.83	Newborn esophageal reflux
O30.033	Twin pregnancy, monochorionic/diamniotic, third trimester
O13.3	Gestational (pregnancy-induced) hypertension without significant proteinuria, third trimester
F80.0	Phonological disorder
C93.91	Monocytic leukemia, unspecified in remission
D38.5	Neoplasm of uncertain behavior of other respiratory organs
D3A.019	Benign carcinoid tumor of the small intestine, unspecified portion
R07.89	Other chest pain
I20.9	Angina pectoris, unspecified
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema
E11.36	Type 2 diabetes mellitus with diabetic cataract
Z79.4	Long term (current) use of insulin

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Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Blindness (right eye), low vision (left eye)
2. Hypotension due to drugs (diuretics), initial encounter
3. Fecal impaction
4. Irritable colon with diarrhea
5. Constipation
6. Allergy from cat hair
7. Itch
8. Rheumatoid nodule, both shoulders
9. Kidney disease requiring chronic dialysis
10. Kidney disease requiring chronic dialysis, non-compliant patient

Coding scenario

Code the following scenario according to both ICD-9 and ICD-10 coding conventions and guidelines:

Tim and Susan celebrated their wedding anniversary by making reservations at the restaurant where they had their first date. They both decided to order something they have never tried before. The meal was delicious, but later that evening Tim broke out in a rash and experienced abdominal cramping and diarrhea. Susan suspected it must have been something he ate and advised him to see his doctor. The physician confirmed Susan's suspicion.

ICD-9: 558.3, 693.1, 787.91, E849.6
ICD-10: K52.2, L27.2, Y92.511
Answer to coding scenario:

Answers to coding exercises:
1) H54.11 **2)** I95.2, T50.2x5A **3)** K56.41 **4)** K58.0 **5)** K59.00 **6)** L23.81 **7)** L29.9 **8)** M06.311, M06.312 **9)** N18.6, Z99.2 **10)** N18.6, Z91.15

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Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
H54.11	Blindness, right eye, low vision left eye
I95.2	Hypotension due to drugs
T50.2x5A	Adverse effect of carbonic-anhydrase inhibitors, benzothiadiazides, and other diuretics, initial encounter
K56.41	Fecal impaction
K58.0	Irritable bowel syndrome with diarrhea
K59.00	Constipation, unspecified
L23.81	Allergic contact dermatitis due to animal (cat) (dog) dander
L29.9	Pruritus, unspecified
M06.311	Rheumatoid nodule, right shoulder
M06.312	Rheumatoid nodule, left shoulder
N18.6	End stage renal disease
Z99.2	Dependence on renal dialysis
Z91.15	Patient's noncompliance with renal dialysis
Scenario — ICD-10	
K52.2	Allergic and dietetic gastroenteritis and colitis
L27.2	Dermatitis due to ingested food
Y92.511	Restaurant or cafe as the place of occurrence of the external cause
Scenario — ICD-9	
558.3	Gastroenteritis and colitis, allergic
693.1	Dermatitis due to food taken internally
787.91	Diarrhea
E849.6	Place of occurrence, public building

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Putting ICD-10 into Practice: Coding exercises and scenarios

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Specialty focus: OB/GYN

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Rupture of fallopian tube due to pregnancy
2. Positive culture findings in specimens from female genital organs
3. Newborn affected by breech presentation before labor
4. Pregnancy of 43-year-old complicated by hypertension (2nd trimester)
5. Urinary tract infection and urinary tract infection, neonatal
6. Endometriosis of ovary
7. Chronic vulvovaginitis
8. Uterine prolapse, 1st degree and 3rd degree
9. Female infertility due to tubal block
10. Venereal warts due to HPV

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

During a night out drinking with friends, 26-year-old Jane gave birth at 30 weeks to a female infant in a taxi cab. Jane drank alcohol throughout her pregnancy despite her family and physician's counsel. Although not confirmed, Jane's family suspected she was abusing drugs as well. The infant was born with fetal alcohol syndrome and showed signs of drug withdrawal. The infant's weight at birth was 3.5 pounds.

When both birth weight and gestational age of the newborn are available, both should be coded with birth weight sequenced before gestational age.

