Unit II. Overview of the Human Body

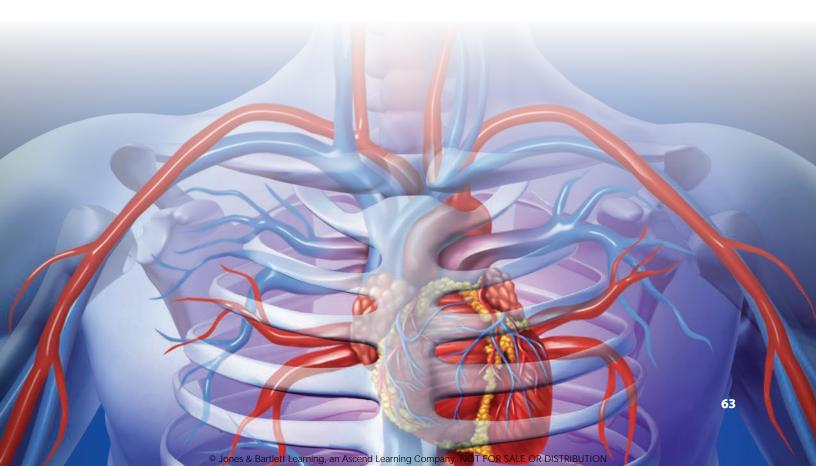


4

Medical Terminology

OBJECTIVES

- Study the information in your TEXTBOOK that corresponds to each objective to prepare yourself for the activities in this chapter.
- **1.** Identify, define, and use basic word elements individually and within medical terms.
- **2.** Demonstrate proper pronunciation of medical terms and unique plural endings.
- **3.** Use common medical abbreviations and symbols, and explain how items on the "Do Not Use" list can cause problems.



MATCHING

Use choices only once unless otherwise indicated.

MATCHING 4-1: KEY TERMS AND DESCRIPTIONS

Match each key term with the best description.

Key Terms	Descriptions
1 Combining form	A. Comes before a word root and modifies its meaning
2 Combining vowel	B. Distinctive Greek or Latin word endings that indicate more than one
3 "Do Not Use" list	C. Establishes the basic meaning of a medical term
4 Prefix	D. Follows a word root and adds to or changes the meaning
5 Suffix	E. Itemization of dangerous abbreviations, symbols,
6 Unique plural endings	and acronyms F. Makes pronunciation easier
7 Word root	G. Word root joined with a vowel

MATCHING 4-2: WORD ROOTS AND MEANINGS

vill be used. M

Match each	word root with its meaning.	Not all 1	meanings w
Word Roo	ts	Me	eanings
1	aer		Air
2	bucc		Bladder
3			Blood Bone
5	Cilolidi		
4	cry		Cartilage Cell
5	cubit		Cheek
			Chest
6	cyt		Clot
7	derm		Cold
			Elbow
8	glyc		Fat
9	hemat		Form
		N.	Hard
10	Пр	O.	Kidney
11	leuk		Liver
		Q.	Lung
12	шогрп	R.	Meal
13	my	S.	Muscle
14	prandi	T.	Pain
		U.	Pulse
15	sphygm	V.	Scale
16	sdiiam		Skin
			Sugar
17	thromb		Vessel
18	ren	Z.	White
19	scler		
20	vas		

MATCHING 4-3: PREFIXES AND MEANINGS

Match each prefix with its meaning. Not all meanings will be used.

Prefixes			Meanings		
	a-	A.	Back		
	brady-		Before		
	21dd y	C.	Between		
	dorso-	D.	Difficult		
	oni	E.	Equal		
	epi-	F.	Large		
	homeo-	G.	Many		
	intra	Н.	Middle		
	IIIIId-	I.	New		
	macro-	J.	Outside		
	modi	K.	Over		
	meui-	L.	Same		
	neo-	M.	Slow		
	202	N.	Three		
	per-	O.	Through		
	poly-	P.	Unequal		
	+ni	Q.	Within		
	ш-	R.	Without		
		fixes a brady dorso epi homeo intra macro medi neo per poly tri-	a- A. B. B. C. C. D. E. E. F. homeo- G. H. I. macro- J. K. medi- L. neo- M. Per- O. poly- tri- Q.		

