

2023 coding guidelines included

Professional

ICD-10-CM Professional for Physicians

The complete official code set

Codes valid from October 1, 2022 through September 30, 2023



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Deleted Text

Strikethrough on official notations indicate a deletion from the classification for the current year.

Optum360 Notations

AHA Coding Clinic Citations

Coding Clinics are official American Hospital Association (AHA) publications that provide coding advice specific to ICD-10-CM and ICD-10-PCS.

Coding Clinic citations included in this manual are current up to the second quarter of 2021.

These citations identify the year, quarter, and page number of one or more *Coding Clinic* publications that may have coding advice relevant to a particular code or group of codes. With the most current citation listed first, these notations are preceded by the symbol **AHA**: and appear in purple type.

115.1 Hypertension secondary to other renal disorders AHA: 2016, 3Q, 22

Definitions

Definitions explain a specific term, condition, or disease process in layman's terms. These notations are preceded by the symbol **DEF**: and appear in purple type.

M51.4 Schmorl's nodes

DEF: Irregular bone defect in the margin of the vertebral body that causes herniation into the end plate of the vertebral body.

Coding Tips

The tips in the tabular list offer coding advice that is not readily available within the ICD-10-CM classification. It may relate official coding guidelines, indexing nuances, or advice from *AHA's Coding Clinic for ICD-10-CM/PCS*. These notations are preceded by the symbol **TIP**: and appear in brown type.

B97.2 Coronavirus as the cause of diseases classified elsewhere TIP: Do not report a code from this subcategory for COVID-19, refer to U07.1.

lcons

Note: The following icons are placed to the left of the code.

New Code

Codes that have been added to the classification effective October 1, 2022.

New Code – Mid-year

Codes that have been added to the classification effective April 1, 2022.

Revised Code

Codes that have had a change to their description or validity effective October 1, 2022. For additional information on codes with validity changes, see the "What's New" section.

Revised Code – Mid-year Codes that have had a change to their description or validity effective April 1, 2022.

Additional Characters Required

 \checkmark

- This symbol indicates that the code requires a 4th character.
- This symbol indicates that the code requires a 5th character.
- This symbol indicates that the code requires a 6th character.
- This symbol indicates that the code requires a 7th character.

H60.3 Other infective otitis externa

H6Ø.31 Diffuse o	titis externa	
H6Ø.311	Diffuse otitis externa, right ear	Q
H6Ø.312	Diffuse otitis externa, left ear	Q
H6Ø.313	Diffuse otitis externa, bilateral	Q
H6Ø.319	Diffuse otitis externa, unspecified ear	Q

Placeholder Alert

This symbol indicates that the code requires a 7th character following the placeholder "X". Codes with fewer than six characters that require a 7th character must contain placeholder "X" to fill in the empty character(s).

🕬 T16.1 Foreign body in right ear

This manual provides the most current information that was available at the time of publication. Except where otherwise noted, the icons and/or color bars reflect edits provided in the Integrated Outpatient Code Editor (IOCE) quarterly files utilized under the outpatient prospective payment system (OPPS). Because the October 2021 quarterly files were not available at the time this book was printed, the edits in this manual are based on the July 2021 quarterly files. The following is a list of IOCE edits specifically identified in this manual:

- Age
- Sex
- Manifestation
- Unacceptable principal diagnosis

Note: The following icons are placed at the end of the code description.

Age Edits

New for 2023

М

Α

Newborn Age: 0 These diagnoses are intended for newborns and neonates and the patient's age must be 0 years.

N47.Ø Adherent prepuce, newborn 🖸 🖸

Pediatric Age: 0-17

These diagnoses are intended for children and the patient's age must be between 0 and 17 years.

L21.1 Seborrheic infantile dermatitis

Maternity Age: 9-64

These diagnoses are intended for childbearing patients between the age of 9 and 64 years.

OØ2.9 Abnormal product of conception, unspecified

Adult Age: 15-124

These diagnoses are intended for patients between the age of 15 and 124 years.

Age-related physical debility	QA
Frailty	
Old age	
Senescence	
Senile asthenia	
Senile debility	
EXCLUDES 1 age-related cognitive decline (R41.81)	
senile psychosis (FØ3)	
	Frailty Old age Senescence Senile asthenia Senile debility EXCUDEST age-related cognitive decline (R41.81) sarcopenia (M62.84)

Ρ

Sex Edits

Male diagnosis only đ

Q98.Ø Klinefelter syndrome karyotype 47, XXY

Q Female diagnosis only

> N35.12 Postinfective urethral stricture, not elsewhere classified, female

UPD Unacceptable Principal Diagnosis

This symbol identifies codes that should not be assigned as the first-listed code for outpatient admissions. Codes with an unacceptable principal diagnosis edit are considered supplementary (describing circumstances that influence an individual's health status or an additional code), identifying conditions that are not specific manifestations but may be due to an underlying cause.

T48.5X5 Adverse effect of other anti-common-cold drugs 🚥

CMS-HCC Condition

This icon identifies conditions that are considered a CMS-HCC (hierarchical condition category) diagnosis.

The HCC codes represented in this manual have been updated to reflect the 2022 Initial ICD-10-CM Mappings for CMS-HCC Model v24. Midyear final mappings were not available at the time this publication went to print; refer to the following CMS website for final mappings: https://www.cms.gov/Medicare/Health-Plans/ MedicareAdvtgSpecRateStats/Risk-Adjustors.html.

Y62.2 Failure of sterile precautions during kidney dialysis and other perfusion

Rx **Rx-HCC Condition**

This icon identifies conditions that are included in the Rx-HCC risk adjustment model, which covers the Part D (prescription drug) benefit.

ESRD HCC Condition ESR

This icon identifies conditions that are included in the End Stage Renal Disease (ESRD) HCC risk adjustment model.

Commercial HCC Condition COM

New for 2023 This icon identifies conditions that are included in the commercial HHS-HCC risk adjustment model.

Q **QPP** Condition

This icon identifies conditions recognized as a quality measure for claims-based reporting under CMS's Merit-based Incentive Payment System (MIPS) Claims Single Source v5.0.

G44.52 New daily persistent headache (NDPH)

Z-code as First-Listed Diagnosis PDx

Identify Z codes that generally are for use as a first-listed diagnosis only but may be used as an additional diagnosis if the patient has more than one encounter on the same day or there is more than one reason for the encounter.

