# Medical Terminology Training Course Brought To You By Simplistic Solutions 



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## LESSON ASSIGNMENT

## LESSON 1

## TEXT ASSIGNMENT

LESSON OBJECTIVE

Introduction to Programmed Learning.
Lesson 1, frame numbers 1-14.
After completing this lesson, you should be able to:

Given a series of frames defining prefix, stem, and suffix, select the correct definition.

## LESSON 1 <br> Section I. HOW TO USE PROGRAMMED INSTRUCTION

Directions: Each frame consists of a question and an answer. The answer appears on the right hand side of the page just before the next frame. Make a cover card from a piece of cardboard. Place the cover card over the answer to the frame you are reading. Read the information in the frame and answer the question. Check your answer by moving your cover card down to expose the correct answer.

The programmed instruction format begins on the next page.

## GOOD LUCK!

1 The material in programmed instruction is arranged in a series of small steps called frames. Each frame presents new information to you or reviews material you may already be familiar with. Therefore, all of the following material is arranged in steps called $\qquad$ .

## frames

2 By checking your answer after you have answered a question, you will get immediate feedback as to whether or not you are correct. This immediate feedback will help you learn what is $\qquad$ .
$\overline{\text { (correct, incorrect) }}$
correct
3 If your answer is incorrect, you should re-read the frame to find out why you missed the question. Fortunately, all of the information you need to correctly answer the question is contained within that $\qquad$ .

4 Programmed instruction also allows you to learn at your own speed. If the material is difficult for you, you can go slowly. If the material is easy, you can go more $\qquad$ (slowly, quickly)

5 Programmed instruction is designed to proceed logically from one frame to the next frame. When working with programmed instruction, you should not attempt to skip ahead because each frame is developed from preceding frames. That is why this type of material is called

programmed instruction

## Section II. INTRODUCTION TO STEMS, PREFIXES AND SUFFIXES

6 All medical terms can be broken down into word parts. The three word parts that you will be concerned with are the prefix, the stem (root), and the suffix. Usually, only two of these parts are present in a medical term. The word parts, then, of a medical term may include the
$\qquad$ , the stem, and the suffix.

prefix

7 The stem is the part of the word which gives the basic meaning to the term. The part of the word, "basketball," which gives the basic meaning to the word is "ball." Therefore, "ball" is considered to be the $\qquad$ .
stem

8 The part of the word which comes before the stem and modifies or augments the meaning of the stem is called the prefix. In the word "basketball," "ball" is the stem and "basket" is the $\qquad$ .

> prefix

9 The part of the word which gives the basic meaning to the word is called the $\qquad$ .
stem

10 The prefix is the part of the word which comes the stem. (before, after)
before
11 The part of the word which comes after the stem and modifies or augments the meaning of the root word is called the suffix. In the term "specialist," "special" is the stem and "ist" is the $\qquad$ .
suffix
12 In summary, words used in medicine are comprised of one or more parts called prefix, stem, and suffix. The part of the word which gives basic meaning to the word is the $\qquad$ .

13 The part of the word which comes before the stem and modifies or augments the meaning of the stem is called the $\qquad$ .
prefix

14 The part of the word which comes after the stem and modifies or augments the meaning of the stem is called the $\qquad$ .

suffix

Now that you're off to a good start, let's look at some medical word parts. BEFORE you look at specific medical word parts, however, you should take the Pretest for lesson 2 on stems which follows this introductory material. Read the Pretest instructions carefully.

## Section III. HOW TO COMPLETE EACH PRETEST

1. Before you begin work on your study of medical terminology in lessons 2,3 , and 4 , you should complete the pretest for each lesson. The score you make on the pretest will enable you to determine how much you already know about the medical terminology presented in the lesson. The answers to each pretest are found at the end of each lesson. If you score $90 \%$ or better on the pretest, it is not necessary for you to work the problems presented in the lesson.
2. If you successfully pass the pretest, you should go to the next pretest. If you successfully pass all the pretests, you should go directly to the final examination.

## LESSON ASSIGNMENT

## LESSON 2

LESSON ASSIGNMENT
LESSON OBJECTIVES

Stems Pertaining to Medical Terminology.
Lesson 2, frame numbers 15-131.
After completing this lesson, you should be able to :
2-1. Given a list of 15 of the 100 Latin and Greek medical stems covered in lesson 2 and a list of English meanings for these stems, write the English meaning of the medical stem in the space provided without error.

2-2. Given 10 multiple choice questions on medical stems, select the appropriate English meaning without error.

## LESSON 2

## PRETEST \#1

Before you turn to frame 15 and begin work on your study of medical terminology, complete the pretest on the following pages. The pretest contains 70 questions relating to medical terminology stems. The correct answers to the pretest are found at the end of this lesson. If you correctly answer $90 \%$ or more of the questions, you pass the pretest. A score of $90 \%$ on this pretest is 63 correct answers.

Write your answers in the space provided in each question.

1. Ophthalmalgia means pain in the $\qquad$ .
2. Otorrhea is a discharge from the $\qquad$ .
3. Prenatal means before $\qquad$ and post febrile means after $\qquad$ .
4. A salpingostomy is a surgical opening into a $\qquad$ .
5. Oophoropexy means fixation of an $\qquad$ .
6. An enterolith is a $\qquad$ in the intestines.
7. Hematuria means the presence of blood in the $\qquad$ .
8. Orchidectomy means excision of a $\qquad$ .
9. Cystorrhagia means hemorrhage of the $\qquad$ .
10. Urethrorrhaphy means suturing the $\qquad$ .
11. A cholelith is a $\qquad$ stone.
12. A hysterosalpingo-oophorectomy means the excision of the $\qquad$ ,
$\qquad$ , and $\qquad$ .
13. Ureterocele means $\qquad$ of the ureter.
14. Esthesia means $\qquad$ or $\qquad$ .
15. Pathophobia means an abnormal $\qquad$ of disease.
16. Megalomania is a mental $\qquad$ .
17. Osteopathy means disease of the $\qquad$ .
18. Cerebrotomy is an incision into the $\qquad$ .
19. Neuralgia means pain along the course of a $\qquad$ .
20. Glycolysis is the breakdown or destruction of $\qquad$ .
21. Edema means $\qquad$ .
22. Acroparalysis refers to paralysis of the $\qquad$ .
23. Tachyphagia is a word for fast or rapid $\qquad$ .
24. Splenopathy means a disease of the $\qquad$ .
25. Lymphostasis means control the flow of $\qquad$ .
26. An encephaloma is a $\qquad$ .
27. Lipolysis means destruction or breakdown of $\qquad$ .
28. A pyocele is a hernia containing $\qquad$ .
29. Dacryorrhea means excessive flow of $\qquad$ .
30. Cytology is the study of $\qquad$ .
31. Thrombus is the medical way to say $\qquad$ .
32. Arterioplasty is surgical repair of an $\qquad$ .
33. Phlebosclerosis is the hardening of the $\qquad$ .
34. Vasotripsy means the crushing of a $\qquad$ .
35. An angiospasm is a spasm of a $\qquad$ .
36. Hepatomegaly means enlargement of the $\qquad$ .
37. A proctoscopy is an examination of the $\qquad$ .
38. Colocentesis means puncture of the $\qquad$ .
39. Jejunoileitis is inflammation of the $\qquad$ and the $\qquad$ .
40. Psychosis means any serious $\qquad$ condition.
41. Enteroptosis means prolapse of the small $\qquad$ -
42. Gastrectasia is the dilation or stretching of the $\qquad$ .
43. Gingivalgia means pain in the $\qquad$ .
44. The lacrimal gland secretes $\qquad$ .
45. Cheilosis is a disorder of the $\qquad$ .
46. A duodenotomy is an incision into the $\qquad$ .
47. Stomatoplasty means surgical repair of the $\qquad$ .
48. Apnea means temporary cessation of $\qquad$ -.
49. Treatment with compressed $\qquad$ is called pneumotherapy.
50. A laparorrhaphy is the suturing of the $\qquad$ .
51. Glossoplegia is a paralysis of the $\qquad$ .
52. Bronchorrhagia means $\qquad$ hemorrhage.
53. Nasal means pertaining to the $\qquad$ .
54. Rhinoplasty means surgical repair of the $\qquad$ .
55. Laryngitis is inflammation of the $\qquad$ .
56. Onychosis means a condition of the $\qquad$ .
57. Costal means pertaining to the $\qquad$ .
58. Abdominocentesis is a surgical puncture of the $\qquad$ .
59. Tendinitis is inflammation of the $\qquad$ .
60. Myocarditis is inflammation of the heart $\qquad$ .
61. Myelocele means herniation of the $\qquad$ .
62. Chondromalacia is the softening of $\qquad$ .
63. Arthritis is a word which means inflammation of a $\qquad$ .
64. A tympanectomy is an excision of the $\qquad$ .
65. Keratectasia means dilatation of the $\qquad$ .
66. A pharyngotomy is an incision into the $\qquad$ .
67. Blepharoptosis means prolapse of the $\qquad$ .
68. Hemostasis means the act of controlling the flow of $\qquad$ .
69. A necroparasite is one that lives on $\qquad$ organic matter.
70. Pneumomycosis is a condition of lung $\qquad$ .

Check your answers on page 2-77

## Section II. BASIC COMPONENTS

NOTE: Please refer to the pronunciation guide on page B-1 to assist you in pronouncing the terms you will encounter in this lesson.

We will first discuss the main body or basic component of a medical term called the stem or root word. The stem of a medical word usually indicates the organ or part which is modified by a prefix or suffix, or both.
15. The main body or basic component of a word is called the $\qquad$ or
$\qquad$ word.
16. All words have a stem. Even everyday words have stems. For example, in the words "singer," "writer," and "speaker," "sing," "write," and "speak" are the stems. In medical terms such as hepatomone, gastrotome, and arthrotome, the hepat (meaning liver), gastr (meaning stomach), and arthr (meaning joint) are the $\qquad$ _.

stems

17. Certain combinations of stems are hard to pronounce. This is often true when a stem ends in a consonant and the word part that is added to it also begins with a consonant. This awkwardness of pronunciation makes it necessary to insert a vowel called a combining vowel.
18. Certain combinations of stems or root words are difficult to pronounce, making it necessary to insert a vowel called a $\qquad$ .

# combining vowel 

19. Usually the combining vowel is an "o," but occasionally it may be "a," "e," "i," "u," or "y."
20. The combining vowel is usually an
$\qquad$ ـ.

## 0

21. We find combining vowels in ordinary words. Instead of joining the two stems "therm" and "meter" directly, we insert the combining vowel "o" and say "therm - 'o' meter."
22. Here are some more examples:
a. Speed - meter becomes speedometer.
b. Megal - mania becomes megalomania.
c. Strat - phere becomes stratosphere.
d. Therm - meter becomes thermometer.
23. Instead of joining two stems or root words directly, we insert the combining vowel which is usually an
$\qquad$ .

0
24. A stem plus the combining vowel is known as the combining form .

In the word speedometer, for example, "speed" is the stem and "speed -o" is the combining form.
25. In the word thermometer, "therm" is the stem and "therm - o" is the
$\qquad$ .
combining form
26. In the word megalomania, "megal" is the stem and "megal - o" is
$\qquad$ .

combining form

27. In the word stratosphere, "strat" is the stem and "strat- 0 " is the
$\qquad$ .
combining form
28. As a review, complete each of the following statements:
a. The basic core of any word is the $\qquad$ -
stem (frame 15)
b. Combinations of stems are often difficult to pronounce. When the first stem ends in a consonant and the second word part begins with a consonant, we must insert a vowel called a $\qquad$ vowel.
c. The combining vowel is usually an
$\qquad$ .
o (frame 19)
d. The combination of a stem plus a combining vowel is known as the $\qquad$ .
combining form (frame 24)

NOTE: Each frame which introduces a new medical term contains the correct pronunciation with diacritical markings. The pronunciation guide below should be used to help you pronounce the medical term correctly. You should pronounce each medical term aloud so that you can hear how the word sounds. Practicing the correct pronunciation aloud will also help you remember the term and its meaning.

## USE THIS GUIDE TO ASSIST YOU IN PRONUNCIATION

| IF IT IS AN | AND | THEN IT IS |
| :--- | :--- | :--- |
|  | IT ENDS <br> A SYLLABLE | LONG " $\overline{\mathrm{a}}$ " <br> (UNLEES <br> OTHERWISE <br> UNMARKED <br> VOWEL |
|  | INDICATED) |  |
|  | THE SYLLABLE <br> ENDS IN A <br> CONSONANT | SHORT " "a" <br> (UNLESS <br> OTHERWISE <br> INDICATED) |

In this course, stems are presented with the combining vowel and in their combining forms (stem + combining vowel = combining form) and referred to simply as the stem.

Although Latin combining forms (stem + combining vowel) should be used only with Latin prefixes and suffixes and Greek combining forms with Greek pre-fixes and suffixes, there are generally many inconsistencies in forming medical terms.

The combining forms presented in this text are legitimate ; however, you will not find all the combining forms used in this text in any one medical dictionary. The combining form of the stem, tendo, for example does not appear in some dictionaries and appears in different forms in other medical dictionaries as follows:

Stedman's Medical Dictionary - tendo-. Combining form meaning tendon; see also teno-. Teno - tenon-, tenonto -. Combining forms meaning tendon. See also tendo-.

Blakinton's Gould Medical Dictionary - ten- , teno- . A combining form meaning tendon.
Dorland's Illustrated Medical Dictionary - teno-, tenonto-. Combining form denoting relationship to a tendon.

Several sources were used as references in compiling the information included in this text including the following:

Dorland's Illustrated Medical Dictionary. Blakinton's Gould Medical Dictionary.

Stedman's Medical Dictionary. Taber's Cyclopedic Medical Dictionary.

