

# Medical Terminology

**8383 36 weeks / 8384 18 weeks**

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# Course Description

**Suggested Grade Level:** 10 or 11 or 12

Medical Terminology is designed to help students learn common medical terms essential for patient care. Topics are presented in logical order, beginning with each body system's anatomy and physiology and progressing through pathology, laboratory tests and clinical procedures, therapeutic interventions, and pharmacology. Students learn concepts, terms, and abbreviations for each topic.

*Recommended prerequisite(s): Introduction to Health and Medical Sciences 8302*

## Task Essentials Table

- Tasks/competencies designated by plus icons (⊕) in the left-hand column(s) are essential
- Tasks/competencies designated by empty-circle icons (○) are optional
- Tasks/competencies designated by minus icons (⊖) are omitted
- Tasks marked with an asterisk (\*) are sensitive.

8383	8384	Tasks/Competencies
Understanding Medical Terminology		
⊕	⊕	Explain how medical terms are developed.
⊕	⊕	Define common medical word roots.
⊕	⊕	Define common medical prefixes.
⊕	⊕	Define common medical suffixes.
⊕	○	Demonstrate pronunciation of medical terms.
⊕	○	Apply the components of medical terminology (i.e., prefixes, word roots, suffixes).
Understanding Medical Abbreviations		
⊕	⊕	Explain medical abbreviations related to body systems.
⊕	○	Identify medical abbreviations related to pathological conditions.
⊕	○	Identify medical abbreviations related to diagnostic procedures.
⊕	⊕	Explain medical abbreviations related to documentation.
⊕	○	Identify medical abbreviations related to pharmacology.

8383	8384	Tasks/Competencies
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify abbreviations related to healthcare regulations and regulatory systems.
Understanding Body Structure and Organization		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Explain anatomical reference systems used to organize the body structure.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the organization of the human body.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify body cavities and the organs located within these cavities.
<input checked="" type="radio"/>	<input type="radio"/>	Identify body planes.
<input checked="" type="radio"/>	<input type="radio"/>	Identify body directions.
<input checked="" type="radio"/>	<input type="radio"/>	Identify body regions.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Define <i>anatomy</i> and <i>physiology</i> .
Understanding the Integumentary System		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the integumentary system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the role of the integumentary system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the integumentary system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the integumentary system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the integumentary system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the integumentary system.
Understanding the Musculoskeletal System		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the musculoskeletal system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the function of the musculoskeletal system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the musculoskeletal system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the musculoskeletal system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the musculoskeletal system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the musculoskeletal system.
Understanding the Cardiovascular System		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the cardiovascular system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the functions of the cardiovascular system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the cardiovascular system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the cardiovascular system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the cardiovascular system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the cardiovascular system.
Understanding the Respiratory System		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the respiratory system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the function of the respiratory system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the respiratory system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the respiratory system.

8383	8384	Tasks/Competencies
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the respiratory system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the respiratory system.
<b>Understanding the Nervous System</b>		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the nervous system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the function of the nervous system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the nervous system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the nervous system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the nervous system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the nervous system.
<b>Understanding the Urinary System</b>		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the urinary system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the role of the urinary system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the urinary system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the common pathological conditions of the urinary system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the urinary system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the urinary system.
<b>Understanding the Female Reproductive System</b>		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the female reproductive system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the role of the female reproductive system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to form medical terms related to the female reproductive system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the female reproductive system and of the newborn.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the female reproductive system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the female reproductive system.
<b>Understanding the Male Reproductive System</b>		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the male reproductive system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the role of the male reproductive system.
<input checked="" type="radio"/>	<input type="radio"/>	Assemble word elements to create medical terms related to the male reproductive system.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify common pathological conditions of the male reproductive system.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common laboratory tests and clinical procedures related to the male reproductive system, including related abbreviations.
<input checked="" type="radio"/>	<input type="radio"/>	Identify common therapeutic interventions related to the male reproductive system.
<b>Understanding the Lymphatic and Immune Systems</b>		
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Identify the major structures of the lymphatic and immune systems.
<input checked="" type="radio"/>	<input checked="" type="radio"/>	Describe the role of the lymphatic and immune systems.

8383	8384	Tasks/Competencies
+	○	Assemble word elements to form medical terms related to the lymphatic and immune systems.
+	+	Identify major pathological conditions of the lymphatic and immune systems.
+	○	Identify common laboratory tests and clinical procedures related to the lymphatic and immune systems, including related abbreviations.
+	○	Identify common therapeutic interventions related to the lymphatic and immune systems.
<b>Understanding the Gastrointestinal System</b>		
+	+	Identify the major structures of the gastrointestinal system.
+	+	Describe the role of the gastrointestinal system.
+	○	Assemble word elements to form medical terms related to the gastrointestinal system.
+	+	Identify common pathological conditions of the gastrointestinal system.
+	○	Identify common laboratory tests and clinical procedures related to the gastrointestinal system, including related abbreviations.
+	○	Identify common therapeutic interventions related to the gastrointestinal system.
<b>Understanding the Endocrine System</b>		
+	+	Identify the major structures of the endocrine system.
+	+	Describe the role of the endocrine system.
+	○	Assemble word elements to form medical terms related to the endocrine system.
+	+	Identify common pathological conditions of the endocrine system.
+	○	Identify common laboratory tests and clinical procedures related to the endocrine system, including related abbreviations.
+	○	Identify common therapeutic interventions related to the endocrine system.
<b>Understanding the Sensory System</b>		
+	+	Identify the major structures of the sensory system.
+	+	Describe the role of the sensory system.
+	○	Assemble word elements to form medical terms related to the sensory system.
+	+	Identify common pathological conditions of the sensory system.
+	○	Identify common laboratory tests and clinical procedures related to the sensory system, including related abbreviations.
+	○	Identify common therapeutic interventions related to the sensory system.
<b>Understanding Mental Health</b>		
+	+	Explain how mental health disorders differ from disorders related to other body systems.
+	○	Assemble word elements to form medical terms related to mental health.
+	+	Identify common mental health disorders.
+	○	Identify common diagnostic procedures related to mental health.
+	○	Identify common therapeutic interventions related to mental health.
+	+	Identify signs of elder, domestic, and child abuse.
<b>Understanding Terms Used in Healthcare Provision</b>		
+	+	Identify common medical terms used to communicate with other health professionals.
+	+	Describe terms related to healthcare delivery.

8383	8384	Tasks/Competencies
+	○	Assemble word elements to form terms related to selected health careers and healthcare providers.
Understanding Health Informatics		
+	+	Examine the role of technology in the healthcare field.
+	○	Describe techniques for confidential communication of health/medical information within legal/regulatory guidelines.
+	○	Demonstrate the assessment of abstracted information from medical records and other documents, applying knowledge of medical terminology.
Understanding Disciplines/Departments Involved in Healthcare Delivery		
+	+	Identify the disciplines of the laboratory.
+	+	Identify imaging techniques and nuclear-medicine tests.
Understanding the Healthcare Delivery System		
+	+	Describe the interdisciplinary services offered in health care.
+	+	Identify health careers.
+	+	Identify common medical specialties.
+	+	Describe types of healthcare settings.
+	+	Describe patient care services.

Legend: + Essential ○ Non-essential ⊖ Omitted

## Curriculum Framework

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### Understanding Medical Terminology

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#### Task Number 39

#### Explain how medical terms are developed.

##### Definition

Explanation should include

- the division of medical terms into components (i.e., roots or combining forms, prefixes, and suffixes)
- the use of connectors or combining vowels
- the process of pluralizing.

## **Process/Skill Questions**

- How would you describe the role of medical terminology in everyday life?
- What is a root?
- What is a prefix?
- What is a suffix?
- How does knowledge of medical roots, prefixes, and suffixes help you determine the meanings of unfamiliar words?
- Why is it always prudent to check the meaning of an unfamiliar word in a medical dictionary?
- What are the rules for pluralizing?

## **Task Number 40**

### **Define common medical word roots.**

#### **Definition**

Definitions should include the meaning of each root.

