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Chapter 1: Certain Infectious and Parasitic Diseases (A00-B99)

Tabular List

Certain infectious and parasitic diseases (A00-B99)

- **A00** Cholera
  - A00.0 Cholera due to Vibrio cholerae 01, biovar cholerae
    - Classical cholera
  - A00.1 Cholera due to Vibrio cholerae 01, biovar eltor
    - Cholera eltor
  - A00.9 Cholera, unspecified

- **A01** Typhoid and paratyphoid fevers
  - **A01.0** Typhoid fever
    - Infection due to Salmonella typhi
      - **A01.00** Typhoid fever, unspecified
      - **A01.01** Typhoid meningitis
      - **A01.02** Typhoid fever with heart involvement
        - Typhoid endocarditis
        - Typhoid myocarditis
      - A01.03 Typhoid pneumonia
      - A01.04 Typhoid arthritis
      - A01.05 Typhoid osteomyelitis
      - **A01.09** Typhoid fever with other complications
        - **A01.1** Paratyphoid fever A
        - **A01.2** Paratyphoid fever B
        - **A01.3** Paratyphoid fever C
      - **A01.4** Paratyphoid fever, unspecified
        - Infection due to Salmonella paratyphi NOS

- **A02** Other salmonella infections
  - **A02.0** Salmonella enteritis
    - Salmonellosis
  - **A02.1** Salmonella sepsis
  - **A02.2** Localized salmonella infections
    - **A02.20** Localized salmonella infection, unspecified
    - **A02.21** Salmonella meningitis
    - **A02.22** Salmonella pneumonia
    - **A02.23** Salmonella arthritis
    - **A02.24** Salmonella osteomyelitis
    - **A02.25** Salmonella pyelonephritis
    - Salmonella tubulo-interstitial nephropathy
    - **A02.29** Salmonella with other localized infection
  - **A02.8** Other specified salmonella infections
  - **A02.9** Salmonella infection, unspecified

- **A03** Shigellosis
  - **A03.0** Shigellosis due to Shigella dysenteriae
    - Group A shigellosis [Shiga-Kruse dysentery]
  - **A03.1** Shigellosis due to Shigella flexneri
    - Group B shigellosis
  - **A03.2** Shigellosis due to Shigella boydii
    - Group C shigellosis

  - **A03.3** Shigellosis due to Shigella sonnei
    - Group D shigellosis
  - **A03.8** Other shigellosis
  - **A03.9** Shigellosis, unspecified
    - Bacillary dysentery NOS

- **A04** Other bacterial intestinal infections
  - **A04.0** Enteropathogenic Escherichia coli infection
  - **A04.1** Enterotoxigenic Escherichia coli infection
  - **A04.2** Enteroinvasive Escherichia coli infection
  - **A04.3** Enterohemorrhagic Escherichia coli infection
  - **A04.4** Other intestinal Escherichia coli infections
    - Escherchia coli enteritis NOS
  - **A04.5** Campylobacter enteritis
  - **A04.6** Enteritis due to Yersinia enterocolitica
  - **A04.7** Enterocolitis due to Clostridium difficile
    - Extrainestinal yersiniosis (A28.2)
  - **A04.8** Other specified bacterial intestinal infections
  - **A04.9** Bacterial intestinal infection, unspecified
    - Bacterial enteritis NOS

- **A05** Other bacterial foodborne intoxications, not elsewhere classified
  - **A05.0** Foodborne staphylococcal intoxication
  - **A05.1** Botulism food poisoning
    - Botulism NOS
    - Classical foodborne intoxication due to Clostridium botulinum
      - Infant botulism (A48.51)
      - Wound botulism (A48.52)
  - **A05.2** Foodborne Clostridium perfringens [Clostridium welchii] intoxication
    - Enteritis necroticans
    - Pig-bel
  - **A05.3** Foodborne Vibrio parahaemolyticus intoxication
  - **A05.4** Foodborne Bacillus cereus intoxication
  - **A05.5** Foodborne Vibrio vulnificus intoxication
  - **A05.8** Other specified bacterial foodborne intoxications
  - **A05.9** Bacterial foodborne intoxication, unspecified