The instructions for Z code use contained in the ICD-10-CM official coding guidelines identify those Z codes that can be used only as a PDx. All other Z codes may either be SDx or PDx, depending upon circumstances of the encounter, by meeting the definition of first-listed or principal diagnosis, and by following any specific Z code guidelines in section I.C.21 a-c. The responsibility of those assigning the Z codes as PDx is to make sure the circumstances of the encounter meet the definition of first-listed or principal diagnosis, follow all coding instructions, and follow the Z code

specific guidelines. Optum360 does not include any SDx edit since there is no official source for it and the Z code use is determined by circumstances of the encounter.

How to Use ICD-10-CM Professional for Physicians 2023

Note: Please note that the symbols indicating the Z code "principal or first-listed only" designation and the Z codes that may be principal or first-listed diagnoses included in the official coding guidelines [section I.C.21.c.16] are consistent with reporting guidelines for health care encounters excluding acute care inpatient admissions. These Z code edits are often in conflict with the inpatient prospective payment system (IPPS) edits. For example, code Z34.90 Encounter for supervision of normal pregnancy, unspecified, unspecified trimester, may be an appropriate primary reason for an outpatient encounter. However, supervision for a normal pregnancy is not an acceptable principal diagnosis or reason for an inpatient admission and will have an unacceptable principal diagnosis edit under the inpatient prospective payment system (IPPS).

Z51.12 Encounter for antineoplastic immunotherapy

Color Bars

ð

ç

202.

Q

New for 2023

New

Manifestation Code

Codes defined as manifestation codes appear in italic type, with a blue color bar over the code description. A manifestation cannot be reported as a first-listed code; it is sequenced as a secondary diagnosis with the underlying disease code listed first.

G32.89 Other specified degenerative disorders of nervous system in diseases classified elsewhere Degenerative encephalopathy in diseases classified elsewhere

Unspecified Diagnosis

Codes that appear with a gray color bar over the alphanumeric code identify unspecified diagnoses. These codes should be used in limited circumstances, when neither the diagnostic statement nor the documentation provides enough information to assign a more specific diagnosis code. The abbreviation NOS, "not otherwise specified," in the tabular list may be interpreted as "unspecified."

GØ3.9 Meningitis, unspecified Arachnoiditis (spinal) NOS

Footnotes

Certain codes in the tabular section have a numerical superscript located to the upper left of the code. This numerical superscript corresponds to a specific footnote description.

For example:

¹ 7¹ M48.51 Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region

For convenience, the footnote descriptions are

The following list also provides the footnote descriptions of all numerical superscripts found in the Tabular List of Diseases:

- 1 These codes are considered an HCC when reported as an initial encounter (7th character A, B, or C).
- These codes are considered an HCC when reported as an initial 2 encounter (7th character A or B) OR sequela (7th character S).
- These codes are considered an HCC when reported as a sequela 3 (7th character S).

PDx

10 Steps to Correct Coding

Follow the 10 steps below to correctly code encounters for health care services.

Step 1: Identify the reason for the visit or encounter (i.e., a sign, symptom, diagnosis and/or condition).

The medical record documentation should accurately reflect the patient's condition, using terminology that includes specific diagnoses and symptoms or clearly states the reasons for the encounter.

Choosing the main term that best describes the reason chiefly responsible for the service provided is the most important step in coding. If symptoms are present and documented but a definitive diagnosis has not yet been determined, code the symptoms. *For outpatient cases, do not code conditions that are referred to as "rule out," "suspected," "probable," or "questionable."* Diagnoses often are not established at the time of the initial encounter/visit and may require two or more visits to be established. Code only what is documented in the available outpatient records and only to the highest degree of certainty known at the time of the patient's visit. For inpatient medical records, uncertain diagnoses may be reported if documented at the time of discharge.

Step 2: After selecting the reason for the encounter, consult the alphabetic index.

The most critical rule is to begin code selection in the alphabetic index. Never turn first to the tabular list. The index provides cross-references, essential and nonessential modifiers, and other instructional notations that may not be found in the tabular list.

Step 3: Locate the main term entry.

The alphabetic index lists conditions, which may be expressed as nouns or eponyms, with critical use of adjectives. Some conditions known by several names have multiple main entries. Reasons for encounters may be located under general terms such as admission, encounter, and examination. Other general terms such as history, status (post), or presence (of) can be used to locate other factors influencing health.

Step 4: Scan subterm entries.

Scan the subterm entries, as appropriate, being sure to review continued lines and additional subterms that may appear in the next column or on the next page. Shaded vertical guidelines in the index indicate the indentation level for each subterm in relation to the main terms.

Step 5: Pay close attention to index instructions.

- Parentheses () enclose nonessential modifiers, terms that are supplementary words or explanatory information that may or may not appear in the diagnostic statement and do not affect code selection.
- Brackets [] enclose manifestation codes that can be used only as secondary codes to the underlying condition code immediately preceding it. If used, manifestation codes must be reported with the appropriate etiology codes.
- Default codes are listed next to the main term and represent the condition most commonly associated with the main term or the unspecified code for the main term.
- "See" cross-references, identified by italicized type and "code by" cross-references indicate that another term *must be referenced* to locate the correct code.
- "See also" cross-references, identified by italicized type, provide alternative terms that may be useful to look up but are not mandatory.
- "Omit code" cross-references identify instances when a code is not applicable depending on the condition being coded.
- "With" subterms are listed out of alphabetic order and identify a presumed causal relationship between the two conditions they link.
- "Due to" subterms identify a relationship between the two conditions they link.

- "NEC," abbreviation for "not elsewhere classified," follows some main terms or subterms and indicates that there is no specific code for the condition even though the medical documentation may be very specific.
- "NOS," abbreviation for "not otherwise specified," follows some main terms or subterms and is the equivalent of unspecified; NOS signifies that the information in the medical record is insufficient for assigning a more specific code.
- *Following* references help coders locate alphanumeric codes that are out of sequence in the tabular section.
- Check-additional-character symbols flag codes that require additional characters to make the code valid; the characters available to complete the code should be verified in the tabular section.

Step 6: Choose a potential code and locate it in the tabular list.

To prevent coding errors, always use both the alphabetic index (to identify a code) and the tabular list (to verify a code), as the index does not include the important instructional notes found in the tabular list. An added benefit of using the tabular list, which groups like things together, is that while looking at one code in the list, a coder might see a more specific one that would have been missed had the coder relied solely on the alphabetic index. Additionally, many of the codes require a fourth, fifth, sixth, or seventh character to be valid, and many of these characters can be found only in the tabular list.

Step 7: Read all instructional material in the tabular section.