Answer to coding scenario:
Z38.1, P04.3, Q86.0, P07.16*, P07.33, P96.1

Answers to coding exercises:
1) O00.1 2) R87.5 3) P01.7 4) O13.2, O09.522 5) N39.0, P39.3 6) N80.1 7) N76.1 8) N81.2, N81.3 9) N97.1 10) A63.0

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Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
O00.1	Tubal pregnancy
R87.5	Abnormal microbiological findings in specimens from female genital organs
P01.7	Newborn (suspected to be) affected by malpresentation before labor
O13.2	Gestational (pregnancy-induced) hypertension without significant proteinuria, 2nd trimester
O09.522	Supervision of elderly multigravida, 2nd trimester
N39.0	Urinary tract infection, site not specified
P39.3	Neonatal urinary tract infection
N80.1	Endometriosis of ovary
N76.1	Subacute and chronic vaginitis
N81.2	Incomplete uterovaginal prolapse
N81.3	Complete uterovaginal prolapse
N97.1	Female infertility of tubal origin
A63.0	Anogenital (venereal) warts
Scenario	
Z38.1	Single liveborn infant, born outside hospital
P04.3	Newborn (suspected to be) affected by maternal use of alcohol
Q86.0	Fetal alcohol syndrome (dysmorphic)
P07.16	Other low birth weight newborn, 1500-1749 grams
P07.33	Preterm newborn, gestational age 30 completed weeks
P96.1	Neonatal withdrawal symptoms from maternal use of drugs of addiction

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Specialty focus: Disease of the circulatory system

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Atrial fibrillation, permanent
2. Bradytachycardia
3. Intermittent claudication
4. Deep vein thrombosis, right lower extremity
5. Healed myocardial infarction
6. Ventricular aneurysm
7. Rheumatic aortic regurgitation
8. Biventricular heart failure
9. Hypertensive heart failure
10. Cardiomyopathy from alcohol abuse

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

While playing basketball with his sons, Jack began experiencing chest pain, shortness of breath, and light-headedness. His sons rushed him to the hospital, as they suspected he was having a heart attack. The emergency department physician commended the sons for their quick response. Jack was indeed having a heart attack and was diagnosed with an acute non-ST anterior wall myocardial infarction.

Answer to coding scenario:
R07.9, R06.02, R42, I21.4

Answers to coding exercises:
1) I48.2 2) I49.5 3) I73.9 4) I82.401 5) I25.2 6) I25.2 7) I06.1 8) I50.9 9) I11.0 10) I42.6, F10.99

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
I48.2	Chronic atrial fibrillation
I49.5	Sick sinus syndrome
I73.9	Peripheral vascular disease, unspecified
I82.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity
I25.2	Old myocardial infarction
I25.3	Aneurysm of heart
I06.1	Rheumatic aortic insufficiency
I50.9	Heart failure, unspecified
I11.0	Hypertensive heart disease with heart failure
I42.6	Alcoholic cardiomyopathy
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder
Scenario	
R07.9	Chest pain, unspecified
R06.02	Shortness of breath
R42	Dizziness and giddiness
I21.4	Non-ST elevation (NSTEMI) myocardial infarction

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Specialty focus: Dermatology

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Diaper rash
2. Keloid scar
3. Sebaceous cyst
4. Boil of the left foot
5. Eczema
6. Premature greying of hair
7. Plaque psoriasis
8. Dry skin dermatitis
9. Bed sore with abrasion and blisters of left buttock
10. Freckles

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Susie has a distinctive birthmark on her face that she is not fond of. To make matters worse, she woke up on her 40th birthday feeling like she was in her prime — until she looked in the mirror and saw the acne that had formed sometime during the night. It brought back memories of her awkward teenage years. Susie made a call to her dermatologist, dreading to deal with these issues as an adult.

