CHAPTER 1 Introduction to Medical Terminology

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MEDIA LIBRARY

Student DVD-ROM

- Twelve different interactive learning games
- Flash card generator
- Audio Glossary
- Professional Profile video—Health Information Management personnel
 - Medical Record Technicians
 - Medical Transcriptionists
- Terminology Translator

Companion Website

- Multiple Choice, True/False, and Fill-in-the-Blank practice questions
- Additional Professional Profile information
- *New York Times* link for research into specific pathologies
- Audio Glossary

- Link to VangoNotes
- Link to drug updates

IRDVD

- Videos
 - Parts of a medical term
 - Duties of a medical transcriptionist
 - Taking patient history
 - Describing the Health Information Portability and Accountability Act (HIPAA)
- Digital library of all figures from text chapter
- Test bank with 200 objective questions per chapter plus two short answer questions
- Twenty classroom response questions
- PowerPoint presentation for classroom or online utilization

Discuss the four parts of medical terms.

Text pages: 3-8; PowerPoint slides: 4-14; 17-18, 25-26

LECTURE NOTES

Overview of four main word parts:

- 1. The **word root** is the foundation of the word.
- 2. A **prefix** is at the beginning of the word.
- 3. A **suffix** is at the end of the word.
- 4. The **combining vowel** is a vowel (usually *o*) that links the word root to another word root or a suffix.

cardiogram = record
of the heart
pericardium = around
the heart
carditis = inflammation
of the heart
cardiomyopathy =
disease of the heart
muscle

Word Roots

- Foundation of medical term; provides general meaning of word
- May indicate body system or part of body, such as cardi for heart
- May be action, such as cis, which means to cut (as in incision)
- Term may have more than one word root; osteoarthritis combines word root oste (bone) and arthr (joint)

Combining Vowel

- Makes it possible to pronounce long medical terms and to combine several word parts
- Most often the vowel o
- Utilized in two places: (1) between word root and suffix or (2) between two word roots
- When placed between word root and suffix, look at suffix; if begins
 with vowel, do not use combining vowel; if suffix begins with consonant, then use combining vowel; arthroscope needs combining
 vowel, and arthritis does not
- Keep between two word roots, even if second word root begins with vowel; gastroenteritis not gastrenteritis
- Combining form—used when writing a word root by itself; consists
 of word root and combining vowel; written in word root/vowel
 form; cardilo

Prefix

- Added to front of term
- Frequently gives information about location of organ, number of parts, or time (frequency)
- Not every term will have prefix
- When written alone, followed by hyphen

Suffix

- Attached to end of term
- Adds meaning, such as condition, disease, or procedure
- Every medical term must have suffix
- Terms can be built from suffix added directly to prefix, without word root; dystrophy is built from prefix dys- and suffix -trophy
- Preceded by hyphen when written alone

TEACHING STRATEGIES

- Stress importance of learning word parts through memorization.
- Review rules for when combining vowel is used at several occasions during lecture.

IRDVD

 See PowerPoint presentation on the Instructor's Resource DVD for video on elements of a medical term.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Text

Practice Exercises

Student DVD-ROM

Learning games

CW

• Practice questions

ASSESSMENTS

Quiz 1C—Chapter Review, True/False questions **Test Bank**—questions

Recognize word roots and combining forms.

Text page: 4; PowerPoint slides: 15-16

LECTURE NOTES

Combining Form aden/o	Meaning
	gland
carcin/o	cancer
cardi/o	heart
chem/o	chemical
cis/o to	cut
dermat/o	skin
enter/o	small intestines
gastr/o	stomach
gynec/o	female
hemat/o	blood
hydr/o	water
immun/o	immune
laryng/o	voice box
morph/o	shape
nephr/o	kidney
neur/o	nerve
ophthalm/o	eye
ot/o	ear
path/o	disease
pulmon/o	lung
rhin/o	nose
ur/o	urine, urinary tract

TEACHING STRATEGIES

Show students several different methods for creating flash cards, such as using index cards or using flash card creator on Student DVD-ROM.

