# Answer Key

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# **Answer Key—Lesson 2**

### **Practice Exercise 2-1**

- 1. The foundation word part of a medical term is called a **root word**.
- 2. The word part that is attached to the end of a term is a **suffix**.
- 3. In a medical term, a prefix is found at the **beginning**.
- 4. The word part that joins a root word and a suffix is a **combining vowel**.
- 5. The word part that is attached to the beginning of a term is a **prefix**.
- 6. In a medical term, a suffix is found at the **end**.
- 7. A suffix is attached to the word part called the **root word or combining vowel**.
- 8. A prefix is attached to the word part called the **root word**.
- 9. A combining vowel combines a root word and a **suffix or another root word**.
- 10. In the term trans/script/ion/ist, the word part /ist is a **suffix**.
- 11. In the term trans/script/ion, the word part trans/ is a **prefix**.
- 12. In the term bi/o/logy, the word part /o/ is called a **combining vowel**.

### **Practice Exercise 2-2**

Root Word Meaning

1. append/o,

appendic/o

appendix

2. arthr/o

joint

3. derm/o

skin

4. muc/o

mucus

5. hydr/o

water, fluid

6. norm/o

proper, rule

7. neur/o

nerve

8. lith/o

stone

9. therm/o

heat

10. path/o

disease

11. pulmon/o

lung

12. enter/o

small intestine

13. bi/o

living thing, life

14. hepat/o

liver

15. gen/o

giving rise to, creating

16. my/o

muscle

17. tens/o

pressure

18. secti/o

cut into

19. ren/o

kidney

20. hem/o; hemat/o

blood

# Answer Key—Lesson 3

## **Practice Exercise 3-1**

Prefix		Meaning
1.	a/	without, absent
2.	ad/	toward, near
3.	ec/, ex/, ecto/, exo/	outside, outer
4.	infra/	inferior to, below
5.	micro/	small, tiny
6.	peri/	around, surrounding
7.	retro/	behind, back
8.	hypo/	decreased, below
9.	dia/	through
10.	tachy/	faster than usual
11.	sub/	under, inferior to
12.	pre/	before
13.	hemi/	half
14.	anti/	against, opposed
15.	en/, endo/	within
16.	macro/	gross, large
17.	pan/	all, every
18.	ab/	away from
19.	post/	after, past
20.	de/	lessened, removed

### **Practice Exercise 3-2**

1. /ectomy removal

2. /gram picture, record, tracing

3. /logy study of

4. /ist one who does

5. /megaly enlargement

6. /stasis control, hold in

7. /ic; /al; /ary; /tic; /ous; /ar; /eal; /iac; /ior; /ac relating to

8. /ium, /um structure

9. /meter distance measure, instrument to measure

10. /grade **go** 

11. /scope instrument to see through or with

12. /oid like

13. /emia, /hemia throughout the blood

14. /centesis withdrawing fluid

15. /opsy look at

16. /algia pain

17. /pathy disease process

18. /osis pathologic condition

19. /itis inflammation

20. /ia condition

### **Answer Key—Lesson 4**

#### **Practice Exercise 4-1**

1. cardi/o/megaly enlargement of the heart

2. acr/o/megaly enlargement of the extremities (tips)

3. macro/gloss/ia large (gross) tongue

4. hist/o/logy study of tissue

5. para/ren/al relating to beside (beyond) the kidney

6. peri/ren/al relating to around (surrounding) the kidney

7. a/leuk/o/cyt/osis condition of the absence of white cells

8. thorac/o/centesis withdrawing fluid from the chest

9. gastr/ectomy removal of the stomach

10. hemi/hepat/ectomy removal of half of the liver

11. hem/o/stasis control (hold in) blood

12. neur/itis inflammation of nerve(s)

13. appendic/itis inflammation of the appendix

14. hepat/itis inflammation of the liver

15. therm/o/meter instrument to measure heat

16. bi/opsy look at living thing (life)

17. crani/um (structure of the) skull

## **Practice Exercise 4-2**

	Word Part	Meaning
1.	carcin/o	cancer of gland tissue
2.	ox/o	oxygen
3.	laryng/o	voicebox, larynx
4.	bi/	two
5.	/genesis	creating
6.	/malacia	softening
7.	syn/; sym/	together with
8.	gynec/o	female
9.	sarc/o	nongland tissue, flesh
10.	vit/o	living, alive
11.	auto/	self
12.	/drome	run
13.	chem/o	chemical, drug
14.	con/	with
15.	meta/	change, beyond
16.	ultra/	beyond, higher than
17.	maxill/o	upper jaw
18.	nect/o	bind
19.	/oma	tumor, mass
20.	/blast	undifferentiated, original