MATCHING 4-4: SUFFIXES AND MEANINGS

Match each suffix with its meaning. Not all meanings will be used.

Suffixes		Me	eanings
1	algia	A.	Blood condition
2.	-emia		Breakdown
		C.	Burst forth
3	ic	D.	Condition
4.	iem	E.	Deficiency
4	18111	F.	Incision
5	itis	G.	Infection
6	lyraia	Н.	Inflammation
6	1ysis	I.	Measuring instrument
7	meter	J.	O ₂ level
0	ovia	K.	Pain
8	oxia	L.	Pertaining to
9	penia	M.	Recording
10	atacia	N.	Small
10	5td818	0.	Specialist
11	tomy	P.	Stopping
1.2	ula.	Q.	Tumor
12	uie	R.	Twitch

LABELING EXERCISES

LABELING EXERCISE 4-1: WORD ELEMENTS AND MEANINGS

Identify the highlighted element in each medical term listed below. Write the type of element (prefix, word root, combining vowel or form, or suffix) and its meaning on the corresponding line. If the element has no meaning, write "NA."

Me	edical Term	Type of Element	Element Meaning	
1.	arteriospasm			
2.	cyanotic			
3.	cytology			
4.	diapedesis			
5.	endocrinologist			
6.	hemopoiesis			
7.	neonatal			
8.	osteochondritis			
9.	postprandial			
10.	tachycardia			
Hig	shlight the word endings	4-2: SINGULAR AND PLURA in each of the medical terms below the term on the corresponding line.		. Write the applicable
	-	te term on the corresponding mic.		
				-
٥. ا	proto20u			-

LABELING EXERCISE 4-3: PRONUNCIATION GUIDELINES

- 1. Circle the terms below in which the "g" is pronounced like a "j." gallbladder/genetic/Giardia/gonad/gyrate
- 2. Circle the terms below in which the ending is pronounced like "eye." chordae/diastole/fungi/myalgia/nuclei
- 3. Circle the terms below in which the "c" is pronounced like an "s." capillary/cell/circulation/colitis/cytology
- 4. Circle the terms below in which the "e" at the end is pronounced separately. adipose/arteriole/diastole/exocrine/syncope
- 5. Circle the terms below containing "pn" where only the "n" is pronounced. apnea/dyspnea/pneumatic/pneumonia

KNOWLEDGE DRILLS

KNOWLEDGE DRILL 4-1: KEY POINT RECOGNITION

The following sentences are taken from Key Point statements found in Chapter 4 of the TEXTBOOK. Fill in the blanks with the missing information.

1.	A (A)		typically indicates a (B)	, organ,
	body system, color, conditio	n, substance, or (C)	·	
2.	However, a combining (A) _		is kept between two (B)	
		even if the second (C)		
	begins with a (D)	·		
3.	When a suffix begins with (A)	, the (B)	is
	(C)	as in hemorrhage.		
4.	When a suffix is added to a	word ending in (A)	, the (B)	
	is changed to a (C)	or _	, as i	n pharynx becoming
	(D)	and (E)	becoming thor	acic.
5.	It is more important to be al	ole to identify the (A) $_$	of a word ((B)
	than to identify its (C)	·		
6.	To determine the meaning o	f a medical term, it is go	enerally best to start with the (A	Δ),
	then go to the (B)	, and i	dentify the meaning of the (C) _	
		or (D)	last.	
7.	A (A)	(B)	is not normally ι	used when a suffix starts
	with a (C)	·		
8.	Occasionally there will be be	oth a(n) (A)	and (B)	word
	(C)	with the same mean	ning.	
9.	For example, the word root	(A)	means "vein," a (B)	
	(C)	·		
10.	When a (A)	begins with	n a vowel and the (B)	
		ends in the same vowel	one is dropped as in (C)	

KNOWLEDGE DRILL 4-2: SCRAMBLED WORDS

Unscramble the following words using the hints given in parentheses and the letters that have been placed in the correct boxes. Finish writing the correct spelling of the scrambled word in the corresponding box.

