

# Coders' Desk Reference for ICD-10-CM Diagnoses

Clinical descriptions with answers to your toughest ICD-10-CM coding questions



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### Introduction

Coders' Desk Reference for Diagnoses is an ICD-10-CM coding reference that provides comprehensive lay descriptions of diseases, injuries, poisonings, and other conditions. It has been developed for coders, billers, and other health care professionals in all health care settings, including medical offices, hospitals, post-acute care settings, and health insurance companies. It is also a valuable reference for educators and students who seek to expand their understanding of diagnostic coding. The goal is to enrich the user's clinical understanding of ICD-10-CM so that code selection becomes more accurate.

It should be noted that this diagnostic coding reference is intended to be used with an official ICD-10-CM code book. The *Coders' Desk Reference for Diagnoses* does not include the comprehensive index or guidelines found in the official ICD-10-CM, nor does it include coding instructions from the tabular section Information related to includes and excludes notes have also been omitted as providing this information would be redundant to what is readily available in an official ICD-10-CM code book. For these reasons, *Coders' Desk Reference for Diagnoses* does not replace an official code book; however, used in conjunction with a code book, this reference provides an unparalleled clinical roadmap to code selection.

#### **Format**

The Coders' Desk Reference for Diagnoses follows the organization of the tabular section of ICD-10-CM with the same 22 chapters beginning with Chapter 1: Certain Infectious and Parasitic Diseases and ending with Chapter 22: Codes for Special Purposes.

Each chapter is organized using a format similar to the tabular section of ICD-10 CM with chapters subdivided into blocks, alphanumeric categories, subcategories, and codes. Chapters begin with a general overview of diseases and other conditions classified to the chapter. Following the chapter overview, each chapter is divided into the various blocks where information is provided related to categories included in the block. This is followed by the lay descriptions. Lay descriptions may be provided at the category, subcategory, or code level.

Not all categories, subcategories, or codes have been represented in the *Coders' Desk Reference for Diagnoses*. The 2022 edition of *Coders' Desk Reference for Diagnoses* focuses on:

 A subset of the new fiscal year 2022 diagnosis codes released by the National Center for Health Statistics (NCHS) and the Centers for Medicare and Medicaid Services (CMS)

- Codes regularly encountered in various health care settings
- Codes that require in-depth clinical information in order to differentiate the represented condition from similar conditions that would be captured with other, more specific codes

Additional codes and lay descriptions will gradually be incorporated into future editions. Due to the structure of ICD-10-CM, many categories, subcategories, and codes have been updated with more robust official descriptions. In some cases, official code descriptions supply enough information about the disease process and any associated manifestations that provide additional narrative would be redundant. Also, codes in many categories and subcategories provide information related to site and/or laterality. Although site and laterality are important for valid code selection, they do not need additional explanations beyond the related disease process provided at the category or subcategory level.

#### **ICD-10-CM Codes and Lay Descriptions**

The codes in Coders' Desk Reference for Diagnoses are based on the official version of the International Classification of Diseases, 10th Revision, Clinical Modification effective October 1, 2021.

Coders' Desk Reference for Diagnoses is organized in a hierarchical context, similar to how the ICD-10-CM code book is organized with lay descriptions provided at the three, four, five, and/or six character level. Lay descriptions at the category level provide a broad overview of diseases or other conditions classified to the category. Category-level lay descriptions may be followed by subcategory and/or code level lay descriptions. Lay descriptions at the subcategory and code levels build on the information provided at the category level. The category level will be the most general and provides information relevant to all subcategories and codes in the category. The subcategory is more specific with the code level lay description providing the most detailed information about the disease, injury, or other condition.

Because some lay descriptions are not carried to the code level, the book uses a dash (-) to differentiate invalid codes from valid codes.

#### Valid Code

A valid code in the *Coders' Desk Reference for Diagnoses* is any code for which a dash (-) is **not** appended to the end of an alphanumeric code. Valid codes may be three characters to seven characters long.

Example: Lay description for valid three-character code

## Prefixes and Suffixes

The uniquely efficient language of medicine is possible thanks to the prefixes and suffixes attached to roots. Changing prefixes and suffixes allows subtle and overt changes in meaning of the terms. The following prefixes and suffixes are paired with their meanings.