# **Practice Exercise 4-3**

	Divide	Meaning
1.	oste/o/malacia	softening of bone
2.	sarc/oma	tumor or mass of nongland tissue
3.	carcin/oma	cancer tumor or mass of gland tissue
4.	con/nect	bind with
5.	maxill/ary	relating to the upper jaw
6.	laryng/itis	inflammation of the voicebox
7.	vit/al	relating to living, alive
8.	cost/al	relating to the rib(s)
9.	son/o/gram	picture or record of sound
10.	carcin/o/genesis	creating cancer of gland tissue
11.	chem/o/therapy	treatment with chemicals (or drugs)
12.	post/partum	after labor (delivery)
13.	maxill/o/plasty	restore the upper jaw by surgery
14.	crani/o/tome	cutting instrument for the skull
15.	hyper/trophy	increased growth by size or nourishment
16.	klept/o/mania	obsession with stealing

### **Answer Key—Lesson 5**

#### **Practice Exercise 5-1**

Medical Term Meaning

1. perirenal relating to surrounding the kidney

2. osteoarthritis inflammation of joint, bone

3. gastrotomy cut into or slice the stomach

4. carcinoid like cancer of gland tissue

5. sarcoid like nongland tissue

6. pulmonic relating to the lung

7. hepatic relating to the liver

8. macroglossal relating to a large tongue

9. pancytopenia lack of cells of all kinds

10. osteal relating to bone

11. mucous relating to mucus

12. thrombosis condition of having a clot

# **Practice Exercise 5-2**

1.	Meaning:	one who studies females
	Word Parts	
	prefix:	
	root(s):	gynec/o; log/o
	suffix:	<u>/ist</u>
	Medical Term:	gynecologist
2.	Meaning:	control blood
	Word Parts	
	prefix:	
	root(s):	hem/o
	suffix:	/stasis
	Medical Term:	hemostasis
3.	Meaning:	relating to around the kidney
	Word Parts	
	prefix:	peri/
	root(s):	ren/o
	suffix:	/al
	Medical Term:	perirenal
4.	Meaning:	enlargement of the liver
	Word Parts	
	prefix:	
	root(s):	hepat/o
	suffix:	/megaly
	Medical Term:	<u>hepatomegaly</u>

5.	Meaning:	inflammation of vessels
	Word Parts	
	prefix:	
	root(s):	angi/o
	suffix:	/itis
	Medical Term:	angiitis
6.	Meaning:	inflammation of the appendix
	Word Parts	
	prefix:	
	root(s):	appendic/o
	suffix:	<u>/itis</u>
	Medical Term:	appendicitis
7.	Meaning:	removal of the spleen
	Word Parts	
	prefix:	
	root(s):	splen/o
	suffix:	<u>/ectomy</u>
	Medical Term:	splenectomy
8.	Meaning:	lack of cells of all kinds
	Word Parts	
	prefix:	pan/
	root(s):	cyt/o
	suffix:	/penia
	Medical Term:	<u>pancytopenia</u>

