Worksheet Answer Key Concepts, Suffixes, and Prefixes of Medical Terminology

True or False

Examine the following statements. Identify if the statement is true or false	True False
1. Medical terminology is based mainly on Greek and Latin words.	\checkmark
2. A suffix establishes a medical word's basic meaning.	v
3. A root modifies a prefix's meaning.	v
4. The root cardi means "heart."	\checkmark
5. Neur/o is an example of a compound word.	\checkmark
6. USA is an acronym.	\checkmark
7. The word cerebrospinal is a compound word.	\checkmark
8. In the word pharyngitis, the suffix is -itis.	\checkmark
9. Medical terminology varies greatly throughout the world.	\checkmark
10. The adjective for coccyx is coccyical.	\checkmark
11. A suffix is a word ending that modifies a root.	✓
12. The suffix –ous means "pertaining to."	v
13. The plural of embolus is embols.	v
14. In the word epileptiform, the suffix means "resembling."	~



	True	False
15. Vertebras is the correct plural form for bones of the spine.		~
16. The singular form of omenta is omentum.	~	
17. The suffix -logy refers to a field of study or a specialty.	~	
18. Podiatry is the study and treatment of mental disorders.		~
19. The word necrotic is an adjective.	~	
20. Anematology is a medical specialty devoted to the study of blood.		~
21. A prefix appears before a root.	~	
22. The prefix in monocular means "one."	\checkmark	
23. The opposite of abduct is antiduct.		✓
24. The prefix in erythrocyte means "round."		✓
25. Two monosaccharides form a disaccharide.	~	
26. The opposite of poly- is oligo	~	
27. Endoderm is superficial to ectoderm.		✓
28. The term hypoglycemia means "high blood sugar."		✓
29. A megalocyte is larger than a microcyte.	~	
30. A right-handed person is dextromanual.	~	

Fill-in-the-Blank

Complete the sentence with the correct term(s).	Answers
31. The fundamental unit of each medical word is the	root
32. A short word part added at the end of a root is a(n)	suffix
33. A short word part added before a root is a(n)	prefix
34. A root with a vowel added to aid in pronunciation is a(n)	combining form
35. A compound word that means "pertaining to the heart and blood vessels" is	cardiovascular
36. The vowel in the word pet is a(n) vowel.	short
37. The first vowel in the word rise is a(n) vowel.	long
38. Combine hem/o meaning "blood" and rhage meaning "bursting forth" to form a word that means "a bursting forth of blood":	hemorrhage
39. Combine the root psych meaning "mind" with -logy meaning "study of" to form a word that means "study of the mind":	psychology
40. abbreviation formed from the first letter of each word in a phrase is $a(n)$	acronym
41. The root cardi with a vowel added to aid pronunciation forms cardi/o, which is termed a(n)	combining form
42. The adjective of pharynx is	pharyngeal
43. The -itis in pleuritis is the word part called a(n)	suffix
44. The pn in the word pneumonia is pronounced like the letter	n
45. The rh in the word rhinitis is pronounced like the letter	r
46. The name given to a root combined with a vowel is	combining form
47. A gastroduodenostomy is a surgical procedure that creates a connection between the stomach and the duodenum. The part of the word gastroduodenostomy that means "surgical opening" is the	suffix
48. A word part added to the end of a root to modify its meaning is a(n)	suffix
49. Most medical word parts come from Greek and	Latin
50. organ of excretion (roots: ren/o, nephr/o) is the	kidney
51. A letter inserted between the root and the next word part to aid in pronunciation is a(n)	vowel
52 means pertaining to the coccyx.	Coccygeal
53. A dropping, downward displacement is	ptosis
54. A word ending that modifies a root is a(n)	suffix

55. The suffix –logy means ₋ .	study of
56. A physician who specializes in study and treatment of the skin (dermatology) is a(n)	dermatologist
57. The word that means "pertaining to a vein" (root: ven) is	venous
58. The word that means "pertaining to saliva" is	salivary
59. The adjective for neurosis is	neurotic
60. The adjective for pelvis is	pelvic
61. The adjective nuclear pertains to a(n)	nucleus
62. The plural of diagnosis is	diagnoses
63. The singular of vertebrae is	vertebra
64. A specialist who studies and treats the feet is a(n)	podiatrist
65. The word that means "pertaining to the heart" is	cardiac
66. The adjective that means "pertaining to respiration" is	respiratory
67. The plural of ganglion is	ganglia
68. The suffix -sis means	condition of
69. The singular of phalanges is	phalanx
70. The plural of matrix is	matrices
71. The singular form of foci is	focus
72. The singular form of paralyses is	paralysis
73. The suffix that means "pertaining to" in the word nervous is	ous
74. A dark pigment that gives color to the hair and skin and protects the skin against the sun's radiation is	melanin
75 is a bluish discoloration of the skin due to lack of oxygen.	Cyanosis
76. To separate tissues for anatomic study is to	dissect
77. Introduction of blood or blood components into the bloodstream is	transfusion
78 means "having equal sides."	Equilateral
79 means "of uniform composition."	Homogeneous
80 means of "extremely small size—visible only with the aid of the microscope."	Microscopic
81. Another name for the lumen of an organ or vessel is	central opening

