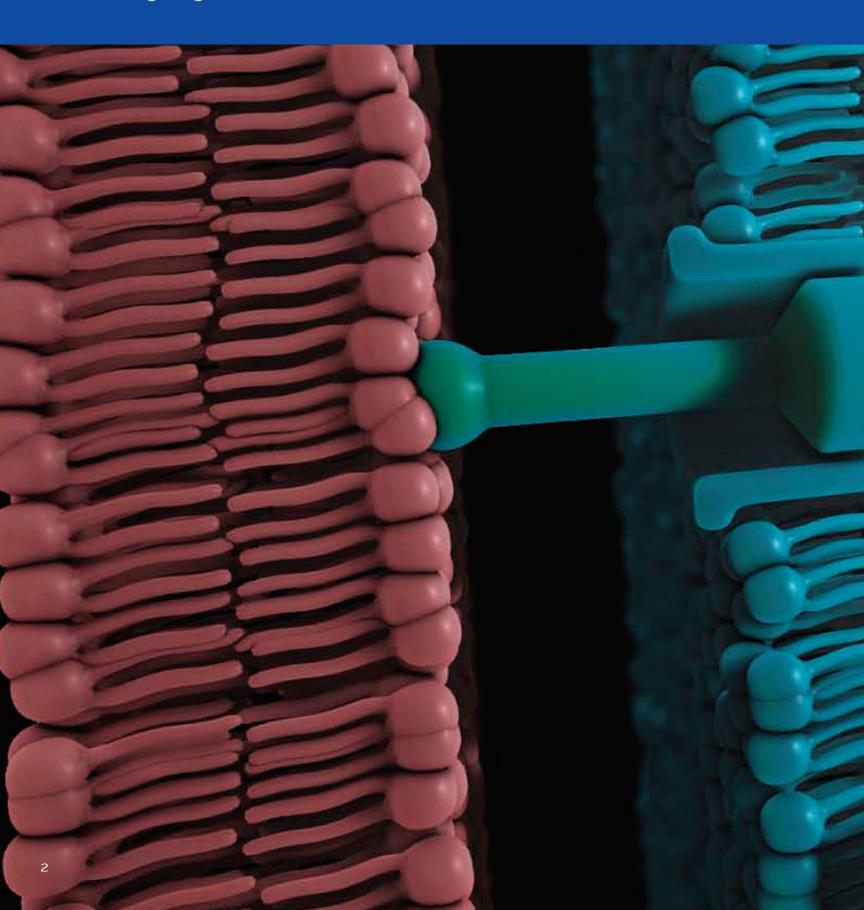
Roots and Combining Forms The Language of Health Care



Case Report (CR) 1.1

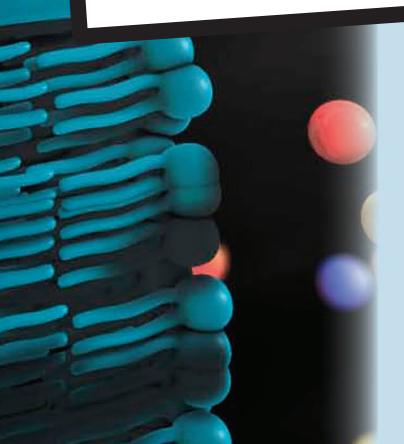
You are

... a medical assistant working for Russell Gordon, MD, a primary care physician at Fulwood Medical Center.

Your patient is

presents with swelling in her lower abdomen, shortness of breath, and the production of clear mucus when she coughs. She has no gynecologic or gastroenterologic symptoms. Her previous medical history shows recurrent dermatitis of her hands since her teenage years and an arthroscopy for a knee injury at age 40. Physical examination reveals a circular mass 6 inches in diameter in the left lower quadrant of her abdomen. There is no abnormality in her cardiovascular system.

Your role is to maintain her medical record and document her care, assist Dr. Gordon during his examinations, explain the examination and treatment procedures to Mrs. Bishop, and enable Dr. Gordon to refer her to a specialist.



Chapter Learning Outcomes

Case Report (CR) 1.1 features several medical terms that illustrate how medicine has its own language. This language provides all the health professionals involved in the care of a patient with the ability to communicate with each other by using medical terms with precise meanings. To be a qualified health professional, you must be able to speak and write this language of medicine. If you can, you will be able to communicate with other health professionals and to document the care given to your patients. This chapter is designed to give you the information and tools you will need to:

LO 1.1 Relate the logic of the language of medicine to your practice as a health care professional.