The coder must follow any Includes, Excludes 1 and Excludes 2 notes, and other instructional notes, such as "Code first" and "Use additional code," listed in the tabular list for the chapter, category, subcategory, and subclassification levels of code selection that direct the coder to use a different or additional code. Any codes in the tabular range AØØ.Ø-through F88.9- may be used to identify the diagnostic reason for the encounter. The tabular list encompasses many codes describing disease and injury classifications (e.g., infectious and parasitic diseases, neoplasms, symptoms, nervous and circulatory system etc.).

Codes that describe symptoms and signs, as opposed to definitive diagnoses, should be reported when an established diagnosis has not been made (confirmed) by the physician. Chapter 18 of the ICD-10-CM code book, "Symptoms, Signs, and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified" (codes RØØ.---R99), contains many, but not all, codes for symptoms.

ICD-10-CM classifies encounters with health care providers for circumstances other than a disease or injury in chapter 21, "Factors Influencing Health Status and Contact with Health Services" (codes ZØØ–Z99). Circumstances other than a disease or injury often are recorded as chiefly responsible for the encounter.

A code is invalid if it does not include the full number of characters (greatest level of specificity) required. Codes in ICD-10-CM can contain from three to seven alphanumeric characters. A three-character code is to be used only if the category is not further subdivided into four-, five-, six-, or seven-character codes. Placeholder character X is used as part of an alphanumeric code to allow for future expansion and as a placeholder for empty characters in a code that requires a seventh character but has no fourth, fifth, or sixth character. Note that certain categories require seventh characters that apply to all codes in that category. Always check the category level for applicable seventh characters for that category.

Step 8: Consult the official ICD-10-CM conventions and guidelines.

The *ICD-10-CM Official Guidelines for Coding and Reporting* govern the use of certain codes. These guidelines provide both general and chapter-specific coding guidance.

Adhesions, adhesive — continued Adiposis — see also Obesity mesenteric — see Adhesions, peritoneum nasal (septum) (to turbinates) J34.89 ocular muscle — see Strabismus, mechanical omentum — see Adhesions, peritoneum ovary N73.6 congenital (to cecum, kidney or omentum) Q50.39 paraovarian N73.6 pelvic (peritoneal) female N73.6 postprocedural N99.4 male - see Adhesions, peritoneum postpartal (old) N73.6 tuberculous A18.17 penis to scrotum (congenital) Q55.8 periappendiceal — see also Adhesions, peritoneum pericardium (nonrheumatic) I31.0 focal I31.8 rheumatic 109.2 tuberculous A18.84 pericholecystic K82.8 perigastric — see Adhesions, peritoneum periovarian N73.6 periprostatic N42.89 perirectal — see Adhesions, peritoneum , perirenal N28.89 peritoneum, peritoneal (postinfective) K66.0 with obstruction (intestinal) K56.50 complete K56.52 incomplete K56.51 partial K56.51 congenital Q43.3 pelvic, female N73.6 postprocedural N99.4 postpartal, pelvic N73.6 postprocedural K66.Ø to uterus N73.6 peritubal N73.6 periureteral N28.89 periuterine N73.6 perivesical N32.89 perivesicular (seminal vesicle) N5Ø.89 pleura, pleuritic J94.8 tuberculous NEC A15.6 pleuropericardial J94.8 postoperative (gastrointestinal tract) K66.0 with obstruction - see also Obstruction, intestine, postoperative K91.30 due to foreign body accidentally left in wound see Foreign body, accidentally left during a procedure pelvic peritoneal N99.4 urethra — see Stricture, urethra, postprocedural vagina N99.2 postpartal, old (vulva or perineum) N9Ø.89 preputial, prepuce N47.5 pulmonary J98.4 pylorus — see Adhesions, peritoneum sciatic nerve — see Lesion, nerve, sciatic seminal vesicle N5Ø.89 shoulder (joint) — *see* Capsulitis, adhesive sigmoid flexure — *see* Adhesions, peritoneum spermatic cord (acquired) N50.89 congenital Q55.4 spinal canal G96.12 stomach — see Adhesions, peritoneum subscapular — see Capsulitis, adhesive temporomandibular M26.61- 🗹 tendinitis (see also Tenosynovitis, specified type NEC) - see Capsulitis, adhesive shoulder testis N44.8 tongue, congenital (to gum or roof of mouth) Q38.3 acquired K14.8 trachea J39.8 tubo-ovarian N73.6 tunica vaginalis N44.8 uterus N73.6 internal N85.6 to abdominal wall N73.6 vagina (chronic) N89.5 postoperative N99.2 vitreomacular H43.82- 🗹 vitreous H43.89 vulva N9Ø.89 Adiaspiromycosis B48.8 Adie (-Holmes) pupil or syndrome — see Anomaly, pupil, function, tonic pupil Adiponecrosis neonatorum P83.88

cerebralis E23.6 dolorosa E88.2 Adiposity — see also Obesity heart - see Degeneration, myocardial localized E65 Adiposogenital dystrophy E23.6 Adjustment disorder — see Disorder, adjustment implanted device — see Encounter (for), adjustment (of) prosthesis, external — see Fitting reaction — see Disorder, adjustment Administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility 792.82 Admission (for) — see also Encounter (for) adjustment (of) artificial arm Z44.00- 🗹 complete Z44.Ø1- 🗹 partial Z44.02- 🗹 eye Z44.2 🔽 leg Z44.10- 🗹 complete Z44.11- 🗹 partial Z44.12- 🗹 brain neuropacemaker Z46.2 implanted Z45.42 breast implant Z45.81 🗹 prosthesis (external) Z44.3 Z colostomy belt Z46.89 contact lenses Z46.Ø cystostomy device Z46.6 dental prosthesis Z46 device NEC abdominal Z46.89 implanted Z45.89 cardiac Z45.09 fibrillator (with synchronous cardiac pacemaker) Z45.02 pacemaker (cardiac resynchronization therapy (CRT-P)) Z45.018 pulse generator Z45.010 resynchronization therapy defibrillator (CRT-D) Z45.02 aring device Z45.229 hearing device Z45.328 bone conduction Z45.320 cochlear Z45.321 infusion pump Z45.1 nervous system Z45.49 CSF drainage Z45.41 learing device — see Admission, adjustment, device, implanted, hearing device neuropacemaker Z45.42 visual substitution Z45.31 specified NEC Z45.89 vascular access Z45.2 visual substitution Z45.31 nervous system Z46.2 implanted — see Admission, adjustment, device, implanted, nervous system orthodontic Z46.4 prosthetic Z44.9 see Admission, adjustment, artificial, arm arm breast Z44.3 🗸 dental Z46.3 eye Z44.2 🗹 leg — see Admission, adjustment, artificial, leg specified type NEC Z44.8 substitution auditory Z46.2 implanted — see Admission, adjustment, device, implanted, hearing device nervous system Z46.2 implanted — see Admission, adjustment, device, implanted, nervous system visual Z46.2 implanted Z45.31 urinary Z46.6 hearing aid Z46.1 implanted — see Admission, adjustment, device, implanted, hearing device ileostomy device Z46.89 intestinal appliance or device NEC Z46.89