Medical Terminology Bee

Create PowerPoint flash cards of new combining forms, prefixes, and suffixes presented in this chapter; have all students stand and then define word part; if student is correct he/she remains standing, if student is wrong, he/she sits down; continue until only one student is standing.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Worksheet 1A

• New Word Roots Handout

Text

• Practice Exercises

Student DVD-ROM

- Learning games
- Make flash cards

CW

• Practice questions

Quiz 1A

• May be used as a worksheet

ASSESSMENTS

Quiz 1A—New Word Parts Quiz

Quiz 1C—Chapter Review, Fill-in-Blank questions

Test Bank—questions

Identify the most common prefixes and suffixes.

Text pages: 4-8; PowerPoint slides: 19-24; 27-35

LECTURE NOTES

Common Prefixes

Prefix	Maanina
Prefix	Meaning
a-	without, away from
an-	without
ante-	before, in front of
anti-	against
auto-	self
brady-	slow
dys-	painful, difficult
endo-	within, inner
epi-	upon, over
eu-	normal, good
hetero-	different
homo-	same
hyper-	over, above
hypo-	under, below
infra-	under, beneath, below
inter-	among, between
intra-	within, inside
macro-	large
micro-	small
neo-	new
pan-	all
para-	beside, beyond, near
per-	through
peri-	around
post-	after
pre-	before, in front of
pseudo-	false
retro-	backward, behind
sub-	below, under
super-	above, excess
supra-	above
tachy-	rapid, fast
trans-	through, across
ultra-	beyond, excess
	•

Number Prefixes

Prefix	Meaning
bi-	_
DI-	two
hemi-	half
mono-	one
multi-	many
nulli-	none
poly-	many
quad-	four
semi-	partial, half
tri-	three
uni-	one

TEACHING STRATEGIES

- Have students think of everyday words that also use some of these prefixes and suffixes; especially helpful for prefixes.
- Emphasize how pool of prefixes and suffixes will be used with every chapter of text; encourage students to make flash cards now and add to their stack of cards with each new chapter.

Medical Terminology Bee

• Create PowerPoint flash cards of new combining forms, prefixes, and suffixes presented in this chapter; have all students stand and then define word part; if student is correct, he or she remains standing, if student is wrong, he or she sits down; continue until only one student is standing.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Worksheets 1B & 1C

• New Prefixes and New Suffixes Handouts

Text

• Practice Exercises

Student DVD-ROM

- Learning games
- Make flash cards

CW

• Practice questions

Quiz 1A

• May be used as a worksheet

ASSESSMENTS

Quiz 1A—New Word Parts Quiz Quiz 1C—Chapter Review, Fill-in-Blank questions Test Bank—questions

Common Suffixes Suffix Meaning -algia pain -cele hernia, protrusion -cise cut cell -cyte -dynia pain dilation -ectasis that which produces -gen -genesis produces, generates producing, produced by -genic -ia state, condition abnormal condition -iasis -ism state of -itis inflammation one who studies -logist -logy study of -lysis destruction abnormal softening -malacia enlargement, large -megaly -oma tumor, mass -osis abnormal condition -pathy disease

development, growth -plasia formation, development -plasm

-ptosis drooping

-rrhage excessive, abnormal flow

-rrhea discharge, flow -rrhexis rupture -sclerosis hardening -stenosis narrowing -therapy treatment

-trophy nourishment, development

Adjective Suffixes

The following suffixes are used to convert a word root into an adjective. These suffixes usually are translated as *pertaining to*.

Suffix	Meaning
-ac	pertaining to
-al	pertaining to
-an	pertaining to
-ar	pertaining to
-ary	pertaining to
-eal	pertaining to
-iac	pertaining to
-ic	pertaining to
-ical	pertaining to
-ile	pertaining to
-ior	pertaining to
-ory	pertaining to
-ose	pertaining to
-ous	pertaining to
-tic	pertaining to

Surgical Suffixes

Suffix	Meaning
-centesis	puncture to withdraw fluid
-ectomy	surgical removal
-ostomy	surgically create an opening
-otomy	cutting into
-pexy	surgical fixation
-plasty	surgical repair
-rrhaphy	suture

Procedural Suffixes

Suffix	Meaning
-gram	record or picture
-graph	instrument for recording
-graphy	process of recording
-meter	instrument for measuring
-metry	process of measuring
-scope	instrument for viewing
-scopy	process of visually examining

OBJECTIVE 4

Define word building and describe a strategy for translating medical terms.