## Section III. STEMS - PERTAINING TO THE MUSCULOSKELETAL SYSTEM



Now let's look at some of the more common stems pertaining to the musculoskeletal system.
29. The musculoskeletal system includes the bones, muscles, and joints.
30. Osteo is a stem which means bone. A person who has osteo-arthritis, for example, has inflammation of the
$\qquad$ and joint.
os"te-o-ar-thri'-tis

bone
31. The stem, arthro, means joint. Arthrodesis means fixation of a
$\qquad$ by fusion.
ar"thro-de'-sis

joint
32. The stem chondro means cartilage. A person with chondr -itis, for example, has inflammation of the
$\qquad$ ـ.
kon-dri'tis

cartilage
33. The stem myelo means bone marrow or spine. A person who has myelitis has an inflammation of the $\qquad$
$\qquad$ or $\qquad$ .

mi"e-li'tis


bone marrow/spine

muscle

tendon


INTERCOSTAL
ribs
37. As a review, give the meaning of each of the following stems pertaining to the musculoskeletal system.
a. Osteo: $\qquad$
bone (frame 30)
b. Arthro: $\qquad$
joint (frame 31)
c. Chondro: $\qquad$
cartilage (frame 32)
d. Myelo: $\qquad$
e. Myo: $\qquad$
muscle (frame 34)
f. Tendo:

> tendon (frame 35)
g. Costo: $\qquad$
38. To further reinforce what you have learned, fill in the blanks with the appropriate words:
a. A person who has osteoarthritis has inflammation of the $\qquad$ and $\qquad$ _.
bone/joint (frames $30 \& 31$ )
b. Arthrodesis is fixation of a by fusion.
c. A person with chondritis has inflammation of the $\qquad$ .
d. A person who has myelitis has inflammation of the $\qquad$ or $\qquad$ .
bone marrow/spine (frame 33)
e. A myospasm is an involuntary contraction of a $\qquad$ .
muscle (frame 34)
f. A person with tendinitis has an inflammation of a $\qquad$ .
tendon (frame 35)
g. Intercostal refers to the space between the $\qquad$ .
ribs (frame 36)

If you missed any of the questions in frames 37 and 38, please review the appropriate frame(s) before continuing to frame 39.

## Section IV. STEMS - PERTAINING TO THE INTEGUMENTARY SYSTEM

## INTEGUMENTARY SYSTEM



The integumentary system includes the skin and its appendages - the hair and nails.
39. Derma is a stem which means skin.

A person with dermatophytosis, for example, has a fungus condition of the $\qquad$ .
der"mah-to-fi-to'sis
DERMA


DERMATOPHYTOSIS
skin
ONYCHO


ONYCHECTOMY
nail
41. Let's review the stems you've just studied. Give the meaning of each of the following stems pertaining to the integumentary system:
a. Derma: $\qquad$
skin (frame 39)
b. Onycho: $\qquad$
nail (frame 40)
42. Let's make sure you know the stems you have just studied. Fill in the blanks with the appropriate terms.
a. A person with dermatophytosis has a fungus condition of the
$\qquad$ .
skin (frame 39)
b. Onychectomy is the surgical removal of the of a finger or toe.
nail (frame 40)

If you missed any of the questions in frames 41 and 42, please review the appropriate frame(s) before continuing to frame 43.

Section V. STEMS - PERTAINING TO THE RESPIRATORY SYSTEM


The respiratory system includes the lungs, pleura, bronchi, pharynx, larynx, tonsils, and the nose.
43. Rhino and naso are stems which

RHINO / NASO
mean nose. A person who has rhinitis has inflammation of the
$\qquad$ .


RHINITIS
NASAL BONE
nose
44. Laryngo is a stem meaning larynx or voice box. A laryngoscopy is an examination of the interior of the
$\qquad$ -.
lar"ing-gos'ko-pe
ri-ni'tis


LARYNGOSCOPY
larynx

upper windpipe/trachea
46. Broncho is a stem which means lower windpipe or bronchus. A person with bronchitis has inflammation of the $\qquad$
$\qquad$ or $\qquad$ .
brong-ki'tis inflammation of the $\qquad$
nu-mo'ne-ah .
nu-mo'ne-an
49. Pneumo is a stem which also means air. Pneumonemia is the presence of
$\qquad$ or gas in the blood vessel.
nu"mo-ne'me-ah

lower windpipe/bronchus
lungs
PULMO / PNEUMO


PULMONARY PNEUMONIA
lungs


PNEUMONEMIA
air
50. Pneo is a stem which means breath or breathing. Pneodynamics is the mechanism of $\qquad$ .
ne'o-di nam'ik

51. Let's review the stems you just studied. Give the meaning of each of the following stems pertaining to the respiratory system.
a. Rhino: $\qquad$
nose (frame 43)
nose (trame 43)
b. Naso: $\qquad$
nose (frame 43)
nose (trame 43)
c. Laryngo:
d. Tracheo:
or $\qquad$
$\qquad$
upper windpipe/trachea (frame 45)
e. Broncho:
or $\qquad$
$\qquad$
lower windpipe/bronchus (frame 46)
f. Pulmo:
larynx (frame 44)
$\qquad$
lower windpipelbronchus (fame 46)
lung (frame 47)
g. Pneumo: $\qquad$ or $\qquad$
g. Pheumo.
h. Pneo: $\qquad$
52. To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. A person who has rhinitis has an inflammation of the $\qquad$ .
b. A laryngoscope is an instrument used for examination of the
$\qquad$ -.
c. Tracheitis is the inflammation of the $\qquad$ or $\qquad$ .

> nose (frame 43)
larynx (frame 44)
breathing (frame 50)
air/lungs (frame 47/49)
g. Pneumonemia is the presence of _or gas in the blood vessels.
air (frame 49)
h. Pneodynamics is the mechanism
of $\qquad$ .
breathing (frame 50)

If you missed any of the questions in frames 51 and 52, please review the appropriate frame(s) before continuing to frame 53.

## Section VI: STEMS - PERTAINING TO THE DIGESTIVE SYSTEM



The digestive system or gastrointestinal tract begins with the mouth, where food enters the body and ends with the anus, where solid waste material leaves the body.
53. The stem stoma means mouth. A person who has stomatitis, for example, has inflammation of the
$\qquad$ _.
sto-mah-ti'tis

STOMA


STOMATITIS
mouth
LINGUA/GLOSSA


LINGUAL/GLOSSITIS
tongue
LINGUA/GLOSSA


LINGUAL/GLOSSITIS
56. Dento and odonto are stems which mean tooth. A person with dentalgia has a pain in the $\qquad$ -.
den-tal'je-ah
DENTO / ODONTO



DENTALGIA ODONTOID

## tooth

57. Cheilo is a stem which means lip. A cheiloplasty is the surgical repair of a defect of the $\qquad$ .
ki'lo-plas"te

# CHEILOPLASTY 

lip
58. Gingivo is a stem which means gums.

A person with gingivitis has an inflammation of the $\qquad$ .
jin"ji-vi'tis
CHEILO



gums


GASTRECTOMY
stomach
60. Entero is a stem which means intestine. A person with gastroenteritis has inflammation of the stomach and
$\qquad$ _.
gas"tro-en-ter-i'tis
61. Duodeno is a stem which pertains to the duodenum or first part of the small intestine. A duodenal ulcer, for example, is an ulcer which is located in the $\qquad$ or
du"o-de'nal
$\qquad$ -

intestine


## DUODENAL ULCER

duodenum or first part of the small intestine


JEJUNECTOMY
jejunum or second part of the small intestine

ileum or third part of the small intestine
64. Colo is a stem which means colon. When a colostomy is performed, an incision is made into the $\qquad$ _.
ko'lon ko-los'to-me

## COLOSTOMY

colon
65. Procto and ano are stems which mean rectum or anus. Proctitis means inflammation of the $\qquad$ or $\qquad$ .
prok-ti'tis
PROCTITIS
rectum or anus
66. As a review, give the meaning of the following stems pertaining to the digestive system.
a. Stoma: $\qquad$
mouth (frame 53)
b. Lingua/glossa: $\qquad$
tongue (frame 54)
c. Dento/odonto: $\qquad$
tooth (frame 56)
d. Cheilo: $\qquad$
f. Gastro:
stomach (frame 59)
g. Entero:
intestine (frame 60)
h. Duodeno: $\qquad$
duodenum/first part of intestine (frame 61)
i. Jejuno:

> jejunum/2d part of intestine (frame 62)
j. Ileo:

> ileum/3d part of intestine (frame 63)

## colon (frame 64)

I. Procto/ano:
67. Fill in the blanks with the appropriate terms:
a. A person with stomatitis has an inflammation of the $\qquad$ .
mouth (frame 53)
b. Glossitis is an inflammation of the
$\qquad$ .
tongue (frame 54)
c. Lingual means pertaining to the
$\qquad$ -.
d. A person with dentalgia has a pain in the $\qquad$ .
e. A cheiloplasty is the surgical repair of a defect of the $\qquad$ .
lip (frame 57)
f. Someone who has gingivitis has inflammation of the $\qquad$ _.
gums (frame 58)
g. A gastrectomy is the surgical removal of the $\qquad$ .
stomach (frame 59)
h. A person with gastroenteritis has inflammation of the and the $\qquad$ .
i. A duodenal ulcer is located in the $\qquad$ _.

> duodenum/1st part of the small intestine (frame 61)
j. A jejunectomy is an excision of part or all of the $\qquad$ .
k. Ileitis is an inflammation of the
$\qquad$ -.
stomach and intestine(frames 59 \& 60)
jejunum/2d part of the small intestine (frame 62)
ileum/3d part of the small intestine (frame 63)
I. A colostomy is an incision into the
$\qquad$ .
colon (frame 64)
m . Proctitis is an inflammation of the
$\qquad$ or $\qquad$ .
rectum/anus (frame 65)

If you missed any of the questions in frames 66 and 67 , please review the appropriate frame(s) before continuing to frame 68.

## Section VII. STEMS - PERTAINING TO THE ACCESSORY ORGANS OF DIGESTION

68. The stem hepato means liver. A person with hepatitis has an
inflammation of the $\qquad$ .
hep"ah-ti'tis
69. The stem cholecysto means gallbladder. A person who has had an operation called a cholecystectomy, for example, has had his
$\qquad$ removed (or excised).
ko"le-sis-tek'to-me
70. The stems celio and abdomino mean abdomen. A person who has had a celiectomy has had a complete or partial removal of an organ of the
$\qquad$ -.
se"le-ek'to-me
liver
gallbladder


abdomen
71. Laparo is a stem meaning abdominal wall. A person who has a laparotomy has had an incision made into the
$\qquad$ -.
lap-ah-rot'o-me

abdominal wall
72. As a review, give the meaning of each of the following terms:
a. Hepato: $\qquad$
liver (frame 68)
b. Cholecysto: $\qquad$
gallbladder (frame 69)
c. Celio/abdomino: $\qquad$
abdomen (frame 70)
d. Laparo: $\qquad$
abdominal wall (frame 71)
73. To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. A person who has hepatitis has an inflammation of the $\qquad$ .
liver (frame 68)
b. When a cholecystectomy is performed, the $\qquad$ is removed (or excised).
gallbladder (frame 69)
c. A person who has a celiectomy has had a complete or partial removal of an organ of the
$\qquad$ .
```
abdomen (frame 70)
```

d. During a laparotomy, an incision is made into the $\qquad$ .

If you missed any of the questions in frames 72 and 73 , please review the appropriate frame(s) before continuing to frame 74.

Section VIII. STEMS - PERTAINING TO THE CARDIOVASCULAR SYSTEM


The cardiovascular system includes the heart and blood vessels.
74. The stem, cardio, means heart. The cardiovascular system includes the blood vessels and the $\qquad$ .
kar"de-o-vas'ku-lar
heart
75. Angio and vaso are stems which mean vessel. An angiogram is a series of X-ray film of a blood
$\qquad$ .
an'je-o-gram"
76. Phlebo and veno are stems which mean vein. A phlebectomy is the surgical removal of a $\qquad$ .
fle-bek'to-me
ANGIO / VASO


ANGIOGRAM /
VASODILATOR
vessel
PHLEBO / VENO


PHLEBECTOMY
VENOGRAM
vein
77. Arterio is a stem which means artery. A person who has arteriosclerosis has hardening of the $\qquad$ .
ar-te"re-o-skle-ro'sis


ARTERIOSCLEROSIS
arteries


THROMBOPHLEBITIS
clot/blood
79. As a review, give the meaning of each of the following terms pertaining to the cardiovascular system.
a. cardio: $\qquad$
heart (frame 74)
b. angio/vaso: $\qquad$
vessel (frame 75)
c. phlebo/veno: $\qquad$
vein (frame 76)
d. arterio:
artery (frame 77)
e. thrombo: $\qquad$
clot of blood (frame 78)
80. To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. The cardiovascular system includes the blood vessels and the
$\qquad$ -.
heart (frame 74)
b. When a person has an angiospasm or a vasospasm, he has a spasm of a $\qquad$ .
vessel (frame 75)
c. A phlebectomy is the surgical removal of a $\qquad$ .
vein (frame 76)
d. A person who has arteriomalacia has a softening of the $\qquad$ .
arteries (frame 77)
e. A thrombectomy is the excision of
a $\qquad$ .

If you missed any of the questions in frames 79 and 80, please review the appropriate frame(s) before continuing to frame 81.

Section IX. STEMS - PERTAINING TO THE HEMATOPOIETIC AND LYMPATHIC SYSTEMS


The hematopoietic system includes tissues concerned in the production of blood. The lymphatic system includes the lymphatic vessels and lymphoid tissues.
81. Cyto is a stem meaning cell. An erythrocyte is one kind of blood cell. It is a red blood $\qquad$ .
e-rith'ro-sit


CYTO

## ERYTHROCYTE

cell
82. Hema and hemato are stems which mean blood. A hematoma is a tumor filled with $\qquad$ .
hem"ah-to'mah

blood
83. Lympho is a stem which means lymph. A lymphocyte is a $\qquad$ cell.
lim'fo-sit


> lymph
84. Spleno is a stem which means spleen. A person who has had a splenectomy has had an excision of the $\qquad$ .
sple-nek'to-me

spleen


## PHAGOCYTE

eats
86. As a review, give the meaning of each of the following stems
pertaining to the hematopoietic and lymphatic systems.
a. cyto:
cell (frame 81)
b. hema/hemato: $\qquad$
blood (frame 82)
c. Spleno:
spleen (frame 84)
d. lympho: $\qquad$
lymph (frame 83)
e. phago: $\qquad$
to eat (frame 85)
87. To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. Cytology is the study of
$\qquad$ .
cells (frame 81)
b. Hematology is the study of
$\qquad$ .
hem'ah tol'o-je
blood (frame 82)
c. A lymphocyte is a $\qquad$ cell.
lymph (frame 83)
d. Splenectomy means excising of the $\qquad$ .
spleen (frame 84)
e. Polyphagia means excessive
$\qquad$ -.
pol"e-fa'je-ah eating (frame 85)

If you missed any of the questions in frames 86 and 87 , please review the appropriate frame(s) before continuing to frame 88.

