CHAPTER 1 Introduction to Medical Terminology

Learning Objectives

Upon completion of this chapter, you will be able to

- Discuss the four parts of medical terms.
- Recognize word roots and combining forms.
- Identify the most common prefixes and suffixes.
- Define word building and describe a strategy for translating medical terms.
- State the importance of correct spelling of medical terms.
- State the rules for determining singular and plural endings.
- Discuss the importance of using caution with abbreviations.
- Recognize the documents found in a medical record.
- Recognize the different healthcare settings.
- Understand the importance of confidentiality.

Worksheet 1A

New Word Roots Handout

Directions: Write out the meaning for each of the following combining forms.

1.	aden/o
	carcin/o
	cardi/o
	chem/o
	cis/o
6.	dermat/o
7.	enter/o
	gastr/o
	gynec/o
	hemat/o
	hydr/o
	immun/o
	laryng/o
	nephr/o
15.	neur/o
16.	ophthalm/o
	ot/o
	path/o
	pulmon/o
	rhin/o
411.	THIII/O

Worksheet 1B

New Prefixes Handout

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

1.	a
	an
	ante-
	anti
	auto-
	brady
	contra-
	de
	dys
	endo
	epi
	eso
	eu
	ex
	exo
	extra
17.	hetero
	homo
19.	hydro
20.	hyper
21.	hypo
	in
	inter
	intra
25	macro-

26.	micro-
	myo
	neo
	pan-
	para
	per
	peri
	post-
	pre-
	pro-
	pseudo
	retro
	sub-
	supra
	tachy
	trans-
	ultra-
	un
	bi
45.	hemi
	mono
	multi
	nulli
	poly-
	primi
	quadri
	semi-
	tetra-
54.	tri

Worksheet 1C

New Suffixes Handout

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

1.	-algia
2.	-cele
3.	-cyte
	-dynia
	-ectasis
6.	-gen
	-genesis
	-genic
	-ia
	-iasis
	-iatry
	-ism
	-itis
	-logist
	-logy
	-lysis
	-lytic
	-malacia
19.	-megaly
20.	-oid
	-oma
	-osis
	-pathy
	-phobia
	-plasia

26.	-plasm
27.	-ptosis
28.	-rrhage
29.	-rrhagia
30.	-rrhea
31.	-rrhexis
32.	-sclerosis
33.	-stenosis
34.	-therapy
35.	-trophy
36.	-ule
37.	-centesis
38.	-ectomy
39.	-ostomy
40.	-otomy
41.	-pexy
42.	-plasty
43.	-rrhaphy
44.	-gram
45.	-graph
46.	-graphy
47.	-meter
48.	-metry
49.	-scope
50.	-scopy

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
	-algia
3.	gynec/o
	-logy
4.	nephr/o
	-ectomy
5.	pan
	cardi/o
	-itis
6.	dys
	-plasia

Fina	lly, write out the meaning of the entire word.
7.	rhinorrhea
8.	carcinogenic
0	·
9.	otoscope
10.	hypertrophy
11.	epigastric

Directions: Break down each term into its word parts. Then write out the meaning of each word part.

Worksheet 1E

Making Plurals

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

1.	bursa
	thorax
3.	apex
	carcinoma
	diagnosis
6.	criterion
7.	bronchus
8.	diverticulum
9.	deformity
	larynx

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
,•	Diagnostic Reports
8.	Informed Consent
9.	Operative Report
10.	Anesthesiologist's Report
11.	Pathologist's Report
12.	Discharge Summary

Worksheet 1G

Unscramble

Directions: Unscramble each medical term below. A definition for the term is given below each scrambled term.

1.	dolob
	Meaning of combining form hematlo
2.	c o h a t s m
	Meaning of combining form gastr/o
3.	giatnas
	Meaning of prefix <i>anti-</i>
4.	itwutoh
	Meaning of prefix an-
_	. 1
Э.	weteben
	Meaning of prefix inter-
6.	lomrna
	Meaning of prefix eu-
7.	nitailod
	Meaning of suffix -ectasis
0	1
8.	amlreentgen
	Meaning of suffix -megaly
9.	graedhnin
	Meaning of suffix -sclerosis
	Treating of summer sources
10.	iam om fiatnln
	Meaning of suffix -itis

Worksheet 1H

Practice Building Medical Terms

Directions: Use the word parts list below to build a medical term for each definition. In this exercise some of the word parts are used more than once to illustrate how using the same word parts in different combinations produces terms with very different meanings.