LO 1.2 Define the terms *root*, *combining vowel*, and *combining form*.

LO 1.3 Recognize that **roots** and **combining forms** are the core elements of any medical term.

LO 1.4 Deconstruct medical terms into **roots** and **combining forms**.

LO 1.5 Interpret the meaning of roots and combining forms in commonly used medical terms.

LO 1.6 Use roots and combining forms to construct commonly used medical terms.

LO 1.7 Identify the medical terms taken directly from Greek or Latin words.

LO 1.8 Differentiate between medical terms that are spelled and/or pronounced similarly.

1.1 Roots and Combining Forms

THE LANGUAGE OF HEALTH CARE

LESSON OBJECTIVES

The technical language of medicine has been developed logically, mainly from Latin and Greek **roots**. The first steps to take to understand the language of medicine are to:

- 1.1.1 Describe the logic behind the terms used in the language of health care.
- 1.1.2 Select the **root** of each medical term.
- 1.1.3 Define the meanings of the roots of commonly used medical terms.
- 1.1.4 Define the terms combining vowel and combining form.
- 1.1.5 Construct combining forms for commonly used medical terms.
- 1.1.6 Identify the combining vowel and combining form of commonly used medical terms.

THE ELEMENTS OF A MEDICAL TERM ARE:

- **prefix**—the beginning of some words
- root—the foundation of the word that provides its meaning
- combining vowel vowel that joins a root to another root or to a suffix
- combining form combination of a root and a combining vowel
- **suffix**—the ending of some words

ROOTS:

- the constant, unchanging foundation of a medical term
- usually of Greek or Latin origin
- one or more is found in most medical terms

COMBINING VOWEL:

- has no meaning of its own
- joins a root to another root
- joins a root to a suffix
- makes a word easier to pronounce
- "o"—the most common combining vowel, with "a" as the next most common

LO 1.1, 1.2, 1.3, 1.5 Understanding the Logic of Medical Terminology

Understanding and being comfortable with the technical language of medicine are keys to a successful career as a health professional. Your ability to use language to communicate verbally and in writing is essential for patient safety, high-quality patient care, interaction with other health care professionals, and your own self-esteem as a health care professional.

Your confidence in using medical terms will increase as you understand the logic of how these terms are built from their individual parts, or **elements**. In addition, understanding the logic of this process

Some confusion might

exist over the terms

"to breathe" and "breath." To

breathe (with the "e") is the verb/

noun term). If you misspell either

will be scored as incorrect.

word in an answer, your response

action term. When you breathe, you take a *breath* (which is the

will help you analyze, or "deconstruct," a medical term, break the term down into its elements, or its "anatomy," and also construct the elements into a whole to understand the meaning of a medical term.

The core element of any term is its **root**. You can use the following information about **roots** to help you understand Mrs. Bishop's Case Report 1.1 on the previous spread.

Nearly every medical term has at least one **root**, the element that carries the core meaning of the word. Ninety percent of all roots arise from Greek and Latin words, and many of them have been in use for over 2000 years. For example,

Gynecologic uses the Greek root **gynec-**, meaning *female*.

Dermatitis has the root **dermat-**, from the Greek word for *skin*.

Arthroscopy has the root **arthr-**, derived from the Greek word for *joint*.

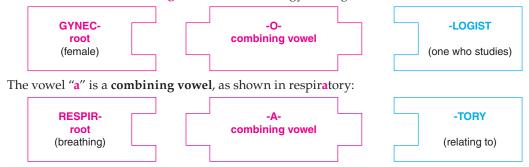
Respiratory uses the root **respir-**, from the Latin word for *to breathe*.

Many words contain more than one **root**. For example, **gastroenterology** has the **root gastr-**, from the Greek word for *stomach* and the **root -enter-**, from the Greek word for *intestine*. The term means the medical specialty of the stomach and intestines. The term **pneumothorax** has the **root pneum-**, from the Greek word **pneuma**, meaning *air*, and the **root -thorax**, the Latin word for *chest*. The term means the *presence of air in the chest outside the lungs*.

Combining Vowels

You build medical terms on the foundation of a **root**. Adding a **combining vowel** to the end of a **root** joins that **root** to other word elements. This vowel has no meaning of its own. It is the vehicle that joins word elements to create medical terms. It also makes the word easier to pronounce. Creating medical terms is like assembling pieces of a jigsaw puzzle.