Section X. STEMS - PERTAINING TO THE ENDOCRINE SYSTEM


The endocrine system is composed of glands which release hormones into the blood stream.
88. Acro is a stem which means extremity. Acromegaly is a disease characterized by enlargement of the bones of the $\qquad$ .
ak"ro meg' ah-le

extremities
89. Gluco and glyco are stems which mean sugar. A person with glucosuria has $\qquad$ in the urine.
gloo"ko-su're-ah

90. Adeno is a stem which means gland. Adenectomy is a word meaning surgical removal of a $\qquad$ .
ad"e-nek' to-me

gland
91. As a review, give the meaning of the following stems:
a. acro:
extremity (frame 88)
b. gluco/glyco: $\qquad$
sugar (frame 89)
c. adeno: $\qquad$
gland (frame 90)
92. To further reinforce what you have learned, fill in the blank with the appropriate terms:
a. Acrodermatitis is a word that means inflammation of the skin of the
$\qquad$ .
ak"ro-der"mah-ti'tis
extremities (frame 88)
b. A person with glucosuria has
_ in the urine.
sugar (frame 89)
c. A person who has had an adenectomy has had surgical removal of a $\qquad$ .
gland (frame 90)

If you missed any of the questions in frames 91 and 92, please review the appropriate frame(s) before continuing to frame 93.

Section XI. STEMS - PERTAINING TO THE NERVOUS SYSTEM AND PSYCHIATRIC DISORDERS


The nervous system along with the endocrine system correlates our adjustments and reactions to internal and environmental conditions.
93. Neuro is a stem which means nerve. Polyneuritis means inflammation of many $\qquad$ .
pol"e-nu-ri'tis

nerves
94. Cerebro and encephalo are stems which mean brain. Encephalitis, for example, means inflammation of the
$\qquad$ -
en"sef-ah-li'tis

brain
95. Psycho and mento are stems which mean mind. Psychology is the science that studies the $\qquad$ .
si-kol 'o-je


PSYCHO /
MENTO

PSYCHOLOGY
MENTAL
mind
96. Mania is a stem which means madness. Pyromania, for example, means fire $\qquad$ .
pi"ro-ma'ne-ah


PYROMANIA
madness
97. Phobia is a stem which means fear. $\overline{\text { A person with hydrophobia has a }}$
$\qquad$ of water.
hi"dro-fo'be-ah


## HYDROPHOBIA

fear feeling or sensation. Anesthesia means without $\qquad$
or $\qquad$ .
an"es-the'ze-ah

feeling/sensation
99. As a review, give the meaning of the following terms:
a. neuro:
nerve (frame 93)
b. cerebro/enchephalo: $\qquad$
brain (frame 94)
c. psycho/mento: $\qquad$
mind (frame 95)
d. mania: $\qquad$
madness (frame 96)
e. phobia: $\qquad$
fear (frame 97)
f. esthesia:
feeling/sensation (frame 98)
100 To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. Polyneuritis is an inflammation of many $\qquad$ .
nerves (frame 93)
b. Encephalitis is an inflammation of the $\qquad$ .
brain (frame 94)
c. Psychology is the science that studies the $\qquad$ -.
mind (frame 95)
d. Pyromania means fire
$\qquad$ .
e. A person with hydrophobia has a of water.
madness (frame 96)
fear (frame 97)
f. Anesthesia means without
$\qquad$ —.
feeling/sensation (frame 98)

If you missed any of the questions in frames 99 and 100, please review the appropriate frame(s) before continuing to frame 101.

Section XII. STEMS - PERTAINING TO THE GENITOURINARY SYSTEM


The genitourinary system includes the genitals and the urinary organs.

101 Nephro and rena are stems which mean kidney. A person who has had a nephrectomy has had a
$\qquad$ removed.
ne-frek'to-m


102 Uretero is a stem which means ureter. A person who has ureteritis has an inflammation of the
$\qquad$ _.
u"re-ter-i'tis

ureter
103 Cysto is a stem which means bladder. A person who has cystitis has an inflammation of the
$\qquad$ -.
sis-ti-tis

bladder
104 Urethro is a stem meaning urethra. Urethritis is an inflammation of the.
u"re-thri'tis

urethra

105 Orchio is a stem which means testes. Orchiopexy means fixation of the
$\qquad$
or"ke-o-pek'se _. .

c. cysto: $\qquad$
bladder (frame 103)
d. urethro: $\qquad$
urethra (frame 104)
e. orchio: $\qquad$
testes (frame 105)
f. uro/uria:
urine (frame 106)
g. lith:
stone (frame 107)
109 To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. A person who has had a nephrectomy has had a $\qquad$ removed.
kidney (frame 101)
b. A person who has ureteritis has an inflammation of the $\qquad$ .
ureter (frame 102)
c. Someone who has cystitis has an inflammation of the $\qquad$ .
bladder (frame 103)
d. Urethritis is an inflammation of the
$\qquad$ -.
urethra (frame 104)
e. Orchiopexy is the fixation of the
$\qquad$ .
testes (frame 105)
f. Nephrolithiasis is the formation of renal $\qquad$ .
stones (frame 107)

If you missed any of the questions in frames 108 and 109, please review the appropriate frame(s) before continuing to frame 110.

## Section XIII. STEMS - PERTAINING TO GYNECOLOGY AND OBSTETRICS

FEMALE REPRODUCTIVE SYSTEM


Gynecology and obstetrics relates to the female reproductive system and birth.

110 Hystero and metro are stems which mean uterus or womb. A woman who has had a hysterectomy, for example, has had her $\qquad$ removed.
his"te-rek'to-me


HYSTERECTOMY ENDOMETRITIS
uterus

111 Oophoro is a stem which means ovary. A woman who has had an oophorectomy has had her
$\qquad$ removed.
o"of-o-rek'to-me


112 Salpingo is a stem which means tube. A woman who has salpingitis has an inflammation of a
$\qquad$ -.
sal"pin-ji'tis

tube
113 As a review, give the meaning of each of the following terms:
a. hystero/metro: $\qquad$
uterus/womb (frame 110)
b. oophoro: $\qquad$
ovary (frame 111)
c. salpingo: $\qquad$

> tube (frame 112)

114 To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. A woman who has had a hysterectomy has had her
$\qquad$ removed.
uterus (frame 110)
b. When a woman has an oophorectomy, she has an
$\qquad$ removed.
ovary (frame 111)
c. A woman who has salpingitis has an inflammation of the $\qquad$ .
tube (frame 112)

If you missed any of the questions in frames 113 and 114, please review the appropriate frame(s) before continuing to frame 115.

## SENSORY ORGANS



## SENSORY ORGANS



The sensory organs, as you know, include the eye and the ear.

115 Oto is a stem which means ear. Otoplasty, for example, means plastic repair of the $\qquad$ .

o'to-plas"te

## OTOPLASTY

ear
116 Tympano and myringo are stems which refer to the eardrum. A tympanoplasty means plastic repair of the $\qquad$ .
tim"pah-no-plas'te

eardrum

of"thal-mol'o-je

OPHTHALMOLOGY OCULAR
eye

118 Opto is a stem which means vision. An optometrist is a person who is trained to examine eyes in order to determine the presence of
$\qquad$ problems.

op-tom'e-trist


vision
119 Blepharo is a stem which means eyelid. Blepharitis means inflammation of the $\qquad$ .
blef"ah-ri'tis

## BLEPHARO BLEPHARITIS

eyelid

Kerato is a stem which means cornea. Keratitis means inflammation of the $\qquad$ .
ker"ah-ti'tis

cornea
121 Dacryo is a stem which means tear. A person with dacryocystitis has inflammation of the $\qquad$ sac.
dak"re-o-sis-ti'tis

122 As a review, give the meaning of each of the following terms:
a. oto: $\qquad$

> ear (frame 115)
b. tympano/myringo: $\qquad$
eardrum (frame 116)
c. ophthalmo/oculo: $\qquad$
eye (frame 117)
d. opto:
vision (frame 118)
e. blepharo:
eyelid (frame 119)
f. kerato:
cornea (frame 120)
g. dacryo:
tear (frame 121)
123 To further reinforce what you have learned, fill in the blanks with the appropriate terms:
a. Otoplasty is the plastic repair of the $\qquad$ .
ear (frame 115)
b. A tympanoplasty is the plastic repair of the $\qquad$ .
c. Ophthalmology is the science dealing with the $\qquad$ and its diseases.

> eye (frame 117)
d. An optometrist is a person who is trained to examine eyes in order to determine the presence of
$\qquad$ problems.
vision (frame 118)
e. Blepharitis is an inflammation of the $\qquad$ .

> eyelid (frame 119)
f. Keratitis is an inflammation of the
$\qquad$ -.
cornea (frame 120)
g. A person with dacryocysitis has an inflammation of the $\qquad$ sac.
tear (frame 121)

If you missed any of the questions in frames 122 and 123, please review the appropriate frame(s) before continuing to frame 124.

Section XV: STEMS - MISCELLANEOUS STEMS

## EMESIS



124 Pyo is a stem meaning pus. The word pyogenic means producing
$\qquad$ -.


## PYOGENIC

pus
125 Lipo is a stem which means fat. A lipoma is a tumor composed of
$\qquad$ .
li-po mah

126 Febri is a stem which means fever. A person who is afebrile is without
$\qquad$ —.
a-feb'ril


127 Myco is a stem which means fungus. Mycosis is any disease caused by a
$\qquad$ .
mi-ko'sis

LIPOMA
fat
fever

fungus

128 Necro is a stem which means dead. A necropsy is an autopsy or scientific inspection of a $\qquad$ body.


NECRO
nek'rop-se
NECROPSY
dead
129 Emesis is a stem which means vomit. Hyperemesis is a word which means excessive $\qquad$ .


HYPEREMESNS
vomiting
130 As a review, give the meaning of each of the following terms:
a. pyo: $\qquad$
pus (frame 124)
b. lipo:
fat (frame 125)
c. febri:

## fever (frame 126)

d. myco: $\qquad$
fungus (frame 127)
e. necro:
dead (frame 128)
f. emesis:
vomiting (frame 129)
131 To further reinforce what you have learned, fill in the blanks with the appropriate words:
a. The term pyogenic means producing $\qquad$ _.
pus (frame 124)
b. A lipoma is a tumor composed of
$\qquad$ .
fat (frame 125)
c. A person who is afebrile is without
$\qquad$ .
fever (frame 126)
d. Mycosis is any disease caused by a $\qquad$ .
fungus (frame 127)
e. A necropsy is an autopsy or scientific inspection of a body.
dead (frame 128)
f. Hyperemesis is excessive
$\qquad$ .

If you missed any of the questions in frames 130 and 131, please review the appropriate frame(s) before continuing.

You have now completed the first part of this programmed text on medical terminology.
Congratulations!
As a fun review and exercise, you can complete the stem crossword puzzle on the following page before completing the self-assessment questions starting on page 2-71.

## Continue with Self-Assessment

## Section XVI. MEDICAL TERMINOLOGY CROSSWORD PUZZLE

Fill in the combining forms for the stems listed below the puzzle.
Solutions are on page 2-78.



## Section XVII. SELF-ASSESSMENT \#1

To evaluate how well you have learned the stems covered in lesson 2, complete the self-assessment \#1 questions. This self-assessment is to assist you in determining whether you need to go back and review parts of lesson 2 before going to lesson 3 . The answers to the questions are given on pages 2-75 and 2-76.

## SELF-ASSESSMENT \#1

## Stems

LISTED BELOW IN COLUMN "A" ARE 15 OF THE 100 LATIN AND GREEK STEMS GIVEN TO YOU. IN COLUMN "B" ARE THE ENGLISH MEANINGS OF THE STEMS. MATCH THE TWO, AND WRITE THE ENGLISH MEANING FROM COLUMN "B" IN COLUMN "A."

EXAMPLE: GLAND ADENO

COLUMN A
1.
 OSTEO
2.
 ARTHRO CARDIO
3. $\qquad$
4. $\qquad$ URO/URIA

COLUMN B
A. URINE
B. BLOOD
C. CELL
D. RIB
5.