82. Development of a blood clot within a vessel is		thrombosis
83. The care and treatment of children is	·	pediatrics
84. The study of the nervous system is		neurology
85 nucleus."	means "pertaining to a	Nuclear
86anatomy."	means "pertaining to	Anatomic
87 phalanx.	is the plural form of	Phalanges
88. The process of determining the cause and	nature of an illness is	diagnosis
89. A word part that appears in front of a root	t is a(n)	prefix
90. Trifocal glasses have	lenses.	three
91. The term cyanotic pertains to the color		blue
92. A xanthoma is a growth that is named for	the color	yellow
93. Erythrocytes are named for the color		red
94. The prefixes anti- and contra- mean		against
95. The opposite of permeable is		impermeable
96. The prefixes dia-, per-, and trans- mean		through
97. The prefix in pandemic means		all
98. The prefix syn- means		together
99. The opposite of hyperglycemia is		hypoglycemia
100. To move the arm away from the midline i	s to it.	abduct
101. The prefix pre- means		before
102. The prefix that means "few" or "scanty"	is	oligo
103. The opposite of dextromanual is		sinistromanual
104. A synonym for antenatal is		prenatal
105. The prefixes macro-, mega-, and megalo	- all mean	large
106. The prefix pseudo- means		false
107. A hemisphere is	of a sphere.	one half
108. A tricuspid structure has	parts.	three

Matching

Match the following terms and write the appropriate letter next to each term.

Term	Answers	Definition
109. bedpan	D	A. word with a hard c
ren/o	С	B. prefix that means false
pseudo	В	C. combining form
carry	А	D. compound word
110. rage	В	A. word with a hard g
glue	А	B. word with a soft g
oace	D	C. word with a silent g
gnome	С	D. word with a soft c
111. FDA	С	A. referring to double
KAR-dē-ak	D	B. compound word
dipl/o	А	C. acronym
cardiovascular	В	D. phonetic pronunciation
112. prefix	В	A. fundamental word unit
suffix	С	B. comes before the root
root	А	C. comes after the root
diarrhea	D	D. its suffix means "to flow"
113sis	D	A. suffix that means "study," "study of"
-ous	В	B. suffix that means "pertaining to" or "like"
-logy	А	C. suffix that means "specialist"
-ist	С	D. suffix that means "condition of"
114. dermatology	С	A. study of structure
insomnia	D	B. intestinal disorder
anatomy	A	C. study and treatment of the skin
dysentery	В	D. inability to sleep

Term	Answers	Definition
115. thrombus	А	A. blood clot in a vessel
ganglion	В	B. mass of nervous tissue
febrile	С	C. pertaining to fever
ovoid	D	D. resembling an egg
116. topical	С	A. things added
appendices	А	B. eggs
ova	В	C. pertaining to a surface
lymphoid	D	D. pertaining to the lymphatic system
117. hemisphere	В	A. against recommendations
contraindicated	А	B. one half of a globe
percutaneous	D	C. backward flow
regurgitation	С	D. through the skin
118. oligodontia	А	A. fewer than normal number of teeth
abduct	С	B. excessive breathing
hyperventilation	В	C. move away from the midline
hypoglycemia	D	D. low blood sugar
119. orthotic	С	A. having equal sides
preoperative	D	B. a newborn
equilateral	А	C. correcting deformities
neonate	В	D. before surgery
120. monocyte	А	A. cell with one nucleus
mesencephalon	D	B. having a constant temperature
tetralogy	С	C. a group of four
homeothermic	В	D. midbrain

Pronounce It

For each phonetic transcription in this section, pronounce the term aloud and write it in the space provided, being careful to spell it correctly.