Text pages: 8-9; PowerPoint slides: 36-39

LECTURE NOTES

Word Building

- Consists of putting together several word elements to form variety of terms
- Combining form of word added to another combining form along with suffix to create new descriptive term
- Example, adding *hyster/o* (meaning uterus) to *salping/o* (meaning fallopian tubes) along with suffix *-ectomy* (meaning surgical removal of) forms term hysterosalpingectomy, removal of both uterus and fallopian tubes

Interpreting Medical Terms

Strategy is method for puzzling out meaning of unfamiliar medical term

- 1. Divide term into its word parts
 - gastr/o/enter/o/logy
- 2. Define each word part
 - gastr = stomach
 - o = combining vowel, no meaning
 - enter = small intestine
 - o = combining vowel, no meaning
 - -logy = study
- 3. Combine meaning of word parts
 - stomach, small intestine, study of

TEACHING STRATEGIES

- Write variety of prefixes, word roots, and suffixes on the board; select students to create new words using these word parts.
- Write medical terms on the board and have students practice four-step translation strategy.
- Have students think of word building examples from everyday terms to show that word building is not strictly related to medical terminology.

LEARNING ACTIVITIES

Worksheet 1D

Word Building Practice

Text

• Practice Exercises

Student DVD-ROM

Learning games

CW

Practice questions

Quiz 1C

• May be used as a worksheet

ASSESSMENTS

Quiz 1C—Chapter Review, Fill-in-Blank questions **Test Bank**—questions

State the importance of correct spelling of medical terms.

Text page: 9; PowerPoint slides: 40-41

LECTURE NOTES

- Only one correct spelling
- If you have doubt of its meaning, always look it up in medical dictionary
- If only one letter is changed, it makes a difference: Example, ileum (small intestine) or ilium (hip bone)
- Some words have same beginning sounds but are spelled differently; examples include:

Sounds like si

psy psychiatry

cy cytology

Sounds like dis

dys dyspepsia

dis dislocation

TEACHING STRATEGIES

• Bring several different medical dictionaries to class; have students practice looking up 10 terms presented in this chapter in medical dictionary.

LEARNING ACTIVITIES

Terminology Checklist

• Can be used to practice pronunciation using Audio Glossary as a reference

• Practice Exercises

Flash cards

• Look at definition and write out/pronounce terms

Student DVD-ROM

- Audio Glossary
- Spelling Challenge game
- Crossword and Word Search puzzles

ASSESSMENTS

Quiz 1B—Spelling Quiz

- 1. carcin/o
- 2. gynec/o
- 3. hydr/o
- 4. laryng/o
- 5. ophthalm/o
- 6. dys-
- 7. hyper-
- 8. pseudo-
- 9. tachy-
- 10. intra-
- 11. infra-
- 12. retro-
- 13. quad-14. nulli-
- 15. para-16. -cise
- 17. -plasia
- 18. -rrhexis
- 19. -ptosis
- 20. -megaly
- 21. -ectasis
- 22. -rrhage
- 23. -centesis
- 24. -graphy
- 25. -rrhaphy

State the rules for determining singular and plural endings.

Text page: 9; PowerPoint slides: 42–43

LECTURE NOTES

- Many medical terms originate from Greek and Latin words
- Rules for forming singular and plural forms of some words follow rules of these languages rather than English
- Example, heart has left atrium and right atrium for total of two *atria*, not two *atriums*
- Other words, such as virus and viruses, change from singular to plural by following English rules

Words ending in	Singular	Plural
-a	vertebra	vertebrae
-ax	thorax	thoraces
-ex or -ix	appendix	appendices
-is	metastasis	metastases
-ma	sarcoma	sarcomata
-nx	phalanx	phalanges
-on	ganglion	ganglia
-us	nucleus	nuclei
-um	ovum	ova
-y	biopsy	biopsies

TEACHING STRATEGIES

Have students brainstorm to come up with additional examples for each type word ending.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Worksheet 1E

• Making Plurals

Text

• Practice Exercises

Student DVD-ROM

- · Learning games
- · Flash cards

ASSESSMENTS

Test Bank—questions

OBJECTIVE 7

Discuss the importance of using caution with abbreviations.