#### **Prefixes**

Prefixes are one half of the medical language equation and are attached to the beginning of words. For example, the prefix "eu-," meaning good or well, combined with the Greek word for death, "thanatos," produces euthanasia — a good death.

a-, anwithout, away from, not abfrom, away from, absent

acanth(o)thorny, spine

acroextremity, top, highest point adindicates toward, adherence to, or

increase

adenorelating to a gland adip(o)relating to fat aerorelating to gas or air stick together, clump agglutinalb-

white in color alge(si)awareness to pain

all(o)indicates difference or divergence

from the norm

ambiboth sides: about or around (also

amphi-)

amblydull, dimmed anwithout

andro-

male relating to a vessel angi-

dissimilar, unequal, or asymmetrical ankylobent, crooked, or two parts growing

together

antein front of, before antero before, front, anterior antiin opposition to, against antrorelating to a chamber or cavity

aphth(o)ulcer

archbeginning, first, principal (also arche-,

archi-)

archorelating to the rectum or anus arteriorelating to an artery arthrorelating to a joint astrostar-like or shaped ateloincomplete or imperfect autorelating to the self

relating to an axis (also axo-) axiobalanorelating to the glans penis or glans

clitoridis

barorelating to weight or heaviness basi(o)relating to the base or foundation

bidouble, twice, two blastorelating to germs blenn(o)relating to mucus blepharorelating to the eyelid brachi(o)relating to the arm

brachy short

meaning slow or prolonged bronchorelating to the trachea bucc(o) relating to the cheek

cacmeaning diseased or bad (also caci-,

caco-)

cardiorelating to the heart

cari(o)rot, decay

carporelating to the wrist

catadown from, down, according to

cathar(o)purging, cleansing caud(o)lower part of body

celoindicating a tumor or hernia; cavity

cerebr(o)relating to the brain

cervicorelating to the neck or neck of an

organ

chilorelating to the lip (also cheilo-) cholerelating to the gallbladder choledocho-relating to the common bile duct

chondr(o)relating to cartilage

chromocolor

cirrhoyellow in color

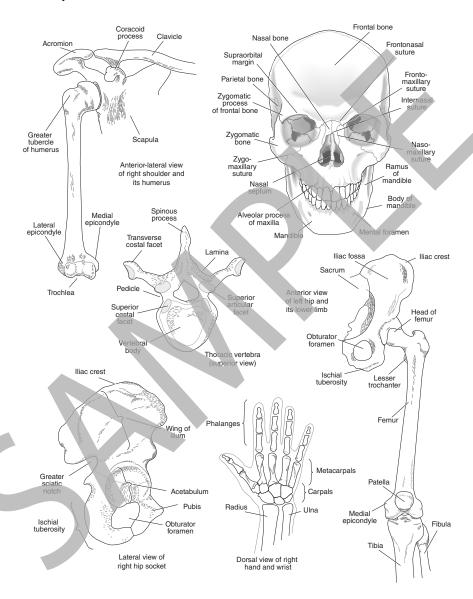
cleid(o)relating to the clavicle

coelcavity, ventricle coen(o)common, shared

cole(o)sheath

# **Anatomy Charts**

#### Skeletal System



## **Chapter 1: Certain Infectious and** Parasitic Diseases (AØØ-B99)

This chapter covers diseases caused by infectious and parasitic organisms, which include diseases generally recognized as communicable or transmissible. Only a small percentage of organisms in the environment cause disease. Most bacteria, viruses, fungi, and other microorganisms found in the external environment (e.g., air, water, and soil) or the internal environment (e.g., on or within our bodies) are harmless or even beneficial. Disease is caused almost exclusively by microorganisms that are human pathogens, also referred to as pathogenic microorganisms, except in persons or hosts whose immune systems are weakened, which allows normally harmless microorganisms to cause opportunistic infections.

This chapter is organized primarily by the type of infectious organism or parasite, such as infections caused by bacteria, viruses, and mycoses and parasitic diseases caused by protozoa and helminths. There are also some code blocks organized by site of infection. such as intestinal infectious diseases, and other code blocks organized by mode of transmission, such as infections with a predominantly sexual mode of transmission, arthropod-borne viral fevers, and viral hemorrhagic fevers.