Answers		Answers
chemical	151. prog–NO–sis	prognosis
phantom	152. KWAD-ru-ped	quadruped
phobia	153. zan-tho-DER-mah	xanthoderma
euphoria	154. eh-rih-THE-mah	erythema
dysfunction	155. ol-ih-go-DON-she-	oligodontia
xiphoid		poikiloderma
ptosis		macroscopic
rhinoplasty		unilateral
acronym		
pharyngeal		epithelial homeostasis
coccygeal		
rheumatism		parasitism
pneumatic		stenosis
cardiology	-	neurology
nephritis	· •	optician
thoracic		anatomy
cervical		technology
renogastric		metric
dyslexia		venous
-		muscular
	·	phenomenon
-	171. pro-to-ZO-ah	protozoa
	172. FUN-ji	fungi
	173. fo-RAM-ih-nah	foramina
	174. FI-broyd	fibroid
	175. RU-mah-toyd	rheumatoid
•	176. di-ag-NO-sis	diagnosis
	177. SKEL-eh-tal	skeletal
	178. VER-teh-brah	vertebra
_	179. DIP-loyd	diploid
	phantomphobiaeuphoriadysfunctionxiphoidptosisrhinoplastyacronympharyngealcoccygealrheumatismpneumaticcardiologynephritisthoraciccervicalrenogastric	chemical151. prog-NO-sisphantom152. KWAD-ru-pedphobia153. zan-tho-DER-maheuphoria154. eh-rih-THE-mahdysfunction155. ol-ih-go-DON-she- ahxiphoid155. ol-ih-go-DON-she- ahptosis157. mak-ro-SKOP-ikrhinoplasty158. u-nih-LAT-er-alacronym159. ep-ih-THE-le-alpharyngeal160. ho-me-o-STA-siscoccygeal161. PAR-ah-sit-izmrheumatism162. steh-NO-sispneumatic163. nu-ROL-o-jecardiology164. op-TISH-annephritis165. ah-NAT-o-methoracic166. tek-NOL-o-jecervical169. MUS-ku-larothoracic169. MUS-ku-larorthotic171. pro-to-ZO-ahleukocyte172. FUN-jiorthotic173. fo-RAM-ih-nahhomogeneous174. FI-broydsymbiosis175. RU-mah-toydtelencephalon176. di-ag-NO-sisextract179. DIP-loyd

Word Building

For each item in this section, select the correct word parts from the bank below to form the term that matches the definition. Word parts may be used more than once.

Part 1	Answers
81. Study of the heart	cardi-o-logy
182. Inflammation of the stomach	gastr-itis
183. Pertaining to the chest	thorac-ic
184. Loss of blood	hem-o-r-rhage
185. Inflammation of a nerve	neur-itis
186. Study of the kidney	nephr-o-logy
187. Passage of fluid stool	dia-r-rhea
188. Menstrual flow	men-o-r-rhea
189. Inflammation of the kidney	nephr-itis
190. Study of the stomach	gastr-o-logy

WORKSHEET — CONCEPTS, SUFFIXES, AND PREFIXES OF MEDICAL TERMINOLOGY

Part 2	Answers
191. Pertaining to a yellow color	xanth-ous
192. A very small cell	micro-cyte
193. Irregular, mottled skin condition	poikilo-derma
194. A cell with an irregular shape	poikilo-cyte
195. A yellow skin condition	xanth-o-derma
196. Having two forms	di-morph-ous
197. White cell	leuk-o-cyte
198. To move away from	ab-duct
199. To move toward	ad-duct
200. Having no shape	a-morph-ous

Part 2 Word Bank			
a	di	0	
ab	duct	ous	
ad	leuk	poikilo	
cyte	micro	xanth	
derma	morph		

Part 3	Answers
201. Like or resembling an egg	ov-oid
202. Study and treatment of the skin	dermat-o-log-y
203. Study of the mind	psych-o-log-y
204. A single egg cell	ov-um
205. One who studies the mind	psych-o-log-ist
206. Specialist in treatment of the skin	dermat-o-log-ist
207. Pertaining to psychology	psych-o-log-ic
208. Disorder involving the mind	psych-o-sis
209. Multiple egg cells	ov-a
210. Pertaining to dermatology	dermat-o-log-ic

Part 3 Word Bank			
a	log	psych	
dermat	0	sis	
ic	oid	um	
ist	OV	у	

Sorting

For each word part category in this section, list the corresponding word parts from the bank below.