1.	thagol	poy (t	he stu	dy of	diseas	e)						
			t				0					
2.	sloycli	gys (b	reakd	own o	f suga	r)						
		1						s				
3.	tecala	nubit	(pertai	ining t	o in fr	ont of	the el	bow)				
			t				b					
4.	tucub	ansous	se (bei	neath	the sk	in)						1
				С			a				u	
5.	yenda	sp (di	fficult	breath	ning)			ı				
		у				e						
6.	nelra	(pertai	ining t	o the	kidney	/s)						
		е		a								
7.	vexalo	asutra	ır (out	side tl	ne bloo	od ves	sels)					
				r			a			u		
8.	cetryo	cmi (a	smal	l cell)								
				r					e			
9.	triene	sti (int	testina	l infla	mmati	ion)						
				e		i						
10.	critocl	es (pe	ertainii	ng to b	eing l	nard)						
		С					t					
11.	nosuv	e (per	tainin	g to a	vein)							
					u							
12.	boroth	sims	(abnoı	rmal c	onditi	on of o	clottin	g)				
			r					s				

KNOWLEDGE DRILL 4-3: TRUE/FALSE ACTIVITY

The following statements are all false. Circle the word(s) that make the statement false and write the correct word(s) that would make the statement true in the space provided.

1.	The basic meaning of a medical term is defined by the suffix.
2.	The prefix of the medical term toxicology is <i>toxi</i> .
3.	The Greek root <i>nephr</i> and the Latin root <i>ren</i> both mean liver.
4.	A suffix adds to the meaning of a prefix.
	The word root of the medical term "coronary" means heart.
6.	A word root combined with a prefix is called a combining form.
7.	The suffix of the word "hyperthyroidism" means high.
	The singular form of the word "phalanges" is phalange.
9.	The meaning of the abbreviation "NPO" is nothing to drink.
10.	The "e" in systole is silent.
11.	Ilium means hip bone and is pronounced the same as ileum, which means large intestine.
12.	The plural of ovum is ovae.
13.	The prefix of the word "exocrine" means below.
14.	The most common combining vowel is "a."
15.	"FCD" !- il il-
	"ESR" is the abbreviation for erythrocyte sedimentation ratio.
16.	"IV" is on the "Do Not Use" list because it can be mistaken for the number 10 The abbreviation "HIPAA" stands for Health Information Portability and Accountability Act
16.	"IV" is on the "Do Not Use" list because it can be mistaken for the number 10.
16. 17.	"IV" is on the "Do Not Use" list because it can be mistaken for the number 10.
16. 17. 18.	"IV" is on the "Do Not Use" list because it can be mistaken for the number 10 The abbreviation "HIPAA" stands for Health Information Portability and Accountability Act

SKILLS DRILLS

SKILLS DRILL 4-1: REQUISITION ACTIVITY

The following requisition contains abbreviations for common laboratory tests. Write the full name of the test in the space provided on the requisition.

Any Hospital USA 1123 West Physician Drive Any Town USA							
Laboratory Te	Laboratory Test Requisition						
PATIENT INFORMATION:							
Identification Number:							
Referring Physician: Date to be Collected: Special Instructions: TEST(S) REQUIRED:							
ASO	Hgb						

SKILLS DRILL 4-2: WORD BUILDING

1. blood tumor

Build medical terms for each definition listed below. Identify each word element, prefix (P), word root (WR), combining vowel (CV), or suffix (S) needed to build the term and write the meaning of each element on the appropriate line. (See Chapter 4 of the TEXTBOOK for word element definitions and examples.)