The vowel "o" is a **combining vowel**, as shown in gynecologist:



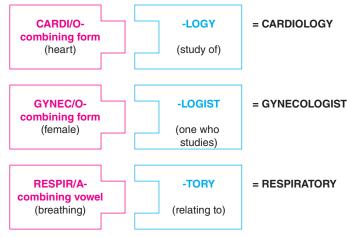
"O" is the most common combining vowel. The vowels "a," "i," and "u" are used less frequently. Some words have more than one combining vowel. Gastroenterology has two "o" combining vowels attached to different roots.

A combining vowel can be used to link two **roots** even when the second **root** begins with a vowel, as shown in gastroenterology:



Combining Forms

A **root** with a **combining vowel** added to it is called a **combining form**. For example, the root **abd-**, the vowel "o," or **abd/o-**, meaning *belly*, is the **combining form** for the word, **abdomen (abd/o-men)**. Examples of **combining forms** are



An example of a word that has two **combining forms** is **gastroenterology**, the elements of which can be pieced together like this:



Prefixes and suffixes are discussed in Chapter 2.

Keynote

A *gynecologist* is a medical specialist in the care of the female reproductive system. *Respiratory* means relating to respiration or breathing.

COMBINING FORMS:

- combines a root and a combining vowel
- can be attached to another **root** or **combining form**
- can precede a suffix



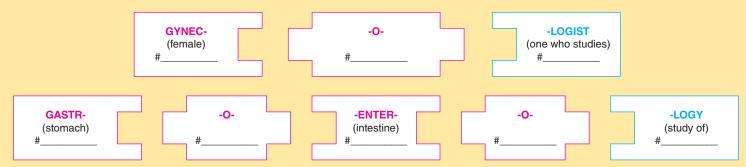
Gastroenterology is the medical specialty concerned with the function and disorders of the stomach, intestines, and associated organs.



When a medical term is being analyzed and broken down into its elements, a combining form will be shown with a / between the root and the combining vowel.

Exercises

A. The jigsaw pieces are your visual aid to understanding the logic of how elements form medical terms. Number the puzzle pieces with each of the statements below that pertains to that part of the puzzle. Each puzzle piece will have several numbers. Fill in the blanks. **LO 1.4, 1.5, 1.6**



Place the numbers of the following statements into the correct puzzle piece.

- 1. This piece is a root.
- 2. This piece is a combining vowel.
- **3.** This piece is the end of the term, or the suffix.
- 4. This piece needs to be in every term.

- 5. This piece attaches to a root.
- **6.** This piece comes before a suffix.
- 7. This piece has no meaning of its own.
- **8.** This piece is usually of Greek or Latin origin.

LO 1.7 Greek, Latin, and Old English Words

Case Report 1.1, which describes Mrs. Connie Bishop's presentation, features several medical terms taken directly from Latin or Greek words or from Old English terms that do not break down (deconstruct) into word elements. Several of them are used in general language outside of medicine. These medical terms in Case Report 1.1 are:

- **patient**, an old English term meaning *to suffer* or *undergo*; the term refers to a person who is under medical or surgical treatment.
- medical, from a Latin term meaning to heal; it means pertaining to the practice of medicine.
- breath, an Old English word meaning a single cycle of inhaling and exhaling.
- mucus, a Latin word for a clear, sticky secretion.
- **knee**, an Old English word meaning *an angular shape*; today it refers to the **joint** (a Latin word for junction) between the upper and lower leg.
- quadrant, a Latin word meaning a quarter; the abdomen is divided into four quadrants by
 horizontal and vertical planes that intersect at the umbilicus, which is a Latin word for the navel
 or belly button.
- record, a Latin word meaning to remember; a medical record is a written account of a patient's medical history.
- care, an Old English word meaning to worry; when you care for your patients, you look after them and are concerned about them.
- **specialist**, a Latin word meaning *of a given species*; a *specialist* devotes professional attention to a particular subject area.

Other examples not used in Case Report 1.1 include:

- apex, a Latin word meaning tip or summit (as in Mount Everest); the apex of the heart is the downward pointing tip of the cone-shaped heart.
- patent, a Latin word meaning open or exposed; a patent blood vessel is open to the circulation of freely flowing blood.
- toxin, a Greek word meaning *poison*; a *toxin* is a poisonous substance formed by a cell, such as a bacterium.
- **lymph**, a Latin word meaning *clear spring water; lymph* is a clear, shimmering fluid collected from the body tissues.
- **breech**, an Old English word meaning *buttocks*; in obstetrics, a fetus is in a *breech* presentation when the buttocks, rather than the head, are the presenting part at delivery.