The chanter is broken down into the following

	ne chapter locks:	is broken down into the following code
	AØØ-AØ9	Intestinal infectious diseases
	A15-A19	Tuberculosis
	A2Ø-A28	Certain zoonotic bacterial diseases
	A3Ø-A49	Other bacterial diseases
).	A5Ø-A64	Infections with a predominantly sexual mode of transmission
	A65-A69	Other spirochetal diseases
	A7Ø-A74	Other diseases caused by chlamydiae
	A75-A79	Rickettsioses
	A8Ø-A89	Viral infections of the central nervous system
	A9Ø-A99	Arthropod-borne viral fevers and viral hemorrhagic fevers
	BØØ-BØ9	Viral infections characterized by skin and mucous membrane lesions
	B1Ø	Other human herpesviruses
	B15-B19	Viral hepatitis
	B2Ø	Human immunodeficiency virus [HIV]

disease

B25-B34 Other viral diseases

033-049	Mycoses
B5Ø-B64	Protozoal diseases
B65-B83	Helminthiases
B85-B89	Pediculosis, acariasis and other infestations
B9Ø-B94	Sequelae of infectious and parasitic diseases
B95-B97	Bacterial and viral infectious agents

Other infectious diseases

R35-R40 Mycosos

**R99** 

There are a few infectious conditions that are excluded from this chapter, including certain localized infections that are classified in specific body-system chapters. For example:

- Suppurative otitis media is classified in Chapter 8 Diseases of the Ear and Mastoid Process
- Influenza and other acute respiratory infections are classified in Chapter 10 Diseases of the Respiratory System
- Pyogenic arthritis is classified in Chapter 13 Diseases of the Musculoskeletal System and Connective Tissue

#### **Intestinal Infectious Diseases** (AØØ-AØ9)

Intestinal infectious diseases are caused primarily by ingestion of contaminated food or water. Less common means of infection include handling contaminated food products or other contaminated items or coming in direct contact with infected animals.

The first symptoms of intestinal infectious diseases usually involve the gastrointestinal tract and may include abdominal pain or cramping, nausea, vomiting, and/or diarrhea, although some microorganisms may produce other initial symptoms. For example, *Clostridium botulinum* causes foodborne botulism poisoning and often produces neurological symptoms initially.

Intestinal infections usually remain localized to the intestinal tract and often resolve without medical treatment. In most cases, infections requiring treatment only need supportive care such as replacement of lost fluids and maintenance of electrolyte balance. In some cases, particularly the very young, the elderly, or individuals with immune system disorders or chronic health conditions, a localized

infection is typically accompanied by fever, body aches, headache, and local lymph node inflammation. While most symptoms resolve within several days to a week, the blisters resolve more slowly over a two- to six-week period.

#### BØØ.1 Herpesviral vesicular dermatitis

Herpesviral blisters of the skin, also called cold sores, are the most common manifestation related to the herpes simplex virus, with the lips and face being the most common sites of infection. Most people contract the infection during infancy or childhood from an adult who carries the virus. Carriers most often spread the virus when they are not suffering from a current outbreak. The initial infection is commonly accompanied by flu-like symptoms including fever, headache, body aches, and malaise. After the symptoms of the initial infection resolve, the virus remains dormant in the nervous system and subsequent outbreaks, triggered by stressors, can occur. Common stressors that trigger outbreaks include physical stressors such as sun exposure. extreme cold, illness or surgery, or fever; emotional stressors involving family, relationships, work, or school; and in women, hormone changes related to the menstrual cycle.

### BØØ.2 Herpesviral gingivostomatitis and pharyngotonsillitis

Infection of the mouth and gums (gingivostomatitis) or the throat and tonsils (pharyngotonsillitis) is another manifestation of herpes simplex virus infection. Gingivostomatitis is a common manifestation in children presenting as painful blisters or sores of the mouth or gums, in addition to fever, irritability, and refusal of food and/or liquids. The main symptom of pharyngotonsillitis is sore throat due to the blisters or sores. The symptoms usually resolve over one to two weeks.