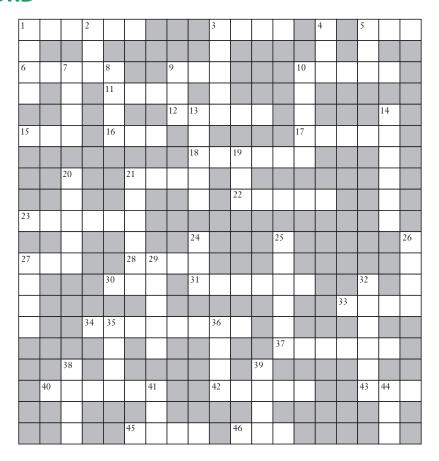
	Elements		/				
	_	WR		S			
	Definitions		/				
			/				
2.	cutting the vei	n					
	Elements _		/		/		
		WR		CV		S	
	Definitions _		/		/		
2	low blood sug	ar					
٥.			,		,		
	Elements _	р	/	WR	/	S	
	D (: :::	_	,		,		
	Definitions _		/		/		
4.	condition of de	eath					
	Elements _		/				
		WR		S			
	Definitions		/				
			, ,		<u>_</u>		
_		C .1 1:					
5.	inflammation						
	Elements _		/				
		WR		S			
	Definitions _		/				
6.	clotting cell						
	Elements		/		/_		
	Licincino _	WR	/	CV	/	S	
	Definitions		/		/	-	
	Deminions _		/		/		
7.	specialist in th	e study of disease	e				
	Elements _		/		/		
		WR		CV		S	
	Definitions		/		/		

8. large cell Elements Definitions 9. stopping blood (or blood flow) Elements Definitions _ 10. pertaining to poison Elements Definitions _ 11. study of tissue Elements Definitions 12. pertaining to the head Elements WR Definitions __ 13. condition of hard arteries Elements WR Definitions _ 14. inflammation of the brain Elements Definitions _ 15. pertaining to through the skin Elements

72

Unit II Overview of the Human Body

CROSSWORD

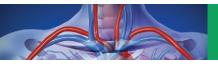


ACROSS

- 1. Prefix meaning different
- 3. Word root meaning glucose
- 5. Fasting blood sugar (abbrev.)
- 6. Prefix meaning small
- 9. Prefix meaning difficult
- 10. Before surgery (abbrev.)
- 11. Prefix meaning half
- 12. Word root meaning heart
- 15. Word root meaning vein
- 16. Prefix meaning below
- 17. Word root meaning intestines
- 18. Word root meaning clot
- 21. Word root meaning disease
- 22. Word root meaning kidney
- 23. Word root meaning head
- 27. Glucose tolerance test (abbrev.)
- 28. Word root meaning bone
- 30. Word root meaning tumor
- 31. Suffix meaning abnormal flow
- 33. Prefix meaning around
- 34. Word root meaning brain
- 37. Word root meaning chest
- 40. Word root meaning fiber
- 42. Prefix meaning within
- 43. Suffix meaning tumor 45. Prefix meaning after
- 46. Suffix meaning enzyme

DOWN

- 1. Prefix meaning same
- 2. Erythrocyte sedimentation rate (abbrev.)
- 3. Word root meaning stomach
- 4. Prefix meaning through
- 5. Fever of unknown origin (abbrev.)
- 7. Prefix meaning blue
- 8. Suffix meaning condition
- 9. Disseminated intravascular coagulation (abbrev.)
- 10. Word root meaning vein
- 13. Word root meaning joint
- 14. Word root meaning artery
- 19. Word root meaning kidney
- 20. Word root meaning liver
- 21. Word root meaning lung
- 24. Word root meaning air
- 25. Suffix meaning specialist in study of
- 26. Word root meaning vessel
- 27. Word root meaning sugar
- 29. Word root meaning hard
- 32. Combining form meaning blood
- 35. Word root meaning death
- 36. Prefix meaning against
- 38. Word root meaning bile
- 39. Suffix meaning inflammation
- 41. Prefix meaning new
- 44. Prefix meaning poor