LO 1.8 Terms That Are Alike

Precision in both written and verbal communication is essential for a health professional, with great attention given to detail. There are many words in the medical language that are very similar to each other in both their spelling and pronunciation. Examples are

- ilium, pronounced ill-ee-um, a bone in the pelvis
- ileum, pronounced the same way, ill-ee-um, a segment of the small intestine
- ureter, the tube from the kidney to the bladder
- urethra, the tube from the bladder to the outside
- trapezius, a muscle in the back
- trapezium, a bone in the wrist
- malleus, a small bone in the middle ear
- malleolus, a bony protuberance at the ankle
- neurology, the study of diseases of the nervous system
- · urology, the study of diseases of the kidney and bladder

Exercises

A. 1110	jonou	mig medical terms are all of Greek or Li	uin origin. Muich the meaning in the fir	si column to the t	erm in the second column.
	_ 1.	tip or summit	a. patent		
	_ 2.	buttocks	b. mucus		
	_ 3.	poison	c. apex		
	_ 4.	clear, sticky secretion	d. breech		
	_ 5.	open	e. toxin		
B. Iden	itify th	ne incorrect statement about a root by c	ircling it, and then rewrite it correctly or	1 the line below.	LO 1.2
	1. A	root is the foundation of every n	nedical term.	T	F
	2. Th	e root dermat means skin.		T	F
	3. Ma	any words contain more than on	e root.	T	F
	4. Th	e root thorax is the Latin word for	or lung.	T	F
	5. Ro	ots are usually of Latin or Greel	corigin.	T	F
	6. Co	prrection of incorrect statement:			



Anatomy of Word Building

Challenge Your Knowledge

A.	correctly. (LO 1.2		rue or raise: Circle the correct answe	er. On the lines bei	ow, rewrite any fa	ise answer			
	1. A term never	has more than one root.	T	F					
	2. Some terms v	will have no combining vow	vel.	T	F				
	3. Modification may be necessary to make a word easier to pronounce. T								
	4. A vowel must always be present in a combining form. T F								
	5. Corrected sta	itement:							
В.	The root is the	core meaning of the term	and the foundation on which the t	t erm is built. Reco	ognize the root in 6	each of the			
	following terms	, and define it. (LO 1.3, Rer	nember)		Ü				
	Term	Root	Meaning of Root						
	cardiology								
	gynecologic								
	dermatitis								
	arthroscopy								
C.	Identify and ur	nderline the core foundati	on in each of the following terms.	(LO 1.2, 1.3, Rem	ember)				
	1. cardiology								
	2. gastroentero	ology							
	3. respiratory								
	4. dermatitis								
	5. cardiologist								
	6. arthroscopy								
	7. cardiopathy								
	8. gastric								
	9. pneumothor	ax							
	10. gynecologist								
	6)								

D.		ll re	oining forms, you can identify what unknown terms relate to cognize. Identify the root or combining form in each term and you to be is done for you. (LO 1.3, Remember, Analyze)
	1. The term <i>hypogastric</i> relates to the stomach.		
	2. The term <i>neuroglia</i> relates to		
	3. The term <i>cardiopulmonary</i> relates to		
	4. The term <i>subdermal</i> relates to		
	5. The term <i>arthralgia</i> relates to		
	6. The term <i>endocarditis</i> relates to		
	7. The term <i>pneumonitis</i> relates to		
	This is the logic of medical language.		
E.	Match the Greek/Latin elements in the first column	with	their meanings in the second column. (LO 1.5, 1.7, <i>Understand</i>)
	1. pneum	a	. to breathe
	2. gynec	b	. open
	3. lymph	С	. clear, sticky secretion
	4. thorax	d	. tip or summit
	5. arthr	e	. buttocks
	6. respir	f.	chest
	7. mucus	g	. skin
	8. patent	h	. joint
	9. toxin	i.	female
	10. apex	j.	air
	11. dermat	k	. clear spring water
	12. breech	1.	poison