E. TONGUE
F. GALLBLADDER
G. BONE
H. KIDNEY
I. NERVE
J. STOMACH
K. HEART
L. EXTREMITY
M. FAT
N. CLOT
O. JOINT

## SELF-ASSESSMENT QUIZ \#1

## STEMS

FOR EACH OF THE MULTIPLE CHOICE QUESTIONS BELOW, SELECT THE ONE MOST APPROPRIATE ANSWER. CIRCLE THE ANSWER.
16. THE STEM "CHONDRO" IN THE WORD CHONDRITIS MEANS:
A. TENDON
C. CARTILAGE
B. RIB
D. JOINT
17. THE STEM "MYO" IN THE WORD MYOPLASM MEANS:
A. CARTILAGE
C. BONE
B. MUSCLE
D. VEIN
18. THE STEM "HEPATO" IN THE WORD HEPATITIS MEANS:
A. BLOOD
C. KIDNEY
B. LIVER
D. NAIL
19. THE STEM "ADENO" IN THE WORD ADENECTOMY MEANS:
A. BLADDER
C. ABDOMINAL WALL
B. GALLBLADDER
D. GLAND
20. THE STEM "MYCO" IN THE WORD MYCOSIS MEANS:
A. SKIN
C. CLOT
B. CELL
D. FUNGUS
21. THE STEM "EMESIS" IN THE WORD HYPEREMESIS MEANS:
A. SCANT
C. VOMITING
B. EXCESSIVE
D. EXIT
22. THE STEM "FEBRI" IN THE WORD AFEBRILE MEANS:
A. FEVER
C. FAT
B. FUNGUS
D. FEELING
23. THE STEM "ENCEPHALO" IN THE WORD ENCEPHALITIS MEANS:
A. BRAIN
C. SPINE
B. HEAD
D. TOOTH
24. THE STEM "ARTERIO" IN THE WORD ARTERIOSCLEROSIS MEANS:
A. VEIN
C. JOINT
B. ARTERY
D. CARTILAGE
25. THE STEM "LAPARO" IN THE WORD LAPARATOMY MEANS:
A. ABDOMINAL WALL
C. URINARY BLADDER
B. CELL WALL
D. STOMACH

Check your answers on the following pages

## Stems

1. $G$ (BONE) OSTEO
2. O (JOINT) ARTHRO
3. K (HEART) CARDIO
4. A (URINE) URO/URIA
5. M (FAT) LIPO
6. B (BLOOD) HEMO/HEMATO
7. N (CLOT) THROMBO
8. C (CELL) CYTO
9. $\mathrm{D}(\mathrm{RIB}) \mathrm{COSTO}$
10. E (TONGUE) LINGUA/GLOSSA
11. F (GALLBLADDER) CHOLECYSTO
12. H (KIDNEY) NEPHRO/RENA
13. I (NERVE) NEURO
14. J (STOMACH) GASTRO
15. L (EXTREMITY) ACRO

SOLUTIONS FOR SELF-ASSESSMENTQUIZ \#1
Stems
16. THE STEM "CHONDRO" IN THE WORD CHONDRITIS MEANS:
C. CARTILAGE
17. THE STEM "MYO" IN THE WORD MYOPLASM MEANS:
B. MUSCLE
18. THE STEM "HEPATO" IN THE WORD HEPATITIS MEANS:
B. LIVER
19. THE STEM "ADENO" IN THE WORD ADENECTOMY MEANS:
D. GLAND
20. THE STEM "MYCO" IN THE WORD MYCOSIS MEANS:
D. FUNGUS
21. THE STEM "EMESIS" IN THE WORD HYPEREMESIS MEANS:
C. VOMITING
22. THE STEM "FEBRI" IN THE WORD AFEBRILE MEANS:
A. FEVER
23. THE STEM "ENCEPHALO" IN THE WORD ENCEPHALITIS MEANS:
A. BRAIN
24. THE STEM "ARTERIO" IN THE WORD ARTERIOSCLEROSIS MEANS:
B. ARTERY
25. THE STEM "LAPARO" IN THE WORD LAPARATOMY MEANS:
A. ABDOMINAL WALL

1. eye
2. ear
3. birth/fever
4. tube
5. ovary
6. stone
7. urine
8. testicle
9. bladder
10. urethra
11. gall
12. uterus, tubes, and ovaries
13. herniation
14. feeling/sensation
15. fear
16. disorder
17. bone
18. brain (cerebrum)
19. nerve
20. sugar
21. swelling
22. extremities
23. eating
24. spleen
25. lymph
26. brain
27. fat
28. pus
29. tears
30. cells
31. clot
32. arteries
33. veins
34. vessel
35. vessel
36. liver
37. rectum/anus
38. colon
39. jejunum - ileum
40. mental
41. intestine
42. stomach
43. gums
44. tears
45. lips
46. duodenum
47. mouth
48. breathing
49. air
50. abdominal wall
51. tongue
52. bronchial
53. nose
54. nose
55. larynx
56. nails
57. ribs
58. abdomen
59. tendon
60. muscle
61. spinal cord
62. cartilage
63. joint
64. tympanic membrane
65. cornea
66. pharynx
67. eyelid
68. blood
69. dead
70. fungus

Go to Lesson 3
Continue with Lesson 2

SOLUTION TO MEDICAL TERMINOLOGY CROSSWORD PUZZLE


## LESSON ASSIGNMENT

## LESSON 3

LESSON ASSIGNMENT

LESSON OBJECTIVES

Prefixes Pertaining to Medical Terminology.

Lesson 3, frame numbers 132-198.
After completing this lesson, you should be able to:
3-1. Given 10 of the 50 Latin and Greek medical related prefixes and a list of English meanings for these prefixes, write the English meaning in the space provided without error.

3-2. Given 10 multiple choice questions on medical prefixes, select the most appropriate answer without error.

## LESSON 3

## Section I. PRETEST \#2

Before you turn to frame 132 and begin work on your study of prefixes in medical terminology, complete pretest \#2. The pretest contains 31 questions relating to medical terminology prefixes. If you correctly answer $90 \%$ or more of the questions, you pass the pretest. A score of $90 \%$ on this pretest is 27 correct answers.

Write your answers in the space provided in each question.

1. Malnutrition means $\qquad$ nutrition.
2. Noctiphobia is an abnormal fear of $\qquad$ .
3. Dysmenorrhea means $\qquad$ menstrual flow.
4. Hydrotherapy is treatment with $\qquad$ -.
5. Macrorhinia means $\qquad$ nose.
6. A baby born with a microcephalus had a very $\qquad$ head.
7. A melanoma is a $\qquad$ tumor.
8. Cyanopia is a defect in vision that causes objects to appear
$\qquad$ -.
9. Erythroderma means $\qquad$ skin.
10. A leukoblast is a $\qquad$ embryonic cell.
11. Oligopnea means $\qquad$ breathing.
12. Bradypepsia means $\qquad$ digestion.
13. Tachyphasia means $\qquad$ speech.
14. A monocyte has $\qquad$ cell(s).
15. Asepsia means $\qquad$ infection.
16. Hyperalgesia is $\qquad$ sensitivity to pain.
17. Hemifacial means pertaining to one $\qquad$ of the face.
18. Polyarthritis means inflammation of $\qquad$ joints.
19. Ectogenous is something produced $\qquad$ an organism.
20. Pericolic is a word for $\qquad$ the colon.
21. A medication administered hypoglossal is placed $\qquad$ the tongue.
22. Subaural means $\qquad$ the ear.
23. Postcibal means $\qquad$ meals.
24. Ectocytic means $\qquad$ the cell.
25. An antiseptic is a drug that works $\qquad$ infection.
26. Endocranial means $\qquad$ the cranium.
27. Retrosternal means $\qquad$ the sternum.
28. Ante mortem is $\qquad$ death.
29. Preoperative is $\qquad$ surgery.
30. An interdental cavity is $\qquad$ the teeth.
31. Bilateral means pertaining to $\qquad$ side(s).

Check your answers on page 3-39

## Section II. PREFIXES - GENERAL INFORMATION

Prefixes are one or more letters or syllables which come before the stem (at the beginning of a word) to explain or add meaning to the rest of the term.

132 A prefix comes $\qquad$ the stem.

> before

133 In the term unforgettable, "forget" is the stem and "un" is the $\qquad$ .
prefix
134 In the words implant, supplant, and transplant, the prefixes are $\qquad$ ,
$\qquad$ , and $\qquad$ .
imp/sup/trans
135 You can change the meaning of a term by putting a prefix before the
$\qquad$
.

> stem

136 Prefixes are the most frequently used elements in the formation of Greek and Latin words, but not every word contains a $\qquad$ -.
prefix

137 Prefixes may be divided into various categories of meaning depending on how they modify the stem, such as location, time, amount, color, negation, size, or position. Prefixes may be divided into various categories of
$\qquad$ -.

138 To reinforce what you have learned, please write the correct word in each of the blanks in the following sentences.
a. A prefix comes $\qquad$ the stem.
before (frame 132)
b. In the term unforgettable, "forget" is the stem and "un" is the $\qquad$ .
prefix (frame 133)
c. In the words implant, supplant, and transplant, the prefixes are $\qquad$
$\qquad$ , and $\qquad$ _.
imp/sup/trans (frame 134)
d. You can change the meaning of a term by putting a prefix before the
$\qquad$ _.

> stem (frame 135)
e. Not every Greek or Latin word contains a $\qquad$ -.
prefix (frame 136)
f. Prefixes may be divided into various categories of $\qquad$ -
meaning (frame 137)

If you missed any of the questions in frame 138, please review the appropriate frame(s) before continuing to frame 139.


## Section III. PREFIXES - PERTAINING TO LOCATION

We will now study the prefixes that indicate location.

139 The prefix intra- means inside or within. The dash after intra- indicates that the stem comes $\qquad$ (before, after) the prefix.
after
140 By combining the prefix intra- with the stem abdominal, you know it means
$\qquad$ the abdomen.
in"trah-ab-dom'i-nal


INTRA-ABDOMINAL ENDOMETRITIS
inside/within

141 Endo- is also a prefix meaning within or inside. Metro is the stem meaning uterus. Endometritis, then, is a word which means inflammation
$\qquad$ the uterus.
en"do-me-tri'tis


## INTRA-ABDOMINAL ENDOMETRITIS

inside/within

## PERI



PERICARDITIS
around/surrounding

## EC/ECTO



ECTOPIC PREGNANCY
outside

144 Em- and en- are also prefixes which mean within or inside. Empyema, for example, means pus $\qquad$ a body cavity.
em"pi-e'mah
EM/EN


EMPYEMA
inside/within

## RETRO/POST

 mean behind. Retrocardial means located $\qquad$ the heart and postnasal means situated$\qquad$ the nose.
ret"ro-kar'de-al post-na'zal

146 The prefixes sub- and hypo- mean under. Subcutaneous, for example, means $\qquad$ the skin, and a hypodermic needle is one that is inserted $\qquad$ the skin.
sub"ku-ta'ne-us
hi"po-der'mik


RETROCARDIAL POSTNASAL
behind, behind


SUBCUTANEOUS
HYPODERMIC
under, under

147 Inter- is a prefix meaning between.
The stem, costal, means ribs.
Therefore, intercostal muscles are muscles which are $\qquad$ the ribs.
in"ter-kos'tal
$\qquad$

$\qquad$

## INTER

148 In review, given the meaning of each of the following prefixes which indicate location:
a. intra-/endo-: $\qquad$
b. peri-:
inside/within (frames 140 \& 141)
around/surrounding (frame 142)
out/outside (frame 143)
within/inside (frame 144)
behind (frame 145)
f. sub-/hypo-: $\qquad$

## between



149 To further reinforce what you have learned, write the correct word in each of the blanks in the following sentences:
a. The dash after intra- indicates that the stem comes $\qquad$ (before, after) the prefix.

> after (frame 139)
b. Intra-abdominal means
$\qquad$ the abdomen.
inside/within (frame 140)
c. Endometritis means inflammation the uterus.
inside/within (frame 141)
d. Pericarditis means inflammation
$\qquad$ the heart.

> around (frame 142)
e. Ectopic pregnancy is one which occurs $\qquad$ the uterine cavity.
outside (frame 143)
f. Empyema is a condition where there is an accumulation of pus $\qquad$ a body cavity.
inside/within (frame 144)
g. Retrocardial means located
$\qquad$ the heart.
h. Postnasal means situated
$\qquad$ the nose.
i. Subcutaneous indicates
$\qquad$ the skin.
under (frame 146)
j. A hypodermic needle is one that is inserted $\qquad$ the skin.
under (frame 146)
k. Intercostal muscles are muscles which are $\qquad$ the ribs.
between (frame 147)

If you missed any of the questions in frames 148 and 149, please review the appropriate frame(s) before continuing to frame 150.

## Section IV. PREFIXES - PERTAINING TO TIME

We will now study the prefixes that indicate time.

150 The prefixes ante- and pre- mean before. By combining the prefix antewith the stem partum, you know that antepartum means $\qquad$ childbirth.
an'te-par'tum

ANTEPRE


ANTEPARTUM
PREOPERATIVE
before

151 A preoperative medication is a medication which is given
$\qquad$ (before, during, after)
surgery.
pre-op'er-a-tiv

## ANTE/PRE



ANTEPARTUM PREOPERATIVE

152 The prefix post- also means after. Consequently, a postoperative complication is a complication which occurred (before, during, after) surgery.
post-op'er-a-tiv


POST PARTUM POSTOPERATIVE
after

153 In review, give the meaning of each of the following prefixes which indicate time:
a. ante-: $\qquad$
before (frame 150)
b. pre-: $\qquad$
before (frame 151)
c. post-: $\qquad$
after (frame 152)
154 To further reinforce what you have learned, please write the correct word in each of the blanks in the following sentences:
a. Antepartum means $\qquad$ childbirth.
b. A preoperative medication is one which is given $\qquad$ surgery.
before (frame 151)
c. A postoperative complication is one occurring $\qquad$ surgery.
after (frame 152)

If you missed any of the questions in frames 153 and 154, please review the appropriate frame(s) before continuing to frame 155.

## Section V : PREFIXES - PERTAINING TO NEGATION

We will now study prefixes that indicate negation.

155 The prefixes a- or- an mean without or absence of. Therefore, afebrile means
$\qquad$ fever.
a-feb'ril
$\square$


A/AN
Without
AFEBRILE
ANESTHESIA
without/absence of

## A/AN

Without
AFEBRILE
ANESTHESIA
without

157 The prefix anti- means against. The term antitoxin means $\qquad$ toxin or poison.
an"ti-tok'sin

158 In review, give the meaning of each of the following prefixes which indicate negation:
a. $\mathrm{a}-:$ $\qquad$
without/absence of (frame 155)
b. an-: $\qquad$
c. anti-:

159 To further reinforce what you have learned, please write the correct word in each of the blanks in the following sentences:
a. Afebrile means $\qquad$ fever.
without/absence of (frame 155)
b. Anesthesia means $\qquad$ feeling.
without/absence of (frame 156)
c. Antitoxin means $\qquad$ toxin or poison.

against

If you missed any of the questions in frames 158 and 159, please review the appropriate frame(s) before continuing to frame 160.

## Section VI. PREFIXES - PERTAINING TO AMOUNT OR COMPARISON

We will now study prefixes thatindicate amount or comparison.