Admission

Admission — continued adjustment — continued neuropacemaker (brain) (peripheral nerve) (spinal cord) Z46.2 implanted Z45.42 orthodontic device Z46.4 orthopedic (brace) (cast) (device) (shoes) Z46.89 pacemaker (cardiac resynchronization therapy (CRTcardiac Z45.Ø18 pulse generator Z45.Ø1Ø nervous system Z46.2 implanted Z45.42 portacath (port-a-cath) Z45.2 prosthesis Z44.9 arm — see Admission, adjustment, artificial, arm breast Z44.3 🗹 dental Z46.3 eye Z44.2 🗹 leg — see Admission, adjustment, artificial, leg pecified NEC Z44.8 spectacles Z46.Ø aftercare — see also Aftercare Z51.89 postpartum immediately after delivery Z39.0 routine follow-up Z39.2 radiation therapy (antineoplastic) Z51.0 attention to artificial opening (of) Z43.9 artificial vagina Z43.7 colostomy Z43.3 cystostomy Z43.5 enterostomy Z4 gastrostomy Z43 ileostomy Z43.2 jejunostomy Z43.4 nephrostomy Z43.6 specified site NEC Z43.8 intestinal tract Z43.4 urinary tract Z43.6 tracheostomy Z43.Ø ureterostomy Z43.6 urethrostomy Z43.6 breast augmentation or reduction Z41.1 breast reconstruction following mastectomy Z42.1 change of dressing (nonsurgical) Z48.00 neuropacemaker device (brain) (peripheral nerve) (spinal cord) Z46.2 implanted Z45.42 surgical dressing Z48.01 circumcision, ritual or routine (in absence of diagnosis) Z41.2 clinical research investigation (control) (normal comparison) (participant) ZØØ.6 contraceptive management Z30.9 cosmetic surgery NEC Z41.1 counseling — see also Counseling dietary Z71.3 gestational carrier Z31.7 HIV Z71.7 human immunodeficiency virus Z71.7 nonattending third party Z71.0 procreative management NEC Z31.69 delivery, full-term, uncomplicated O80 cesarean, without indication O82 desensitization to allergens Z51.6 dietary surveillance and counseling Z71.3 ear piercing Z41.3 examination at health care facility (adult) — see also Examination ZØØ.ØØ with abnormal findings ZØØ.Ø1 clinical research investigation (control) (normal comparison) (participant) ZØØ.6 dental ZØ1.20 with abnormal findings ZØ1.21 donor (potential) ZØØ.5 ear ZØ1.10 with abnormal findings NEC ZØ1.118 eye ZØ1.ØØ with abnormal findings ZØ1.Ø1 following failed vision screening ZØ1.Ø2Ø with abnormal findings ZØ1.Ø21 general, specified reason NEC ZØØ.8 hearing ZØ1.10 with abnormal findings NEC ZØ1.118 infant or child (over 28 days old) ZØØ.129 with abnormal findings ZØØ.121 postpartum checkup Z39.2

Chapter 2. Neoplasms

CT1.2-C2	210	Chap	Juer 2	. Neopi
	C11.2	Malignant neoplasm of lateral wall of nasopharynx Malignant neoplasm of fossa of Rosenmüller Malignant neoplasm of opening of auditory tube	HCC	
	C11.3	Malignant neoplasm of pharyngeal recess Malignant neoplasm of anterior wall of nasopharynx	нсс	
		Malignant neoplasm of floor of nasopharynx Malignant neoplasm of nasopharyngeal (anterior) (posterio surface of soft palate	r)	<mark>√4</mark> ≞ C
	<i>C</i> 11 0	Malignant neoplasm of posterior margin of nasal choana Malignant neoplasm of posterior margin of nasal septum	HCC	
		Malignant neoplasm of overlapping sites of nasopharynx Malignant neoplasm of nasopharynx, unspecified Malignant neoplasm of nasopharyngeal wall NOS	нсс	
C12		nant neoplasm of pyriform sinus gnant neoplasm of pyriform fossa	HCC	
	ex ex his oc to	additional code to identify: posure to environmental tobacco smoke (Z77.22) posure to tobacco smoke in the perinatal period (P96.81) story of tobacco dependence (Z87.891) cupational exposure to environmental tobacco smoke (Z57.31) bacco dependence (F17) bacco use (Z72.0))	
<mark>√4[™] C1</mark> 3	Malig	nant neoplasm of hypopharynx		
	ex ex his oc to	additional code to identify: posure to environmental tobacco smoke (Z77.22) posure to tobacco smoke in the perinatal period (P96.81) story of tobacco dependence (Z87.891) cupational exposure to environmental tobacco smoke (Z57.31) bacco dependence (F17))	
	EXCLU DEF:	bacco use (Z72.0) maignant neoplasm of pyriform sinus (C12) Hypopharynx: Lower portion of pharynx (throat); communicates propharynx and the esophagus. Synonym(s): laryngopharynx.	with	
		Malignant neoplasm of postcricoid region	нсс	
	C13.1	Malignant neoplasm of aryepiglottic fold, hypopharyngeal aspect	HCC	√ 40 C [*]
		Malignant neoplasm of aryepiglottic fold, marginal zone Malignant neoplasm of aryepiglottic fold NOS Malignant neoplasm of interarytenoid fold, marginal zone Malignant neoplasm of interarytenoid fold NOS EXCLUDES 21 malignant neoplasm of aryepiglottic fold or interarytenoid fold, laryngeal aspect (C32.1)		
	C13.2	Malignant neoplasm of posterior wall of hypopharynx	HCC	
		Malignant neoplasm of overlapping sites of hypopharynx	HCC	
	C13.9	Malignant neoplasm of hypopharynx, unspecified Malignant neoplasm of hypopharyngeal wall NOS	HCC	
<mark>√4¹</mark> C14	cavity Use a alc ex	nant neoplasm of other and ill-defined sites in the lip and pharynx additional code to identify: cohol abuse and dependence (F10) posure to environmental tobacco smoke (Z77,22) posure to tobacco smoke in the perinatal period (P96.81)	oral	√4 th C [*]
	oc to	story of tobacco dependence (Z87.891) cupational exposure to environmental tobacco smoke (Z57.31) bacco dependence (F17) bacco use (Z72.0))	
	EXCLU	IDES 1 malignant neoplasm of oral cavity NOS (CØ6.9)		
		Malignant neoplasm of pharynx, unspecified Malignant neoplasm of Waldever's ring	HCC	
	C14.2	DEF: Waldeyer's ring: Ring of lymphoid tissue that is made up the two palatine tonsils, the pharyngeal tonsil (adenoid), and lingual tonsil. It functions as the defense against infection and assists with the development of the immune system.	o of the	
	C14.8	Malignant neoplasm of overlapping sites of lip, oral cavity and pharynx Primary malignant neoplasm of two or more contiguous site	HCC es of	
		lip, oral cavity and pharynx EXCLUDES1 "book leaf" neoplasm [ventral surface of tongue al floor of mouth] (CØ6.89)	nd	
EXCL	UDES 1	ant neoplasms of digestive organs (C15-C26) (aposi's sarcoma of gastrointestinal sites (C46.4)		C
	5	astrointestinal stromal tumors (C49.A-)		-
C15	Use a	nant neoplasm of esophagus additional code to identify: cohol abuse and dependence (F10)		C
	C15.3	Malignant neoplasm of upper third of esophagus Malignant neoplasm of middle third of esophagus	HCC HCC	
				1