Anatomy of Word Building

1. A Pap smear is part of a					exam
	0,	U	gyneckologic	gynecologic	
2. The					system keeps you breathing
		-	respiratory		
3. Inflammation of the hea			carditis		
4. A muscle in the back is					
4. A muscle in the back is			trapezium		
5. A bony protuberance in	your ankle is the		•	•	
, <u>, , , , , , , , , , , , , , , , , , </u>	maleus			malleolus	
Use your newly acquired and combining forms be your 1. This term means one will gynecologist	our guide. Circle the be	est choic eprodu	e. (LO 1.5, 1.6, <i>App</i>		ig questions. Let the root
	O .		ologist		
2. This term relates to the			natology		
gastroenterology	•	uem	natology		
3. This term relates to the					
apex	toxic	resp	iratory		
4. This term relates to the gastritis	stomach. gynecology	dern	natitis		
5. This term relates to a join	int.				
arthritis	urethritis	neur	algia		
Use the correct medical	term to complete the	sente	nce. Fill in the blan	ks. (LO 1.6, 1.7, <i>Appl</i>y	()
1. A				is a speci	alist in the care of the heart
					n the kidney to the bladder.
4. A segment of the small					
					ad, present first at delivery.
6				is the tube from	n the bladder to the outside
7				is a fluid	collected from body tissues
8. A bone in the wrist is the	ne				
9. The bony protuberance	at the ankle is the				
10					is a bone in the pelvis

F. Spelling is most important in medical terminology. For example, ilium and ileum may be similar in appearance and sound,

I.				y extracting their roots either a R or a CF. (LO 1.	or combining forms. Write <i>root</i> (R) or <i>combining form</i> 4, <i>Analyze</i>)
	1. gynecologic				
	2. gastroenterolog	gy			
	3. dermatitis				
	4. arthroscopy				
	5. respiratory				
	6. cardiology				
J.	Separate the term			on the terms that have co ow the chart. (LO 1.1, 1.2,	ombining forms. Put a check mark (√) in the appropri , 1.3, <i>Analyze</i>)
Me	edical Term	Root	Com	oining Form	
1.	gynecologist				
2.	urology				
3.	pneumothorax				
4.	cardiac				
5.	respiration				
6.	arthritis				
7.	dermatology				
8.	enteritis				
9.	neuritis				
10.	gastric				
	11. Which term ha	s more than one ro	oot?		
	12. Which terms ha				
				na form?	
		Ü			
K.					wing terms to determine the correct combining form ne blanks. (LO 1.4, <i>Analyze</i>)
	Term	Root(s)		Combining Vowel	Combining Form
	1. cardiology				
	2. gynecologic				
	3. dermatology				
	4. arthroscopy				
	1 7				



Anatomy of Word Building

	Type of Element	Meaning of Element
	1. arthroplasty	2
	3. endocarditis	4
	5. respiratory	6
	7. hypotension	8
		10
М.		is taken from the beginning of this chapter. You should feel more comfortable with the gain, and you will be able to answer the questions. Fill in the blanks. (LO 1.5 , <i>Analyze</i>)
Ca	se Report 1.1	Study Hint
/	u are	Many elements have
	a medical assistant employed by Russell Go Nedical Center.	more than one meaning. You must know the different and the work of
foi	ur patient is	make a difference in the use of the medical term.
n p a ir	nen and shortness of breath. She has no gyne previous medical history shows recurrent derr arthroscopy for a knee injury at age 40. Physic	
е	our role is to maintain her medical record and examinations, explain the examination and treate her referral for specialist care.	document her care, assist Dr. Gordon during his atment procedures to Mrs. Bishop, and facili-
	1. What type of skin problem has Mrs. Bis	hop had since she was a teenager?
	2. She "has no gynecologic or gastroentero	ologic symptoms."
	Define gynecologic.	
	Define gastroenterologic.	
	3. Her knee injury required what type of p	procedure?
	Describe this procedure.	
	4. She shows "no abnormality in her respin	ratory or cardiovascular system." Explain this in layman's terms.
	5. What symptoms does Mrs. Bishop have	that brought her to Dr. Gordon?
	Congratulations! You are on your w	ay io tearning metucar terminology.