Text page: 10; PowerPoint slide: 44

LECTURE NOTES

- Commonly used in medical profession to save time
- Some abbreviations can be confusing, such as *SM* for simple mastectomy and *sm* for small
- Using incorrect abbreviation can result in problems
- If you have any concern that you will confuse someone by using abbreviation, spell out word instead
- Never acceptable to use one's own abbreviations
- All types of healthcare facilities have lists of approved abbreviations

TEACHING STRATEGIES

- Emphasize to class repercussions of creating their own abbreviations; have students give examples of their own abbreviations to emphasize that these should never be used.
- Ask students to find medical article in newspaper, magazine, or journal and write down all medical abbreviations they find; then have them look up and define each one using medical dictionary.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

No specific activities associated with this objective.

Assessments

Quiz 1C—Chapter Review, True/False questions **Test Bank**—questions

Recognize the documents found in a medical record.

Text pages: 10-11; PowerPoint slides: 45-55

LECTURE NOTES

- Documents details of patient's hospital stay
- Healthcare professionals who contact patient in any capacity complete appropriate reports and add to medical chart
- Results in permanent physical record of patient's day-to-day condition, when and what services he or she received, and response to treatment

History and Physical

Written or dictated by admitting physician; details patient's history, results of examination, initial diagnoses, and physician's plan of treatment

Physician's Orders

Complete list of care, medications, tests, and treatments ordered for patient

Nurse's Notes

Record of patient's care throughout day; includes vital signs, treatment specifics, patient's response to treatment, and patient's condition

Physician's Progress Notes

Physician's daily record of patient's condition, results of examinations, summary of test results, updated assessment and diagnoses, and further plans for patient's care

Consultation Report

Report given by specialist

Ancillary Report

Report from various treatments and therapies, such as rehabilitation, social services, or respiratory therapy

Diagnostic Reports

Results of diagnostic tests performed, such as clinical lab (for example, blood tests) and medical imaging (for example, X-rays and ultrasound)

Informed Consent

Document voluntarily signed by patient or responsible party that clearly describes purpose, methods, procedures, benefits, and risks of procedure

Operative Report

Report from surgeon detailing operation; includes pre- and postoperative diagnosis, specific details of surgical procedure itself, and how patient tolerated procedure

Anesthesiologist's Report

Relates details regarding substances (such as medications and fluids) given to patient, patient's response to anesthesia, and vital signs during surgery

TEACHING STRATEGIES

 Obtain copy of real medical record in which names have been marked out and show it in class.

IRDVD

 See PowerPoint presentation on the Instructor's Resource DVD for video on topic of taking patient histories and on medical transcriptionists.

Guest speaker

• Invite health information management worker to speak to class about medical records and how information is stored.

Pop Questions

• Use Clicker questions as either pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Worksheet 1F

Medical Records

Text

• Practice Exercises

Student DVD-ROM

- Learning games
- · Flash cards

CW

Practice questions

Quiz 1C

May be used as a worksheet

ASSESSMENTS

Quiz 1C—Chapter Review, Matching questions **Test Bank**—questions

Pathologist's Report

Report given by pathologist who studies tissue removed from patient

Discharge Summary

Comprehensive outline of patient's entire hospital stay; includes condition at time of admission, admitting diagnosis, test results, treatments and patient's response, final diagnosis, and follow-up plans

OBJECTIVE 9

Recognize the different healthcare settings.

Text pages: 11-12; PowerPoint slides: 56-60

LECTURE NOTES

Acute Care or General Hospitals

Provides services to diagnose (laboratory, diagnostic imaging) and treat (surgery, medications, therapy) diseases for short period of time

Specialty Care Hospitals

Provide care for very specific types of diseases; for example, psychiatric hospital

Nursing Homes or Long-Term Care Facilities

Provide long-term care for patients who need extra time to recover from illness or injury before returning home, or for persons who can no longer care for themselves

Ambulatory Care, Surgical Centers or Outpatient Clinics

Provide services that do not require overnight hospitalization; services range from simple surgeries to diagnostic testing or therapy

Physicians' Offices

Provides diagnostic and treatment services in private office setting

Health Maintenance Organizations

Provides wide range of services by group of primary-care physicians, specialists, and other healthcare professionals in prepaid system

Home Health Care

Provides nursing, therapy, personal care, or housekeeping services in patient's own home

TEACHING STRATEGIES

 Have students identify local healthcare facilities of each type.