160 Uni and mono- are prefixes which mean one or single. Monocyte, for example, refers to a $\qquad$ cell. A unicycle has one wheel.
mon'o-sit


MONOCYTE
single

two
162 The prefix for three is tri. Therefore, the valve in the heart which has
$\qquad$ parts is called the tricuspid valve. A tricycle has three wheels.
tri-kus'pid


TRICUSPID
three

163 The prefix quadri- means four. A person with quadriplegia has paralysis in all $\qquad$ limbs.
kwod"ri-ple'je-ah

## QUADRIPLEGIA

four
164 The prefixes multi- and poly- mean many or much. A person with polyneuritis has inflammation of
$\qquad$ nerves.
pol"e-nu-ri'tis


POITNELETIS
muLTIPARA
many
165 The prefixes hemi- and semi-mean half. A person with hemiplegia has paralysis on one- $\qquad$ of the body.
hem"e-ple'je-ah
HEMLSEMI


HEMIPLEGIN SEMICONSCIOUS
half
166 A person who is semiconscious is
$\qquad$ conscious.
sem"e-kno'shus

half

167 The prefix hypo- also means too little, or low. Therefore, a person with hypotension has $\qquad$ blood pressure.
hi"po-ten'shun

HYPO


HYPOTENSION
low


HYPERTENSION
high

EMESIS


HYPEREMESIS

hyper

170 The prefix for fast is tachy-. A person with tachycardia has an abnormally
$\qquad$ heartbeat.
tak'e-kar'de-ah

fast
171 The prefix for slow is brady-. A person with bradycardia has an abnormally
$\qquad$ heartbeat.
brad"e-kar'de-ah

slow

# OLIGO 



OLIGURIA

little/scanty

173 In review, give the meaning of each of the following prefixes which indicate amount or comparison:
a. Mono-: $\qquad$
one/single (frame 160)
b. $\mathrm{Bi}-:$
two/double (frame 161)
c. Tri-:
three (frame 162)
d. Quadri: $\qquad$
four (frame 163)
e. Multi-/Poly-: $\qquad$
many/much (frame 164)
f. Hemi-/Semi-: $\qquad$

> half (frame 165)
g. Hypo-: $\qquad$
low (frame 167)
h. Hyper-: $\qquad$
high (frame 168)
i. Tachy-: $\qquad$
fast (frame 170)
j. Brady-:
slow (frame 171)
k. Oligo-: $\qquad$
little/scanty (frame 172)

> 174 To further reinforce what you have learned, please write the correct word in each of the blanks in the following sentences.
a. Monocyte refers to a $\qquad$ cell.
single (frame 160)
b. Bilateral refers to $\qquad$ sides.
two (frame 161)
c. The tricuspid valve in the heart has
$\qquad$ parts.
three (frame 162)
d. A person with quadriplegia has paralysis of $\qquad$ limbs.
four (frame 163)
e. The medical term polyneuritis indicates inflammation of $\qquad$ nerves.
many (frame 164)
f. When a person has hemiplegia, he has paralysis on one- $\qquad$ of the body.
half (frame 165)
g. A person who is semiconscious is
$\qquad$ conscious.
half (frame 165)
h. A person with hypotension has blood pressure.
i. A person with hypertension has
$\qquad$ blood pressure.
j. Tachycardia indicates an abnormally
_ heartbeat.

> fast (frame 170)
k. Bradycardia refers to an abnormally heartbeat.
I. Oliguria means $\qquad$ urine.
slow (frame 171)
little/scanty (frame 172)

If you missed any of the questions in frames 173 and 174, please review the appropriate frame(s) before continuing to frame 175.

## Section VII. PREFIXES - PERTAINING TO COLOR

We will now study the prefixes that indicate color.

175 The prefix leuko- means white. A leukocyte, then, refers to a blood cell.
lu'ko-sit

white
176 Erythro- is a prefix meaning red. An erythrocyte, therefore, refers to a
$\qquad$ blood cell.
e-rith'ro-sit

red
177 Cyano- is a prefix meaning blue. Cyanosis refers to a $\qquad$ condition of the skin.
si"ah-no'sis

blue/bluish

178 Melano- is a prefix meaning dark or black. A melanoma is a malignant or tumor.
mel"ah-no'mah

## MELANO



MELANOMA

dark/black

Oh! Beauty rare with eyes cyano, Shimmering, shining hair melano, Pearly teeth, and lips erythro, Cheeks where only peaches will grow, Warm and lovely skin so leuko, Come with me into my nook-o?

179 In review, give the meaning of each of the following prefixes which indicates color.
a. Leuko-: $\qquad$

> white (frame 175)
b. Erythro-: $\qquad$
red (frame 176)
c. Cyano-: $\qquad$
blue (frame 177)
d. Melano-: $\qquad$

180 To further reinforce what you have learned, please write the correct word in each of the blanks in the following sentences.
a. A leukocyte is a $\qquad$ blood cell.
white (frame 175)
b. An erythrocyte is a $\qquad$ blood cell.
red (frame 176)
c. Cyanosis is a condition of the skin.
blue (frame 177)
d. When someone has a melanoma, he has a malignant $\qquad$ mole or tumor.
dark/black (frame 178)

If you missed any of the questions in frames 179 and 180 , please review the appropriate frame(s) before continuing to frame 181.

## Section VIII. PREFIXES - PERTAINING TO SIZE AND POSITION

We will now study the prefixes thatindicate size.

181 Micro- is a prefix meaning small. A cyte is a stem meaning cell. A microcyte, therefore, is a very
$\qquad$ cell.
mi'kro-sit


MICROCYTE
small

microcardia
183 Macro- is a prefix which means the opposite of micro. Macro- is used in words to mean $\qquad$ .
mak'ro-sit

large

184 Things that are macroscopic can be seen with the naked eye. Very large cells are called $\qquad$ cytes.
mak"ro-scop'ik

macrocytes
185 Mega- is also a prefix which means large. A megacolon is an abnormally
$\qquad$ colon.
meg"ah-ko'lon

large
We will now study the prefixes that indicate position.

186 Antero- is a prefix meaning anterior part or in front of. Latero- is a prefix meaning side. Therefore, anterolateral means situated in $\qquad$ and to one
$\qquad$ .
an"ter-o-lat'er-al

front/side

187 Dextro- is a prefix which means to the right. Dextrocardia, therefore, refers to having the heart on the $\qquad$ side of the body.
deks"tro-kar'de-ah

188 Levo- is a prefix meaning to the left. Levoversion is a term which means the act of turning to the $\qquad$ .
le"vo-ver'zhun

189 Medio- is a prefix meaning middle.
The medial part of the body pertains to the
$\qquad$ -.
me'de-al
left


DEXTROCARDIA
right

middle
e

190 In review, give the meaning of each of the following prefixes which indicate size and position.
a. Micro: $\qquad$
b. Macro-: $\qquad$
large (frame 183)
c. Mega-: $\qquad$
large (frame 185)
d. Antero-: $\qquad$
to the front (frame 186)
e. Latero-: $\qquad$
to the side (frame 186)
f. Dextro-:
to the right (frame 187)
g. Levo-: $\qquad$
to the left (frame 188)
h. Medio-: $\qquad$
middle (frame 189)
191 To further reinforce what you have learned, please write the correct word in each blank in the following sentences.
a. A microcyte is a very cell.
small (frame 181)
b. Macrocytes are very $\qquad$ cells.
large (frame 183)
c. A person with a megacolon has an abnormally $\qquad$ colon.
d. Anterolateral means in
$\qquad$ .
front/side (frame 186)
e. If the heart is on the side of the body, it is referred to as dextrocardia.
right (frame 187)
f. Levoversion means the act of turning to the $\qquad$ _.
left (frame 188)
g. The medial part of the body is called the $\qquad$ part.
middle (frame 189)

If you missed any of the questions in frames 190 and 191, please review the appropriate frame(s) before continuing to frame 192.

## Section IX. PREFIXES - PERTAINING TO MISCELLANEOUS ITEMS

We will now conclude our study of the prefixes with some miscellaneous ones.

192 Hydro- is a prefix meaning water. Hydrophobia, then, means fear of
$\qquad$ -.
hi"dro-fo'be-ah

water

disp'ne-ah
DYSPNEA
difficult/painful

nok-tu're-ah
NOCTURIA
night

195 Mal- is a prefix meaning bad.
Malodorous means having a
$\qquad$ odor.
mal-o'der-es

196 Pan- is a prefix meaning total or all. A panhysterectomy, therefore, is a
$\qquad$ hysterectomy.
pan"his-ter-ek'to-me

\title{

\section*{bad

# \section*{bad <br> <br>  <br> <br>  <br> <br> PAN <br> <br> PAN <br> <br> PANHYSTERECTOMY <br> <br> PANHYSTERECTOMY <br> <br> total 

 <br> <br> total}

197 In review, give the meaning of each of the following prefixes.
a. Hydro-: $\qquad$
water (frame 192)
b. Dys-: $\qquad$
difficult/painful (frame 193)
c. Nox/Noct-: $\qquad$
night (frame 194)
d. Mal-: $\qquad$
bad (frame 195)
e. Pan-: $\qquad$
all or total (frame 196)

198 To further reinforce what you have learned, please write the correct word in each blank in the following sentences.
a. A person with hydrophobia has a
$\qquad$
fear (frame 192)
b. A patient with dyspnea would be experiencing $\qquad$ or
$\qquad$ breathing.
difficult/painful (frame 193)
c. Nocturia means urination at
$\qquad$ .
night (frame 194)
d. If something is malodorous, it has a
$\qquad$ odor.
bad (frame 195)
e. A panhysterectomy is a
$\qquad$ hysterectomy.
total (frame 196)

If you missed any of the questions in frames 197 and 198, please review the appropriate frame(s) before continuing.

## Continue with Self-Assessment

## Section X. SELF-ASSESSMENT \#2

You have now completed lesson 3. To evaluate how well you have learned the prefixes covered in lesson 3, complete the self-assessment \#2 questions. This self-assessment is to assist you in determining whether you need to go back and review parts of lesson 3 before going to lesson 4.

When you have completed lesson 3 to your satisfaction, go to lesson 4.

## SELF-ASSESSMENT \#2

## Prefixes

LISTED BELOW IN COLUMN "A" ARE 10 OF THE 50 LATIN AND GREEK PREFIXES GIVEN TO YOU. IN COLUMN "B" ARE THE ENGLISH MEANINGS OF THESE PREFIXES. MATCH THE TWO, AND WRITE THE ENGLISH MEANING FROM COLUMN "B" IN COLUMN "A."

EXAMPLE: $\mathrm{BI}=$ TWO

COLUMN A
COLUMN B
1.
 HYPO
2. $\qquad$ NOX, NOCT
3. $\qquad$ POLY
4. $\qquad$ CYANO
D. FAST
5. $\qquad$ INTER
E. AROUND/SURROUNDING
F. ONE
G. EXCESSIVE/TOO MUCH
H. MANY/MUCH
I. BLUE
J. NIGHT

## SELF-ASSESSMENT QUIZ \#2

## PREFIXES

FOR EACH OF THE MULTIPLE CHOICE QUESTIONS BELOW, SELECT THE ONE MOST APPROPRIATE ANSWER. CIRCLE THE ANSWER.
11. THE PREFIX "SUB" IN THE WORD SUBCUTANEOUS MEANS:
A. OVER
C. UNDER
B. RIB
D. JOINT
12. THE PREFIX "BRADY" IN THE WORD BRADYCARDIA MEANS:
A. FAST
C. LOW
B. SLOW
D. FEW
13. THE PREFIX "HYDRO" IN THE WORD HYDROPHOBIA MEANS:
A. AIR
C. GAS
B. LIQUID
D. WATER
14. THE PREFIX "A" IN THE WORD AFEBRILE MEANS:
A. WITHOUT
C. IN
B. WITHIN
D. AROUND
15. THE PREFIX "TACHY" IN THE WORD TACHYCARDIA MEANS:
A. LOW
C. SLOW
B. FAST
D. FEW
16. THE PREFIX "ERYTHRO" IN THE WORD ERYTHROCYTE MEANS:
A. BLUE
C. RED
B. WHITE
D. BLACK
17. THE PREFIX "AN" IN THE WORD ANESTHESIA MEANS:
A. WITHIN
C. IN
B. WITHOUT
D. OUT

## SELF-ASSESSMENT QUIZ \#2

## PREFIXES

18. THE PREFIX "OLIGO" IN THE WORD OLIGURIA MEANS:
A. FEW/SCANTY
C. SMALL
B. LARGE
D. MANY/MUCH
19. THE PREFIX "DEXTRO" IN THE WORD DEXTROCARDIA MEANS:
A. RIGHT
C. MIDDLE
B. LEFT
D. SIDE
20. THE PREFIX "EM" IN THE WORD EMPYEMA MEANS:
A. BETWEEN
C. OUT
B. UNDER
D. IN

Check your answers on the following pages

SOLUTIONS FOR SELF-ASSESSMENT \#2

1. B (LOW/UNDER) HYPO
2. J (NIGHT) NOX, NOCT
3. H (MANY/MUCH) POLY
4. I (BLUE) CYANO
5. A (BETWEEN) INTER
6. E (AROUND/SURROUNDING) PERI
7. C (DIFFICULT/PAINFUL) DYS
8. D (FAST) TACHY
9. F (ONE) MONO
10. G (EXCESSIVE/TOO MUCH) HYPER

SOLUTIONS FOR SELF-ASSESSMENT QUIZ \#2
11. THE PREFIX "SUB" IN THE WORD SUBCUTANEOUS MEANS:
C. UNDER
12. THE PREFIX "BRADY" IN THE WORD BRADYCARDIA MEANS:
B. SLOW
13. THE PREFIX "HYDRO" IN THE WORD HYDROPHOBIA MEANS:
D. WATER
14. THE PREFIX "A" IN THE WORD AFEBRILE MEANS:
A. WITHOUT
15. THE PREFIX "TACHY" IN THE WORD TACHYCARDIA MEANS:
B. FAST
16. THE PREFIX "ERYTHRO" IN THE WORD ERYTHROCYTE MEANS:
C. RED
17. THE PREFIX "AN" IN THE WORD ANESTHESIA MEANS:
B. WITHOUT
18. THE PREFIX "OLIGO" IN THE WORD OLIGURIA MEANS:
A. FEW/SCANTY
19. THE PREFIX "DEXTRO" IN THE WORD DEXTROCARDIA MEANS:
A. RIGHT
20. THE PREFIX "EM" IN THE WORD EMPYEMA MEANS:
D. IN

1. Poor/bad
2. Night
3. Painful/difficult
4. Water
5. Large
6. Small
7. Black
8. Blue
9. Red
10. White
11. Scant
12. Slow
13. Fast or rapid
14. One
15. Free from/without
16. Excessive
17. Half
18. Many
19. Outside
20. Around
21. Under
22. Below
23. After
24. Outside
25. Against
26. Inside
27. Behind
28. Before
29. Before
30. Between
31. Two/both

## Go to Lesson 4

## LESSON ASSIGNMENT

## LESSON 4

## LESSON ASSIGNMENT

LESSON OBJECTIVES

Suffixes Pertaining to Medical Terminology.
Lesson 4, frame numbers 199-245.
After completing this lesson, you should be able to:
Give 10 of the 35 Latin and Greek medical suffixes and a list of English meanings of these suffixes, write the English meaning in the space provided without error.