- **A06** Amebiasis
  - **A06.0** Acute amebic dysentery
    - Acute amebiasis
    - Intestinal amebiasis NOS
  - **A06.1** Chronic intestinal amebiasis
  - **A06.2** Amebic nondysenteric colitis
  - **A06.3** Ameboma of intestine
    - Ameboma NOS
  - **A06.4** Amebic liver abscess
    - Hepatic amebiasis
  - **A06.5** Amebic lung abscess
    - Amebic abscess of lung (and liver)
Anatomy of the Cardiovascular System

Introduction

The human vascular system comprises a series of tubes (which are known as vessels) that travel in almost all parts of the human body. It is categorized into the following two classes:

1. Blood Vascular System

   The blood vascular system includes the heart and blood vessels required to facilitate the circulation of the colored fluid (blood) inside the body.

   a) The Structure of Arteries

      The arteries possess stronger and thicker walls than the corresponding veins and are based on the following components:

      i) Tunica Intima
      ii) Tunica Media
      iii) Tunica Externa

   b) The Structure of Veins

      The veins have a similar structure as that of the arteries. The components of a typical vein are described below:

      i) Tunica Intima
      ii) Tunica Media
      iii) Tunica Externa

   c) The Blood

      The blood is considered a uniquely specialized connective tissue that is composed of the formed elements (or the blood cells) and the fluid portion (or plasma). The formed elements of blood are based on the red blood cells (RBCs or erythrocytes), the white blood cells (WBCs or leukocytes) and the platelets (or thrombocytes). The blood contributes to about 8% of total body weight. The quantity of blood in an average human varies between 5 to 6 liters. The elements of blood are categorized below:

      d) Erythrocytes or Red Blood Cells: The red blood cells are the most common type of blood cells that contribute to about 95% of the blood cell volume.

      e) Leukocytes or White Blood Cells: The white blood cells can be divided into the following subcategories:

      f) Granular Leukocytes- The granular leukocytes contain granules in their cytoplasm and can be further classified into the following three types:

         i) neutrophils constitute about 60% to 70% of the white blood cells.
         ii) eosinophils constitute about 2% to 4% of the white blood cells.
         iii) basophils constitute about 0.5% to 1% of the white blood cells.

      g) Agranular Leukocytes: The agranular leukocytes do not contain granules in their cytoplasm and can be further classified into the following two types:

         i) monocytes constitute about 3% to 8% of the white blood cells.
         ii) lymphocytes constitute about 20% to 25% of the white blood cells.

      h) Thrombocytes or Platelets: The platelets are small cell fragments that do not contain nucleus in their cytoplasm.

      i) Blood Plasma

      The plasma is the fluid component of blood in which the blood cells usually remain suspended. The blood plasma is composed of 91% water, 7% proteins, and 2% solutes.

2. Lymph Vascular System

   The lymph vascular system includes the lymph glands and lymphatic vessels for circulating the colourless fluid (lymph) throughout the human body. Both of the blood vascular and the lymph vascular systems work in close association with each other for sustaining the human life cycle.

3. The Thoracic Cavity

   The thoracic cavity is enclosed by the thoracic wall and primarily contains the structures of the cardiovascular and respiratory systems.

   a) The Pericardium

      The heart and the roots of the great vessels are contained within the conical and fibro-serous sac, which is known as the pericardium. It is composed of two closely connected sacs, which are known as the fibrous pericardium (or the outer sac) and the serous pericardium (the inner sac).

   b) The Heart

      The heart is a hollow muscular organ that remains enclosed in the fibro-serous sac (or the pericardium) and is regarded as the central organ of the cardiovascular system. It lies between the lungs in the middle mediastinum and receives blood from the veins.

   CIRCULATION OF BLOOD THROUGH THE HEART

   4. The Chambers of the Heart

      The human heart is based on the following four chambers:

      a) The Right Atrium: The right border of the human heart is formed by the right atrium. The superior vena cava, inferior vena cava and coronary sinus provide venous blood supply to the right atrium of the heart.