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### **Answer Key—Lesson 6**

#### **Practice Exercise 6-1**

Divide the Term Meaning

1. chem/ist one who specializes in chemicals

2. crani/o/tomy cut into the skull

3. laryng/ectomy remove the voicebox

4. endo/derm within the skin or inside tissue

5. peri/hepat/ic relating to around the liver

6. poly/gastr/ia condition of many stomachs

7. thromb/itis inflammation of a clot

8. sub/hepat/ic relating to under the liver

9. retro/gastr/ic relating to behind the stomach

10. myel/oid like the marrow or spinal cord

11. my/o/pathy muscle disease

12. ven/ous relating to a vein or the veins

13. nat/al relating to birth

14. klept/o/maniac relating to obsessive stealing

15. neur/osis condition of the nerves

16. electr/ic relating to electrical activity

17. arteri/al relating to an artery

18. cyst/ic relating to a sac of fluid/bladder

### **Practice Exercise 6-2**

Word Part Meaning

1. lapar/o abdomen

2. pneum/o, pneumon/o air, gas, lung air sacs

3. ana/ positive, up

4. /physis grow

5. /pnea breathing

6. /rrhea flow

7. eu/ normal, even, good

8. supra/ above, superior to

9. semi/; hemi/ half

10. /ptosis drooped, slipped down

11. pro/; ante/ before

12. pseudo/ false

13. tom/o cut, slice or a hole

14. trache/o windpipe

15. tonsill/o tonsils

16. /lysis break down, dissolve

17. dys/ bad, labored

18. rhin/o nose

19. /phoria bear

20. /crine secrete

# **Answer Key—Lesson 7**

### **Practice Exercise 7-1**

Singular English Plural

1. therapy therapies

2. dermatologists

3. appendectomy appendectomies

4. microscope microscopes

5. biopsy biopsies

6. **syndrome syndromes** 

7. larynx larynxes

8. virus viruses

9. gash gashes

10. starch starches

11. dwarf dwarves

12. six sixes

### **Practice Exercise 7-2**

Singular	Medical Plural

1. synthesis syntheses

2. larynx larynges

3. carcinoma carcinomata

4. thorax thoraces

5. cardium cardia

6. cranium crania

7. mucus mucus\*

8. virus viruses\*

9. ganglion ganglia

10. index indices

<sup>\*</sup>Please note that these terms don't follow the medical plural rule.

### **Practice Exercise 7-3**

Divide the Term Meaning

1. necr/opsy look at the dead (death)

2. thyr/oid like a shield

3. eu/phoria bear evenly, well

4. ot/ic relating to the ear

5. ophthalm/ic relating to the eye

6. nephr/ic relating to the kidney

7. trache/o/malacia softening of the windpipe

8. a/pnea absence of breathing

9. per/cutane/ous relating to through the skin surface

10. vertebr/al relating to the back bones

11. tox/ic relating to poison

12. phag/o/cyt/ic relating to cells that swallow

13. chondr/al relating to cartilage

14. cervic/al relating to the neck

15. necr/o/tic relating a condition of death

16. gnos/tic relating to a condition of knowledge

### **Practice Exercise 7-4**

1. Meaning: **cell that swallows** 

Word Parts

prefix:

root(s): **phag/o**suffix: **/cyte**Medical Term: **phagocyte** 

2. Meaning: **study of form or structure** 

Word Parts prefix:

root(s): morph/o suffix: /logy

Medical Term: morphology

3. Meaning: false pregnancy

Word Parts

prefix: **pseudo/** 

root(s):

suffix: /cyesis

Medical Term: pseudocyesis

4. Meaning: **bladder hernia** 

Word Parts

prefix:

root(s): **cyst/o**suffix: **/cele**Medical Term: **cystocele** 

5. Meaning: restore the nose by surgery

Word Parts

prefix:

root(s): rhin/o
suffix: /plasty
Medical Term: rhinoplasty

6. Meaning: secrete within

Word Parts

prefix: endo/

root(s):

suffix: /crine
Medical Term: endocrine

7. Meaning: remove the tonsils

Word Parts

prefix:

root(s): tonsill/o suffix: /ectomy

Medical Term: tonsillectomy

8. Meaning: flow through

Word Parts

prefix: dia/

root(s):

suffix: /rrhea
Medical Term: diarrhea

9. Meaning: study of nature or natural things

Word Parts

prefix:

root(s): physi/o suffix: /logy

Medical Term: **physiology** 

## **Answer Key—Lesson 8**

#### **Practice Exercise 8-1**

Eponym	Dictionary Word	ł

1. Epstein-Barr virus **virus** 

2. Halsted('s) incision incision

3. Legg('s) disease **disease** 

4. Miller-Abbott tube **tube** 

5. Pauly('s) point **point** 

6. Hodgkin('s) disease **disease** 

7. Hodgkin('s) sarcoma sarcoma

8. Gordon('s) reflex reflex

9. Laennec('s) cirrhosis cirrhosis

10. Cantor tube **tube** 

11. Kaposi('s) sarcoma sarcoma

12. Babkin reflex reflex

13. McBurney('s) point **point** 

14. Colles(') fracture **fracture** 

15. Cooley('s) anemia anemia

16. West Nile virus virus

17. Erb('s) palsy palsy

18. Charcot('s) syndrome **syndrome** 

# **Practice Exercise 8-2**

1.	disease	Alzheimer('s), Hodgkin('s), Hodgson('s), Hirschsprung('s), Legg('s)
2.	palsy	Bell('s), Erb('s), Klumpke('s), Todd('s)
3.	anemia	Cooley('s), Lederer('s), Dresbach('s), Chvostek('s)
4.	fracture	Potts, Colles('), Monteggia('s), Galeazzi('s), Jefferson('s)
5.	point	McBurney('s), Brewer('s), Addison('s), Pauly('s), Mackenzie('s).
6.	incision	Roux-en-Y, Pfannenstiel('s), Halsted('s), Rollet('s), McBurney('s)
7.	reflex	Babinski('s), Gordon('s), Babkin, Barkman('s), Brudzinski('s)
8.	tube	Miller-Abbott, Kelly('s), Mueller-Frazier, Ochsner('s), Cantor
9.	syndrome	Cushing('s), Curtius('), Charcot('s), Cornelia de Lange('s), Leriche('s)
10.	sarcoma	Hodgkin('s), Kaposi('s), Kupffer cell, Abernethy('s), pseudo-Kaposi
11.	respiration	Corrigan('s), Cheyne-Stokes, Austin Flint, Kussmaul('s)
12.	virus	Epstein-Barr, Brunhilde, West Nile, Powassan, Mengo
13.	cirrhosis	Laënnec('s), Hanot('s), Budd('s), Charcot('s), Todd('s)

### **Practice Exercise 8-3**

10. intra/muscular

1. blood urea nitrogen **BUN** 2. white blood count **WBC** 3. Venereal Disease Research Laboratory **VDRL** 4. rheumatoid arthritis RA 5. human immunodeficiency virus HIV **PDR** 6. Physicians' Desk Reference 7. (The) pupils (are) equal, round (and) reactive (to) light (and) accommodation. **PERRLA EEG** 8. electr/o/encephal/o/gram **HEENT** 9. head, eyes, ears, nose (and) throat

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# **Practice Exercise 8-4**

		Acronyn
1.	no significant disease	NSD
2.	nothing by mouth	NBM
3.	nil per os (means nothing by mouth)	NPO
4.	milk of magnesia	MOM
5.	muscular dystrophy	MD
6.	multiple sclerosis	MS
7.	intensive care unit	ICU
8.	lactated Ringer's solution	LRS
9.	leave of absence	LOA
10.	high blood pressure	HBP
11.	for your information	FYI
12.	arteriovenous	AV
13.	sexually transmitted disease	STD
14.	below knee amputation	BKA
15.	hypertension	HTN

### **Answer Key—Lesson 9**

#### **Practice Exercise 9-1**

1. The patient was seen today and his  $CO_2$  was 33.

carbon dioxide

2. His medications were changed to Lasix 40 mg p.o. b.i.d.

milligrams twice a day by mouth

3.  $O_2$  2 L per nasal prongs begun with improvement.

Oxygen

liters

4. Patient is n.p.o. until the GB study is completed.

nothing by mouth

gallbladder

5. ABDOMEN: NBS. No hepatomegaly or splenomegaly.

Normal bowel sounds

6. Laboratory studies confirm the diagnosis of EBV.

Epstein-Barr virus

7. U/A: Sp. gr. 1.023. No white cells in the urine.

Urinalysis

Specific gravity

8. Normal TPR.

temperature, pulse and respiration

9. The leukemia responds to bleomycin 15 U and IM injections.

units intramuscular

10. R/O osteoarthritis. Repeat CBC. Last specimen q.n.s.

Rule out complete blood count quantity not sufficient

11. Order IV fluids stat. I will notify LMD of the patient's condition.

intravenous local doctor

at once

12. The neurologic examination showed a decrease in the DTRs.

#### deep tendon reflexes

13. The mass measured 1 cm  $\times$  7 mm.

#### centimeter millimeters

14. The specimen was examined by EM. NSD.

#### electron microscope No serious disease

15. The patient is a 72-YO white male in no obvious distress. **-year-old** 

## **Practice Exercise 9-2**

Medical Term	Slang Word
1. d – siblings, brothers and sisters	sibs
2. i – preparation	prep
3. a – medications	meds
4. e – abortion	ab
5. <b>k – examination</b>	exam
6. <b>c – pathology</b>	path
7. j – appendectomy, appendicitis	арру
8. f – primipara, one birth	primip
9. <b>b – nullipara, no births</b>	nullip
10. <b>g – subcutaneous</b>	subcue
11. <b>h</b> – temperature	temp

### **Practice Exercise 9-3**

- 1. The patient was given Compazine fifteen mg p.r.n. 15
- 2. Dr. Jones' office is at 323 twenty seventh Street. 27th
- 3. The final count was three needles and twenty sponges. 3 20
- 4. The skin incision was closed with five-0 silk suture. **5-0 (not 00000)**
- 5. Urinalysis: four + protein, trace sugar, many white cells. 4+
- 6. The kidney measured ten x six cm. 10 6
- 7. Cranial nerves three through eleven were examined. III, XI or 3, 11
- 8. Exploratory surgery showed the cancer was stage four. **IV**
- 9. The creatinine was point five. **0.5**
- 10. The specific gravity was one point oh three two. **1.032**
- 11. He had burns over one-third of his body. **one-third**
- 12. Take one and one-half the regular amount. 1-1/2 or 1½
- 13. Give digitalis one-half gr every 4 hours. **0.5**