## LESSON 4

## Section I. PRETEST \#3

Before you turn to frame 199 and begin work on your study of suffixes in medical terminology, complete pretest \#3. The pretest contains 28 questions relating to medical terminology suffixes.

If you correctly answer $90 \%$ or more of the questions, you pass the pretest and should proceed to the final examination. A score of $90 \%$ on this pretest is 27 correct answers.

If you pass the pretest for lesson 2 , lesson 3, and lesson 4, with $90 \%$ accuracy, go to the final examination

Write your answers in the space provided in each question.

1. Arthropathy is a $\qquad$ of the joints.
2. Enterorrhagia means $\qquad$ of the small intestine.
3. Angiosclerosis is the $\qquad$ of blood vessels.
4. Osteomalacia means $\qquad$ of the bone.
5. Lipolysis is the $\qquad$ of fat.
6. Gastrectasia is the $\qquad$ of the stomach.
7. Cephalalgia is term for $\qquad$ in the head.
8. Cyanemia means blue $\qquad$ .
9. Myelocele is the protrusion or $\qquad$ of the spinal cord.
10. Dermatosis means any skin $\qquad$ .
11. Oophoroma is an ovarian $\qquad$ .
12. Encephalitis is $\qquad$ of the brain.
13. A cardiocentesis is a $\qquad$ of the heart.
14. Rhinorrhea is a $\qquad$ from the nose.
15. Pyeloplasty is the $\qquad$ of the renal pelvis.
16. Spermapenia means a $\qquad$ of spermatozoa.
17. A nephropexy is the $\qquad$ of a kidney.
18. An arthrotomy is an $\qquad$ into a joint.
19. Esophagoduodenostomy is a new $\qquad$ between the esophagus and the duodenum.
20. A stomatoscopy is an $\qquad$ of the mouth with an instrument.
21. Neurorrhaphy means $\qquad$ a nerve.
22. Hysteroptosis is the $\qquad$ of the uterus.
23. Hematophobia is an abnormal $\qquad$ of blood.
24. Acromegaly means that the extremities are $\qquad$ .
25. Keratectasia means $\qquad$ of the cornea.
26. Hypertrophy means $\qquad$ .
27. Appendectomy is the surgical $\qquad$ of the appendix.
28. Hepatorrhexis is the $\qquad$ of the liver.

Check your answers on page 4-32

## Section II. SUFFIXES - GENERAL INFORMATION AND DISEASES

Suffixes are the final element which we will study in analyzing medical terms. Normally, when reading or breaking down a medical word, begin with the suffix.

199 When reading or breaking down a medical term, we usually begin with the
$\qquad$ .
suffix
A suffix is a letter or syllable at the end of a word which adds meaning to the word.

A letter or syllable at the end of a word which adds to its meaning is called a
$\qquad$ .

Like prefixes, suffixes could be placed into different categories of meaning.

201 Suffixes differ from prefixes, however, in that a suffix comes (before, after) the stem.
after
Most suffixes are in common use in English, but a few are peculiar to medicine. The suffixes most commonly used to indicate disease are -itis, meaning inflammation; -
oma, meaning tumor; and
-osis, meaning condition, usually morbid.
202 Suffixes commonly used to indicate disease are $\qquad$ ,
$\qquad$ , and $\qquad$ .
itis/oma/osis


203 To further reinforce what you have learned, please write the correct word in each of the blanks in the following sentences:
a. A letter or syllable at the end of a word which adds to its meaning is called a $\qquad$ .
suffix (frame 199)
b. When reading or breaking down a medical term, we usually begin with the
$\qquad$ -.
suffix (frame 200)
c. Suffixes differ from prefixes in that a suffix comes $\qquad$ (before, after) the stem.
after (frame 201)
d. Suffixes commonly used to indicate disease are $\qquad$ _,
$\qquad$ , and $\qquad$ .
itis/oma/osis (frame 202)

If you missed any of the questions in frame 203, please review the appropriate frame(s) before continuing to frame 204.

## Section III. SUFFIXES - PERTAINING TO DIAGNOSIS

We will now look at the diagnostic suffixes.

204 The suffix -cele means hernia, protrusion, or tumor. A gastrocele, then, is a protrusion or $\qquad$ stomach.
gas'tro-sel


GASTROCELE
hernia
205 -Emia is the suffix for blood. A word we are all familiar with is leukemia, which is an abnormal amount of immature white blood cells.
Hypoglycemia is a low amount of sugar in the $\qquad$ .
lu-ke'me-ah
hi"po-gli-se'me-ah
blood
-Ectasis and -ectasia are suffixes meaning dilation, dilatation, or expansion. Angiectasis, then, is abnormal $\qquad$ of a blood vessel.
an"je-ek'tah-sis

-ECTASIS

expanding/dilation/dilatation

207 The suffix for condition, formation of, or presence of is -iasis. Nephrolithiasis, therefore, is a $\qquad$ of stones in the kidney.
nef"ro-li-thi'ah-sis


NEPHROLITHIASIS
condition


ENCEPHALITIS
inflammation

softening

210 The suffix for enlargement is -megaly. The stems for liver and spleen, as you will recall, are hepato and spleno. Hepatosplenomegaly, then, is $\qquad$ of the liver and spleen.
hep"ah-to-sple"no-meg'ah-le

enlargement
211 The suffix for hardening is -sclerosis. The stem for artery, as you will recall, is arterio. Arteriosclerosis, then, is
$\qquad$ of the arteries.
ar-te"re-o-skle-ro'sis


ARTERIOSCLEROSIS
hardening

tumor
213 The suffix for condition or disease is osis. Dermatophytosis, then, is a
$\qquad$ of fungus of the skin.
der"mah-to-fi-to'sis

condition

214 The suffix for disease is -pathy. Thus, neuropathy is a $\qquad$ of the nerves.
nu-rop'ah-the

disease
215 The suffix for prolapse or downward displacement is ptosis. The stem for eyelid, as you will recall, is blepharo. Therefore, a blepharoptosis is a __of of the eyelid.


BLEPHAROPTOSIS
downward displacement
216 The suffix for rupture is -rrhexis. Cardiiiorrhexis, then, is a of the heart.
kar"de-o-rek'sis
$\qquad$


CARDIORRHEXIS
rupture
217 The suffix for growth or nourishment is trophy. The medical term for excessive $\qquad$ , then, is hypertrophy.
hi-per'tro-fe

growth

218 The suffix for fear is -phobia. Hydrophobia, then, is a of water.
hi"dro-fo'be-ah
$\qquad$


219 In review, give the meaning of each of the following diagnostic suffixes:
a. -cele means: $\qquad$
hernia, protrusion, tumor (frame 204)
b. -emia means: $\qquad$
c. -ectasis means: $\qquad$
d. -iasis means: $\qquad$
dilation, dilatation, or expansion
(frame 206)
in the blood (frame 205)
condition, formation of, presence of
(frame 207)
e. -itis means: $\qquad$
inflammation (frame 208)
f. -malacia means: $\qquad$

> softening (frame 209)
g. -megaly means: $\qquad$
enlargement (frame 210)
h. -sclerosis means: $\qquad$
hardening (frame 211)
i. -oma means: $\qquad$
tumor (frame 212)
j. -osis means: $\qquad$
condition (frame 213)
k. -pathy means:
disease (frame 214)
I. -ptosis means: $\qquad$
prolapse/downward displacement (frame 215)
m. -rrhexis means: $\qquad$
rupture (frame 216)
n. -trophy means: $\qquad$
growth/nourishment (frame 217)
o. -phobia means: $\qquad$
fear (frame 218)
220 To further review what you have learned, please write the correct word in each of the blanks in the following sentences.
a. A gastrocele is a protrusion or of the stomach.
b. Hypoglycemia is a low amount of sugar in the $\qquad$ _.
blood (frame 205)
c. Angiectasis is abnormal of a blood vessel.
$\qquad$
dilation (frame 206)
d. Nephrolithiasis is a $\qquad$ of stones in the kidney.
dilation (frame 206)
e. Encephalitis is $\qquad$ of the brain.
inflammation (frame 208)
f. Chondromalacia is $\qquad$ of the cartilage.
softening (frame 209)
g. Hepatosplenomegaly is the $\ldots$ of the liver and spleen.
enlargement (frame 210)
h. Arteriosclerosis is $\qquad$ of the arteries.
hardening (frame 211)
i.A lipoma is a fatty $\qquad$ .
tumor (frame 212)
j. Dermatophytosis is a fungus of the skin.
k. Neuropathy is a $\qquad$ of the nerves.
I. Blepharoptosis is a $\qquad$ of the eyelid.
downward displacement (frame 215)
m . Cardiorrhexis is a $\qquad$ of the heart.
rupture (frame 216)
n. Hypertrophy is the medical term for excessive $\qquad$
growth (frame 217)
o. Hydrophobia is a $\qquad$ of water.
fear (frame 218)

If you missed any of the questions in frames 219 and 220 , please review the appropriate frame(s) before continuing to frame 221.

## Section IV. SUFFIXES - PERTAINING TO OPERATIVE PROCEDURES

Now let's look at the operative suffixes.

221 The suffix for removal or excision is -ectomy. The stem, salpingo, means tube, and the stem, oophoro, means ovary. A salpingo-oophorectomy, therefore, is the $\qquad$ or
$\qquad$ of tubes and ovaries.
sal-ping"go-o"of-o-rek'to-me

222 The stem cholecysto, as you recall, means gallbladder. Removal or excision of the gallbladder, therefore, is called a $\qquad$ .
ko"le-sis-tek'to-me

223 The suffix for inspection or examination is -scopy. A bronchoscopy, then is an
$\qquad$ of the bronchi.

cholecystectomy

removal/excision


BRONCHOSCOPY
inspection/examination

224 -stomy is the suffix meaning surgical creation of an artificial opening. Therefore, a colostomy is an
$\qquad$ into the colon.
ko-los'to-me

225 -tomy is the suffix meaning incision or cutting into. A laparotomy, then, is an
$\qquad$ in the abdominal wall.
lap-ah-rot'o-me

226 The suffix for binding or fixation is -desis. Arthrodesis, then, is the medical term for surgical
$\qquad$ of a joint.
ar"thro-de'sis


COLOSTOMY
artificial opening


LAPAROTOMY
incision
-DESIS

ARTHRODESIS
binding/fixation

227 The suffix for suspension or fixation is pexy. An orchiopexy is $\qquad$ of an undescended testis.
or"ke-o-pek'se

suspension/fixation


TYMPANOPLASTY/ RHINOPLASTY
plastic repair
229 The suffix -centesis means puncture. Arthrocentesis, therefore, means of fluid.
ar"thro-sen-te'sis
228 The suffix for plastic repair of is -plasty. Tympano, as you recall, is the stem for eardrum. Tympanoplasty, then, is the term
for $\qquad$ of the eardrum.
tim"pah-no-plas'te
,

puncture

230 The suffix for suture repair is -rrhaphy. Neurorraphy is the medical term for $\qquad$ of the nerve.

nu-ror'ah-fe
NEURORRHAPHY
suture repair
231 In review, write the meaning of each of the following operative suffixes in the blank provided.
a. -ectomy means: $\qquad$
removal/excision (frame 221)
b. -scopy means: $\qquad$
inspection/examination (frame 223)
c. -stomy means: $\qquad$
artificial opening into (frame 224)
d. -tomy means: $\qquad$
incision/cutting (frame 225)
e. -desis means: $\qquad$
binding/fixation (frame 226)
f. -pexy means: $\qquad$

## suspension/fixation

 (frame 227)g. -plasty means: $\qquad$
h. -centesis means: $\qquad$
i. -rrhaphy means: $\qquad$
suture repair (frame 230)

## 232 To further review what you have learned, please write the correct word in each of the blanks in the following sentences. <br> a. A salpingo-oophorectomy is the _or <br> $\qquad$ of tubes and ovaries.

b. A bronchoscopy is an $\qquad$ of the bronchi.
examination/inspection (frame 223)
c. A colostomy is an $\qquad$ the colon.
artificial opening into (frame 224)
d. A laparotomy is an $\qquad$ into the abdominal wall.
incision (frame 225)
e. Arthrodesis is the medical term for a surgical $\qquad$ of a joint.
. An orchiopexy is $\qquad$ of an undescended testis.
g. Rhinoplasty is the term for
$\qquad$ of the nose.
plastic repair (frame 228)
h. Arthrocentesis is removal of fluid from a joint by $\qquad$ .

> puncture (frame 229)
i. Neurorrhaphy is the $\qquad$ of the nerve.
suture repair (frame 230)

If you missed any of the questions in frames 231 and 232, please review the appropriate frame(s) before continuing to frame 233.

## Section V. SUFFIXES - PERTAINING TO SYMPTOMS

We will now study the symptomatic suffixes.

233 -algia is a suffix meaning pain. Dentalgia, then, is the medical term for a
$\qquad$ in the tooth.
den-tal'je-ah

pain
234 -genic is the suffix for producing or originating. Pyo, as you recall, is the stem for pus. Pyogenic, then, is the term for $\qquad$ pus.