#### BØØ.3 Herpesviral meningitis

Meningitis is inflammation of the membranes that cover the brain and spinal cord. Symptoms of meningitis include fever, light sensitivity, headache, and a stiff neck.

#### BØØ.4 Herpesviral encephalitis

Approximately 10 percent of all encephalitis cases are caused by herpes simplex virus 1 or 2. Encephalitis is an infection or inflammation of the brain. Symptoms include those seen in meningitis—fever, light sensitivity, headache, and a stiff neck—along with other neurological symptoms suggesting brain involvement, such as seizures, confusion, personality and behavior changes, sleepiness, and coma.

#### BØØ.5- Herpesviral ocular disease

Both strains of herpes simplex virus, HSV-1 and HSV-2, can cause infections involving the eye and ocular adnexa, but the majority is caused by HSV-1. The infection is spread by direct contact or from the mouth to the eye via the trigeminal nerve. Most symptomatic infections involving the eye are believed to be secondary infections caused by reactivation of the virus in the trigeminal ganglion. The most common manifestations of HSV ocular disease is conjunctivitis.

#### BØØ.51 Herpesviral iridocyclitis

Iridocyclitis is an infection or inflammation of the iris and ciliary body, also referred to as anterior uveitis. Iridocyclitis presents with a red painful eye, sensitivity to light (photophobia), and tearing or drainage from the eye.

#### BØØ.52 Herpesviral keratitis

Keratitis is an inflammation of the cornea. In herpes simplex virus infections, the inflammation is characterized by dendritic lesions that begin as small raised vesicles in the corneal epithelium and may progress to corneal ulcers. These may eventually penetrate the basement membrane of the corneal epithelium. Further damage, including corneal erosion, persistent corneal epithelial defects, stromal erosion, and necrosis, may occur and may eventually cause corneal blindness. Symptoms of HSV keratitis include pain, sensitivity to bright light, vision changes, redness, and tearing. Aggressive treatment is required to prevent progression of the disease that may result in blindness.

#### B00.53 Herpesviral conjunctivitis

The most common ocular manifestation of herpesyiral infection is conjunctivitis and the most common type of conjunctivitis seen in herpes simplex virus infection (HSV) is follicular. Follicular conjunctivitis is characterized by the development of follicles, which are clumps of lymphocytes that function like miniature lymph nodes in response to the infection. The follicles appear as small yellowish or grayish elevations on the conjunctiva. A less common form is dendritic conjunctivitis, which affects the epithelial cells of the conjunctiva. Both strains of herpes simplex virus, HSV-1 and HSV-2, can cause conjunctivitis, but the majority is caused by HSV-1. The infection is spread by direct contact or from the mouth to the eye via the trigeminal nerve. Most symptomatic infections involving the eye are believed to be secondary infections caused by reactivation of the virus in the trigeminal ganglion.

#### BØØ.59 Other herpesviral disease of eye

Herpesviral manifestations affecting the eyelid including dermatitis and blepharitis are included here.

# Chapter 6: Diseases of the Nervous System (GØØ-G99)

The nervous system is a complex network of specialized organs, tissues, and cells that coordinate the body's actions and functions. It consists of two main subdivisions: the central nervous system and the peripheral nervous system. The central nervous system includes the brain, the spinal cord, and the membranes that cover these structures. The peripheral nervous system includes the sense organs and the nerves that link the organs, muscles, and glands to the central nervous system.

The central nervous system (CNS) is the control center for almost all functions of the body and comprises two major structures: the brain and the spinal cord. The brain resides in and is protected by the cranial bones and the spinal cord extends from the base of the brain, residing in and protected by the spinal column.

The brain can be subdivided into several regions:

- The cerebral hemispheres form the largest part of the brain, occupying the anterior and middle cranial fossae in the skull.
- The diencephalon includes the thalamus, hypothalamus, epithalamus, and subthalamus, and forms the central core of the brain.
- The midbrain is located at the junction of the middle and posterior cranial fossae.
- The pons is in the anterior part of the posterior cranial fossa; fibers within the pons connect one cerebral hemisphere with its opposite cerebellar hemisphere.
- The medulla oblongata is continuous with the spinal cord and controls the respiratory and cardiovascular systems.
- The cerebellum overlies the pons and medulla and controls motor functions that regulate muscle tone, coordination, and posture.