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### **Practice Exercise 9-4**

- 1. Temperature °C or °F
- 2. Number #
- 3. Sutures –
- 4. Over (blood pressure)/
- 5. And (between capitals) &
- 6. Minus –
- 7. Vision /
- 8. Ratio:
- 9. The patient's blood pressure was **110/90**.
- 10. Temperature is **99** °**F**.
- 11. Weight 185 pounds
- 12. The incision was closed with **2-0 or 00** silk sutures.
- 13. The mass measured  $18.5 \times 9.2 \times 3$  cm.
- 14. PAST MEDICAL HISTORY: **D&C. A&P** repair. 1 2
- 15. The pedal reflexes were **1+**.
- 16. The A/G ratio was **1:1.9**.
- 17. The blood sugar range was **40-60**.
- 18. VISION: **20/25**.

<sup>1</sup> D&C is the acronym for dilation and curettage.

 $<sup>^{2}~</sup>$  A&P is the acronym for anterior and posterior and refers specifically to the vaginal walls here.

## **Answer Key—Lesson 10**

#### **Practice Exercise 10-1**

Check your underlined letters or words against the bolded letters or words in the following.

#### **CHIEF COMPLAINT**

The patient is an elderly white male with far advanced carcinoma of the lung. He has advanced metastases to the brain and has deteriorated.

#### **PAST HISTORY**

Noncontributory.

**ALLERGIES: ALLERGIC TO PENICILLIN** 

#### PHYSICAL EXAMINATION

**HEENT: PERRLA**. Sclerae clear. **CARDIAC:** Clear to auscultation.

**ABDOMEN**: **NBS**. Liver and spleen enlarged.

#### **ASSESSMENT**

- 1. Hepatosplenomegaly.
- 2. Bronchogenic carcinoma, advanced.

#### **PLAN**

Refer to neurology department for **D**r. Jones to evaluate. Continue treatment with **V**alium 25 mg and aspirin 325 mg.

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# **Practice Exercise 10-2**

		Rule
1.	PLAN 1. CBC. 2. Urinalysis. 3. Admit to hospital.	53
2.	The patient had no pain or tenderness.	52
3.	Chest film normal. CBC normal. Urinalysis normal.	52
4.	The patient had a positive VDRL three months ago.	52
5.	DISCHARGE DIAGNOSIS  1. Microcephaly.  2. Tracheomalacia.  3. Hepatomegaly.	53 53 53
6.	Tell the patient that t.i.d. means three times a day.	56, 52
7.	Take 15 mg p.o. p.r.n.	56
8.	The chemical symbol for water is $H_2O$ .	52, 55
9.	NaCl is the chemical symbol for salt.	52, 55
10.	The UCLA team ordered an ELISA.	52, 55

# **Practice Exercise 10-3**

		Rule
1.	There is weakness in both arms, left greater than right.	59
2.	The patient is oriented to time, place and person.	60
3.	There is redness, swelling and loss of motion.	60
4.	Colles(') fracture is usually seen in adults. (Colles is also acceptable per <i>AHDI</i> .)	68
5.	Of course, call me if you see Cheyne-Stokes respiration.	61
6.	I will use either #'s 4-0 or 5-0 silk sutures.	70
7.	The patient's lab results are negative.	66
8.	The platelet count was 450,000.	62
9.	For example, there should be a good result in one week.	61
10.	No shortness of breath, cardiac or breast enlargement.	60
11.	The patient experienced short, labored, rattling respiration.	57

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### **Practice Exercise 10-4**

1. The patient has a Smith-Jones valve in her heart. She was placed on medications as follows: Coumadin, digoxin and Lasix.

2. The titer was 3:4. This is two times greater than normal.

- 3. DISCHARGE DIAGNOSIS
  - 1. Congestive heart failure.
  - 2. Atrial fibrillation.
  - 3. Chronic airway obstruction.

4. There was swelling of both hands, the right greater than the left. Increase Lasix to 80 mg p.o. daily.

5. ABDOMEN: The abdomen was flat, nontender, soft. The liver, spleen and kidneys are not enlarged. NBS.

6. At 5:00 p.m., the patient arrived at the hospital, i.e., at the emergency department. (ie is also acceptable per *AHDI*.)

7. Urinalysis: Sp. gr. 1.020, white cells negative, pH 7.4.

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