Pop Questions

 Use Clicker questions as either a pretest or posttest quiz to gauge student comprehension during lecture.

LEARNING ACTIVITIES

Text

• Practice Exercises

Student DVD-ROM

- · Learning games
- · Flash cards

CW

Practice questions

Quiz 10

• May be used as a worksheet

ASSESSMENTS

Quiz 1C—Chapter Review, Matching questions **Test Bank**—questions

Rehabilitation Centers

Provide intensive physical and occupational therapy; include inpatient and outpatient treatment

Hospices

Provide supportive treatment to terminally ill patients and their families

OBJECTIVE 10

Understand the importance of confidentiality.

Text page: 12; PowerPoint slides: 61–62

LECTURE NOTES

- Must have firm understanding of confidentiality
- Information relating to patient must be considered privileged; meaning you have moral and legal responsibility to keep all information about patient confidential
- Proper authorization form must be signed by patient before any information may be given out
- Health Insurance Portability and Accountability Act of 1996
 (HIPAA) set federal standards that provide patients with more protection of their medical records and health information, better access to their own records, and greater control over how their health information is used and to whom it is disclosed

TEACHING STRATEGIES

 Have students conduct Internet search and obtain article about impact of HIPAA Privacy Rule on health care facilities.

IRDVD

 See PowerPoint presentation on the Instructor's Resource DVD for video on the topic of HIPAA and protecting patient privacy.

LEARNING ACTIVITIES

No specific activities associated with this objective.

ASSESSMENTS

Quiz 1C—Chapter Review, True/False questions **Test Bank**—questions

Worksheet 1A

New Word Roots Handout

Directions: Write out the meaning for each of the following word roots.

1.	aden/o
	carcin/o
	cardi/o
	chem/o
	cis/o
	dermat/o
	enter/o
8.	gastr/o
	gynec/o
	hemat/o
	hydr/o
12.	immun/o
	laryng/o
14.	morph/o
15.	nephr/o
	neur/o
	ophthalm/o
	ot/o
	path/o
	pulmon/o
	rhin/o
	ur/o

Worksheet 1B

New Prefixes Handout

Directions: Write out the meaning of each of the following prefixes.

1.	a	
2.	an	
3.	ante	
4.	anti	
5.	auto	
6.	brady-	
7.	dys	
8.	endo-	
9.	epi	
10.	eu	
11.	hetero-	
12.	homo-	
13.	hyper-	
14.	hypo-	
15.	infra-	
16.	inter-	
17.	intra-	
23.	per	(Continued)

24.	peri	
	-	
43.	ιπ	
44.	uni	

Worksheet 1C

New Suffixes Handout

Directions: Write out the meaning for each of the following suffixes.

1.	-algia
	-cele
	-cise
	-cyte
5.	-dynia
6.	-ectasis
7.	-gen
8.	-genesis
9.	-genic
10.	-ia
11.	-iasis
12.	-ism
13.	-itis
14.	-logist
15.	-logy
16.	-lysis
17.	-malacia
18.	-megaly
19.	-oma
20.	-osis
	-pathy
	-plasia
23.	-plasm
	(Continued)

24.	-ptosis	
28.	-sclerosis _	
30.	-therapy _	
31.	-trophy	
36.	-pexy	
37.	-plasty	
38.	-rrhaphy _	
39.	-gram	
40.	-graph	
41.	-graphy	
42.	-meter	
43.	-metry	
44.	-scope	

Worksheet 1D

Word Building Practice

Directions: After each word part write out its meaning. Then on the blank line, combine the word parts into a single word and write out its meaning.