#### **Process/Skill Questions**

- Why is knowledge of word roots important?
- What distinguishes a word root from a prefix or a suffix?
- How might one determine the word root in a medical term?

## **Task Number 41**

### **Define common medical prefixes.**

#### **Definition**

Definitions should include the meaning of each prefix.

#### **Process/Skill Questions**

- Why is knowledge of prefixes important?
- What distinguishes a prefix from a word root or a suffix?
- How can you determine the prefix in a medical term?
- To what does the prefix usually refer in a medical term?

## **Task Number 42**



## **Define common medical suffixes.**

### **Definition**

Definitions should include the meaning of each suffix.

### **Process/Skill Questions**

- Why is knowledge of suffixes important?
- What distinguishes a suffix from a word root or a prefix?
- How can you determine the suffix in a medical term?
- To what does the suffix usually refer in a medical term?

## **Task Number 43**

### **Demonstrate pronunciation of medical terms.**

#### **Definition**

Demonstration should include

- use of a medical dictionary to interpret pronunciation marks
- speaking the terms clearly and with proper inflection.

#### **Process/Skill Questions**

- Why is correct pronunciation of all words important? Why is it especially important to pronounce medical terms correctly?
- What aids to pronunciation exist?
- How can you access pronunciation aids?

## **Task Number 44**

### **Apply the components of medical terminology (i.e., prefixes, word roots, suffixes).**

#### **Definition**

Application should include

- defining a medical term in the proper order (i.e., suffix, prefix, root)
- spelling components correctly
- using medical terms in sentences, both oral and written

- distinguishing among potentially confusing terms that look or sound alike.

### **Process/Skill Questions**

- Why is it important to define a medical term in the proper order of components?
- How could a word change if the components were defined in the wrong order?
- Why is correct spelling of medical terms essential?
- What are effective methods for improving your spelling abilities, particularly with regard to medical terminology?
- How might one describe different ways of locating a term in a medical dictionary or in other sources?
- What is the significance of all-capital letters in the pronunciation of medical terms?
- What outcomes could miscommunication of a medical procedure (colonoscopy vs. colectomy) cause?

## **Understanding Medical Abbreviations**

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### **Task Number 45**

#### **Explain medical abbreviations related to body systems.**

##### **Definition**

Explanation should include

- identification and use of common abbreviations related to body systems
- common errors made when using abbreviations related to body systems
- examples of the same abbreviation being used for different terms.

##### **Process/Skill Questions**

- How might one find abbreviations related to body systems?
- Why is caution important when using abbreviations related to body systems?
- What common errors are made when using abbreviations related to body systems?
- Are all medical abbreviations spelled with all-capital letters?

### **Task Number 46**

## **Identify medical abbreviations related to pathological conditions.**

### **Definition**

Identification should include

- common abbreviations related to pathological conditions
- common errors made when using abbreviations related to pathological conditions.

### **Process/Skill Questions**

- How can you find abbreviations related to pathological conditions?
- Why is caution important when using abbreviations related to pathological conditions?
- What common errors are made when using abbreviations related to pathological conditions?

## **Task Number 47**

## **Identify medical abbreviations related to diagnostic procedures.**

### **Definition**

Identification should include

- common abbreviations related to diagnostic procedures
- common errors made when using abbreviations related to diagnostic procedures.

### **Process/Skill Questions**

- How might one find abbreviations related to diagnostic procedures?
- Why is caution important when using abbreviations related to diagnostic procedures?
- What common errors are made when using abbreviations related to diagnostic procedures?

## **Task Number 48**

## **Explain medical abbreviations related to documentation.**

### **Definition**

Explanation should include

- identification of common abbreviations related to documentation
- common errors made when using abbreviations related to documentation.

### **Process/Skill Questions**

- How can you find abbreviations related to documentation?
- Why is caution important when using abbreviations related to documentation?
- What common errors are made when using abbreviations related to documentation?
- Why is the patient chart regarded as a legal document? What implications does this have?

## **Task Number 49**

### **Identify medical abbreviations related to pharmacology.**

#### **Definition**

Identification should include

- common abbreviations related to pharmacology
- common errors made when using abbreviations related to pharmacology.

### **Process/Skill Questions**

- How might one find abbreviations related to pharmacology?
- Why is caution important when using abbreviations related to pharmacology?
- What common errors are made when using abbreviations related to pharmacology?

## **Task Number 50**

### **Identify abbreviations related to healthcare regulations and regulatory systems.**

#### **Definition**

Identification should include

- common abbreviations related to healthcare regulations and regulatory systems
- the functions of regulatory systems.

### **Process/Skill Questions**

- Where can you find abbreviations related to healthcare regulations and regulatory systems?
- Why is caution important when using abbreviations related to healthcare regulations and regulatory systems? What are the consequences of using improper abbreviation?
- What common errors are made when using abbreviations related to healthcare regulations and regulatory systems?
- What is the purpose of various regulatory systems, such as HIPAA, HCQIA, and CHIP?

# Understanding Body Structure and Organization

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## Task Number 51

**Explain anatomical reference systems used to organize the body structure.**

### Definition

Explanation should include

- body planes
- body directions
- body cavities
- structural units
- anatomical position
- common external anatomy terms.

### Process/Skill Questions

- Why is it important to describe the location of body parts?
- How is anatomical position defined, and what is its purpose?

## Task Number 52

**Describe the organization of the human body.**

### Definition

Description should include

- cells
- tissues
- organs
- systems.

### **Process/Skill Questions**

- How is the human body organized? How might one describe the hierarchy of the various body components?
- Why is understanding the organization of the human body important?

## **Task Number 53**

**Identify body cavities and the organs located within these cavities.**

### **Definition**

Identification should include

- locating and naming the body cavities
- listing the organs contained within each cavity.

### **Process/Skill Questions**

- What is the importance of body cavities?
- What are the four quadrants of the abdominal cavity?
- How are the locations of body cavities and organs identified?
- How are body cavities separated?

## **Task Number 54**

**Identify body planes.**

### **Definition**

Identification should include

- defining *body planes* as imaginary vertical and horizontal lines used to divide the body into sections for descriptive purposes
- locating, drawing, and naming body planes.

## Process/Skill Questions

- What are the two main planes if the body is standing in anatomical position?
- What are the planes located within each larger plane?

## Task Number 55

### Identify body directions.

#### Definition

Identification should include

- describing how body directions indicate the relative location of sections of the body or of an organ, through the use of pairs of contrasting terms
- describing, drawing, and naming body directions.

## Process/Skill Questions

- Which pairs of terms describe opposite directions?
- How could a misunderstanding of anatomic directional terminology impact patient care?

## Task Number 56

### Identify body regions.

#### Definition

Identification should include

- defining *body regions* as a descriptive system that divides the body into parts
- locating and naming body regions.

## Process/Skill Questions

- What is the importance of the various body regions?
- What are the nine regions in the thorax and abdomen?
- What organs are located in each region?

## Task Number 57

### Define *anatomy* and *physiology*.

## **Definition**

Definition should include

- anatomy as the study of the structures of the body
- physiology as the study of the functions of the structures of the body.

## **Process/Skill Questions**

- Why is it important to understand how anatomy relates to the study of medical terminology?
- Why is it important to understand how physiology relates to the study of medical terminology?

# **Understanding the Integumentary System**

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## **Task Number 58**

**Identify the major structures of the integumentary system.**

### **Definition**

Identification should include the names and locations of the major structures and accessory structures.

### **Process/Skill Questions**

- What are the layers of the skin?
- How are the layers of the skin similar?
- How are the layers of the skin different?
- What are the accessory structures within the integumentary system?

## **Task Number 59**

**Describe the role of the integumentary system.**

### **Definition**

Description should include



- the basic functions of the system
- the basic function of each tissue or structure within the system
- the relationship of the system and its structures to other body systems.

### **Process/Skill Questions**

- What is the role of the skin and its accessory structures in controlling body temperature?
- How is the protective role of nails important in everyday life?
- How is the protective role of skin important in everyday life?
- How does the integumentary system interrelate with other body systems?