Word Parts Category		Meaning					
-al	suffix	pertaining to					
-ary	suffix	pertaining to					
bronch/o	word root	bronchus					
crani/o	word root	skull					
-ectomy	suffix	surgical removal					
intra-	prefix	within					
-itis	suffix	inflammation					
-logy	suffix	study of					
neur/o	word root	nerve					
-plasty	suffix	surgical repair					
pulmon/o	word root	lung					
-scope	suffix	instrument for viewing					
tonsill/o	word root	tonsils					
 surgical removal of study of the lungs 	tonsils						
2. study of the rungs	-						
3. pertaining to withi	n the skull	/					
4. study of nerves	-						
5. surgical repair of the	ne skull						
6. instrument for view	wing the bronchus						
7. inflammation of the	ne tonsils						
8. inflammation of no	erves _		_				
9. pertaining to withi	in the lungs						
10. surgical repair of a	bronchus						

Worksheet 11

Word Search Puzzle

Directions: Find and circle the answer for each fill-in-the-blank question in the word search puzzle.

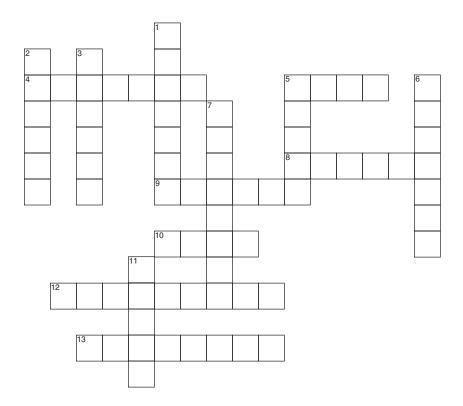
G	R	Q	L	F	Χ	F	В	G	Ν	Т	V
Ε	В	Н	K	Q	G	Q	Ν	Т	Ν	F	В
S	Р	В	С	K	F	1	٧	С	Р	Е	K
Α	D	Ν	Ν	G	W	R	L	W	Т	S	Z
Ε	F	Ν	Υ	0	L	L	Ε	W	J	L	D
S	Χ	Ε	R	D	Н	Ν	Ε	С	K	0	Χ
I	K	R	Ν	С	R	Ε	R	V	0	W	J
D	Α	Z	R	0	Ν	L	Н	С	Χ	R	٧
Ν	Р	Т	Ν	K	Ν	G	Т	K	W	M	D
٧	Ν	Ο	I	Т	С	U	R	Т	S	Е	D
Т	L	М	Н	Α	R	D	Ε	Ν	Ι	Ν	G
M	R	K	Т	С	М	Χ	R	D	Υ	Κ	М

- **1.** The suffix *-pathy* means ______.
- **2.** The suffix *-stenosis* means ______.
- **3.** The suffix *-sclerosis* means ______.
- **4.** The suffix *-gram* means ______.
- **5.** The suffix *-lysis* means ______.
- **6.** The prefix *brady* means ______.
- 7. The prefix *inter* means ______.
- **8.** The prefix *nulli* means ______.
- **9.** The prefix *tri* means ______.
- **10.** The prefix *neo-* means ______.

Worksheet 1J

Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzles. For all answers that are suffixes or prefixes, do not include the hyphen in your answers.



ACROSS

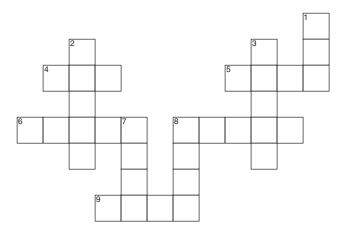
- 4 treatment
- 5 brady-
- 8 fear
- 9 Suffix meaning surgical removal
- 10 tachy-
- 12 hardened
- 13 narrowing

DOWN

- 1 -rrhexis
- 2 drooping
- 3 Suffix meaning enlargement
- 5 Suffix meaning visually examining
- **6** Suffix meaning abnormal softening
- **7** Suffix meaning puncture to withdraw fluid
- **11** Suffix meaning instrument for measuring

Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzles. For all answers that are suffixes or prefixes, do not include the hyphen in your answers.