      The right atrium contains the following elements inside it:

      i) Sinus Venarum
      ii) Pectinate Muscles
      iii) Opening of Superior Vena Cava
      iv) Opening of Inferior Vena Cava
      v) Opening of Coronary Sinus
      vi) The Right Atrioventricular Orifice
      vii) Interatrial Septum

      b) The Right Ventricle: The inferior border of the human heart is constituted by the right ventricle.

      c) The Left Atrium: The left atrium chiefly constitutes the base of the heart and utilizes the mitral valve to pump the oxygenated blood received from the pulmonary veins into the left ventricle.
### Tabular List

**Chapter 9: Diseases of the Circulatory System (I00-I99)**

**ICD-10-CM 2017**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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**I63. Cerebral infarction**

- **Includes**: occlusion and stenosis of cerebral and precerebral arteries, resulting in cerebral infarction

- **Use additional code, if applicable, to identify status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility (Z92.82)**

- **Includes**: sequelae of cerebral infarction (I69.3)

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**160.5 - 163.19**

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**ICD-10-CM 2017**

**Tabular List**

**Chapter 9: Diseases of the Circulatory System (I00-I99)**

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- **Includes**: sequelae of cerebral infarction (I69.3)
Chapter 14: Diseases of Genitourinary System (N00-N99)

N00 - N02.0

Diseases of the genitourinary system (N00-N99)

- Certain conditions originating in the perinatal period (P04-P96)
- Certain infectious and parasitic diseases (A00-B99)
- Complications of pregnancy, childbirth and the puerperium (O00-O9A)
- Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
- Endocrine, nutritional and metabolic diseases (E00-E88)
- Injury, poisoning and certain other consequences of external causes (S00-T88)
- Neoplasms (C00-D49)

Glomerular diseases (N00-N08)

- Acute nephritic syndrome
  - Acute glomerular disease
  - Acute glomerulonephritis
- Acute nephritic syndrome with minor glomerular abnormality
- Acute nephritic syndrome with focal and segmental glomerular lesions
- Acute nephritic syndrome with focal glomerulosclerosis
- Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
- Acute nephritic syndrome with diffuse crescentic glomerulonephritis
- Acute nephritic syndrome with extracapillary glomerulonephritis
- Acute nephritic syndrome with unspecified morphologic changes

N01.0 Acute nephritic syndrome with minor glomerular abnormality
- N01.1 Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions
- N01.2 Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis
- N01.3 Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis
- N01.4 Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis
- N01.5 Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis
- N01.6 Rapidly progressive nephritic syndrome with dense deposit disease
- N01.7 Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis
- N01.8 Rapidly progressive nephritic syndrome with other morphologic changes
- N01.9 Rapidly progressive nephritic syndrome with unspecified morphologic changes

N02 Recurrent and persistent hematuria
- Recurrent and persistent hematuria with minor glomerular abnormality

Tabular List
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<td>Triplet pregnancy, unable to determine number of placenta and number of amniotic sacs, second trimester</td>
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<td>O30.199</td>
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</tr>
</tbody>
</table>

**Manifestation Code**

- AHA Coding Clinic

**Unspecified Code**

- Newborn
- Pediatric
- Maternity
- Adult
- Male
- Female

**Other Specified Code**

- New Code
- Revised Code Title
- Revised Text
- Not coded here
- Not included here
- 4th character required
- 5th character required
- 6th character required
- 7th character required
- Extension X Alert
- Primary Diagnosis Only

**Hospital-acquired condition (HAC) alert**

**ICD-10-CM 2017 Tabular List**

O30.041 - O30.293

**Chapter 15: Pregnancy, Childbirth, and the Puerperium (O00-O9A)**

**Primary Diagnosis Only**

- Newborn
- Character required

**Revised Code Title**

- Revised
- Not included here

**Character Required**

- 5th character required
- 6th character required
- 7th character required

**Extension X Alert**

- Primary Diagnosis Only
Factors influencing health status and contact with health services (Z00-Z99)