## **Task Number 60**

### **Assemble word elements to form medical terms related to the integumentary system.**

#### **Definition**

Assembling word elements should include

- defining root words, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the integumentary system in professional or lay communication?

## **Task Number 61**

### **Identify common pathological conditions of the integumentary system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions

- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- Which pathological conditions of the integumentary system are considered genetic?
- Which pathological conditions of the integumentary system are communicable?
- Which pathological conditions are related to environment or age?
- What are effective means of preventing some common pathological conditions of the integumentary system?

## **Task Number 62**

### **Identify common laboratory tests and clinical procedures related to the integumentary system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the integumentary system?
- What are the potential side effects of commonly used diagnostic procedures related to the integumentary system?
- Which healthcare professionals may be involved in diagnostic procedures related to the integumentary system?
- What are some common abbreviations for the structures, conditions, tests, and/or procedures related to the integumentary system?

## **Task Number 63**

### **Identify common therapeutic interventions related to the integumentary system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the integumentary system?
- What are the goals of therapeutic interventions related to the integumentary system?
- What are the potential side effects of commonly used therapeutic interventions related to the integumentary system?
- Which healthcare professionals may be involved in therapeutic interventions related to the integumentary system?

# **Understanding the Musculoskeletal System**

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## **Task Number 64**

### **Identify the major structures of the musculoskeletal system.**

#### **Definition**

Identification should include the names, locations, and components of the types of bone and the types of muscle. Identification should include the names and locations of the bones and muscles to include the microscopic structures of each.

#### **Process/Skill Questions**

- What are two divisions of the skeleton, and which bones are included in each division?
- What are the two types of bone?
- What are the names and locations of the major bones of the body?
- How can the structure of bone be explained?
- How do bone formation and growth occur?
- How would you describe bone markings?
- How are bones attached to other bones?
- What are the names of the two divisions of the muscular system? Which muscles are included in each division?
- What are the three types of muscle?
- How is a skeletal muscle organized?
- How are muscles attached to bones?

## **Task Number 65**

### **Describe the function of the musculoskeletal system.**

#### **Definition**

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### **Process/Skill Questions**

- How do muscles and bones work together to enable movement?
- How do bones provide protection to vital organs?
- How do muscles provide stability to the joints?
- What is the role of bone marrow in blood-cell formation?
- What are the functions of smooth and cardiac muscle, as compared to skeletal muscle?
- How does the musculoskeletal system interrelate with other body systems?

## **Task Number 66**

### **Assemble word elements to form medical terms related to the musculoskeletal system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- relating term to the pathology, diagnosis, and treatment of musculoskeletal diseases and conditions.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the musculoskeletal system in professional or lay communication?

## **Task Number 67**

### **Identify common pathological conditions of the musculoskeletal system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

#### **Process/Skill Questions**

- Which pathological conditions of the musculoskeletal system are considered genetic?
- Which pathological conditions of the musculoskeletal system are related to sports injuries?
- Which pathological conditions of the musculoskeletal system are related to trauma?
- What are effective means of preventing some common pathological conditions of the musculoskeletal system?

## **Task Number 68**

### **Identify common laboratory tests and clinical procedures related to the musculoskeletal system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, clinical)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

#### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the musculoskeletal system?
- What are the potential side effects of commonly used diagnostic procedures related to the musculoskeletal system?

- What healthcare professionals may be involved in diagnostic procedures related to the musculoskeletal system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the musculoskeletal system?

## **Task Number 69**

### **Identify common therapeutic interventions related to the musculoskeletal system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the musculoskeletal system?
- What are the goals of the therapeutic interventions related to the musculoskeletal system?
- What are the potential side effects of commonly used therapeutic interventions related to the musculoskeletal system?
- What healthcare professionals may be involved in therapeutic interventions related to the musculoskeletal system?
- What are the common abbreviations used for the therapeutic interventions of the musculoskeletal system?

## **Understanding the Cardiovascular System**

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## **Task Number 70**

### **Identify the major structures of the cardiovascular system.**

#### **Definition**

Identification should include the names and locations of the major structures.

#### **Process/Skill Questions**

- What are the names and locations of the major pulse sites in the body?
- What is the pathway of blood through the heart?
- What is the difference between an artery and a vein?
- What is blood pressure?
- How would you describe the mechanism of the cardiac pump?

## **Task Number 71**

### **Describe the functions of the cardiovascular system.**

#### **Definition**

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### **Process/Skill Questions**

- How do the heart and blood vessels work together to provide nutrients and oxygen to the cells?
- How do the heart and blood vessels work together to remove metabolic wastes and carbon dioxide from the cells?
- How does the cardiovascular system interrelate with other body systems?

## **Task Number 72**

### **Assemble word elements to form medical terms related to the cardiovascular system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- relating terms to the pathology, diagnosis, and treatment of neurological diseases and conditions.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms related to the cardiovascular system in professional or lay communication?

## **Task Number 73**

### **Identify common pathological conditions of the cardiovascular system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

#### **Process/Skill Questions**

- Which pathological conditions of the cardiovascular system are considered genetic?
- Which pathological conditions of the cardiovascular system are related to lifestyle?
- What are effective means of preventing some common pathological conditions of the cardiovascular system?
- What role does infection play in cardiovascular disease?

## **Task Number 74**

### **Identify common laboratory tests and clinical procedures related to the cardiovascular system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

#### **Process/Skill Questions**



- What are the types of diagnostic procedures related to the cardiovascular system?
- What are the potential side effects of commonly used diagnostic procedures related to the cardiovascular system?
- What healthcare professionals may be involved in diagnostic procedures related to the cardiovascular system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the cardiovascular system?

## **Task Number 75**

### **Identify common therapeutic interventions related to the cardiovascular system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the cardiovascular system?
- What are the goals of therapeutic interventions related to the cardiovascular system?
- What are the potential side effects of commonly used therapeutic interventions related to the cardiovascular system?
- What healthcare professionals may be involved in therapeutic interventions related to the cardiovascular system?
- What are the common abbreviations for therapeutic interventions related to the cardiovascular system?

## **Understanding the Respiratory System**

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### **Task Number 76**

#### **Identify the major structures of the respiratory system.**

#### **Definition**

Identification should include the names and locations of the major structures.

### **Process/Skill Questions**

- What are the roles of oxygen and carbon dioxide in the body?
- How is gas exchange accomplished?
- How would you describe the passage of air during respiration?
- What is the relationship between alveoli and capillary structures?
- What are the structures of the respiratory system involved in speech production?

## **Task Number 77**

### **Describe the function of the respiratory system.**

#### **Definition**

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

### **Process/Skill Questions**

- How do the lungs function to provide gas exchange (i.e., external respiration)?
- What is the role of the respiratory system in internal respiration?
- What is the role of the respiratory system in homeostasis and acid/base balance?
- How does the respiratory system work with the cardiovascular system to provide oxygen to the body's tissues?
- How does the respiratory system interrelate with other body systems?

## **Task Number 78**

### **Assemble word elements to form medical terms related to the respiratory system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms

- defining terms
- relating terms to the pathology, diagnosis, and treatment of respiratory diseases and conditions.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the respiratory system in professional or lay communication?

## **Task Number 79**

### **Identify common pathological conditions of the respiratory system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- Which pathological conditions of the respiratory system are considered genetic?
- Which pathological conditions of the respiratory system are communicable?
- What are the common childhood pathological conditions of the respiratory system?
- Which pathological conditions of the respiratory system are related to environment or lifestyle?
- What are effective means of preventing some common pathological conditions of the respiratory system?

## **Task Number 80**

### **Identify common laboratory tests and clinical procedures related to the respiratory system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the respiratory system?
- What are the potential side effects of commonly used diagnostic procedures related to the respiratory system?
- What healthcare professionals may be involved in diagnostic procedures related to the respiratory system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the respiratory system?

## **Task Number 81**

### **Identify common therapeutic interventions related to the respiratory system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the respiratory system?
- What are the goals of therapeutic interventions related to the respiratory system?
- What are the potential side effects of commonly used therapeutic interventions related to the respiratory system?
- What healthcare professionals may be involved in therapeutic interventions related to the respiratory system?