1.	aden/o
	-pathy
2	gastr/o
2.	
	-algia
3.	gynec/o
	-logy
4.	nephr/o
	-ectomy
	,
_	
5.	pan-
	cardi/o
	-itis
6.	dys
	-plasia
Dire	ections: Break down each term into its word parts. Then write out the meaning of each word part.
Fina	lly, write out the meaning of the entire word.
7.	rhinorrhea
8.	carcinogenic
9.	otoscope

(Continued)

10.	hypertrophy
11.	epigastric

Worksheet 1E

Making Plurals

Directions: Write the plural form for each singular term given below.

1.	bursa
	thorax
	apex
	carcinoma
	diagnosis
	criterion
	bronchus
8.	diverticulum
	deformity
	larvnx

Worksheet 1F

Medical Records

Directions: Define each document found in a medical record in the space provided.

1.	History and Physical
2.	Physician's Orders
3.	Nurse's Notes
4.	Physician's Progress Notes
5.	Consultation Reports
6.	Ancillary Reports
7.	Diagnostic Reports
8.	Informed Consent
9.	Operative Report
10.	Anesthesiologist's Report
11.	Pathologist's Report
	·
12.	Discharge Summary

Name	Date	Score	

Quiz 1A

New Word Parts Quiz

Directions: Define each of the following word parts.

1.	cis/o
	dermat/o
	hemat/o
	neur/o
	pulmon/o
6.	auto-
	brady-
	inter-
	peri-
	post-
	trans-
	eu-
	poly-
	hemi-
	hypo-
	-cyte
	-osis
	-malacia
	-logy
	-sclerosis
	-rrhea
	-ectomy
	-ostomy
24.	-scope

Name	Date	Score

Quiz 1B

Spelling Quiz

Directions: Write each term as your instructor pronounces it.

1.	
3.	
4.	
2 <i>5</i> . 24.	
24.	

Name	Date	Score

Quiz 1C

Chapter Review

		rue/False Write true or false in the blank before each number.
	_ 1.	The word root is the foundation of a medical term.
	_ 2.	The most common combining vowel is <i>i</i> .
	_ 3.	Prefixes add meaning to a term such as disease.
	_ 4.	Many terms have alternate pronunciations.
	_ 5.	Combining vowels are translated as <i>pertaining to</i> .
	_ 6.	Healthcare professionals have to be careful because some terms have the same beginning sound but are spelled differently.
	_ 7.	Suffixes add meaning to a term such as a procedure.
	_ 8.	A combining form is a word root and its suffix.
	_ 9.	HIPAA sets federal standards to protect a patient's medical record.
	_ 10.	Using one's own abbreviations is a good way to save time.
	_ 11.	It is possible to build a medical term from only a prefix and suffix.
	_ 12.	The only word part found in every medical term is a word root.
		Building Medical Terms Fill-in-the-blanks with the requested information.
1.	In the t	erm <i>otitis</i> , the suffix is, and this suffix means
2.	In the t	erm <i>laryngectomy</i> , the word root is, and this word root means
3.	In the t	erm <i>bradycardia</i> , the prefix is, and this prefix means
4.	Study tl	he term <i>epigastric</i> .
	What is	the prefix and what does it mean?
	What is	the word root and what does it mean?
		(Continued)

	What is the suffix and what does it mean?
	What does the entire term mean?
5.	How many word roots are in the term <i>gastroenteritis?</i>
	What are they?
6.	Build a term for the phrase abnormal softening of a nerve.
7.	Build a term for the phrase discharge from the nose.
8.	Build a term for the phrase study of the eye.
9.	Build a term for the phrase <i>gland tumor</i> .
10.	Does the term built from <i>pulmon/o</i> and <i>-logy</i> require a combining vowel?
	Explain your answer.

PART III: Matching Directions: Match each term on the left with its definition on the right. Enter the letter for your answer in the blank before each number.