The spinal column, which encloses the spinal cord, consists of vertebrae linked by intervertebral discs and held together by ligaments. The spinal cord extends from the medulla at the base of the brain to the first lumbar vertebra. The outer layer of the spinal cord consists of nerve fibers enclosed in a myelin-sheath that conduct impulses triggered by pressure, pain, heat, and other sensory stimuli or conduct motor impulses activating muscles and glands. The inner layer, or gray matter, is primarily composed of nerve cell bodies. The central canal, within the gray matter, circulates the cerebrospinal fluid.

The brain and spinal cord are covered by three membranes: the dura mater, arachnoid, and pia mater, collectively defined as the meninges. The dura mater lies closest to the skull and functions as a protective layer and as a collection area for cerebral spinal fluid (CSF) and blood that needs to be returned to general circulation. The arachnoid is the middle layer that is a loose sac surrounding the brain. Arteries and veins of the brain, as well as CSF, can be found in the space below the arachnoid membrane or subarachnoid space. The layer closest to the brain is the pia mater. This layer adheres very closely to the surface of the brain and spinal cord and contains small blood vessels.

There are 31 pairs of spinal nerves that deliver sensory impulses from the peripheral nervous system to the spinal cord, which in turn relays them to the brain. Conversely, motor impulses generated in the brain are relayed by the spinal cord to the spinal nerves, which pass the impulses to peripheral nerves in the muscles and glands.

The chapter is broken down into the following code blocks:

- G00-G09 Inflammatory diseases of the central nervous system
- G10-G14 Systemic atrophies primarily affecting the central nervous system
- G2Ø-G26 Extrapyramidal and movement disorders
- G3Ø-G32 Other degenerative diseases of the nervous system
- G35-G37 Demyelinating diseases of the central nervous system
- G4Ø-G47 Episodic and paroxysmal disorders
- G5Ø-G59 Nerve, nerve root and plexus disorders
- G60-G65 Polyneuropathies and other disorders of the peripheral nervous system
- G7Ø-G73 Diseases of myoneural junction and muscle
- G8Ø-G83 Cerebral palsy and other paralytic syndromes
- G89-G99 Other disorders of the nervous system

# Chapter 13: Diseases of the Musculoskeletal System and Connective Tissue (MØØ-M99)

This chapter classifies diseases and disorders of the bones, muscles, cartilage, fascia, ligaments, synovia, tendons, and bursa.

Connective tissue disorders classified to Chapter 13 are those primarily affecting the musculoskeletal system. Injuries and certain congenital disorders of the musculoskeletal system are classified elsewhere.

Many codes for the manifestation of musculoskeletal diseases due to specified infections and other diseases and disorders classified elsewhere are included in this chapter. Also included are many codes describing the residuals of previous diseases, disorders, and injuries classified as late effects. These codes often can be identified by the term "acquired" in the description.

The chapter is broken down into the following code blocks:

MØØ-MØ2 Infectious arthropathies

104 Autoinflammatory syndromes

MØ5-M14 Inflammatory polyarthropathies

M15-M19 Osteoarthritis

M2Ø-M25 Other joint disorders

M26-M27 Dentofacial anomalies [including malocclusion] and other disorders of jaw

M3Ø-M36 Systemic connective tissue disorders

M40-M43 Deforming dorsopathies

M45-M49 Spondylopathies

M5Ø-M54 Other dorsopathies

M6Ø-M63 Disorders of muscles

M65-M67 Disorders of synovium and tendon

M70-M79 Other soft tissue disorders

M8Ø-M85 Disorders of bone density and structure

M86-M9Ø Other osteopathies

M91-M94 Chondropathies

M95 Other disorders of the musculoskeletal

system and connective tissue

M96 Intraoperative and postprocedural

complications and disorders of musculoskeletal system, not elsewhere

classified

M97 Periprosthetic fracture around internal

prosthetic joint

M99 Biomechanical lesions, not elsewhere classified

# Infectious Arthropathies (MØØ-MØ2)

This category includes infections of the articular joints of bones, and must be differentiated from infections of the bones classifiable to osteomyelitis. Direct microbial contamination may cause a primary infection of the articular joints. The routes of infection include open fractures, surgical procedures, diagnostic needle aspirations, and therapeutic drug injections. Infectious arthropathies are due to an acute, destructive bacterial process in a joint following infection, usually occurring as acute monoarticular (single joint) arthritis. The knee and large joints are most often involved.

