# Familiarity with these terms will greatly help you memorize the anatomical terms that you will have to learn in this course

### EXERCISE 4.

### Prefixes Indicating Location, Direction, and Tendency

These prefixes are found at the beginning of many common everyday words. Can you think of another example in addition to the one given?

Prefix	Meaning	Example
ab-	from, away	abnormal: away from normal
ad-	to, near, toward	adrenal: adjoining the kidney
ante-	before	antepartum: before delivery
anti-	against	antiseptic: against infection
brady-	slow	bradycardia: slow heart rate
circum-	around	circumocular: around the eye
co-	with, together	coordination: working together
con-	with, together	congenital: with birth
contra-	against	contraindicated: not indicated
counter-	against	counterirritant: nonirritating
dis-	apart from	disarticulation: taking a joint apart
end-	within	endocardium: membrane lining the inside of the heart
epi-	upon	epidermis: upon the dermal layer of skin
ex-	out from	exhale: to breathe out
hyper-	above	hypertension: higher than normal blood pressure
hypo-	under	hypodermic: under the skin
im-	not	immature: not mature
in-	not	incurable: not curable
infra-	under	infrapatellar: under the kneecap
media-	middle	mediastinum: region of the chest cavity between the lungs
peri-	around	pericardium: membrane around the heart
post-	after	postmortem: after death
pre-	before	prenatal: before birth
pro-	before	prognosis: a prediction
super-	above	superciliary: above the eyebrow
supra-	above	suprapubic: above the pubic bone
sym-	with, together	symphysis: a fusion
syn-	with, together	synanthrosis: a bony union
tach-	rapid	tachycardia: rapid heart rate
trans-	through	transurethral: through the

#### Question 1.5

Give an example (not the one given in the table) for each of the following prefixes:

ad: con: ex:

> hyper: super:

### EXERCISE 5

### **Prefixes Denoting Organs and Structures**

It is essential to know the prefixes in the following list. Check off those with which you are already familiar and learn those that are new to you.

#### Question 1.6

Think of a word that uses each of the following medical terms:

gastro:

hepato:

derm:

Prefix	Meaning	Example
abdomin/o-	abdomen	abdominal: pertaining to the abdomen
acr/o-	extremity	acromegaly: having unusually large extremities
aden/o-	gland	adenitis: inflammation of a gland
angi/o-	vessel	angiogram: visualization of blood vessels
arthr/o-	joint	arthritis: inflammation of a joint
cardi/o-	heart	cardiology: study of the heart
chol/e-	gallbladder	cholecystitis: inflammation of the gallbladder
chondr/o-	cartilage	chondroma: a cartilaginous tumor
cyst/o-	bladder	cystoscopy: examination of the inside of the bladder
cyt/o-	cell	cytokinesis: cytoplasmic division
dent/o-	tooth	dental: referring to the teeth
dermat/o-	skin	dermatologist: physician specializing
or derm/o-		in skin diseases
duoden/o-	duodenum	duodenal: having to do with the duodenum (first portion of small intestine)
enter/o-	intestine	enteric: relating to the intestine
gastr/o-	stomach	gastroscopy: viewing the interior surface of the stomach
hepat/o-	liver	hepatitis: inflammation of the liver
laryn/go-	larynx	laryngoscope: instrument for viewing inside the larynx
my/o-	muscle	myocardium: heart muscle
nephr/o-	kidney	nephrology: study of the kidneys
neur/o-	nerve	neurologist: physician specializing in diseases of the nervous system
ocul/o- or opt/o-	eye	optical: pertaining to vision
oste/o-	bone	osteocyte: bone cell
ot/o-	ear	otology: study of the ear
path/o-	disease	pathological: relating to disease
pneumon/o-	lung	pneumonia: inflammation of the lung
rhin/o-	nose	rhinitis: inflammation of the nasal passages
stomat/o-	mouth	stomatitis: inflammation of the mouth
thorac/o-	thorax (chest)	thoracentesis: puncture of the thorax for the removal of fluid

## EXERCISE 6

#### **Prefixes Denoting Number and Measurement**

The following quantitative terms are common; review their meanings.

Prefix	Meaning	Example
uni-	one	unicellular: consisting of one cell
mon-	one	mononuclear: having one nucleus
bi-	two	bilateral: affecting two sides
bin-	two	binocular: two-eyed
di-	two	dicephalic: two-headed
ter-	three	tertiary: of the third stage
tri-	three	trilobar: having three lobes
quadr-	four	quadriceps femoris: group of four muscles in the thigh
tetra-	four	tetralogy of Fallot: heart anomaly having four features
poly-	many	polydactyly: having (abnormally) many digits
macr-	large	macrocephalic: having an exceptionally large head
mega-	great	megadontia: having exceptionally large teeth
micro-	small	microscope: an instrument for viewing small objects
oligo-	few	oliguria: excretion of small amounts of urine

### EXERCISE 7

# Suffixes Denoting Relations, Conditions, and Agents

Suffixes add specificity to words. Think of additional examples for the following suffixes.

Suffix	Meaning	Example
-ac	related to	cardiac: relating to the heart
-ious	related to	contagious: communicable by touch
-ic	related to	pyloric: relating to the pyloric valve
-ism	condition	mutism: inability to speak
-osis	condition	tuberculosis: infection by tuberculosis bacteria
-tion	condition	constipation: condition of passing infrequen and hard stools
-ist	agent (one who practices)	ophthalmologist: medical specialist who treats eye disorders
-or	agent	operator
-er	agent	examiner
-ician	agent	physician

### EXERCISE 8

### **Suffixes Used in Operative Terminology**

These suffixes are essential to clinical practice. Some may be more familiar to you than others.