ACROSS

4 beaneath, under
5 against
6 inside, within
8 excessive, above normal
9 one

DOWN
1 above, upon
2 many
5 between
7 self
8 deficient, below normal

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Name	Date	Score

Quiz 1A

New Word Parts Quiz

Directions: Define each of the following word parts.

1.	cis/o
2.	dermat/o
3.	hemat/o
4.	neur/o
	pulmon/o
	auto
	brady
	inter
	peri
	post-
	trans
	eu
13.	poly-
14.	hemi-
15.	hypo
16.	-cyte
	-osis
	-malacia
	-logy
	-sclerosis
	-rrhea
	-ectomy
	-ostomy
	-scope
25.	-metry

Name	Date	Score

Quiz 1B

Spelling Quiz

Directions: Write each term as your instructor pronounces it.

1.	
20.	
21.	
25	

Name	Date	Score

Quiz 1C

Chapter Review

PART I: True/False

Directions:	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 .
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 a suffix.
12	The only word part found in every medical term is a word root.

PART II: Building Medical Terms

Directions: Fill in the blanks with the requested information. 1. In the term *otitis*, the suffix is ______, and this suffix means _____. 2. In the term *laryngectomy*, the word root is ______, and this word root means **3.** In the term *bradycardia*, the prefix is ______, and this prefix means **4.** Study the term *epigastric*. What is the prefix and what does it mean? What is the word root and what does it mean? What is the suffix and what does it mean? What does the entire term mean? 5. How many word roots are in the term *gastroenteritis*? 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 *gland tumor*.
- **10.** Does the term built from *pulmon/o* and *-logy* require a combining vowel? _______

 Explain your answer. ______

PART III: Matching

Directions: Match each term on the left with its definition below. 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	ь.	Reports results of tests performed on patient
 3.	consultation report	c.	Provides services in prepaid system
 4.	home healthcare	d.	Written by admitting physician, includes ini-
 5.	ancillary report		tial 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 treatments ordered for patient
 8.	rehabilitation center	g.	Reports results from studying tissue removed
 9.	diagnostic reports	3	from patient
 10.	specialty care hospital	h.	Provides care for very specific types of diseases
 11.	operative report	i.	Daily record of patient's condition, results of tests, and updated diagnoses
 12.	physician's office	j.	Record of patient's care throughout day
 13.	discharge summary	k.	Provides services in patient's own home
 14.	hospice	1.	Written by specialist who has seen patient
 15.	pathologist's report	m.	Provides services for terminally ill patients
 16.	health maintenance organization	n.	Relates details regarding substances given to patient during surgery
17.	physician's orders	0.	Written by surgeon
	nursing home	р.	Provides intensive physical and occupational therapy
 19.	physician's progress notes	q.	Comprehensive outline of patient's entire hospital stay
 20.	anesthesiologist's report	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 11. water 12. immune 2. cancer 13. voice box **3.** heart 4. chemical **14.** kidney 5. to cut **15.** nerve 6. skin **16.** eye 7. small intestine **17.** ear 8. stomach 18. disease 9. female **19.** lung 10. blood **20.** nose

Worksheet 1B Answer Key

without, away from
 without
 all
 before, in front of
 beside, beyond, near, two like parts of a pair

7. against8. without34. before, in front of35. before

9. painful, difficult, abnormal36. false

 10. within, inner
 37. backward, behind

 11. upon, over
 38. below, under

 12. inward
 39. above

 13. normal, good
 40. rapid, fast

 14. external, outward
 41. through, across

 14. external, outward
 41. through, across

 15. outward
 42. beyond, excess

 16. outside of
 43. not

 17. different
 44. two

 18. same
 45. half

 19. water
 46. one

 20. over, above
 47. many

 21. under, below
 48. none

 22. not
 49. many

 23. among, between
 50. first

 24. within, inside
 51. four

 25. large
 52. partial, half

 26. small
 53. four

 27. to shut
 54. three

Worksheet 1C Answer Key

- 1. pain
- 2. hernia, protrusion
- **3.** cell
- 4. pain
- 5. dilation
- 6. that which produces
- 7. produces, generates
- 8. producing, produced by
- 9. state, condition
- 10. abnormal condition
- 11. medical treatment
- 12. state of
- 13. inflammation
- 14. one who studies
- 15. study of
- 16. destruction
- 17. destruction
- 18. abnormal softening
- 19. enlargement, large
- 20. resembling
- 21. tumor, mass, swelling
- 22. abnormal condition
- **23.** disease
- **24.** fear
- **25.** development, growth