	C15.5 Malignant neoplasm of lower third of esophagus [XRUD337] malignant neoplasm of cardio-esophageal junctic (C16.0)					
		Malignant neoplasm of overlapping sites of esophagu Malignant neoplasm of esophagus, unspecified	IS HCC HCC			
C16	Maliq	nant neoplasm of stomach				
	-	additional code to identify:				
		cohol abuse and dependence (F1Ø)				
		Image:	ESR COM			
	C10.0	Malignant neoplasm of cardiac orifice				
		Malignant neoplasm of cardio-esophageal junction				
		Malignant neoplasm of esophagus and stomach Malignant neoplasm of gastro-esophageal junction				
	C16.1	5 . 5 ,	ESR COM			
	C16.2	Malignant neoplasm of body of stomach	ESR COM			
	C16.3	Malignant neoplasm of pyloric antrum Malignant neoplasm of gastric antrum	ESR COM			
	C16.4	Malignant neoplasm of pylorus HCC Rx Malignant neoplasm of prepylorus	ESR COM			
		Malignant reoplasm of pyloric canal				
	C16.5	Malignant neoplasm of lesser curvature of stomach,				
		Malignant neoplasm of lesser curvature of stomach, not	ESR COM			
		classifiable to C16.1-C16.4				
	C16.6	Malignant neoplasm of greater curvature of stomach,				
		Malignant neoplasm of greater curvature of stomach, n	esr <mark>com</mark> Ot			
		classifiable to C16.Ø-C16.4				
	C16.8	Malignant neoplasm of overlapping sites of stomach	ESR COM			
	C16.9		ESR COM			
		Gastric cancer NOS				
C17		nant neoplasm of small intestine				
		DES1 malignant carcinoid tumors of the small intestine (C7A : 2016, 1Q, 19	.01)			
			ESR COM			
	C17.1	Malignant neoplasm of jejunum	ESR COM			
	C17.2		ESR COM			
	(17.3	Meckel's diverticulum, malignant	ESR COM			
		EXCLUDES 1 Meckel's diverticulum, congenital (Q43.Ø)				
		DEF: Congenital, abnormal remnant of embryonic digesti system development that leaves a sacculation or outpout				
		from the wall of the small intestine near the terminal part	of the			
	617.0	ileum made of acid-secreting tissue as in the stomach.				
	C17.8	Malignant neoplasm of overlapping sites of small intestine	ESR COM			
	C17.9	Malignant neoplasm of small intestine,				
			ESR COM			
C18		nant neoplasm of colon DEST malignant carcinoid tumors of the colon (C7A.Ø2-)				
		Malignant neoplasm of cecum	нсс			
		Malignant neoplasm of ileocecal valve				
		Malignant neoplasm of appendix	нсс			
		Malignant neoplasm of ascending colon Malignant neoplasm of hepatic flexure	нсс			
		Malignant neoplasm of transverse colon	HCC			
		Malignant neoplasm of splenic flexure	нсс			
	C18.6	Malignant neoplasm of descending colon	HCC			
	C18.7	Malignant neoplasm of sigmoid colon Malignant neoplasm of sigmoid (flexure)	HCC			
		EXCLUDES 1 malignant neoplasm of rectosigmoid junction	(C19)			
	C18.8	Malignant neoplasm of overlapping sites of colon	нсс			
	C18.9	Malignant neoplasm of colon, unspecified	HCC			
<i></i>	Malli	Malignant neoplasm of large intestine NOS				
C19		nant neoplasm of rectosigmoid junction gnant neoplasm of colon with rectum	нсс			
	Mali	gnant neoplasm of rectosigmoid (colon)				
		IDES 1 malignant carcinoid tumors of the colon (C7A.02-)	_			
C2Ø		nant neoplasm of rectum gnant neoplasm of rectal ampulla	нсс			
		DEST malignant carcinoid tumor of the rectum (C7A.Ø26)				