## **Understanding the Nervous System**

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## **Task Number 82**

### **Identify the major structures of the nervous system.**

#### **Definition**

Identification should include the names and locations of the major structures.

#### **Process/Skill Questions**

- What are the two major divisions of the nervous system?
- How would you describe the structure of a neuron?
- What is a synapse?
- What is sensory nerve transmission?
- What is motor nerve transmission?

## **Task Number 83**

### **Describe the function of the nervous system.**

#### **Definition**

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### **Process/Skill Questions**

- What is the role of the central nervous system (CNS) compared to that of the peripheral nervous system (PNS)?
- How does the autonomic nervous system compare to the somatic nervous system?
- How does the nervous system interrelate with other body systems?

## **Task Number 84**

### **Assemble word elements to form medical terms related to the nervous system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- relating terms to the pathology, diagnosis, and treatment of neurological diseases and conditions.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the nervous system in professional or lay communication?

## **Task Number 85**

### **Identify common pathological conditions of the nervous system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- Which pathological conditions of the nervous system are considered genetic?
- Which pathological conditions of the nervous system are communicable?
- Which pathological conditions of the nervous system occur as a result of trauma?
- Which pathological conditions of the nervous system are considered chronic illnesses?
- What are effective means of preventing some common pathological conditions of the nervous system?

## **Task Number 86**

## **Identify common laboratory tests and clinical procedures related to the nervous system, including related abbreviations.**

### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the nervous system?
- What are the potential side effects of commonly used diagnostic procedures related to the nervous system?
- What healthcare professionals may be involved in diagnostic procedures related to the nervous system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the nervous system?

## **Task Number 87**

## **Identify common therapeutic interventions related to the nervous system.**

### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the nervous system?
- What are the goals of therapeutic interventions related to the nervous system?
- What are the potential side effects of commonly used therapeutic interventions related to the nervous system?
- What healthcare professionals may be involved in therapeutic interventions related to the nervous system?

- What are some common abbreviations used for therapeutic interventions in the nervous system?

# Understanding the Urinary System

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## Task Number 88

### Identify the major structures of the urinary system.

#### Definition

Identification should include the names and locations of the major structures.

#### Process/Skill Questions

- How would you describe the glomerulus? The nephron? The renal pelvis, cortex, and medulla?
- What are the normal characteristics of urine?

## Task Number 89

### Describe the role of the urinary system.

#### Definition

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### Process/Skill Questions

- What is the function of each structure of the urinary system? The urinary system as a whole?
- How do the structures of the urinary system interrelate?
- What is the role of the urinary system in homeostasis?
- How does the urinary system interrelate with other body systems?
- How does the urinary system help control homeostasis?



## **Task Number 90**

### **Assemble word elements to form medical terms related to the urinary system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the urinary system in professional or lay communication?

## **Task Number 91**

### **Identify the common pathological conditions of the urinary system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

#### **Process/Skill Questions**

- Which pathological conditions of the urinary system are considered genetic?
- What are possible complications of a urinary tract infection?
- What are effective means of preventing some common pathological conditions of the urinary system?
- What are the similarities and differences between chronic and acute renal failure?
- What are common nongenetic pathological conditions of the urinary system?

## **Task Number 92**

### **Identify common laboratory tests and clinical procedures related to the urinary system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

#### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the urinary system?
- What are the potential side effects of commonly used diagnostic procedures related to the urinary system?
- What healthcare professionals may be involved in diagnostic procedures related to the urinary system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the urinary system?

## **Task Number 93**

### **Identify common therapeutic interventions related to the urinary system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the urinary system?
- What are the goals of therapeutic interventions related to the urinary system?

- What are the potential side effects of commonly used therapeutic interventions related to the urinary system?
- What healthcare professionals may be involved in therapeutic interventions related to the urinary system?

# Understanding the Female Reproductive System

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## Task Number 94

**Identify the major structures of the female reproductive system.**

### Definition

Identification should include the names and locations of the major structures.

### Process/Skill Questions

- What are the structures of the female reproductive system?
- Where in the body are these structures or organs located?

## Task Number 95

**Describe the role of the female reproductive system.**

### Definition

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

### Process/Skill Questions

- What role do various parts of the female reproductive system play in reproduction?
- How would you describe the role of the ova in the fertilization process?

- What is the role of the mammary glands?
- How would you explain the menstrual cycle?
- How do the reproductive organs and their hormones function in ovulation, menstruation, and pregnancy?
- What is the role of the pituitary gland during menstruation and pregnancy?
- What is oogenesis?
- What is the required pathway for sperm and the ova for fertilization, and for movement of the blastocyst to the uterus?
- How does the female reproductive system interrelate with other body systems?

## **Task Number 96**

### **Assemble word elements to form medical terms related to the female reproductive system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the female reproductive system in professional or lay communication?

## **Task Number 97**

### **Identify common pathological conditions of the female reproductive system and of the newborn.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology

- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the female reproductive system in professional or lay communication?
- What are common pathological conditions of the uterus, ovaries, fallopian tubes, and breasts?
- What are the signs, symptoms, or findings associated with each common pathological condition of the female reproductive system?
- What are common pathological conditions of pregnancy?
- Which pathological conditions of the female reproductive system are communicable?
- What are effective means of preventing some common pathological conditions of the female reproductive system?
- What are the common conditions or symptoms that can affect the newborn?
- What are the stages of pregnancy and how does the female reproductive system change in response to these stages?

## **Task Number 98**

### **Identify common laboratory tests and clinical procedures related to the female reproductive system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the female reproductive system?
- What are the potential side effects of commonly used diagnostic procedures related to the female reproductive system?
- What healthcare professionals may be involved in diagnostic procedures related to the female reproductive system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the female reproductive system?

## **Task Number 99**

### **Identify common therapeutic interventions related to the female reproductive system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the female reproductive system?
- What are the goals of therapeutic interventions related to the female reproductive system?
- What are the potential side effects of commonly used therapeutic interventions related to the female reproductive system?
- What healthcare professionals may be involved in therapeutic interventions related to the female reproductive system?

## **Understanding the Male Reproductive System**

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## **Task Number 100**

### **Identify the major structures of the male reproductive system.**

#### **Definition**

Identification should include

- the names and locations of the major structures of the male reproductive system
- the definition, spelling, and pronunciation of the primary terms related to the male reproductive system.

#### **Process/Skill Questions**

- What are the structures of the male reproductive system?
- Where in the body are these structures or organs located?

## **Task Number 101**

### **Describe the role of the male reproductive system.**

#### **Definition**

Description should include

- the basic functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### **Process/Skill Questions**

- What roles do various parts of the male reproductive system play in reproduction?
- What is the role of the hormone testosterone?
- How would you describe the role of the sperm in the fertilization process?
- What is spermatogenesis?
- What is the composition of semen?
- What is erectile dysfunction?
- Why should the prostate gland be checked frequently?
- How does the male reproductive system interrelate with other body systems?
- What are the roles of the scrotum, the testicles, and the prostate gland?
- What is the name and function of the substance secreted by the vas deferens?

## **Task Number 102**

### **Assemble word elements to create medical terms related to the male reproductive system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

## Process/Skill Questions

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the male reproductive system in professional or lay communication?

## Task Number 103

### **Identify common pathological conditions of the male reproductive system.**

#### Definition

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition
- listing the medical specialties and medical professionals according to the common pathological conditions of the male reproductive system.

## Process/Skill Questions

- What are common pathological conditions of the testes, prostate gland, and penis?
- What are the signs, symptoms, or findings associated with each of the common pathological conditions of the male reproductive system?
- What are the most common sexually transmitted diseases?
- Which pathological conditions of the male reproductive system are considered genetic?
- Which pathological conditions of the male reproductive system are communicable?
- What are effective means of preventing some common pathological conditions of the male reproductive system?
- Which cancer is the most common in the male reproductive system?
- Which medical professional is trained to treat the disorders and diseases of the male reproductive system?