PYOGENIC
producing


HEMOLYSIS
destruction

236 -rrhagia is the suffix meaning excessive flow or discharge. Thus, hemorrhage is a term meaning of blood.
hem'or-ij


HEMORRHAGE
excessive flow/discharge


## DIARRHEA

excessive discharge
238 -penia is the suffix meaning decrease or deficiency. Erythropenia means a
$\qquad$ of red blood cells.
e-rith"ro-pe'ne-ah

deficiency/decrease


MYOSPASM
involuntary contraction

240 The suffixes -ic, -ac, -al, and -ar mean pertaining to. Cardiovascular, for example, means $\qquad$
$\qquad$ the heart and vessels.
kar"de-o-vas'ku-lar

241 Here's another example: Intercostal means $\qquad$ between the ribs.
in"ter-kos'tal

242 Otoscopic means $\qquad$
$\qquad$ an examination of the ear.
o'to-skop-ik
-IC/-AC/-AL/-AR
pertaining to

pertaining to

pertaining to

244 In review, write the meaning of each of the following symptomatic suffixes:
a. -algia means: $\qquad$ pain (frame 233)
b. -genic means: $\qquad$
producing (frame 234)
c. -lysis means: $\qquad$ destruction (frame 235)
d. -rrhagia means: $\qquad$
excessive discharge/flow (frame 236)
e. -rrhea means: $\qquad$
excessive discharge (frame 237)
f. -penia means: $\qquad$
deficiency (frame 238)
g. -ic, -ac, -al, and -ar mean:
pertaining to (frame 240)
h. -spasm means: $\qquad$
involuntary contraction (frame 239)
245 To further reinforce what you have learned, please write the correct word in the blanks in the following sentences.
a. Dentalgia is the medical term for a ___ in the tooth.
pain (frame 233)
b. Pyogenic is the term for
$\qquad$ pus.
producing (frame 234)
c. Hemolysis means the $\qquad$ of red blood cells.
destruction (frame 235)
d. Hemorrhage is a term meaning of blood.
excessive discharge/flow (frame 236)
e. Erythropenia means a $\qquad$ of red blood cells.
deficiency (frame 237)
f. Diarrhea is the medical term for bowel. of the
g. Myospasm is the medical term for
$\qquad$ of a
muscle.
$\qquad$
musce
h. Cardiovascular means
$\qquad$ the heart and vessels.
excessive discharge (frame 238)
involuntary contraction (frame 239)
j. Otoscopic means $\qquad$
$\qquad$ an examination of the ear.
pertaining to (frame 242)
k. Cardiac means
$\qquad$ the heart.
pertaining to (frame 243)

If you missed any of the questions in frames 244 and 245 , please review the appropriate frame(s) before continuing.

## CONGRATULATIONS

You have completed the last lesson on medical terminology. With your knowledge of prefixes, stems, and suffixes, you should be able to recognize and define most medical terms.

## Section VI. SELF-ASSESSMENT \#3

You have now completed lesson 4. To evaluate how well you have learned the suffixes covered in lesson 4, complete the self-assessment \#3 questions. This self-assessment is to assist you in determining whether you need to go back and review parts of lesson 4 before going to self-assessment \#4 which is an exercise covering all stems, prefixes, and suffixes you have studied in this course.

## SELF-ASSESSMENT \#3

## SUFFIXES

LISTED BELOW IN COLUMN "A" ARE 10 OF THE 35 LATIN AND GREEK STEMS GIVEN TO YOU. IN COLUMN "B" ARE THE ENGLISH MEANINGS OF THESE SUFFIXES. MATCH THE TWO, AND WRITE THE ENGLISH MEANING FROM COLUMN "B" NEXT TO THE NUMBER IN COLUMN "A."

EXAMPLE: EMIA = BLOOD

## COLUMN A

COLUMN B

1. $\qquad$ SCLEROSIS
2. $\qquad$ PTOSIS
3. $\qquad$ TROPHY ITIS
4. $\qquad$ MEGALY
5. $\qquad$ PLASTY
6. $\qquad$ TOMY
7. $\qquad$
8. $\qquad$ ALGIA
9. $\qquad$ SPASM
A. INFLAMMATION
B. PLASTIC REPAIR
C. INVOLUNTARY CONTRACTION
D. OPENING/INCISION INTO
E. HARDENING
F. TUMOR
G. GROWTH/NOURISHMENT
H. DOWNWARD DISPLACEMENT
I. ENLARGEMENT
J. PAIN/ACHE

## SELF-ASSESSMENT QUIZ \#3

## SUFFIXES

FOR EACH OF THE MULTIPLE CHOICE QUESTIONS BELOW, SELECT THE ONE MOST APPROPRIATE ANSWER. CIRCLE THE ANSWER.
11. THE SUFFIX -OSIS IN THE WORD DERMATOPHYTOSIS MEANS:
A. GROWING
C. DROOPING
B. CONDITION
D. DILATION
12. THE SUFFIX -MEGALY IN THE WORD HEPATOSPLENOMEGALY MEANS:
A. SOFTENING
C. ENLARGEMENT
B. HARDENING
D. SWELLING
13. THE SUFFIX -IASIS IN THE WORD NEPHROLITHIASIS MEANS:
A. CONDITION/PRESENCE OF
C. SUSPENSION/FIXATION
B. GROWTH/NOURISHMENT
D. PROTRUSION/SWELLING
14. THE SUFFIX -ECTOMY IN THE WORD SALPINGO-OOPHORECTOMY MEANS:
A. EXCISION OF
C. INSPECTION OF
B. OPENING OF
D. SUSPENSION OF
15. THE SUFFIX -IC IN THE WORD OTOSCOPIC MEANS:
A. REPAIR OF
C. CONDITION OF
B. SOFTENING OF
D. PERTAINING TO
16. THE SUFFIX -CENTESIS IN THE WORD ARTHROCENTESIS MEANS:
A. DESTRUCTION OF
C. PERTAINING TO
B. PUNCTURE OF
D. ORIGINATING IN
17. THE SUFFIX -MALACIA IN THE WORD CHONDROMALACIA MEANS:
A. HARDENING
C. FLOWING
B. SOFTENING
D. PRODUCING

## SELF-ASSESSMENT QUIZ \#3

## SUFFIXES

18. THE SUFFIX -DESIS IN THE WORD ARTHRODESIS MEANS:
A. FIXATION
C. PUNCTURE
B. DILATION
D. ENLARGEMENT
19. THE SUFFIX -AR IN THE WORD CARDIOVASCULAR MEANS:
A. PERTAINING TO
C. SOFTENING OF
B. INSPECTION OF
D. NOURISHMENT OF
20. THE SUFFIX -PHOBIA IN THE WORD HYDROPHOBIA MEANS:
A. OPENING OF
C. DISEASE OF
B. LIKE OF
D. FEAR OF

## SOLUTIONS FOR SELF-ASSESSMENT \#3

## SUFFIXES

1. E (HARDENING) SCLEROSIS
2. H (DOWNWARD DISPLACEMENT) PTOSIS
3. G (GROWTH/NOURISHMENT) TROPHY
4. A (INFLAMMATION) ITIS
5. I (ENLARGEMENT) MEGALY
6. B (PLASTIC REPAIR) PLASTY
7. D (OPENING/INCISION INTO) TOMY
8. $F$ (TUMOR) OMA
9. J (PAIN/ACHE) ALGIA
10. C (INVOLUNTARY CONTRACTION) SPASM

## SOLUTIONS FOR SELF-ASSESSMENT QUIZ \#3

SUFFIXES
11. THE SUFFIX -"OSIS" IN THE WORD DERMATOPHYTOSIS MEANS:
B. CONDITION
12. THE SUFFIX -"MEGALY" IN THE WORD HEPATOSPLENOMEGALY MEANS:
C. ENLARGEMENT
13. THE SUFFIX -"IASIS" IN THE WORD NEPHROLITHIASIS MEANS:
A. CONDITION/PRESENCE OF
14. THE SUFFIX -"ECTOMY" IN THE WORD SALPINGO-OOPHORECTOMY MEANS:
A. EXCISION OF
15. THE SUFFIX -"IC" IN THE WORD OTOSCOPIC MEANS:
D. PERTAINING TO
16. THE SUFFIX -"CENTESIS" IN THE WORD ARTHROCENTESIS MEANS:
B. PUNCTURE OF
17. THE SUFFIX -"MALACIA" IN THE WORD CHONDROMALACIA MEANS:
B. SOFTENING
18. THE SUFFIX -"DESIS" IN THE WORD ARTHRODESIS MEANS:
A. FIXATION
19. THE SUFFIX -"AR" IN THE WORD CARDIOVASCULAR MEANS:
A. PERTAINING TO
20. THE SUFFIX -"PHOBIA" IN THE WORD HYDROPHOBIA MEANS:
D. FEAR OF

Continue with Self-Assessment \#4 (Review)

## SOLUTIONS TO PRETEST \#3

1. Disease
2. Hemorrhage
3. Hardening
4. Softening
5. Breakdown (destruction)
6. Dilatation
7. Pain
8. Blood
9. Hernia
10. Condition
11. Tumor
12. Inflammation
13. Puncture
14. Discharge
15. Surgical repair/plastic repair
16. Decrease/deficiency
17. Fixation/suspension
18. Incision
19. Opening
20. Examination
21. Suturing
22. Prolapse
23. Fear
24. Enlarged
25. Dilatation
26. Overdevelopment/enlargement
27. Removal
28. Rupture

## REVIEW - SELF-ASSESSMENT \#4

You have completed all the study material on medical terminology. Self-assessment \#4 is a review of all the material you have been given. It consists of 78 Latin or Greek medical terms composed of the prefixes, stems, and suffixes you have studied. You are required to match the English meaning of the terms with the Latin or Greek term.

## EXAMPLE

COLUMN A
COLUMN B
A. OSTEOARTHRITIS

## SELF-ASSESSMENT \#4

## MEDICAL TERMS

This quiz is a review of all the material you have been given. Column "A" contains the meanings of the medical terms, and column "B" contains the Latin or Greek term composed of the prefixes, stems, and suffixes you have studied. Match column "A" with column "B." Enter the letter of the medical term in the space provided. All matching terms are on the same page.

## COLUMN A

1.     - Condition of stones in the kidney
2.     - Inflammation of many nerves
3.     - Excessive vomiting
4.     - Inflammation of the stomach and intestine
5.     - Tumor of the brain.
6.     - Inflammation of the liver
7. 
8.     - Without fever
9.     - Under the skin
10.     - Inside the abdomen
11.     - Night urine
12.     - Involuntary contraction of a muscle
13.     - Difficult breathing
14.     - Inflammation of the cartilage
15.     - Pertaining to first part of small intestine
16.     - 
17.     - 
18.     - 

Inflammation of the tubes

## COLUMN B

A. Dyspnea
B. Nocturia
C. Afebrile
D. Oliguria
E. Cerebroma
F. Hyperemesis
G. Hematoma
H. Salpingitis
I. Duodenal
J. Chondritis
K. Gastroenteritis
L. Nephrolithiasis
M. Hepatitis
N. Myospasm
O. Subcutaneous
P. Glucosuria
Q. Intra-abdominal
R. Polyneuritis

## SELF-ASSESSMENT \#4 (Part 2)

COLUMN A
COLUMNB

1.     - Inflammation within the uterus
2. _ Removal of both tubes and ovaries
3.     - Suture repair of a hernia
4.     - Fixation of the testes
5. 
6.     - Removal of a kidney
7. _ Removal of the stomach
8. 
9. 
10. 
11. 
12.     - Plastic operation upon the lip
13.     - Surgical fixation of a joint
14. 
15. 
16. 
17. 
18. 
19.     - Removal of the gallbladder
20.     - $\quad \begin{aligned} & \text { Puncture of a joint for removal of } \\ & \text { fluid }\end{aligned}$
A. Arthrocentesis
B. Hysterectomy
C. Adenectomy
D. Laparotomy
E. Arthrodesis
F. Laryngoscope
G. Otoplasty
H. Gastrectomy
I. Glossorrhaphy
J. Endometritis
K. Tympanoplasty
L. Herniorrhaphy
M. Cholecystectomy
N. Colostomy
O. Bilateral Salpingooophorectomy
P. Cheiloplasty
Q. Orchiopexy
R. Nephrectomy
S. Rhinoplasty
T. Thoracentesis

## SELF-ASSESSMENT \#4 (Part 3)

COLUMN A

1.     - Hardening of the arteries
2.     - Inflammation of the tongue
3.     - Downward displacement of the eyelids
4.     - Condition of blueness
5.     - Pertaining to the heart and vessels
6.     - Between the ribs
7. 
8.     - Condition of fungus of the skin
9.     - Inflammation of the bones and joints
10.     - Fast heart beat
11. 
12.     - 
13. 
14.     - Inflammation of a vein with a clot
15. 
16. 
17. 
18. 
19. 
20.     - 

Enlargement of the liver and spleen
Fatty tumor
Excessive growth
Red cell
Single or one cell
Excessive eating

COLUMN B
A. Hepatosplenomegaly
B. Hypertrophy
C. Monocyte
D. Thrombophlebitis
E. Otoscopic
F. Lipoma
G. Polyphagia
H. Tachycardia
I. Bradycardia
J. Anesthesia
K. Hydrophobia
L. Arteriosclerosis
M. Cardiovascular
N. Blepharoptosis
O. Glossitis
P. Osteoarthritis
Q. Cyanosis
R. Intercostal
S. Erythrocyte
T. Dermatophytosis

## SELF-ASSESSMENT \#4 (Part 4)

## COLUMN A

| 1. | Suspension of testes | A. | Hypotension |
| :---: | :---: | :---: | :---: |
| 2. | Enlargement of the kidney | B. | Encephalitis |
| 3. | Inflammation of the cornea | C. | Dentalgia |
| 4. | Producing pus | D. | Cystitis |
| 5. | Condition of dead tissue | E. | Hematuria |
| 6. | Softening of the cartilage | F. | Myalgia |
| 7. | Pertaining to the liver | G. | Hematemesis |
| 8. | Vomiting of blood | H. | Pericarditis |
| 9. | Inflammation of the nose | I. | Necrosis |
| 10. | Blood in the urine | J. | Nephromegaly |
| 11. | Inflammation within the heart | K. | Orchiopexy |
| 12. | Resembling a gland | L. | Keratitis |
| 13. | Pain in a muscle | M. | Pyogenic |
| 14. | Low blood pressure | N. | Hepatic |
| 15. | High blood pressure | 0. | Chondromalacia |
| 16. | Inflammation of the brain | P. | Acromegaly |
| 17. | Inflammation around the heart | Q. | Hypertension |
| 18. | Tooth ache/pain | R. | Endocarditis |
| 19. | Enlargement of the extremities | S. | Adenoid |
| 20. | Inflammation of the bladder | T. | Rhinitis |