		F51.Ø9	Other insomnia not due to physiological condition	a substance or known			F52.8	8 Other sexual dysfunction not due to a substance or known physiological condition	1
$\sqrt{5}^{\text{th}}$	F51.1		omnia not due to a substance	e or known physiological				Excessive sexual drive Nymphomania	
				nia (F10.182, F10.282,				Satyriasis	
			F1Ø.982)				F52.9	9 Unspecified sexual dysfunction not due to a substance or known physiological condition	
				ı (F11.182, F11.282, F11.982, 3.982, F14.182, F14.282,				Sexual dysfunction NOS	
				5.282, F15.982, F19.182,	√4 th	F53		tal and behavioral disorders associated with the	
			F19.282, F19.982) hypersomnia NOS (G47.16))				rperium, not elsewhere classified CUDEST mood disorders with psychotic features (F3Ø.2, F31.2, F31.5,	
			hypersomnia due to know (G47.1Ø)	n physiological condition			LAGE	F31.64, F32.3, F33.3)	
			idiopathic hypersomnia (0	547.11, G47.12)				postpartum dysphoria (O90.6) psychosis in schizophrenia, schizotypal, delusional, and oth	or
		FF1 11	narcolepsy (G47.4-)					psychotic disorders (F2Ø-F29)	CI
			Primary hypersomnia Insufficient sleep syndrom	2				IA: 2018, 4Q, 8 Ø Postpartum depression	MQ
			EXCLUDES 1 sleep deprivation				133.0	Postnatal depression, NOS	ш¥
		F51.13	Hypersomnia due to other Code also associated ment				EE2 1	Postpartum depression, NOS 1 Puerperal psychosis	
		F51.19	Other hypersomnia not due				F33.1	Postpartum psychosis	ш¥
			physiological condition			_		Puerperal psychosis, NOS	
	F51.3		alking [somnambulism] rapid eye movement sleep aroւ	usal disorders, sleepwalking		F54		hological and behavioral factors associated with disorders ases classified elsewhere	or
		t	ype	5			Psyc	ychological factors affecting physical conditions	
	F51.4		errors [night terrors] rapid eye movement sleep arou	isal disorders, sleep terror				de first the associated physical disorder, such as: asthma (J45)	
			ype			4	de	dermatitis (L23-L25)	
	F51.5		are disorder n anxiety disorder					gastric ulcer (K25) mucous colitis (K58)	
	F51.8	Other s	leep disorders not due to a si	ubstance or known				ulcerative colitis (K51) urticaria (L50)	
	FF1 0		ogical condition	o or known nhwieleriad				STUDES 2 tension-type headache (G44.2)	
	F51.9		isorder not due to a substand on, unspecified	e or known physiological	√4 th	F55	Abuse	se of non-psychoactive substances	
			ional sleep disorder NOS					abuse of psychoactive substances (F10-F19)	
<mark>√4[™] F52</mark>			iction not due to a substand condition	e or known				Ø Abuse of antacids 1 Abuse of herbal or folk remedies	
			nat syndrome (F48.8)					2 Abuse of laxatives	
	F52.Ø		tive sexual desire disorder or loss of sexual desire					3 Abuse of steroids or hormones	
		Male I	hypoactive sexual desire disorc	ler				Abuse of vitamins Abuse of other non-psychoactive substances	
			al anhedonia DEST decreased libido (R68.82)			F59		pecified behavioral syndromes associated with physiologi	ical
	F52.1	Sexual	aversion disorder				distur	urbances and physical factors	
∠5th	FF2 2		al aversion and lack of sexual er arousal disorders	ijoyment			PSyc	ychogenic physiological dysfunction NOS	
	FJ2.2		e of genital response			D	isorde	lers of adult personality and behavior (F6Ø-F69)	
		F52.21	Male erectile disorder Erectile disorder	ď	√4 th	F6Ø	Specif	ific personality disorders	
			Psychogenic impotence				F6Ø.Ø	Ø Paranoid personality disorder Expansive paranoid personality (disorder)	нсс
			EXCLUDES 1 impotence of ore impotence NOS	anic origin (N52) N52 -)				Fanatic personality (disorder)	
		F52.22	Female sexual arousal diso	rder Q				Paranoid personality (disorder) Querulant personality (disorder)	
254			Female sexual interest/aro	usal disorder				Sensitive paranoid personality (disorder)	
√ 0	F52.3		ted orgasm					paranoia (F22) paranoia (F22)	
			ogenic anorgasmy					paranoid psychosis (F22) paranoid schizophrenia (F2Ø.Ø)	
			Female orgasmic disorder Male orgasmic disorder	ç ď				paranoid state (F22)	
		192.92	Delayed ejaculation	0			F6Ø.1	· · · · · · · · · · · · · · · · · · ·	нсс
			ure ejaculation	ď				EXCLUDES 2 Asperger's syndrome (F84.5) delusional disorder (F22)	
	F52.5		mus not due to a substance o ogical condition	or known Q				schizoid disorder of childhood (F84.5) schizophrenia (F20)	
			ogenic vaginismus	un nhusiala aisal condition)				schizotypal disorder (F21)	
		ENGLUD	(N94.2)	vn physiological condition)			F6Ø.2	2 Antisocial personality disorder Amoral personality (disorder)	нсс
			Psychogenic response resulting i al canal muscles. This condition					Asocial personality (disorder)	
		preve	nt sexual intercourse.	5				Dissocial personality disorder Psychopathic personality (disorder)	
	F52.6		eunia not due to a substance ogical condition	or known				Sociopathic personality (disorder)	
		Genit	o-pelvic pain or penetration dis	sorder				EXCLUDES1 conduct disorders (F91) EXCLUDES2 borderline personality disorder (F60.3)	
			ogenic dyspareunia ES 2 dyspareunia (due to a kno	wn physiological condition			F6Ø.3		нсс
		13/(0100)	(N94.1-)	physiological conation)				Aggressive personality (disorder) Emotionally unstable personality disorder	
								Explosive personality (disorder)	
								EXCLUDES 2 antisocial personality disorder (F6Ø.2)	
					1				