	1. history and physical	a.	provides services that do not require overnight hospital stay
	2. acute care hospital	h	reports results of tests performed on patient
	3. consultation report		
	4. home healthcare		provides services in prepaid system
<u>-</u>	5. ancillary report	d.	written by admitting physician, includes initial diagnoses
	6. ambulatory care center	e.	provides long-term care for patients unable to care for themselves
	7. nurse's notes	f	complete list of care, medication, tests, and
	8. rehabilitation center	1.	treatments ordered for patient
	9. diagnostic reports	g.	reports results from studying tissue removed from patient
10	0. specialty care hospital	h.	provides care for very specific types of diseases
1	1. operative report	i.	daily record of patient's condition, results of
12	2. physician's office		tests and updated diagnoses
1	3. discharge summary	j.	record of patient's care throughout day
14	4. hospice	k.	provides services in patient's own home
15	5. pathologist's report	1.	written by specialist who has seen patient
10	6. health maintenance organization	m.	provides services for terminally ill patients
17	7. physician's orders	n.	relates details regarding substances given to patient during surgery
18	8. nursing home	0	written by surgeon
19	9. physician's progress notes		, 0
20	0. anesthesiologist's report	p.	provides intensive physical and occupational therapy
		q.	comprehensive outline of patient's entire hospital stay
		r.	provides services in private office setting
		s.	reports results from various treatments and therapies patient has received
		t.	provides services for a short period of time

Chapter 1 Answer Keys

Worksheet 1A Answer Key

1.	gland
2.	cancer
3.	heart
4.	chemical
5.	to cut
6.	skin
7.	small intestine

- 7. small intestine8. stomach9. female
- 11. water
- 10. blood

- **12.** immune
- 13. voice box
- **14.** shape
- 15. kidney
- **16.** nerve
- **17.** eye
- **18.** ear
- 19. disease
- **20.** lung
- **21.** nose
- **22.** urine, urinary tract

Worksheet 1B Answer Key

- 1. without, away from
- 2. without
- 3. before, in front of
- 4. against
- 5. self
- **6.** slow
- 7. painful, difficult
- 8. within, inner
- **9.** upon, over
- 10. normal, good
- 11. different
- **12.** same
- **13.** over, above
- 14. under, below
- 15. under, beneath, below
- 16. among, between
- 17. within, inside
- 18. large
- 19. small20. new
- **21.** all
- **22.** beside, beyond, near

- 23. through
- 24. around
- **25.** after
- 26. before, in front of
- **27.** false
- 28. backward, behind
- 29. below, under
- **30.** above, excess
- **31.** above
- 32. rapid, fast
- 33. through, across
- 34. beyond, excess
- **35.** two
- **36.** half
- **37.** one
- **38.** many
- **39.** none
- **40.** many
- **41.** four
- 42. partial, half
- **43.** three
- **44.** one

Worksheet 1C Answer Key

- 1. pain
- 2. hernia, protrusion
- **3.** cut
- 4. cell
- 5. pain
- **6.** dilation
- 7. that which produces

- 8. produces, generates
- **9.** producing, produced by
- 10. state, condition
- 11. abnormal condition
- 12. state of
- 13. inflammation
- 14. one who studies

- **15.** study of
- 16. destruction
- 17. abnormal softening
- 18. enlargement, large
- 19. tumor, mass
- 20. abnormal condition
- 21. disease
- 22. development, growth
- 23. formation, development
- 24. drooping
- 25. excessive, abnormal flow
- 26. discharge, flow
- 27. rupture
- 28. hardening
- **29.** narrowing
- **30.** treatment

- 31. nourishment, development
- **32.** puncture to withdraw fluid
- 33. surgical removal
- 34. surgically create an opening
- 35. cutting into
- **36.** surgical fixation
- 37. surgical repair
- 38. suture
- **39.** record or picture
- **40.** instrument for recording
- 41. process of recording
- **42.** instrument for measuring
- 43. process of measuring
- **44.** instrument for viewing
- 45. process of visually examining

Worksheet 1D Answer Key

- 1. aden/o = gland; -pathy = disease; gland disease
- 2. gastr/o = stomach; -algia = pain; stomach pain
- **3.** gynec/o = female; -logy = study; study of female
- **4.** nephr/o = kidney; -ectomy = surgical removal; surgical removal of kidney
- **5.** pan- = all; cardi/o = heart; -itis = inflammation; inflammation of all heart
- **6.** dys- = abnormal, painful; -plasia = development; abnormal development