Part 1 Word Bank				
	cardio	cardiovascular	hem	laryngo
	lymphocyte	nephro	neur	pulm
	ren	thoraco	urogenital	wheelchair

Part 1	Answers
211. roots	neur, pulm, ren, hem
212. combining forms	laryngo, thoraco, nephro, cardio
213. compound words	urogenital, wheelchair, cardiovascular, lymphocyte

Part 2 Word Bank				
a-	contra-	cyan/o-	dipl/o-	
dis-	erythr/o-	leuk/o-	melan/o-	
mon/o-	non-	poly-	tetra-	

Part 2	Answers
214. Prefixes for number	mon/o-, tetra-, poly-, dipl/o-
215. Prefixes for color	leuk/o-, melan/o-, erythr/o-, cyan/o-
216. Negative prefixes	contra-, non-, a-, dis-

Part 3 Word Bank				
-form	-ia	-ian	-ic	
-ics	-ism	-ist	-logy	
-oid	-ous	-sis	-у	

Part 3	Answers
217. suffixes for "condition of"	-sis, -y, -ia, -ism
218. suffixes for "like" or "resembling"	-ic, -form, -ous, -oid
219. suffixes for specialty or specialist	-ics, -ist, -logy, -ian

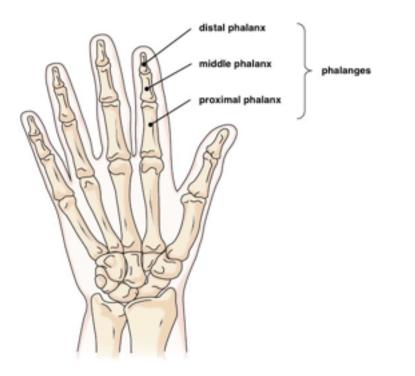
Look and Label

For each image in this section, write each label indicated on the image in the correct location or near the image with a line pointing from the label to the correct location on the image.

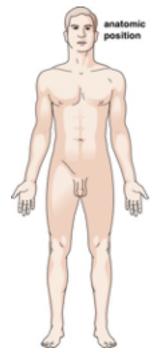
220. Labels: artery, lumen, vein



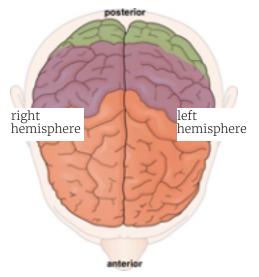
221. Labels: distal phalanx, middle phalanx, phalanges, proximal phalanx



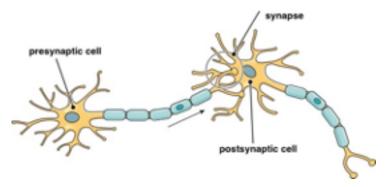
222. Label: What stance is shown in this figure?



223. Labels: anterior, left hemisphere, posterior, right hemisphere



224. Labels: postsynaptic cell, presynaptic cell, synapse



Case Studies

Read the following case studies carefully. Complete the sentence with the correct term(s).

Case Study 1: Osteoarthritis Consultation Note

HISTORY OF PRESENT ILLNESS: The patient has a history of chronic pain in the lumbosacral spine that has progressively gotten worse over the past 2 years. She was scheduled to have an MRI but never completed it because of claustrophobia. She also has pain in the hands and both shoulders, with significant morning stiffness. She has difficulty getting up from a sitting position. She reports pain in the knee with swelling of the left knee. She has moderate swelling of both ankles, which may be related more to her history of hypertension. She has just recently had an angiogram and is currently on a low dose of diuretic.

PERTINENT PHYSICAL FINDINGS: Hands have no evidence of synovitis. There are Heberden and Bouchard nodes, with changes of osteoarthritis. Wrist movement is normally maintained. There is tenderness of both shoulders with decreased range of mobility. There is also gluteal tenderness. Hip movement is decreased. There is bilateral crepitus of the knees with decreased range of mobility. The ankles have moderate swelling. The feet are normal.

ASSESSMENT: Osteoarthritis of the knees.

PLAN: We will start Celebrex 100 mg bid for pain. We will check for inflammation with a sedimentation rate, C-reactive proteins, rheumatoid factor, ANA, and uric acid levels. Will recommend physical therapy. Local injections are an option to consider in the future.

Case Study 1: Osteoarthritis Consultation Note

	Answers
225. The itis in the word osteoarthritis is a(n)	suffix
226. The word lumbosacral is formed from two roots. It is an example of a(n)	compound word
227. MRI stands for magnetic resonance imaging. This term represents a(n)	acronym
228. The rh in the word rheumatoid is pronounced as	r
229. The bi in the word bilateral is a(n)	prefix
230. The ch in the word chronic is pronounced as	k
231. The root syn/o refers to synovial membrane. The root is written in its form.	combining
232. The word synovitis means	inflammation of synovial membrane
233. The suffix –gram means "a recording." In the word angiogram, angi is a(n)	root
234. The hyper in the word hypertension is a(n)	prefix

Case Study 2: Endocrinology Office Consultation

HISTORY: This is a 59-year-old woman who has been in good health. She had an incident where a thyroid nodule was discovered after referral to a general surgeon for a breast lump. At that time, thyroid ultrasound and fine-needle aspiration of a rather sizable cyst of the right lobe of the thyroid, as well as aspiration of a nodule on the left side, were carried out. The findings suggested hemorrhage, and the patient was seen in follow-up 6 months later. Since that time, she has noted no hoarseness, dysphagia, local tenderness, or other focal symptoms. She also has no symptoms suggestive of thyroid dysfunction, and her baseline thyroid function studies last September were noted to be normal. She does admit to loud snoring and some sleep difficulty, with occasional fatigue the following day. This has been commented upon by her husband as being particularly coarse and loud in nature.