**NOTES**
Z codes represent reasons for encounters. A corresponding procedure code must accompany a Z code if a procedure is performed. Categories Z00-Z99 are provided for occasions when circumstances other than a disease, injury or external cause classifiable to categories A00-Y99 are recorded as ‘diagnoses’ or ‘problems’. This can arise in two main ways:
(a) When a person who may or may not be sick encounters the health services for some specific purpose, such as to receive limited care or service for a current condition, to donate an organ or tissue, to receive prophylactic vaccination (immunization), or to discuss a problem which is in itself not a disease or injury.
(b) When some circumstance or problem is present which influences the person’s health status but is not in itself a current illness or injury.

Persons encountering health services for examinations (Z00-Z13)

**NOTES**
Non-specific abnormal findings disclosed at the time of these examinations are classified to categories R70-R94. Examinations related to pregnancy and reproduction (Z30-Z36, Z39.-)

Z00 Encounter for general examination without complaint, suspected or reported diagnosis

A separate procedure code is required to indicate any examinations or procedures performed as a component of general medical examinations (Z00.0-)

Z00.0 Encounter for general adult medical examination

Encounter for adult periodic examination (annual) (physical) and any associated laboratory and radiologic examinations

Z00.00 Encounter for general adult medical examination without abnormal findings

Encounter for adult health check-up NOS

Z00.01 Use additional code to identify abnormal findings

Z00.1 Encounter for newborn, infant and child health examinations

Z00.11 Newborn health examination

Health check for child under 29 days old

Use additional code to identify any abnormal findings

Z00.110 Health examination for newborn under 8 days old

Health check for newborn under 8 days old

Z00.111 Health examination for newborn 8 to 28 days old

Health check for newborn 8 to 28 days old

Newborn weight check

Z00.12 Encounter for routine child health examination

Encounter for development testing of infant or child Health check (routine) for child over 28 days old

health check for child under 29 days old (Z00.11-)

health supervision of foundling or other healthy infant or child (Z76.1-Z76.2)

newborn health examination (Z00.11-)

Z00.121 Encounter for routine child health examination with abnormal findings

Use additional code to identify abnormal findings

Z00.129 Encounter for routine child health examination without abnormal findings

Encounter for routine child health examination NOS

Z00.2 Encounter for examination for period of rapid growth in childhood

Z00.3 Encounter for examination for adolescent development state

Encounter for puberty development state

Z00.5 Encounter for examination of potential donor of organ and tissue

Z00.6 Encounter for examination for normal comparison and control in clinical research program

Z00.7 Encounter for examination for period of delayed growth in childhood

Z00.70 Encounter for examination for period of delayed growth in childhood without abnormal findings

Z00.71 Encounter for examination for period of delayed growth in childhood with abnormal findings

Use additional code to identify abnormal findings

Z00.8 Encounter for other general examination

Encounter for health examination in population surveys

Z01 Encounter for other special examination without complaint, suspected or reported diagnosis

A separate procedure code is required to identify any examinations or procedures performed as a component of general medical examinations (Z01.0-)

Z01.0 Encounter for examination of eyes and vision

Z01.00 Encounter for examination of eyes and vision without abnormal findings

Encounter for examination of eyes and vision NOS

Z01.01 Encounter for examination of eyes and vision with abnormal findings

Use additional code to identify abnormal findings

Z01.1 Encounter for examination of ears and hearing

Z01.10 Encounter for examination of ears and hearing without abnormal findings

Encounter for examination of ears and hearing NOS

Z01.11 Encounter for examination of ears and hearing with abnormal findings

Z01.118 Encounter for examination of ears and hearing following failed hearing screening

Z01.118 Encounter for examination of ears and hearing with other abnormal findings

Use additional code to identify abnormal findings

Z01.12 Encounter for hearing conservation and treatment

Z01.2 Encounter for dental examination and cleaning

Z01.20 Encounter for dental examination and cleaning without abnormal findings

Encounter for dental examination and cleaning NOS