## Task Number 104

### **Identify common laboratory tests and clinical procedures related to the male reproductive system, including related abbreviations.**



## **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

## **Process/Skill Questions**

- What are the types of diagnostic procedures related to the male reproductive system?
- What are the potential side effects of commonly used diagnostic procedures related to the male reproductive system?
- What healthcare professionals may be involved in diagnostic procedures related to the male reproductive system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the male reproductive system?
- What is the importance of testicular self-examination in males?

## **Task Number 105**

### **Identify common therapeutic interventions related to the male reproductive system.**

## **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

## **Process/Skill Questions**

- What are the types of therapeutic interventions related to the male reproductive system?
- What are the types of male sterilization procedures available?
- What are the goals of the most common therapeutic interventions related to the male reproductive system?
- What are the potential side effects of commonly used therapeutic interventions related to the male reproductive system?
- What healthcare professionals may be involved in therapeutic interventions related to the male reproductive system?

# Understanding the Lymphatic and Immune Systems

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## Task Number 106

**Identify the major structures of the lymphatic and immune systems.**

### Definition

Identification should include the names and locations of the major structures of the lymphatic and immune systems.

### Process/Skill Questions

- What are the structures of the lymphatic and immune systems?
- Where in the body are these structures or organs located?

## Task Number 107

**Describe the role of the lymphatic and immune systems.**

### Definition

Description should include

- the basic functions of each system
- the basic functions of each organ or structure within each system
- the relationship of the systems and structures to other body systems.

### Process/Skill Questions

- What role does the lymphatic system play in the immune system?
- What is the relationship between the circulation of blood and lymph?
- What are the roles of the spleen and thymus gland?
- What are natural immunity and adaptive/acquired immunity?
- What are the differences between humoral and cell-mediated immunity?
- What is a vaccination? Why are vaccinations important?

- What are antibodies?
- What are common responses of the body to allergens?
- How do the lymphatic and immune systems interrelate with other body systems?

## **Task Number 108**

### **Assemble word elements to form medical terms related to the lymphatic and immune systems.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe each system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the lymphatic and immune systems in professional or lay communication?

## **Task Number 109**

### **Identify major pathological conditions of the lymphatic and immune systems.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

#### **Process/Skill Questions**

- What are the signs, symptoms, or findings associated with each common pathological condition of the lymphatic or immune systems?

- What opportunistic infections are associated with AIDS?
- How is an allergic reaction different from an anaphylactic reaction?
- What malignancies are associated with the immune and lymphatic systems?
- Which pathological conditions of the lymphatic or immune system are communicable?
- How can common pathological conditions of the lymphatic or immune system be prevented?

## **Task Number 110**

### **Identify common laboratory tests and clinical procedures related to the lymphatic and immune systems, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, clinical)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

#### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the lymphatic and immune systems?
- What are the potential side effects of commonly used diagnostic procedures related to the lymphatic and immune systems?
- What healthcare professionals may be involved in diagnostic procedures related to the lymphatic and immune systems?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the lymphatic and immune systems?

## **Task Number 111**

### **Identify common therapeutic interventions related to the lymphatic and immune systems.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions

- describing each intervention, using medical terminology.

### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the lymphatic and immune systems?
- What are the goals of therapeutic interventions related to the lymphatic and immune systems?
- What are the potential side effects of commonly used therapeutic interventions related to the lymphatic and immune systems?
- What healthcare professionals may be involved in therapeutic interventions related to the lymphatic and immune systems?

## **Understanding the Gastrointestinal System**

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### **Task Number 112**

#### **Identify the major structures of the gastrointestinal system.**

##### **Definition**

Identification should include the names and locations of the major structures.

##### **Process/Skill Questions**

- What are the structures of the gastrointestinal system?
- In which quadrant of the body are these structures or organs located?

### **Task Number 113**

#### **Describe the role of the gastrointestinal system.**

##### **Definition**

Description should include

- the vital functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems

## **Process/Skill Questions**

- What roles do the teeth, tongue, esophagus, stomach, small intestines, and large intestines play in the digestive process?
- What are the roles of the salivary glands, liver, gallbladder, and pancreas in the digestive process?
- What is the pathway of food through the gastrointestinal tract?
- What medical terms are used to describe the passage of food in the digestive process?
- How would you describe the process of ingestion, digestion, absorption, and elimination? What is the purpose of each?
- How does the gastrointestinal system interrelate with other body systems?

## **Task Number 114**

### **Assemble word elements to form medical terms related to the gastrointestinal system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

## **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the gastrointestinal system in professional or lay communication?

## **Task Number 115**

### **Identify common pathological conditions of the gastrointestinal system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- What are common pathological conditions of the oral cavity and teeth, upper gastrointestinal tract, and lower gastrointestinal tract?
- What are common pathological conditions of the liver, gallbladder, and pancreas?
- What are the signs, symptoms, or findings associated with each common pathological condition of the gastrointestinal system?
- Which pathological conditions of the gastrointestinal system are considered genetic?
- What are effective means of preventing some common pathological conditions of the gastrointestinal system?

## **Task Number 116**

### **Identify common laboratory tests and clinical procedures related to the gastrointestinal system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the gastrointestinal system?
- What are the potential side effects of commonly used diagnostic procedures related to the gastrointestinal system?
- What healthcare professionals may be involved in diagnostic procedures related to the gastrointestinal system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the gastrointestinal system?

## **Task Number 117**

## **Identify common therapeutic interventions related to the gastrointestinal system.**

### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the gastrointestinal system?
- What are the goals of therapeutic interventions related to the gastrointestinal system?
- What are the potential side effects of commonly used therapeutic interventions related to the gastrointestinal system?
- What healthcare professionals may be involved in therapeutic interventions related to the gastrointestinal system?

## **Understanding the Endocrine System**

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### **Task Number 118**

#### **Identify the major structures of the endocrine system.**

##### **Definition**

Identification should include the names and locations of the major structures.

##### **Process/Skill Questions**

- What are the glands or tissues of the endocrine system?
- Where in the body are these glands or tissues located?

### **Task Number 119**

#### **Describe the role of the endocrine system.**

##### **Definition**



Description should include

- the vital functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

### **Process/Skill Questions**

- What roles do the thyroid gland, parathyroid gland, adrenal gland, pituitary gland, pancreas, ovaries, and testes play in the endocrine system?
- What hormones do endocrine glands or tissues produce, and what are the actions for the hormones?
- What are the endocrine tissues, their secretions, and their actions?
- What is the master gland, and why is it called that? What hormones are produced by the gland, and what are the hormones' actions?
- What structures of the endocrine system are also part of the reproductive system?
- What structure of the endocrine system is also a part of the gastrointestinal system?
- How does the endocrine system interrelate with other body systems?

## **Task Number 120**

### **Assemble word elements to form medical terms related to the endocrine system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the endocrine system in professional or lay communication?

## **Task Number 121**

## **Identify common pathological conditions of the endocrine system.**

### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

### **Process/Skill Questions**

- What are common pathological conditions of the thyroid gland, parathyroid glands, adrenal glands, pancreas, and pituitary gland resulting from excessive or deficient secretions of the gland?
- What are the signs, symptoms, or findings associated with each common pathological condition of the endocrine system?
- What is the difference between type 1 and type 2 diabetes?
- What are effective means of preventing some common pathological conditions of the endocrine system?

## **Task Number 122**

## **Identify common laboratory tests and clinical procedures related to the endocrine system, including related abbreviations.**

### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the endocrine system?
- What are the potential side effects of commonly used diagnostic procedures related to the endocrine system?

- What healthcare professionals may be involved in diagnostic procedures related to the endocrine system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the endocrine system?

## **Task Number 123**

### **Identify common therapeutic interventions related to the endocrine system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the endocrine system?
- What are the goals of therapeutic interventions related to the endocrine system?
- What are the potential side effects of commonly used therapeutic interventions related to the endocrine system?
- What healthcare professionals may be involved in therapeutic interventions related to the endocrine system?

## **Understanding the Sensory System**

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## **Task Number 124**

### **Identify the major structures of the sensory system.**

#### **Definition**

Identification should include the names and locations of the major parts of the eye and ear.