Answer to coding scenario:
Q82.5, L70.9

Answers to coding exercises:
1) L22 **2)** L91.0 **3)** L72.3 **4)** L02.622 **5)** L30.9 **6)** L67.1 **7)** L40.0 **8)** L85.3 **9)** L89.322 **10)** L81.2

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Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
L22	Diaper dermatitis
L91.0	Hypertrophic scar
L72.3	Sebaceous cyst
L02.622	Furuncle of left foot
L30.9	Dermatitis, unspecified
L67.1	Variations in hair color
L40.0	Psoriasis vulgaris
L85.3	Xerosis cutis
L89.322	Pressure ulcer of left buttock, stage 2
L81.2	Freckles
Scenario	
Q82.5	Congenital non-neoplastic nevus
L70.9	Acne, unspecified

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Specialty focus: Mental and Behavioral Health Disorders

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Paranoid schizophrenia
2. Tourette's syndrome
3. Affective personality disorder
4. Claustrophobia
5. Anxiety disorder due to alcohol abuse
6. Senile dementia
7. Compulsive gambling
8. Attention deficit hyperactivity disorder
9. Depressive disorder
10. Bulimia
11. Obsessive compulsive neurosis
12. Bipolar disorder with current severe manic episodes and psychotic symptoms
13. Psychogenic impotence
14. PCP dependence with intoxication and delirium
15. Pathological stealing
16. Autistic disorder
17. Stuttering — adult

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Mary and Jack take a family vacation every year. However, due to Jack's fear of flying, they typically drive and therefore have never vacationed out of the country. This year Mary wanted to do something different, but it would require them to fly instead of drive. Jack reluctantly agreed, as this trip would require him to face many of his fears. In addition to a fear of flying, Jack also had a fear of hospitals. And due to the area where they were traveling, it was essential that they get certain vaccines at the hospital.

On the morning of the flight, it was raining and thunderstorming. All Jack could think about were the tight quarters he would have to deal with for such a long flight. Jack hates thunderstorms and tight spaces. Before the flight took off, Jack had a panic attack in the airport. Mary always believed Jack was a hypochondriac, but she finally realized that his fears were real.

Answer to coding scenario:
F40.243, F40.232, F40.220, F40.240, F45.21, F41.0

Answers to coding exercises:
1) F20.0 2) F95.2 3) F34.0 4) F40.240 5) F10.180 6) F03.90 7) F63.0 8) F90.9 9) F32.9 10) F50.2 11) F42 12) F31.2 13) F52.21 14) F16.221 15) F63.2 16) F84.0 17) F98.5

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
F20.0	Paranoid schizophrenia
F95.2	Tourette's disorder
F34.0	Cyclothymic disorder
F40.240	Claustrophobia
F10.180	Alcohol abuse with alcohol-induced anxiety disorder
F03.90	Unspecified dementia without behavioral disturbance
F63.0	Pathological gambling
F90.9	Attention-deficit hyperactivity disorder, unspecified type
F32.9	Major depressive disorder, single episode, unspecified
F50.2	Bulimia nervosa
F42	Obsessive compulsive disorder
F31.2	Bipolar disorder, current episode manic severe with psychotic features
F52.21	Male erectile disorder
F16.221	Hallucinogen dependence with intoxication with delirium
F63.2	Kleptomania
F84.0	Autistic disorder
F98.5	Adult onset fluency disorder
Scenario	
F40.243	Fear of flying
F40.232	Fear of other medical care
F40.220	Fear of thunderstorms
F40.240	Claustrophobia
F45.21	Hypochondriasis
F41.0	Panic disorder [episodic paroxysmal anxiety] without agoraphobia

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Putting ICD-10 into Practice: Coding exercises and scenarios

The coding exercises and scenario in this section are designed to help you put the new ICD-10 guidelines and conventions into practice. An answer key is provided below so you can verify if your answers are correct. In addition, code narratives are included on the next page to describe each ICD-10 code used in the exercises and scenario.

If needed, use the *ICD-10 Spotlight: Know the codes* booklet for assistance with these exercises. It is available at www.ibx.com/icd10.

Specialty focus: Immune Deficiencies and Disorders

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Postinfectious acute disseminated encephalitis and encephalomyelitis
2. Autoimmune hemolytic anemia (drug-induced)
3. Nezelof's syndrome
4. Pemphigus vulgaris
5. Rh isoimmunization of newborn
6. Stiff-man syndrome
7. Hereditary hypogammaglobulinemia
8. Immune thrombocytopenic purpura
9. Transfusion-related hemochromatosis
10. Congenital neutropenia
11. Stevens-Johnson syndrome
12. Hereditary hemochromatosis
13. Critical illness polyneuropathy
14. Systemic lupus erythematosus
15. Transient neonatal neutropenia
16. Systemic lupus erythematosus involving the lung
17. Wiskott-Aldrich syndrome
18. Transient neonatal thrombocytopenia
19. Von Willebrand's disease
20. Benign mucous membrane pemphigoid
21. Churg-Strauss syndrome

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Jill gave birth to her daughter Angela at 38 weeks gestation. Although Angela was not premature, she was admitted to the Neonatal Intensive Care Unit (NICU) for ABO incompatibility, meaning Jill and Angela's blood type did not match. In addition, Angela was diagnosed with hemolytic disease due to ABO isoimmunization.