- 7. rhin/o = nose; -rrhea = flow, discharge; discharge from the nose
- **8.** carcin/o = cancer; -genic = producing; cancer producing
- ot/o = ear; -scope = instrument to view; instrument to view the ear
- **10.** hyper- = excessive; -trophy = development; excessive development
- **11.** epi- = above; gastr/o = stomach; -ic = pertaining to; pertaining to above the stomach

Worksheet 1E Answer Key

- 1. bursae
- 2. thoraces
- 3. apices
- 4. carcinomata
- 5. diagnoses

- **6.** criteria
- 7. bronchi
- 8. diverticula
- 9. deformities
- **10.** larynges

Worksheet 1F Answer Key

- 1. History and Physical—Written or dictated by admitting physician; details patient's history, results of physician's examination, initial diagnoses, and physician's plan of treatment
- Physician's Orders—Complete list of care, medications, tests, and treatments physician orders for patient
- **3. Nurse's Notes**—Record of patient's care throughout day; includes vital signs, treatment specifics, patient's response to treatment, and patient's condition
- **4. Physician's Progress Notes**—Physician's daily record of patient's condition, results of physician's examinations, summary of test results, updated assessment and diagnoses, and further plans for patient's care
- **5. Consultation Reports**—Report given by specialist whom physician has asked to evaluate patient
- **6. Ancillary Reports**—Reports from various treatments and therapies patient has received,

- such as rehabilitation, social services, respiratory therapy, or dietician
- 7. Diagnostic Reports—Results of all diagnostic tests performed on patient, principally from lab and medical imaging (for example: X-rays and ultrasound)
- **8. Informed Consent**—Document voluntarily signed by patient/responsible party that clearly describes purpose, methods, procedures, benefits, and risks of diagnostic or treatment procedure
- Operative Report
 —Report from surgeon detailing operation; includes pre- and postoperative diagnosis, specific details of surgical procedure itself, and how patient tolerated procedure

- Anesthesiologist's Report—Relates details regarding drugs given to patient, patient's response to anesthesia, and vital signs during surgery
- 11. Pathologist's Report—Report given by pathologist who studies tissue removed from patient (for example: bone marrow, blood, or tissue biopsy)
- **12. Discharge Summary**—Comprehensive outline of patient's entire hospital stay; includes condition at time of admission, admitting diagnosis, test results, treatments and patient's response, final diagnosis, and follow-up plans

Quiz 1A Answer Key

- 1. to cut
- 2. skin
- 3. blood
- 4. nerve
- 5. lung
- 6. self
- 7. slow
- 8. among, between
- 9. around
- 10. after
- 11. through, across
- 12. normal, good
- 13. many

- 14. half
- 15. under, below
- 16. cell
- 17. abnormal condition
- 18. abnormal softening
- 19. study of
- 20. hardening
- 21. flow, discharge
- 22. surgical removal
- 23. create a new opening
- 24. instrument to view
- 25. process of measuring

Quiz 1B Answer Key

- 1. carcin/o
- 2. gynec/o
- 3. hydr/o
- 4. laryng/o
- 5. ophthalm/o
- 6. dys-
- 7. hyper-
- 8. pseudo-
- 9. tachy-
- 10. intra-
- 11. infra-
- 12. retro-
- 13. quad-

- 14. nulli-
- 15. para-
- 16. -cise
- 17. -plasia
- 18. -rrhexis
- 19. -ptosis
- 20. -megaly
- 21. -ectasis
- 22. -rrhage
- 23. -centesis
- 24. -graphy
- 25. -rrhaphy

Quiz 1C Answer Key

True/False	9. adenoma
1. True	10. yes; the suffix begins with a consonant
2. False	Matching
3. False	1. d
4. True	2. t
5. False	3. 1
6. True	4. k
7. True	5. s
8. False	6. a
9. True	7. j
10. False	8. p
11. True	9. b
12. False	10. h
Building Medical Terms	11. o
1itis; inflammation	12. r
2. laryng/o; larynx or voice box	13. q
3. brady-; slow	14. m
4. epi-; upon, over; gastr/o; stomach; -ic;	15. g
pertaining to; pertaining to over the stomach	16. c
5. two; gastr/o and enter/o	17. f
6. neuromalacia	18. e
7. rhinorrhea	19. i
8. ophthalmology	20. n