#### **Process/Skill Questions**

- What are the parts of the eye and ear?

- Where are these parts located?

## **Task Number 125**

### **Describe the role of the sensory system.**

#### **Definition**

Description should include

- the vital functions of the system
- the basic functions of each organ or structure within the system
- the relationship of the system and its structures to other body systems.

#### **Process/Skill Questions**

- How are sound vibrations translated into hearing (i.e., from the external ear to the cerebral cortex of the brain)?
- How are light rays translated into visual images (i.e., from the cornea of the eye to the cerebral cortex of the brain)?
- How does the sensory system interrelate with other body systems?

## **Task Number 126**

### **Assemble word elements to form medical terms related to the sensory system.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes used to describe the system
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

#### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to the sensory system in a professional setting?

- How might you use medical terms relating to the sensory system during lay communication?

## **Task Number 127**

### **Identify common pathological conditions of the sensory system.**

#### **Definition**

Identification should include

- listing the most common pathological conditions
- describing each condition, using medical terminology
- recognizing common signs, symptoms, or findings associated with each condition.

#### **Process/Skill Questions**

- What are common pathological conditions of the eye and ear?
- What are the signs, symptoms, or findings associated with each common pathological condition of the eye and ear?
- Which pathological conditions of the eye and ear are considered genetic?
- Which pathological conditions of the eye and ear are communicable?
- What are effective means of preventing some common pathological conditions of the eye and ear?

## **Task Number 128**

### **Identify common laboratory tests and clinical procedures related to the sensory system, including related abbreviations.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, radiological, clinical, diagnostic imaging)
- describing each procedure, using medical terminology
- recognizing common abbreviations.

#### **Process/Skill Questions**

- What are the types of diagnostic procedures related to the sensory system?
- What are the potential side effects of commonly used diagnostic procedures related to the sensory system?
- What healthcare professionals may be involved in diagnostic procedures related to the sensory system?
- What are the common abbreviations for the structures, conditions, tests, and/or procedures related to the sensory system?

## **Task Number 129**

### **Identify common therapeutic interventions related to the sensory system.**

#### **Definition**

Identification should include

- listing common medical, surgical, and pharmacological interventions
- describing each intervention, using medical terminology.

#### **Process/Skill Questions**

- What are the types of therapeutic interventions related to the sensory system?
- What are the goals of therapeutic interventions related to the sensory system?
- What are the potential side effects of commonly used therapeutic interventions related to the sensory system?
- What healthcare professionals may be involved in therapeutic interventions related to the sensory system?

## **Understanding Mental Health**

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### **Task Number 130**

#### **Explain how mental health disorders differ from disorders related to other body systems.**

#### **Definition**

Explanation should include the following differences:

- Mental health disorders are often diagnosed based on behavioral manifestations, as opposed to physical findings.
- Historically, mental health disorders were attributed to demonic possessions or other spiritual weaknesses, leading to much stigmatization.
- Much of the physiology related to mental health disorders is still not readily understood, and many disorders have distinct environmental stimuli (e.g., post-traumatic stress disorder).
- Symptoms of mental disorders may vary in adults, adolescents, and younger children.

### **Process/Skill Questions**

- What stigmas are associated with mental health disorders?
- What types of careers are available in the field of mental health?
- What is the difference between a psychiatrist and a psychologist?

## **Task Number 131**

### **Assemble word elements to form medical terms related to mental health.**

#### **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes related to mental health
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

### **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How might you use medical terms relating to mental health in a professional setting?
- How might you use medical terms relating to mental health during lay communication?

## **Task Number 132**

### **Identify common mental health disorders.**

#### **Definition**

Identification should include

- listing the most common disorders (i.e., anxiety, dissociative, eating, mood, psychotic, developmental, personality, sexual and gender, cognitive, somatoform, and substance-related)
- listing common defense mechanisms and their purposes
- describing each disorder, using medical terminology.

### **Process/Skill Questions**

- How does an anxiety disorder differ from a depressive disorder? How is it similar?
- What is an example of a defense mechanism? In what situation might this defense mechanism be used?
- How might overuse of a defense mechanism contribute to the development of a mental illness?

## **Task Number 133**

### **Identify common diagnostic procedures related to mental health.**

#### **Definition**

Identification should include

- listing common testing procedures used for diagnosis (e.g., laboratory, clinical) and to rule out underlying physical disorders (e.g., hypothyroidism)
- describing each procedure, using medical terminology
- using the most recently revised edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM).

### **Process/Skill Questions**

- What important steps are taken before diagnostic procedures related to mental health?
- What important steps are used during diagnostic procedures related to mental health?
- What important steps are taken after diagnostic procedures related to mental health?
- What healthcare professionals may be involved in diagnostic procedures related to mental health?

## **Task Number 134**

### **Identify common therapeutic interventions related to mental health.**



## **Definition**

Identification should include

- listing common psychotherapeutic (i.e., individual, group, and family therapies), pharmacological, and medical interventions
- defining each intervention, using medical terminology.

## **Process/Skill Questions**

- What important steps are taken before therapeutic interventions related to mental health?
- What important steps are used during therapeutic interventions related to mental health?
- What important steps are taken after therapeutic interventions related to mental health?
- What healthcare professionals may be involved in therapeutic interventions related to mental health?
- If someone is experiencing suicidal or homicidal thoughts, what steps should be taken to protect both the patient and the public?
- How do interventions for mentally ill individuals differ from those with physical illnesses? How are they similar?
- How might the presence of a mental illness complicate treatment for a physical ailment?
- What are the benefits and disadvantages for each type of psychotherapy (i.e., individual, group, and family)?

## **Task Number 135**

### **Identify signs of elder, domestic, and child abuse.**

#### **Definition**

Identification should include

- types of abuse (e.g., physical, sexual, financial, emotional/psychological) vs. neglect
- at-risk populations
- risk factors
- signs and symptoms
- laws pertaining to duty to report for medical personnel.

#### **Process/Skill Questions**

- How does abuse differ from neglect?
- How could any kind of abuse affect a person's long-term mental health?
- If abuse is suspected, what medical specialties have a duty to report? How is the concept of confidentiality addressed?
- If you were an emergency room worker, what signs and symptoms might you see in a child that would cause you to suspect abuse?

# Understanding Terms Used in Healthcare Provision

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## Task Number 136

**Identify common medical terms used to communicate with other health professionals.**

### Definition

Identification should include the ability to distinguish medical terms and word elements necessary for communication among health professionals regarding the following body systems:

- Integumentary
- Musculoskeletal
- Cardiovascular
- Respiratory
- Nervous
- Urinary
- Female reproductive
- Male reproductive
- Lymphatic and immune
- Gastrointestinal
- Endocrine
- Sensory

### Process/Skill Questions

- Why are accurate and specific communications between members of the healthcare team important?
- What are some terms that could be easily mistaken for others (e.g., nephron vs. neuron)?
- What is essential to word structure?
- What are the component parts?

## Task Number 137

**Describe terms related to healthcare delivery.**

## **Definition**

Description should include terms and word elements related to

- selected careers
- healthcare providers
- third-party payment systems
- information systems used in healthcare delivery.

## **Process/Skill Questions**

- How can you locate information about healthcare careers?
- What is the role of health maintenance organizations (HMOs) in healthcare delivery?
- How can one determine which jobs are in demand?

## **Task Number 138**

### **Assemble word elements to form terms related to selected health careers and healthcare providers.**

## **Definition**

Assembling word elements should include

- defining combining forms, suffixes, and prefixes related to healthcare careers and providers
- listing abbreviations for specific providers (e.g., MD, DO, PA, LPN, RN)
- pronouncing terms
- spelling terms
- defining terms
- applying terms in their proper context.

## **Process/Skill Questions**

- Why is correct spelling and pronunciation of medical terms important?
- Why is it essential to define medical terms according to dictionary standards?
- How can using medical terms in everyday speech be valuable?
- Why is it important to be able to state the definition of complex medical terms in less technical language (i.e., in layman's terms)?
- How would other health professionals perceive a person who does not use medical words correctly?
- Why is correct spelling important in medical records?
- What is the difference between a nurse practitioner and a physician assistant?