Answer to coding scenario:
P55.1

Answers to coding exercises:
1) G04.01 **2)** D59.0 **3)** D81.4 **4)** L10.0 **5)** P55.0 **6)** G25.82 **7)** D80.0 **8)** D69.3 **9)** E83.111 **10)** D70.0 **11)** L51.1 **12)** E83.110 **13)** G62.81 **14)** M32.10 **15)** P61.5 **16)** M32.9 **17)** D82.0 **18)** P61.0 **19)** D68.0 **20)** L12.1 **21)** M30.1

continued on the next page

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
G04.01	Postinfectious acute disseminated encephalitis and encephalomyelitis (postinfectious ADEM)
D59.0	Drug-induced autoimmune hemolytic anemia
D81.4	Nezelof's syndrome
L10.0	Pemphigus vulgaris
P55.0	Rh isoimmunization of newborn
G25.82	Stiff-man syndrome
D80.0	Hereditary hypogammaglobulinemia
D69.3	Immune thrombocytopenic purpura
E83.111	Transfusion-related hemochromatosis
D70.0	Congenital agranulocytosis
L51.1	Stevens-Johnson syndrome
E83.110	Hereditary hemochromatosis
G62.81	Critical illness polyneuropathy
M32.9	Systemic lupus erythematosus, organ or system involvement unspecified
P61.5	Transient neonatal neutropenia
M32.13	Lung involvement in systemic lupus erythematosus
D82.0	Wiskott-Aldrich syndrome
P61.0	Transient neonatal thrombocytopenia
D68.0	Von Willebrand's disease
L12.1	Benign mucous membrane pemphigoid
M30.1	Polyarteritis with lung involvement [Churg-Strauss]
Scenario	
P55.1	ABO isoimmunization of newborn

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The coding exercises and scenario in this section are designed to help you put the new ICD-10 guidelines and conventions into practice. An answer key is provided below so you can verify if your answers are correct. In addition, code narratives are included on the next page to describe each ICD-10 code used in the exercises and scenario.

If needed, use the *ICD-10 Spotlight: Know the codes* booklet for assistance with these exercises. It is available at www.ibx.com/icd10.

Specialty focus: Diseases of the Eye and Adnexa

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Alternating exotropia with V pattern
2. Aphakia of right eye (due to trauma)
3. Atrophic age-related macular degeneration
4. Choroideremia
5. Convergence insufficiency
6. Corneal ulcer
7. Cyclophoria
8. Fuchs' dystrophy
9. Glaucoma (congenital, absolute-both eyes, suspected, traumatic-due to birth injury)
10. Irregular astigmatism, left eye
11. Monofixation syndrome
12. Nuclear cataract of both eyes, non-senile
13. Orbital congestion
14. Presbyopia
15. Primary open-angle glaucoma, moderate stage
16. Retinal edema
17. Sclera abscess
18. Senile corneal changes, both eyes
19. Tear film insufficiency of right eye
20. Toxic cataract, both eyes

Coding scenario

Code the following scenario according to ICD-10 coding conventions and guidelines:

Robin and her husband are celebrating their daughter Kennedy's 16th birthday. Kennedy is a well-mannered honor student and an avid athlete. To show their love and appreciation to their daughter, they purchased a new car for her. Kennedy began studying for her driver's license immediately. While completing her application for the license, she came across questions on the form that asked if she had any of the following conditions: day, night, or color blindness; visual halos; double vision; glare sensitivity; or declared legally blind. Kennedy was concerned because she wears prescription glasses; fortunately, none of these conditions applied to her.