CHAPTER SUMMARY EXERCISES

A. Spelling comprehension: Circle the correct spelling of the term. (**LO 1.5, 1.7,** *Remember*)

1. abdomin	abdumin	abdomen	addumen	adumen
2. cardilogist	cardelogist	cardiologist	cardeologist	cardiollogist
3. respiratory	rispiratory	risperatory	resspiratory	resperatory
4. maleum	malleus	malium	mallium	maileus
5. gastroenterology	gastricenterology	gastrioenterology	gastrology	gastraenterology
6. iillium	ilium	ileum	illeum	ellium
7. cardeopathy	cardeeopathy	cardeopathie	cardiopathy	cardiopethy
8. arthriscopy	arthroscopy	artroscopy	arterioscopy	arterioscopie
9. trapezium	trapezius	trrapezius	trapizium	trapezeum
10. gyneckologic	gynecologic	gynicologic	gynickologic	gynekologic

B. Match the number of the correct spelling of the term in Exercise A with the brief description of the term below. (LO 1.5, 1.7, Apply)

1. study of the stomach and intestines	
2. visual examination of a joint	
3. small bone in the middle ear	
4. specialist in treating heart problems	
5. Latin word for <i>belly</i>	
6. pertaining to breathing	
7. bone in the pelvis	
8. root meaning female	
9. bone in the wrist	
10 disease of the heart	



Anatomy of Word Building

2		1	
4. 5. 6. 7. 8. 9. 10. Meet the goals of each of the Chapter Learning Outcomes and insert the correct answers to the questions, (LO 1.1–1.8, Analyze) 1. Topic: Relate the logic of the language of medicine to your practice as a health care professional. Be prepared to discuss this in class. Make a brief outline of your thoughts for this discussion. (LO 1.1) 2. Define the terms root, combining vowel, and combining form. (LO 1.2) a. root: b. combining vowel: c. combining form: 3. Recognize that roots and combining forms are the foundation of any medical term. Identify the root or combining form in each of the following terms. (LO 1.3) a. gastrologist b. gynecologist		2	
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6			
 7			
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 3. Recognize that roots and combining forms are the foundation of any medical term. Identify the root or combining form in each of the following terms. (LO 1.3) a. gastrologist b. gynecologist 		 Topic: Relate the logic of in class. Make a brief or the class. Define the terms root, contains the contains	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1)
each of the following terms. (LO 1.3) a. gastrologist b. gynecologist		 Topic: Relate the logic of in class. Make a brief of the class. Define the terms root, contact a. root: 	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1)
a. gastrologistb. gynecologist		 Topic: Relate the logic of in class. Make a brief of in class. Define the terms root, contains a root: b. combining vowel: 	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1)
b. gynecologist	:	 Topic: Relate the logic of in class. Make a brief of in class. Make a brief of the class. Define the terms root, containing to the combining to the combining form: 	the language of medicine to your practice as a health care professional. Be prepared to discuss this tline of your thoughts for this discussion. (LO 1.1) mbining vowel, and combining form. (LO 1.2)
	:	 Topic: Relate the logic of in class. Make a brief of in class. Define the terms root, combining towel: c. combining form: Recognize that roots and 	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1) **Mining vowel**, and combining form. (LO 1.2)
c. neurologist	:	 Topic: Relate the logic of in class. Make a brief or in class. Make a brief or a brief or a. Poot. Define the terms root, containing towel: c. combining form: Recognize that roots an each of the following terms: 	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1) **Mining vowel**, and combining form. (LO 1.2)
	:	 Topic: Relate the logic of in class. Make a brief or in class. Make a brief or a brief or a. Poot. Define the terms root, continued a brief or a brief	the language of medicine to your practice as a health care professional. Be prepared to discuss this cline of your thoughts for this discussion. (LO 1.1) **Mining vowel**, and combining form. (LO 1.2)

4.	Deconstruct medical terms into their roots and combining forms. Underline the root or combining form in each of the
	following terms. (LO 1.4)
	a. arthroscopy
	b. dermatome
	c. cardiogram
5.	Interpret the meaning of the roots and combining forms in commonly used medical terms. (LO 1.5)
	a. In the term <i>cardiography</i> , the root means
	b. In the term <i>respiration</i> , the root means
	c. In the term <i>gastric</i> , the root means
6.	Use roots and combining forms to construct commonly used medical terms. (LO 1.6)
	a. An operation to limit food intake is a bypass.
	b. CPR is the abbreviation for resuscitation.
7.	Among the following medical terms, identify the ones that are taken directly from Greek or Latin words. Circle your
	choices. (LO 1.7)
	renal mucus hypothermic breath knee popliteal bilateral quadrant hyperbaric toxin umbilicus
8.	Differentiate between medical terms that are spelled and/or pronounced similarly. What is the difference between
	"patient" and "patent"? (LO 1.8)
	a. patient
	b. patent

CHAPTER 1 REVIEW Anatomy of Word Building

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