- 26. formation, development
- **27.** drooping
- 28. excessive, abnormal flow
- 29. abnormal flow condition
- 30. discharge, flow
- **31.** rupture
- 32. hardening
- 33. narrowing
- 34. treatment
- 35. nourishment, development
- **36.** small
- 37. puncture to withdraw fluid
- 38. surgical removal
- 39. surgically create an opening
- 40. cutting into
- 41. surgical fixation
- 42. surgical repair
- 43. suture
- 44. record or picture
- 45. instrument for recording
- **46.** process of recording
- 47. instrument for measuring
- 48. process of measuring
- **49.** instrument for viewing
- 50. process of visually examining

Worksheet 1D Answer Key

- 1. aden/o = gland; -pathy = disease; gland disease
- 2. gastr/o = stomach; -algia = pain; stomach pain
- 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
- **9.** 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
- **2. 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
- 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 (e.g., 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
- 9. Operative Report—Report from surgeon detailing operation; includes pre- and postoperative diagnosis, specific details of surgical procedure itself, and how patient tolerated procedure
- **10. 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 (e.g., 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

Worksheet 1G Answer Key

- 1. blood
- 2. stomach
- 3. against
- 4. without
- 5. between

- 6. normal
- 7. dilation
- 8. enlargement
- 9. hardening
- 10. inflammation

Worksheet 1H Answer Key

- 1. tonsillectomy
- 2. pulmonology
- 3. intracranial
- 4. neurology
- 5. cranioplasty

- **6.** bronchoscope
- 7. tonsillitis
- 8. neuritis
- 9. intrapulmonary
- 10. bronchoplasty

Worksheet 1I Answer Key

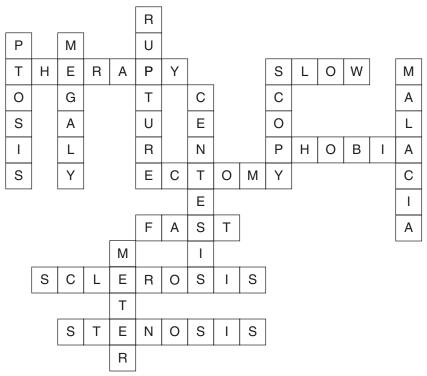
- 1. disease
- 2. narrowing
- 3. hardening
- 4. record
- 5. destruction

- **6.** slow
- 7. between
- 8. none
- 9. three
- **10.** new

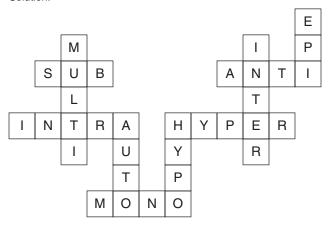


Worksheet 1J Answer Key





Solution:



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

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.** 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
- **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

- 1. True
- 2. False
- 3. False
- **4.** True
- 5. False
- **6.** True
- 7. True

- 8. False
- 9. True
- 10. False
- **11.** True
- 12. False

Building Medical Terms

- 1. -itis; inflammation
- 2. laryng/o; larynx or voice box
- 3. brady-; slow
- **4.** epi-; upon, over; gastr/o; stomach; -ic; pertaining to; pertaining to over the stomach
- 5. two; gastr/o and enter/o

- 6. neuromalacia
- 7. rhinorrhea
- 8. ophthalmology
- 9. adenoma
- 10. yes; the suffix begins with a consonant

Matching

- **1.** d
- **2.** t
- **3.** 1
- **4.** k
- **5.** s
- **6.** a
- 7. j
- 8. p9. b
- **10.** h

- **11.** o
- **12.** r
- **13.** q
- **14.** m
- **15.** g
- **16.** c
- **17.** f
- **18.** e
- 19. i20. n