The categories in this code block are as follows:

MØØ Pyogenic arthritis

MØ1 Direct infections of joint in infectious and parasitic diseases classified elsewhere

MØ2 Postinfective and reactive arthropathies

#### MØØ.- Pyogenic arthritis

This category represents forms of arthritis due to an acute inflammation of the synovial membranes with purulent effusion into the joint specifically caused by a bacterial infection. It may also be referred to in the medical record documentation as suppurative or septic arthritis or suppurative synovitis. Signs and symptoms of pyogenic arthritis include fever, joint pain, decreased range of motion, and swelling and redness over the affected joint. Gross examination of aspirated synovial (joint) fluid confirms the presence of pus (pyarthrosis); a gram stain and culture may detect microorganisms and crystals. Pyogenic or septic arthritis has the potential to progress and become chronic resulting in sinus formation, osteomyelitis, and joint deformity. Septic arthritis is classified by bacterial organism, including staphylococcal, pneumococcal, and streptococcal. All other bacterial causes of arthritis are included in the other bacterial subcategory. Conditions classified here are further specified by site and laterality.

# Chapter 21: Factors Influencing Health Statu and Contact With Health Services (200-Z99)

# Chapter 21: Factors Influencing Health Status and Contact With Health Services (ZØØ-Z99)

The purpose of the "Z" codes is not to identify a specific disease process or injury; instead, these codes are more informational. They identify the reason for an encounter and circumstances related to the patient that may impact current disease processes and help depict a more complete picture of the patient's overall health.

As a first listed code, Z codes can capture and justify the reason for a visit to a health care entity. Well child visits, cancer screening, aftercare, and admissions solely for chemotherapy are just a few examples where the Z code can be used to identify the reason for the encounter.

As secondary codes, Z codes identify circumstances related to the patient that could influence health care needs during the current admission or in the future. Family history codes, personal history codes, economic circumstances, blood type, and do not resuscitate status are just a few Z codes that help validate certain treatment options and narrate why a patient was or will be managed a certain way.

The chapter is broken down into the following code blocks:

ZØØ-Z13	Persons encountering health services for examinations
Z14-Z15	Genetic carrier and genetic susceptibility to disease
Z16	Resistance to antimicrobial drugs
Z17	Estrogen receptor status
Z18	Retained foreign body fragments
Z19	Hormone sensitivity malignancy status
Z20-Z29	Persons with potential health hazards related to communicable diseases
Z3Ø-Z39	Persons encountering health services in circumstances related to reproduction
Z40-Z53	Encounters for other specific health care
Z55-Z65	Persons with potential health hazards related to socioeconomic and psychosocial circumstances

Do not resuscitate status

Blood type

766

Z67

Z68 Body mass index (BMI)

Z69-Z76 Persons encountering health services in other circumstances

Z77-Z99 Persons with potential health hazards related to family and personal history and certain conditions influencing health status

#### Persons Encountering Health Services for Examinations (ZØØ-Z13)

Codes found in this code block are used to capture general health examinations, follow-up studies, and screenings.

Examinations are used by medical professionals to monitor patients that are currently asymptomatic for precursors to disease, to evaluate the growth and development of children and adolescents, and for administrative purposes for things like sports or military participation.

Follow-up examinations are used to monitor previous disease processes that no longer require treatment. This ensures that the treatment was successful and that the disease itself or a sequela of the disease has not returned.

Screenings are performed as a preemptive strike in the detection of diseases. When caught early, the disease can be managed with typically less intensive treatments and result in better outcomes for the patient. Breast cancer and colon cancer are two conditions that are routinely screened.

The categories in this code block are as follows:

	without complaint, suspected or reported diagnosis
ZØ1	Encounter for other special examination without complaint, suspected or reported diagnosis

Encounter for general examination

ZØ3 Encounter for medical observation for suspected diseases and conditions ruled

Encounter for administrative examination

out

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