F51.09-F60.3

l25.811-l27.24

125.811-127.24	4	Chapte	er 9. Diseases of the Circulatory System Me	ntal, Beha	vioral,	and Neul	rodevelopmental Disorders ICD-10-CM 2023
		125.811	Atherosclerosis of native coronary	√5 th	126.9	Pulmor	nary embolism without acute cor pulmonale
			artery of transplanted heart without			126.90	•
			angina pectoris				pulmonale
			Atherosclerosis of native coronary artery of transplanted heart NOS				Code first underlying infection
			EXCLUDES 1 atherosclerosis of native coronary			126.92	
			artery of transplanted heart				cor pulmonale
			with angina pectoris			126.93	
			(125.75-)				acute cor pulmonale
		125.812	Atherosclerosis of bypass graft of				Subsegmental pulmonary embolism NOS AHA: 2021, 2Q, 9; 2019, 4Q, 6-7
			coronary artery of transplanted heart without angina pectoris			126.94	
			Atherosclerosis of bypass graft of				acute cor pulmonale
			transplanted heart NOS				AHA: 2021, 2Q, 9; 2019, 4Q, 6-7
			EXCLUDES 1 atherosclerosis of bypass graft of			126.99	Other pulmonary embolism without acute cor
			transplanted heart with				
	125.02	a	angina pectoris (125.76)				Acute pulmonary embolism NOS Pulmonary embolism NOS
	125.82		otal occlusion of coronary artery				AHA: 2020, 3Q, 10-11; 2019, 2Q, 22
			cclusion of coronary artery	<mark>√4ª</mark> 27	Other		nary heart diseases
			rst coronary atherosclerosis (125.1-, 125.7-,			•	
			5.81-)		127.0		y pulmonary hypertension HCC RX ESR COM able pulmonary arterial hypertension
		EXCLUDES	acute coronary occlusion with myocardial				athic pulmonary arterial hypertension
			infarction (I21.0-I21.9, I22) acute coronary occlusion without myocardial				ary group 1 pulmonary hypertension
			infarction (124.0)				ary pulmonary arterial hypertension
		AHA: 20	018, 3Q, 5			EXCLU	persistent pulmonary hypertension of newborn (P29.30)
			mplete blockage of the coronary artery due to				pulmonary hypertension NOS (127.20)
			accumulation over an extended period of time,				secondary pulmonary arterial hypertension (127.21) secondary pulmonary hypertension (127.29)
			g in substantial reduction of blood flow. ms include angina or chest pain.			DEF:	Condition that occurs when pressure within the pulmonary
			port this code in addition to a code from category				is elevated and vascular resistance is observed in the lungs.
			122 when the chronic total occlusion and the		127.1	Kyphos	coliotic heart disease
			dial infarction are documented as being in tessels.	√5 th	127.2	Other s	econdary pulmonary hypertension
	125.83					Code	also associated underlying condition
	123.03	plaque	atherosclerosis due to lipid rich				DES 1 Eisenmenger's syndrome (127.83)
			rst coronary atherosclerosis (125.1-, 125.7-,				2017, 4Q, 14-15; 2014, 4Q, 21
		125	5.81-)			DEF:	Condition that occurs when pressure within the pulmonary v is elevated and vascular resistance is observed in the lungs.
	125.84		atherosclerosis due to calcified			127.20	Pulmonary hypertension, unspecified HCC RX ESR COM
		coronary				127.20	Pulmonary hypertension NOS
			ry atherosclerosis due to severely calcified ronary lesion			127.21	Secondary pulmonary arterial
			rst coronary atherosclerosis (125.1-, 125.7-,				hypertension HCC RX ESR COM
			5.81-)				(Associated) (drug-induced) (toxin-induced)
	125.89	Other for	ms of chronic ischemic heart disease			>	pulmonary arterial hypertension NOS (Associated) (drug-induced) (toxin-induced)
125.9	Chronie	c ischemic h	eart disease, unspecified				(secondary) group 1 pulmonary hypertension
	lsche	mic heart dis	sease (chronic) NOS				Code also associated conditions if applicable, or
							adverse effects of drugs or toxins, such as:
Pulmonary	neart di		d diseases of pulmonary circulation				adverse effect of appetite depressants (T50.5X5) congenital heart disease (Q20-Q28)
		()	126-128)				human immunodeficiency virus [HIV] disease (B2Ø)
4 I26 Pulm	nonary er	nbolism					polymyositis (M33.2-)
INC			ute) (artery)(vein) infarction				portal hypertension (K76.6)
			cute) (artery)(vein) thromboembolism				rheumatoid arthritis (MØ5) schistosomiasis (B65)
EVO			cute) (artery)(vein) thrombosis				Sjögren syndrome (M35.Ø-)
14/10			nary embolism (127.82) y of pulmonary embolism (Z86.711)				systemic sclerosis (M34)
			bolism complicating abortion, ectopic or molar			127.22	Pulmonary hypertension due to left heart
		pregnar	ncy (000-007, 008.2)				disease HCC RX ESR COM
	р		bolism complicating pregnancy, childbirth and				Group 2 pulmonary hypertension Code also associated left heart disease, if known, such
			rperium (088) bolism due to complications of surgical and				as:
	pu		are (T80.0, T81.7-, T82.8-)				multiple valve disease (lØ8)
	ри		bolism due to trauma (T79.0, T79.1)				rheumatic mitral valve diseases (lØ5)
			lmonary) arterial embolism (I76)				rheumatic aortic valve diseases (IØ6)
<mark>√5</mark> ⁰ l26.Ø	Ø Pulmor	nary emboli	ism with acute cor pulmonale			127.23	
			ale: Heart-lung disease appearing in identifiable				and hypoxia HCC Rx ESR COM Group 3 pulmonary hypertension
			or acute. The chronic form of this heart-lung by dilation and hypertrophy failure of the right				Code also associated lung disease, if known, such as:
			disease that has affected the function of the				bronchiectasis (J47)
	lungs	, excluding c	ongenital or left heart diseases and is also called				cystic fibrosis with pulmonary manifestations
			monary disease. The acute form is an overload of				(E84.Ø) interstitiallung disease (184)
			from a rapid onset of pulmonary hypertension, m a pulmonary embolism.				interstitial lung disease (J84) pleural effusion (J9Ø)
	126.01		Imonary embolism with acute cor				sleep apnea (G47.3-)
		pulmonal				127.24	
		Code fir	rst underlying infection				hypertension HCC Rx ESR COM
	126.Ø2		nbolus of pulmonary				Group 4 pulmonary hypertension
		•	th acute cor pulmonale				Code also associated pulmonary embolism, if applicable (126, 127.82)
	126.09		Imonary embolism with HCC RX ESR COM				applicable (120, 127.02)
			pulmonale or pulmonale NOS				
			014, 4Q, 21				

Chapter 9. Diseases of the Circulatory System Mental, Behavioral, and Neurodevelopmental Disorders