# Understanding Health Informatics

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## Task Number 139

### Examine the role of technology in the healthcare field.

#### Definition

Examination should include technology related to each body system, as well as

- how to document in the electronic medical record (EMR)
- a list of the components of the EMR
- how to use computers and other technological advances in the diagnosis and treatment of disorders
- how to maintain privacy in a technology-driven healthcare system.

#### Process/Skill Questions

- How would you describe the patient's experience when undergoing an MRI or CAT scan?
- What are the benefits of an electronic medical record? Are there any disadvantages?
- What are some recent medical advances? How might these advances be helpful in diagnosing or treating pathologies?
- How do insurance companies make use of the EMR?
- How do healthcare workers make use of the EMR?

## Task Number 140

### Describe techniques for confidential communication of health/medical information within legal/regulatory guidelines.

#### Definition

Description should include

- ways in which the Health Insurance Portability and Accountability Act (HIPAA) relates to the healthcare system
- how HIPAA compliance is implemented, reviewed, and regulated

- examples of reportable public health information (e.g., sexually transmitted diseases, flu cases, births, deaths)
- list of basic legal and ethical issues related to the healthcare profession
- list of techniques commonly used (e.g., consent forms, Patient Bill of Rights)
- examples of how to protect vulnerable populations.

### **Process/Skill Questions**

- Why is confidentiality so important in the field of health care? How can you uphold patient confidentiality?
- How would you describe the Patient Bill of Rights?
- What might be the consequences of violating HIPAA regulations?
- Why is it important that certain health information, even though it may be private, be communicated to public health organizations?
- What action would you take if you worked in a medical office and a patient's medical records were subpoenaed in a court case?
- What action should be taken if an infant or elderly person was being abused by a caretaker?

## **Task Number 141**

### **Demonstrate the assessment of abstracted information from medical records and other documents, applying knowledge of medical terminology.**

#### **Definition**

Demonstration should include

- assessing information for appropriateness, accuracy, and completeness
- assessing information for adherence to legal, ethical, and regulatory guidelines.

### **Process/Skill Questions**

- Why is it essential to have knowledge of medical terminology when abstracting information from medical records?
- What healthcare careers are involved with differentiating information within medical records?
- How might abstracting information from medical records affect reimbursements?
- Where would you find legal, ethical, and regulatory guidelines related to abstracting information from medical records?
- How do insurance companies make use of the EMR?
- How do healthcare workers make use of the EMR?

# Understanding Disciplines/Departments Involved in Healthcare Delivery

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## Task Number 142

**Identify the disciplines of the laboratory.**

### Definition

Identification should include

- anatomic pathology
- chemistry
- cytology and histology
- cytogenetics
- hematology
- microbiology
- molecular diagnostics
- transfusion services.

### Process/Skill Questions

- How would you describe each of the disciplines of the laboratory?
- How do the disciplines of the laboratory work together?
- How do laboratory services extract information from the patient?

## Task Number 143

**Identify imaging techniques and nuclear-medicine tests.**

### Definition

Identification should include

- X-rays
- computed tomography (CT)
- contrast studies
- ultrasound imaging
- magnetic resonance imaging (MRI)

- in vitro procedures
- in vivo procedures.

### **Process/Skill Questions**

- How would you describe each of the imaging techniques, tests, or procedures?
- In what situation(s) might each imaging technique, test, or procedure be used?
- How can one maintain confidentiality?
- How can one share one's findings ethically?
- What is the difference between a CT scan and an MRI?
- What is the difference between an AP and a PA view?

## **Understanding the Healthcare Delivery System**

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### **Task Number 144**

**Describe the interdisciplinary services offered in health care.**

#### **Definition**

Description should include

- services offered
- purposes of the services offered
- members of the team
- education and background required for each team member
- role of each team member.

### **Process/Skill Questions**

- What are interdisciplinary services?
- What are the interdisciplinary services offered in health care?
- What are interdisciplinary teams?
- What is the purpose of an interdisciplinary team?
- Who is involved on an interdisciplinary team? What are their roles?

### **Task Number 145**

## **Identify health careers.**

### **Definition**

Identification may include the following:

- Biomedical engineers
- Certified nurse aides
- Chaplains
- Dentists/hygienists/assistants
- Dieticians
- Licensed practical nurses
- Medical assistants
- Nurse practitioners
- Nutritionists
- Opticians/technicians
- Patient care technicians
- Pharmacists
- Physical/occupational therapists
- Physician assistants
- Physicians
- Psychiatrists
- Psychologists
- Registered nurses
- Respiratory therapists
- Social workers
- Speech pathologists

### **Process/Skill Questions**

- Why is it important to explore different career options available in health and medical sciences?
- What resources can be used to explore healthcare career options in your community? In the state?
- What types of educational requirements are needed for selected healthcare careers? What educational institutions in your region would offer education or training for your selected career options?
- Within your community, how do your selected healthcare careers differ in job outlook? In advancement opportunities?
- What are the statewide job outlook and advancement opportunities for your selected career options?
- What forms of financial aid are available?

## **Task Number 146**



## **Identify common medical specialties.**

### **Definition**

Identification should include medical specialties in fields such as pharmacy, nutrition, radiology, laboratory technology, nursing, respiratory services, physical medicine and rehabilitation, biomedical engineering, healthcare informatics, risk management, healthcare administration, dentistry, medicine, optical care, veterinary science, and emergency medical services.

### **Process/Skill Questions**

- Why are there so many types of professions and specialties in the healthcare industry?
- What is an interdisciplinary healthcare team?
- What is the role of the nurse navigator/patient care coordinator?

## **Task Number 147**

## **Describe types of healthcare settings.**

### **Definition**

Description should include

- ambulatory facilities
- assisted-living facilities, nursing homes, independent-living facilities, and retirement centers
- community health clinics
- emergency medical services
- freestanding services
- free clinics
- home health care
- hospice care
- hospital emergency rooms
- mental health centers
- pharmacies
- physical and occupational therapy offices
- primary care physician's offices
- Program of All-inclusive Care for the Elderly (PACE)
- public health facilities
- rehabilitation centers
- urgent care centers.

### **Process/Skill Questions**

- What is the difference in the type of medical care given in each of the healthcare settings?
- How does a community benefit from having a variety of healthcare settings?
- What are the differences among assisted-living facilities, nursing homes, and independent-living facilities?
- How are fees determined for use of these services?

## Task Number 148

### Describe patient care services.

#### Definition

Description may include

- acute care
- ambulatory care
- critical care
- emergency care
- long-term care
- maternal care
- medication
- mental health care
- neonatal care
- outpatient care
- palliative care
- pediatric care
- physical rehabilitation.

#### Process/Skill Questions

- How do neonatal and pediatric care differ from adult care?
- What are the treatment objectives for physical rehabilitation? For medicine?
- How does the patient category affect the approach to health care?