Answer to coding scenario:
H53.11, H53.62, H53.50, H53.19, H53.2, H53.71, H54.8

Answers to coding exercises:
1) H50.17 2) H27.01 3) H35.31 4) H31.21 5) H51.11 6) H16.009 7) H50.54 8) H18.51 9) Q15.0, H44.513, H40.009, P15.3 10) H52.212 11) H50.42 12) H26.033 13) H05.229 14) H52.4 15) H40.11X2 16) H35.81 17) H15.099 18) H18.413 19) H04.121 20) H26.33

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
Exercises	
H50.17	Alternating exotropia with V pattern
H27.01	Aphakia, right eye
H35.31	Nonexudative age-related macular degeneration
H31.21	Choroideremia
H51.11	Convergence insufficiency
H16.009	Unspecified corneal ulcer, unspecified eye
H50.54	Cyclophoria
H18.51	Endothelial corneal dystrophy
Q15.0	Congenital glaucoma
H44.513	Absolute glaucoma, bilateral
H40.009	Preglaucoma, unspecified, unspecified eye
P15.3	Birth injury to eye
H52.212	Irregular astigmatism, left eye
H50.42	Monofixation syndrome
H26.033	Infantile and juvenile nuclear cataract, bilateral
H05.229	Edema of unspecified orbit
H52.4	Presbyopia
H40.11x2	Primary open-angle glaucoma, moderate stage
H35.81	Retinal edema
H15.099	Other scleritis, unspecified eye
H18.413	Arcus senilis, bilateral
H04.121	Dry eye syndrome of right lacrimal gland
H26.33	Drug-induced cataract, bilateral
Scenario	
H53.11	Day blindness
H53.62	Acquired night blindness
H53.50	Unspecified color vision deficiencies
H53.19	Other subjective visual disturbances
H53.2	Diplopia
H53.71	Glare sensitivity
H54.8	Legal blindness, as defined in USA

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Putting ICD-10 into Practice: Coding exercises and scenarios

Throughout 2013, we have published an assortment of coding examples and scenarios to help you put the new ICD-10 guidelines and conventions into practice. This final article in the series will review some of those exercises.

An answer key is provided below so you can verify if your answers are correct. In addition, code narratives are included on the next page to describe each ICD-10 code used in the exercises. If needed, use the *ICD-10 Spotlight: Know the codes* booklet for assistance with these exercises. It is available at *www.ibx.com/icd10*.

Coding exercises

Code the following conditions according to ICD-10 coding conventions and guidelines:

1. Subsequent encounter for obesity resulting from the prescription drug Tryptanol®
2. Morbid obesity with a Body Mass Index (BMI) of 42 in an adult
3. Concussion without loss of consciousness, initial encounter with neck pain
4. Twin pregnancy, one placenta, two amniotic sacs, third trimester with complication of gestational hypertension
5. Hypotension due to drugs (diuretics), initial encounter
6. Cardiomyopathy from alcohol abuse
7. Uterine prolapse, first degree and third degree
8. Plaque psoriasis
9. Senile dementia
10. Churg-Strauss syndrome
11. Aphakia of right eye (due to trauma)

Answers to coding exercises:

1) E66.1, T43.015D 2) E66.01, Z68.41 3) S06.0x0A, M54.2 4) O30.033, O13.3 5) I95.2, T50.2x5A 6) I42.6, F10.99 8) L40.0
9) F03.90 10) M30.1 11) H27.01

Putting ICD-10 into Practice: Coding exercises and scenarios

Narratives

The following are the corresponding code narratives for each of the codes in the answer key:

ICD-10 code	Code narrative
E66.1	Drug-induced obesity
T43.015D	Adverse effect of tricyclic antidepressants, subsequent encounter
E66.01	Morbid (severe) obesity due to excess calories
Z68.41	Body mass index (BMI) 40.0-44.9, adult
S06.0x0A	Concussion without loss of consciousness, initial encounter
M54.2	Cervicalgia
O30.033	Cyclophoria
O13.3	Gestational (pregnancy-induced) hypertension without significant proteinuria, third trimester
I95.2	Hypotension due to drugs
T50.2x5A	Adverse effect of carbonic-anhydrase inhibitors, benzothiadiazides, and other diuretics, initial encounter
N81.2	Incomplete uterovaginal prolapse
N81.3	Complete uterovaginal prolapse
I42.6	Alcoholic cardiomyopathy
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder
L40.0	Psoriasis vulgaris
F03.90	Unspecified dementia without behavioral disturbance
M30.1	Polyarteritis with lung involvement (Churg-Strauss)
H27.01	Aphakia, right eye

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