#### Question 1.7

How does an -ectomy differ from an -ostomy and -otomy?

Suffix	Meaning	Example
-centesis	to puncture	amniocentesis: puncture of the amniotic sac
-ectomy	to cut out or remove	appendectomy: excision of the appendix
-ostomy	to cut to form an opening	colostomy: opening formed in the large intestine and draining to the outside
-otomy	to cut into	tracheotomy: cut into the trachea
-реху	to fix or repair	gastropexy: repair of the stomach
-plasty	to repair or reform	rhinoplasty: repair of the nose
-(r)rhaphy	to suture	arteriorrhaphy: suture of an artery
-scopy	to view	otoscopy: to view the ear canal

### EXERCISE 9

#### **Miscellaneous Suffixes**

These suffixes are relevant to your study. Check off those you know and learn those that you do not know.

#### Question 1.8

Write another example using each of the following suffixes:

 _ algia
_ itis
 _ ology

Suffix	Meaning	Example
-algia	pain	neuralgia: nerve pain
-emia	of the blood	bacteremia: bacteria in the blood
-gram	writing	electrocardiogram: tracing of the electrical activity of the heart
-itis	inflammation of	appendicitis: inflammation of the appendix
-ology	study of	ophthalmology: study of the eye
-orrhea	flow	amenorrhea: cessation of menstrual flow
-phobia	fear of	claustrophobia: fear of confined spaces

### SELF-TEST

### **Medical Terminology**

#### SENTENCE COMPLETION

a. anterior		e. distal	
b. posterior		f. proximal	
c. medi	ial	g. coronal	
d. later	al	h. sagittal	
1.	The plane of the body	dividing it into right and left sections is	
2.	The hip is	to the ankle.	
<b>3.</b> The navel is		to the spinal cord.	
4.	The great toe is	to the little toe.	
MATCHING			
	Column A	Column B	
5.	Study of the heart	a. cardiology	

b. cholecystectomy

c. dermatitis

c. transverse

d. longitudinal

d. myalgia

Choose the correct response for Questions 1–4 from the answers listed below:

6. Inflammation of the skin7. Removal of the gallbladder

8. Pain in a muscle

a. sagittalb. coronal

#### MULTIPLE CHOICE

9. Which of the following is located in the midsagittal plane of the body?

a. foot
b. toe
c. leg
d. spinal column

10. The kidneys are located primarily in the \_\_\_\_\_\_ regions of the abdomen.

a. hypochondriac
b. hypogastric
d. lumbar

11. When a surgeon amputates a leg, he or she makes a \_\_\_\_\_\_ cut through the bone.

<ul><li>12. A term describing a structure</li><li>a. transurethral.</li><li>b. pericardium.</li></ul>	that surrounds an organ is  c. antepartum. d. superciliary.
<ul><li>13. In a quadruped organism, suc the body is referred to as</li><li>a. anterior.</li><li>b. posterior.</li></ul>	h as the cat, the cranial portion of  c. dorsal. d. superior.
<ul><li>14. A cytological examination inv</li><li>a. the inside of the bladder.</li><li>b. cells.</li></ul>	c. tissues. d. behavior.
<ul><li>15. A person with pneumonitis we these symptoms?</li><li>a. painful urination</li><li>b. inability to swallow</li></ul>	c. difficulty breathing d. nausea and vomiting
<ul><li>16. What is the medical term for</li><li>a. neuritis</li><li>b. nephrotomy</li></ul>	inflammation of a kidney?  c. cystorrhaphy d. nephritis
<ul><li>17. Viewing the inside of the duo</li><li>a. duodenology.</li><li>b. duodenoscopy.</li></ul>	denum is known as  c. duodenectomy. d. duodenitis.
<ul><li>18. A person with otitis may have</li><li>a. hearing.</li><li>b. seeing.</li></ul>	c. smelling. d. tasting.
<ul><li>19. When puncturing the chest of performs a</li><li>a. pneumonectomy.</li><li>b. pneumonostomy.</li></ul>	c. thoracentesis. d. thoracotomy.
<ul><li>20. Which abdominal region is in</li><li>a. left hypochondriac</li><li>b. epigastric</li></ul>	nferior to the umbilical region?  c. hypogastric d. right iliac
WORD RELATIONSHIPS Which is an <i>incorrect</i> word relationship in each of the	e following questions?
<b>21. a.</b> <i>anti</i> = before <b>b.</b> <i>bi</i> = two	<ul><li>c. brady = slow</li><li>d. cyst = bladder</li></ul>
22. a. <i>cyto</i> = cell b. <i>entero</i> = intestine	<ul><li>c. epi = top</li><li>d. hyper = below</li></ul>
<b>23. a.</b> algia = pain <b>b.</b> ectomy = cut out	<ul><li>c. gram = tracing, mark</li><li>d. itis = draining</li></ul>
<b>24. a.</b> <i>centesis</i> = puncture <b>b.</b> <i>ology</i> = study	<ul><li>c. gastro = kidney</li><li>d. pexy = repair</li></ul>
<b>25. a.</b> <i>derm</i> = skin <b>b.</b> <i>arthr</i> = joint	<ul> <li>c. aden = gland</li> <li>d. opt = ear</li> </ul>