MEDICATIONS: She is on no medications except for Estraderm twice weekly.

FAMILY HISTORY: She does have a history of thyroid goiter in mother and grandmother.

PHYSICAL EXAMINATION: This is a healthy-appearing woman. Blood pressure is 130/74. Height is 5 feet 4 inches. Weight is 155 pounds. Integument is normal. She is well tanned. Eyes reveal no ophthalmopathy. Examination of the neck reveals a 2-cm nodular area in the lower part of the neck, which moves with swallowing. Otherwise, there is no enlargement of the thyroid.

No lymphadenopathy or other abnormality is present. Chest is clear. She has no chest wall tenderness. Cardiac exam reveals a slow, regular rate and rhythm. Reflexes are normal.

RADIOLOGY REPORT: Review of the ultrasound shows several cysts, one of which is sizable and compatible with a hemorrhagic cyst, as well as the suggestion of two demarcated adenomas, one of which was aspirated last October. The left-sided nodule did show follicular cells, although it is not stated whether there are adequate numbers, that is, six separate cells present.

IMPRESSION: Probable nodular hyperplasia with rather well-demarcated thyroid nodules, not palpable on clinical exam, and hemorrhagic thyroid cyst that has not changed in the last 6 months. PLAN: A free T4 and TSH blood test, and it was recommended that a re-exam and ultrasound be done in approximately 6 months.

	Answers
235. The suffix in the word endocrinology means	study of
236. A doctor specializing in the field of endocrinology is a(n)	endocrinologist
237. The suffix in the word thyroid means	pertaining to
238. The term adenomas is often used as the plural form of adenoma. The more accurate plural is	adenomata
239. The patient history notes that she occasionally has some difficulty sleeping. In other words, she has	insomnia
240. The suffix –ia in the word dysphagia means	condition of
241. If the physical examination revealed heart problems, the patient would be referred to a(n)	cardiologist
242. The adjective hemorrhagic is formed from the noun	hemorrhage
243. The suffix –y in the terms lymphadenopathy and ophthalmopathy means	condition of
244. The term focal refers to a focus, or center. The plural of focus is	foci

Case Study 3: Thyroid Cancer Surgery Discharge Summary

DISCHARGE DIAGNOSIS: Follicular thyroid cancer.

HOSPITAL COURSE: The patient came into the same-day surgery department on Friday, 4 days prior to this dictation. She underwent an uneventful left thyroid lobectomy, and intraoperatively, her frozen section diagnosis was follicular adenoma. She did well postoperatively and was subsequently prepared for discharge. However, the pathology demonstrated that she had a moderately well-differentiated follicular cancer. A completion thyroidectomy was then planned, and she was returned to the operating room. The contralateral lobe was then removed.

Parathyroid glands were well identified, as were the recurrent laryngeal nerves bilaterally, and the procedure was well tolerated.

Postoperatively, her calcium level was 7.9, with a preoperative calcium of 8.5. She had no Chvostek or Trousseau sign on postoperative examination and felt no irritability. She had some very mild hoarseness after the second operation but good phonation and was able to cough well. She was instructed on postoperative wound care, and it was discussed with her that she should have radioiodine ablation in several weeks when she becomes hypothyroid.

PLAN: Discharge her home on oral Vicodin for pain and have her return to the office later in the week. Additional plans for outpatient ablation will be forthcoming.

	Answers
245. The prefix and its meaning in uneventful areand	un; not
246. The patient's preoperative calcium level would be measured	before a surgery
247. The prefix and its meaning in discharge areand	dis; absence, removal, separation
248. The word contralateral means	opposite side
249. The prefix in the word postoperative means	after
250. During a surgery, the recurrent laryngeal nerves are visualized bilaterally. This means that they are seen on	both sides
251. The prefix and its meaning in the word ablation are and	ab; away from
252. The word hypothyroid refers to	decreased thyroid function
253. The patient's discharge notes predict a good outcome for the patient. This prediction is a(n)	prognosis
254. The patient's thyroid is surgically removed. Another word that means "to cut out" is	excise