## SOL Correlation by Task

Explain how medical terms are developed.	English: 10.5, 11.5, 12.5
Define common medical word roots.	English: 10.3, 11.3, 12.3
Define common medical prefixes.	English: 10.3, 11.3, 12.3
Define common medical suffixes.	English: 10.3, 11.3, 12.3
Demonstrate pronunciation of medical terms.	English: 10.1, 10.3, 10.8, 11.1, 11.3, 11.8, 12.1, 12.3, 12.8

Apply the components of medical terminology (i.e., prefixes, word roots, suffixes).	English: 10.5, 11.5, 12.5
Explain medical abbreviations related to body systems.	English: 10.5, 11.5, 12.5
Identify medical abbreviations related to pathological conditions.	English: 10.5, 11.5, 12.5
Identify medical abbreviations related to diagnostic procedures.	English: 10.5, 11.5, 12.5
Explain medical abbreviations related to documentation.	English: 10.5, 11.5, 12.5
Identify medical abbreviations related to pharmacology.	English: 10.5, 11.5, 12.5
Identify abbreviations related to healthcare regulations and regulatory systems.	English: 10.5, 11.5, 12.5
Explain anatomical reference systems used to organize the body structure.	English: 10.5, 11.5, 12.5  History and Social Science: WHII.4
Describe the organization of the human body.	English: 10.5, 11.5, 12.5  History and Social Science: WHII.4  Science: BIO.4
Identify body cavities and the organs located within these cavities.	English: 10.5, 11.5, 12.5  History and Social Science: WHII.4
Identify body planes.	English: 10.5, 11.5, 12.5  History and Social Science: WHI.15, WHII.2, WHII.4
Identify body directions.	English: 10.5, 11.5, 12.5  History and Social Science: WHI.15, WHII.2, WHII.4
Identify body regions.	English: 10.5, 11.5, 12.5  History and Social Science: WHI.15, WHII.2, WHII.4
Define <i>anatomy</i> and <i>physiology</i> .	English: 10.3, 11.3, 12.3  History and Social Science: WHI.15, WHII.2, WHII.4  Science: BIO.4
Identify the major structures of the integumentary system.	English: 10.5, 11.5, 12.5  Science: BIO.4

Describe the role of the integumentary system.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8  Science: BIO.4
Assemble word elements to form medical terms related to the integumentary system.	English: 10.5, 11.5, 12.5
Identify common pathological conditions of the integumentary system.	English: 10.5, 11.5, 12.5
Identify common laboratory tests and clinical procedures related to the integumentary system, including related abbreviations.	English: 10.5, 11.5, 12.5
Identify common therapeutic interventions related to the integumentary system.	English: 10.5, 11.5, 12.5
Identify the major structures of the musculoskeletal system.	English: 10.5, 11.5, 12.5  Science: BIO.4
Describe the function of the musculoskeletal system.	English: 10.5, 11.5, 12.5  Science: BIO.4
Assemble word elements to form medical terms related to the musculoskeletal system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the musculoskeletal system.	English: 10.5, 11.5, 12.5
Identify common laboratory tests and clinical procedures related to the musculoskeletal system, including related abbreviations.	English: 10.5, 11.5, 12.5
Identify common therapeutic interventions related to the musculoskeletal system.	English: 10.5, 11.5, 12.5
Identify the major structures of the cardiovascular system.	English: 10.5, 11.5, 12.5  Science: BIO.4
Describe the functions of the cardiovascular system.	English: 10.5, 11.5, 12.5  Science: BIO.4
Assemble word elements to form medical terms related to the cardiovascular system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the cardiovascular system.	English: 10.5, 11.5, 12.5
Identify common laboratory tests and clinical procedures related to the cardiovascular system, including related abbreviations.	English: 10.5, 11.5, 12.5
Identify common therapeutic interventions related to the cardiovascular system.	English: 10.5, 11.5, 12.5
Identify the major structures of the respiratory system.	English: 10.5, 11.5, 12.5  Science: BIO.4

Describe the function of the respiratory system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the respiratory system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the respiratory system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the respiratory system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the respiratory system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the nervous system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the function of the nervous system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the nervous system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the nervous system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the nervous system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the nervous system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the urinary system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the urinary system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the urinary system.	English: 10.3, 11.3, 12.3
Identify the common pathological conditions of the urinary system.	English: 10.5, 10.6, 11.5, 11.6, 12.5, 12.6
Identify common laboratory tests and clinical procedures related to the urinary system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the urinary system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the female reproductive system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the female reproductive system.	English: 10.5, 11.5, 12.5

	Science: BIO.4
Assemble word elements to form medical terms related to the female reproductive system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the female reproductive system and of the newborn.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the female reproductive system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the female reproductive system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the male reproductive system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the male reproductive system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to create medical terms related to the male reproductive system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the male reproductive system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the male reproductive system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the male reproductive system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the lymphatic and immune systems.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the lymphatic and immune systems.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the lymphatic and immune systems.	English: 10.3, 11.3, 12.3
Identify major pathological conditions of the lymphatic and immune systems.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the lymphatic and immune systems, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the lymphatic and immune systems.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the gastrointestinal system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the gastrointestinal system.	English: 10.5, 11.5, 12.5 Science: BIO.4

Assemble word elements to form medical terms related to the gastrointestinal system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common pathological conditions of the gastrointestinal system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the gastrointestinal system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the gastrointestinal system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the endocrine system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the endocrine system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the endocrine system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the endocrine system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the endocrine system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the endocrine system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify the major structures of the sensory system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Describe the role of the sensory system.	English: 10.5, 11.5, 12.5 Science: BIO.4
Assemble word elements to form medical terms related to the sensory system.	English: 10.3, 11.3, 12.3
Identify common pathological conditions of the sensory system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common laboratory tests and clinical procedures related to the sensory system, including related abbreviations.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common therapeutic interventions related to the sensory system.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Explain how mental health disorders differ from disorders related to other body systems.	English: 10.5, 11.5, 12.5
Assemble word elements to form medical terms related to mental health.	English: 10.3, 11.3, 12.3
Identify common mental health disorders.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify common diagnostic procedures related to mental health.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8

Identify common therapeutic interventions related to mental health.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8
Identify signs of elder, domestic, and child abuse.	English: 10.5, 11.5, 12.5
Identify common medical terms used to communicate with other health professionals.	English: 10.5, 11.5, 12.5  History and Social Science: WHII.4
Describe terms related to healthcare delivery.	English: 10.5, 11.5, 12.5
Assemble word elements to form terms related to selected health careers and healthcare providers.	English: 10.3, 11.3, 12.3
Examine the role of technology in the healthcare field.	English: 10.5, 11.5, 12.5
Describe techniques for confidential communication of health/medical information within legal/regulatory guidelines.	English: 10.5, 10.6, 10.8, 11.5, 11.6, 11.8, 12.5, 12.6, 12.8  History and Social Science: GOVT.7, GOVT.8, GOVT.9, GOVT.15
Demonstrate the assessment of abstracted information from medical records and other documents, applying knowledge of medical terminology.	English: 10.5, 11.5, 12.5
Identify the disciplines of the laboratory.	English: 10.5, 11.5, 12.5
Identify imaging techniques and nuclear-medicine tests.	English: 10.5, 11.5, 12.5
Describe the interdisciplinary services offered in health care.	English: 10.5, 11.5, 12.5
Identify health careers.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
Identify common medical specialties.	English: 10.5, 10.8, 11.5, 11.8, 12.5, 12.8
Describe types of healthcare settings.	English: 10.5, 11.5, 12.5
Describe patient care services.	English: 10.5, 11.5, 12.5

## Entrepreneurship Infusion Units

Entrepreneurship Infusion Units may be used to help students achieve additional, focused competencies and enhance the validated tasks/competencies related to identifying and starting a new business venture. Because the unit is a complement to certain designated courses and is not mandatory, all tasks/competencies are marked “optional.”



# Appendix: Credentials, Course Sequences, and Career Cluster Information

## Industry Credentials: Only apply to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate Assessment
- Workplace Readiness Skills for the Commonwealth Examination

**Concentration sequences:** *A combination of this course and those below, equivalent to two 36-week courses, is a concentration sequence. Students wishing to complete a specialization may take additional courses based on their career pathways. A program completer is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program.*

- Emergency Medical Telecommunications (8337/36 weeks)
- Introduction to Health and Medical Sciences (8302/36 weeks)
- Introduction to Health and Medical Sciences (8301/18 weeks)
- Medical Administration (6730/36 weeks)
- Medical Administration (6731/18 weeks)
- Medical Laboratory Technology I (8377/36 weeks)

Career Cluster: Health Science	
Pathway	Occupations
Diagnostics Services	Nuclear Medicine Technologist Phlebotomist Radiologic Technologist, Radiographer
Health Informatics	Clinical Ethicist Medical Information Technologist Medical, Health Services Manager
Support Services	Data Entry Specialist Medical Transcriptionist
Therapeutic Services	Audiologist Optician

<b>Career Cluster: Science, Technology, Engineering and Mathematics</b>	
<b>Pathway</b>	<b>Occupations</b>
<b>Science and Mathematics</b>	<b>Bioinformatics Technician</b>