Chapter Review Questions

1.	Which word element establishes	the	basic
	meaning of a medical term?		

- a. Combining form
- c. Suffix
- b. Prefix
- d. Word root
- 2. Which word part is a prefix?
 - a. epi
- c. lip
- b. gram
- d. ole
- 3. To what part of the body does the word part "cephal" refer?
 - a. Head
- c. Kidney
- b. Intestine
- d. Liver
- 4. Which part of the word "pericarditis" is the word root?
 - a. ardi
- c. itis
- b. cardi
- d. peri
- 5. What does the suffix "-lysis" mean?
 - a. Breakdown
- c. Stoppage
- b. Incision
- d. Surgical puncture
- 6. The plural form of "ovum" is
 - a. ova.
- c. ovi.
- b. ovae
- d. ovix.
- 7. The singular form of "atria" is
 - a. atra.
- c. atrix.
- b. atrius.
- d. atrium.
- 8. The medical term for platelet is
 - a. coagulocyte.
- c. leukocyte.
- b. hepatocyte.
- d. thrombocyte.
- 9. Venule means
 - a. condition of a vein.
 - b. pertaining to a vein.
 - c. small vein.
 - d. vein tumor.
- 10. Which of the following means kidney inflammation?
 - a. Nephremia
- c. Renemia
- b. Nephritis
- d. Renitis
- 11. The "e" at the end is pronounced separately in
 - a. arteriole.
- c. syncope.
- b. flange.
- d. venule.

- 12. The abbreviation "ESR" stands for
 - a. erythrocyte sedimentation rate.
 - b. established secondary reaction.
 - c. estimated sedimentation range.
 - d. evaluated survival response.
- 13. The abbreviation "RBC" means
 - a. random blood count.
 - b. rare blood cancer.
 - c. red blood cell.
 - d. reduced blood content.
- 14. The abbreviation "PPD" means
 - a. platelet plasma donor.
 - b. postprandial diet.
 - c. potassium and phosphorus determination.
 - d. purified protein derivative.
- 15. Which of the following abbreviations is on The Joint Commission's current "Do Not Use" list?
 - a. ACTH
- c. MSO₄
- b. HbSAg
- d. PCO₂
- 16. Which part of the word "arteriospasm" is the suffix?
 - a. arte
- c. ospa
- b. arteri
- d. spasm
- 17. The prefix of the word "antiseptic" means
 - a. against.
- c. difficult.
- b. away from.
- d. without.
- 18. The law that was designed to make health insurance more portable and accountable is
 - a. ACO.
- c. HCFA.
- b. CLIA.
- d. HIPAA.
- 19. The nurse says a patient's fingers are too cyanotic to use for a fingerstick. How would the fingers look?
 - a. Bluish in color
 - b. Grav and sweaty
 - c. Red and calloused
 - d. Yellow in color
- 20. Which is a suffix that means condition or state of?
 - a. algia
- c. oma
- b. ism
- d. penia



Case Studies

CASE STUDY 4-1: LABORATORY ORDERS

A phlebotomist receives a telephone order from the ICU requesting STAT collection of ABGs, lytes, and a WBC on a patient with COPD.

Questions

What is the complete name of the patient's location?

- 2. What is the collection priority, and what does it mean?
- 3. What are the complete names of the tests that the phlebotomist will collect?
- 4. What is the complete name of the disorder the patient has?

CASE STUDY 4-2: OUTPATIENT BLOOD DRAW

A patient arrives at an outpatient surgery blood drawing station with a requisition from her physician for a preop CBC and a chem profile. The requisition indicates that the patient has h/o syncope and must be fasting for the tests and NPO for surgery, which is scheduled for later that morning.

Questions

- 1. Why is the patient having the blood tests?
- 2. What does NPO mean, and how does the phlebotomist determine that the patient is NPO?
- 3. Look up the meaning of "syncope" in the glossary in the TEXTBOOK. What does h/o syncope mean? Should it concern the phlebotomist? Why or why not?

CASE STUDY 4-3: SAFETY ISSUES AND GLOVING

A recent case of HBV in the laboratory suggests that there are safety issues and that OSHA standards are not being followed. The phlebotomist who became contaminated claims that the gloves they use in the laboratory are not of quality and that is why she was exposed. Her supervisor tells her that the gloves are FDA-certified and CAP inspections also verify the safety of the gloves.

Questions

- 1. Write the complete name of the disease the phlebotomist contracted.
- 2. Spell out the name of the national organization that governs glove quality.
- 3. What is the complete name of the laboratory organization that inspects and accredits laboratories?
- 4. Write the complete name of the federal agency that sets safety standards for the laboratory.