Adult Age: 15-124 ICD-10-CM 2023

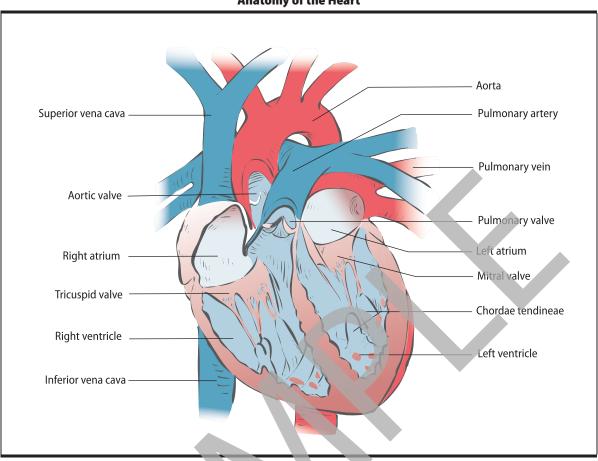
				enapter i	or symptoms, signs	ana / lo			incur ui			
	R41.2	Retroar	ade amnes	ia			1		R44.Ø	Auditor	y hallucina	ations
		Other a									allucinatio	
	1.41.5		sia NOS								allucinatio	
		Memo	ory loss NOS								ations, un	
		EXCLUD	ES1 amnes	stic disorder due to	o known physiologic co	ndition						and signs involving general sensations and
				(FØ4)					N44.0	percept		and sights involving general sensations and
				stic syndrome due (F1Ø-F19 with 5th	to psychoactive substa	nce use			R44 9	• •		toms and signs involving general
					cnaracter .6) ce due to known physio	loaical			1177.2		ons and pe	
				condition (FØ6.8)	ce due to known physio	iogicai	200		-		•	•
				ent global amnesi	a (G45.4)		√4 ^m	K45			-	volving emotional state
	R41.4	Neurolo		t syndrome	. ,				R45.Ø	Nervou		
			atognosia	,							us tension	
		Hemi-	akinesia								iness and a	agitation
			inattention							Unhapp		
			patial negle ided neglec						R45.3		lization ar	
			ry neglect	L								donia (R45.84)
			spatial negle	ect							ity and an	ger
		EXCLUD	ES1 visuos	patial deficit (R41.	.842)				R45.5	Hostility	y	
√5 th	R41.8	Other sv	mptoms a	nd sians involvi	ng cognitive functio	ns and			R45.6	Violent	behavior	
		awaren		j	··· j ··· j ··· ·· ··· ··· ···				R45.7	State of	emotiona	shock and stress, unspecified
		R41.81	Age-relat	ed cognitive de	cline	Q A		$\sqrt{5}^{th}$	R45.8	Other sy	ymptoms a	and signs involving emotional state
			Senility							-	Low self-	
		R41.82	Altered m	nental status, un	specified					R45.82	Worries	
				in mental status								e crying of child, adolescent or adult
			EXCLUDES		f consciousness (R4Ø)							si excessive crying of infant (baby) R68.11
					l status due to known					R45 84	Anhedon	
				conaition delirium NOS (i	—code to condition				- (Bth			al and suicidal ideations
			AHA: 20)12, 4Q, 97	N41.0)				V 0	N 43.03		suicide attempt (T14.91)
		R41.83		e intellectual fu	nctioning							Homicida ideations
				71 to 84	y							Suicidal ideations
			EXCLUDES	1 intellectual dis	abilities (F7Ø-F79)						I CO.CPA	DEF: Thoughts of committing suicide but no
	√6 th	R41.84	Other spe	cified cognitive	deficit	4						actual attempt of suicide has been made.
				1 cognitive defic						R45.86	Emotion	al lability
					ascular disease (169.Ø1-					R45.87	Impulsiv	eness
					59.21-, 169.31-, 169.81-,						-	dal self-harm
			B	169.91-)								cidal self-injury
			R41.840		concentration deficit							cidal self-mutilation
				EXCLUDES I all	ention-deficit hyperacti disorders (F90)	vity						licted injury without suicidal intent
			R41 841	Cognitive com	nunication deficit							lso injury, if known
				Visuospatial de						R45.89		mptoms and signs involving emotional
				Psychomotor d							state	
					d executive function	deficit	√4 th	R46				volving appearance and behavior
		R41 80			ns involving cognitive				EXCL	UDES 1 ap		nd behavior in schizophrenia, schizotypal and
		1.02		and awareness		-						al disorders (F20-F29) ehavioral disorders (F01-F99)
			Anosog						D46 Ø			
	R41.9	Unspeci	ified sympt	oms and signs i	nvolving cognitive						-	personal hygiene
		functior	ns and awa	reness							•	ippearance
		Unspe	ecified neuro	ocognitive disord	er					-	-	olicable behavior
R42			giddiness			Q				Overact	•	_
	5	t-headed	ness						R46.4			or responsiveness
		go NOS									ES1 stupo	
	EXCLU			dromes (H81) frasound (T75.23)								nd marked evasiveness
												nd preoccupation with stressful events
<mark>√4[™] R43</mark>			of smell an	id taste					R46.7			cumstantial detail obscuring reason for
	R43.Ø	Anosmi						_		contact		
					ce of smell that may be			√ 5 th	R46.8			and signs involving appearance and
	D 42 4		nital or acqu	lired.						behavio		
	K43.1	Parosmi		meant on of small	usually triansad by					R46.81		e-compulsive behavior
			nmental od		usually triggered by							s1 obsessive-compulsive disorder (F42)
	R43.2	Parageu		0.51						R46.89	other syn	mptoms and signs involving appearance
		-		erception of taste.							and bena	avior
	R43.8			s of smell and ta	ste			Sum	ntom	c and ci	anc invo	lving speech and voice (R47-R49)
				e of smell and tas				Sym	ptom	s allu si	giis ilivo	iving speech and voice (R47-R49)
	R43.9	Unspeci	fied distur	bances of smell	and taste		$\sqrt{4^{th}}$	R47	Speed	h disturl	bances, no	ot elsewhere classified
<mark>√4[™] R44</mark>		-			eneral sensations a	nd			EXCL		tism (F84.Ø)	
K44	perce		nis allu sig	nis mvolving ge	enerai sensations a	iiu					ittering (F8¢	
			oholic hallu	cinations (F1Ø 15)	1, F1Ø.251, F1Ø.951)					sp	ecific develc (F8Ø)	opmental disorders of speech and language
					(F11-F19 with fifth to si	ixth				sti	(۲۵۵) Ittering (F8۱	0.81)
			characte	ers 51)				√.5th	R47 Ø		sia and ap	
		ha			s with psychotic sympto	oms			1.77.00		Aphasia	
		h -		F31.5, F32.3, F33.3,		nal				147.01	•	aphasia following cerebrovascular disease
		na		in schizophrenia, . rs (F2Ø-F29)	schizotypal and delusic	niui					1-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	(169. with final characters -20)
	EXCLU	DES 2 dis		f skin sensation (R	20)							progressive isolated aphasia (G31.Ø1)
					,		1					

Chapter 18. Symptoms, Signs and Abnormal Clinical and Laboratory Findings

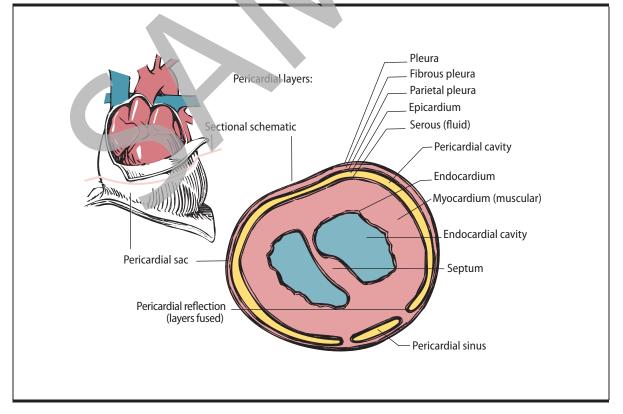
ESR ESRD HCC

Newborn Age: 0

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



Heart Cross Section



Anatomy of the Heart