## SOLUTIONS FOR SELF-ASSESSMENT \#4

## MEDICAL TERMS

COLUMN A

1. $\quad \mathrm{L}$ Condition of stones in the kidney
2. $\quad \mathrm{R}$ Inflammation of many nerves
3. F Excessive vomiting
4. K Inflammation of the stomach and intestine
5. E Tumor of the brain.
6. $\quad \mathrm{M}$ Inflammation of the liver
7. D

Scant urine
8. C Without fever
9. O Under the skin
10. Q Inside the abdomen
11. B

Night urine
N Involuntary contraction of a muscle
A
Difficult breathing
14. J
15. I
16. $G$
17. P
18. H

Inflammation of the tubes

COLUMNB
A. Dyspnea
B. Nocturia
C. Afebrile
D. Oliguria
E. Cerebroma
F. Hyperemesis
G. Hematoma
H. Salpingitis
I. Duodenal
J. Chondritis
K. Gastroenteritis
L. Nephrolithiasis
M. Hepatitis
N. Myospasm
O. Subcutaneous
P. Glucosuria
Q. Intra-abdominal
R. Polyneuritis

## SOLUTIONS FOR SELF-ASSESSMENT \#4 (Part 2)

COLUMN A

1. $\quad \mathrm{J} \quad$ Inflammation within the uterus
2. O
3. L
4. Q
5. ㄴ
6. R
7. H
8. N
9. G
10. S
11. F
12. P
13. E
14. T
15. D
16. K
17. C
18. B
19. M
20. A

Removal of both tubes and ovaries
Suture repair of a hernia
Fixation of the testes
Suture repair of the tongue
Removal of a kidney
Removal of the stomach
Artificial opening into the colon

Plastic repair of the ears
Plastic repair of the nose
Instrument used for examination of the larynx

Plastic operation upon the lip
Surgical fixation of a joint
Puncture of the thorax
Incision into the abdominal wall
Plastic repair of the eardrum
Removal of a gland
Removal of the uterus
Removal of the gallbladder
Puncture of a joint for removal of fluid

## COLUMN B

A. Arthrocentesis
B. Hysterectomy
C. Adenectomy
D. Laparotomy
E. Arthrodesis
F. Laryngoscope
G. Otoplasty
H. Gastrectomy
I. Glossorrhaphy
J. Endometritis
K. Tympanoplasty
L. Herniorrhaphy
M. Cholecystectomy
N. Colostomy
O. Bilateral Salpingooophorectomy
P. Cheiloplasty
Q. Orchiopexy
R. Nephrectomy
S. Rhinoplasty
T. Thoracentesis

## COLUMN A

1. $\quad L \quad$ Hardening of the arteries
2. O Inflammation of the tongue
3. N Downward displacement of the eyelids
4. Q Condition of blueness
5. $\mathrm{M} \quad$ Pertaining to the heart and vessels
6. $\quad \mathrm{R}$ Between the ribs
7. $\mathrm{K} \quad$ Fear of water
8. T Condition of fungus of the skin
9. P Inflammation of the bones and joints
10. H Fast heart beat
11. I Slow heart beat
12. J Without feeling or sensation
13. E Pertaining to examination of the ear
14. D Inflammation of a vein with a clot
15. A Enlargement of the liver and spleen
16. F
17. B
18. S
19. C Single or one cell
20. G Excessive eating

## COLUMN B

A. Hepatosplenomegaly
B. Hypertrophy
C. Monocyte
D. Thrombophlebitis
E. Otoscopic
F. Lipoma
G. Polyphagia
H. Tachycardia
I. Bradycardia
J. Anesthesia
K. Hydrophobia
L. Arteriosclerosis
M. Cardiovascular
N. Blepharoptosis
O. Glossitis
P. Osteoarthritis
Q. Cyanosis
R. Intercostal
S. Erythrocyte
T. Dermatophytosis

## COLUMN A

1. $\mathrm{K} \quad$ Suspension of testes
2. J Enlargement of the kidney
3. $L$ Inflammation of the cornea
4. $\quad \mathrm{M} \quad$ Producing pus
5. Condition of dead tissue
6. O Softening of the cartilage
7. $\mathrm{N} \quad$ Pertaining to the liver
8. G Vomiting of blood
9. $\quad \mathrm{T}$ Inflammation of the nose
10. E Blood in the urine
11. R Inflammation within the heart
12. S Resembling a gland
13. F Pain in a muscle
14. A Low blood pressure
15. Q High blood pressure
16. B Inflammation of the brain
17. H Inflammation around the heart
18. C Tooth ache/pain
19. $\mathrm{P} \quad$ Enlargement of the extremities
20. D Inflammation of the bladder

## COLUMNB

A. Hypotension
B. Encephalitis
C. Dentalgia
D. Cystitis
E. Hematuria
F. Myalgia
G. Hematemesis
H. Pericarditis
I. Necrosis
J. Nephromegaly
K. Orchiopexy
L. Keratitis
M. Pyogenic
N. Hepatic
O. Chondromalacia
P. Acromegaly
Q. Hypertension
R. Endocarditis
S. Adenoid
T. Rhinitis

## GLOSSARY

## Medical Term

| B |  |
| :---: | :---: |
| Blepharoptosis | Downward displacement of the eyelids |
| Bradycardia | Slow heartbeat |
| C |  |
| Cardiovascular | Pertaining to the heart and vessels |
| Cerebroma | Tumor of the brain |
| Chondritis | Inflammation of the cartilage |
| Chondromalacia | Softening of the cartilage |
| Cyanosis. | Condition of blueness |
| Cystitis | Inflammation of the bladder |
| D |  |
| Dentalgia | Toothache/pain |
| Dermatophytosis | Condition of fungus of the skin |
| Duodenal | Pertaining to the first part of small intestine |
| Dyspnea | Difficult breathing |
| E |  |
| Encephalitis | Inflammation of the brain |
| Endocarditis | Inflammation within the heart |
| Endometritis | Inflammation within the uterus |
| Erythrocyte | Red cell |
| MD0010 | A-1 |

$\underline{\mathbf{A}}$
Acromegaly
Adenoid
Afebrile
Anesthesia
Arteriosclerosis
A

## C

## D

## E

## GLOSSARY (Cont)

| Medical Term |  | Meaning |
| :---: | :---: | :---: |
|  | G |  |
| Gastroenteritis |  | Inflammation of the stomach and intestine |
| Glossitis |  | Inflammation of the tongue |
| Glucosuria |  | Sugar in the urine |
|  | H |  |
| Hematemesis |  | .Vomiting of blood |
| Hematoma |  | Tumor filled with blood |
| Hematuria |  | Blood in the urine |
| Hepatic |  | Pertaining to the liver |
| Hepatitis |  | Inflammation of the liver |
| Hepatosplenomegaly |  | Enlargement of the liver and spleen |
| Hydrophobia |  | Fear of water |
| Hyperemesis |  | .Excessive vomiting |
| Hypertension |  | High blood pressure |
| Hypertrophy |  | Excessive growth |
| Hypotension |  | Low blood pressure |
|  | I |  |
| Intercostal |  | Between the ribs |
| Intra-Abdominal |  | Inside the abdomen |
|  | $\underline{K}$ |  |
| Keratitis |  | Inflammation of the cornea |
|  | $\underline{L}$ |  |
| Lipoma |  | Fatty tumor |

## GLOSSARY (Cont)

Medical Term

| M |  |  |
| :---: | :---: | :---: |
| Monocyte |  | Single or one cell |
| Myalgia |  | Pain in the muscle |
| Myospasm |  | Involuntary contraction of a muscle |
| $\underline{N}$ |  |  |
| Necrosis |  | Condition of dead tissue |
| Nephrolithiasis |  | Condition of stones in the kidney |
| Nephrolithiasis |  | Enlargement of the kidney |
| Nocturia |  | Night urine |
| O |  |  |
| Oliguria |  | Scant urine |
| Osteoarthritis |  | Inflammation of the bones and joints |
| Otoscopic |  | Pertaining to examination of the ear |
| $\underline{P}$ |  |  |
| Pericarditis |  | Inflammation around the heart |
| Polyneuritis |  | Inflammation of many nerves |
| Polyphagia |  | Excessive eating |
| Postpartum |  | After birth |
| Pyogenic |  | Producing pus |
| $\underline{\mathbf{R}}$ |  |  |
| Rhinitis |  | Inflammation of the nose |
|  | S |  |
| Salpingitis |  | Inflammation of the tubes |

## GLOSSARY (Cont)

## Medical Term <br> I

Tachycardia
Thrombophlebitis

## Operations or Procedures

Adenectomy
Arthrocentesis
Arthrodesis
Cheiloplasty
Cholecystectomy
Colostomy
Gastrectomy
Glossorrhaphy
Herniorrhaphy
Hysterectomy
Laparotomy
Laryngoscopy
Nephrectomy
Orchiopexy
Otoplasty
Rhinoplasty
Thoracentesis
Tympanoplasty

Meaning

Fast heartbeat
Inflammation of a vein with a clot

Meaning

Removal of a gland
Puncture of a joint for removal of fluid
Surgical fixation of a joint
Plastic operation upon the lip
Removal of the gallbladder
Incision into the colon
Removal of the stomach
Suture repair of the tongue
Suture repair of a hernia
Removal of the uterus
Incision into the abdominal wall
Examination of the larynx with an instrument
Removal of a kidney
Fixation of the testes
Plastic repair of the ears
Plastic repair of the nose
Puncture of the thorax
Plastic repair of the eardrum

## PRONUNCIATION GUIDE FOR

MEDICAL TERMS USED IN LESSON 2

## USE THIS GUIDE TO <br> ASSIST YOU IN PRONUNCIATION

| IF IT IS AN | AND | THEN IT IS |
| :---: | :---: | :---: |
| UNMARKED VOWEL. | IT ENDS A SYLLABLE | LONG "ā" (UNLESS OTHERWISE INDICATED) |
|  | THE SYLLABLE ENDS $\operatorname{IN}$ A CONSONANT | SHORT "ă" <br> (UNLESS <br> OTHERWISE <br> INDICATED) |

## MEDICAL TERM

Abdominal /ab-dom'i-nal/
Acrodermatitis /ak"ro-der"mah-ti'tis/
Acromegaly /ak"ro-meg' ah-le/
Adenectomy /ad"e-nek' to-me/
Afebrile /a-feb' ril/
Anesthesia /an"es-the'ze-ah/
Angiogram /an'je-o-gram"/
Arteriosclerosis/ar-te"re-o-skle'ro'sis/
Arthrodesis /ar"thro-de'sis/
Blepharitis /blef"ah-ri'tis/
Bronchitis /brong-ki'tis/
Cardiovascular /kar"de-o-vas'ku-lar/
Celiectomy / se"le-ek'to-me/
Cheiloplasty /ki'lo-plas"te/

Chondritis /kon-dri'tis/
Cholecystectomy /ko"le-sis-tek'to-me/
Colon /ko'lon/
Colostomy /ko'los'to-me/
Cystitis /sis-ti'tis/
Dacryocystitis /dak"re-o-sis-ti'tis/
Dentalgia /den'tal'je-ah/
Duodenal /du'o-de'nal/
Endometritis /en"do-me"tri'tis/
Encephalitis /en"sef-ah-li'tis/
Erythrocyte /e-rith'ro-sit/
Gastrectomy /gas-trek'to-me/
Gastroenteritis /gas"tro-en-ter-i'tis/
Gingivitis /jin"ji-vi'tis/

Glossitis /glos-si'tis/
Glucosuria /gloo"ko-su're-ah/
Hematology /hem"ah tol'o-je/
Hematoma /hem"ah-to'mah/
Hepatitis /hep"ah-ti'tis/
Hydrophobia /hi"dro-fo'be-ah/
Hyperemesis /hi"per-em'e-sis/
Hysterectomy /his"te-rek'to-me/
lleitis /il"e-i'tis/
lleum /il'e-um/
Intercostal /in"ter-kos'tal/
Jejunum /je-joo'num/
Jejunectomy /je"joo-nek'to-me/
Keratitis /ker"ah-ti'tis/
Laparotomy /lap-ah-rot'o-me/
Laryngoscopy/lar"ing-gos'ko-pe/
Lingual /ling'gwal/
Lipoma /li-po mah/
Lymphocyte /lim'fo-sit/
Mycosis /mi-ko'sis/
Myelitis /mi"e-li'tis/
Myospasm /mi'o-spazm/
Myringotomy /mir"in-got'o-me/
Necropsy /nek'rop-se/
Nephrectomy /ne-frek'to-me/
Nephrolithiasis/nef"ro-li-thi'ah-sis/
Nocturia /nok-tu're-ah/
Ocular /ok'u-lar/
Onychectomy /on"i-kek'-to-me/
Oophorectomy /o"of-o-rek'to-me/

Ophthalmology /of"thal- mol' o-je/
Optometrist /op-tom'e-trist/
Orchiopexy /or"ke-o-pek'se/
Osteoarthritis /os"te-o-ar-thri'-tis/
Otoplasty /o'to-plas"te/
Phagocyte /fag'o-sit/
Phlebectomy /fle-bek'to-me/
Pneodynamics /ne'o-di-nam'iks/
Pneumonia/nu-mo'ne-ah/
Pneumatic/nu-mat-ik/
Polyneuritis /pol"e-nu-ri'tis/
Polyphagia /pol"e-fa'je-ah/
Proctitis /prok-ti'tis/
Psychology /si-kol 'o-je/
Pulmonary /pul'mo-ner"e/
Pyogenic /pi"o-jen'ik/
Pyromania /pi"ro-ma'ne-ah/
Rhinitis /ri-ni'tis/
Salpingitis /sal"pin-ji'tis/
Splenectomy /sple-nek'to-me/
Stomatitis /sto-mah-ti'tis/
Tendinitis /ten"di-ni'tis/
Thrombophlebitis /throm"bo-fle-bi'tis
Tinea Pedis /tin'e-ah/ Pe'dis/
Tracheitis /tra"ke-i'tis/
Tympanoplasty /tim"pah-no-plas'te/
Ureteritis /u"re-ter-i'tis/
Urethritis /u"re-thri'tis/
Vasodilator /vas"o-di-lat'or/
Venogram /ve'no-gram/

# PRONUNCIATION GUIDE FOR <br> MEDICAL TERMS USED IN LESSON 3 

## MEDICAL TERM

| Afebrile /a-feb'ril/ | Macroscopic /mak"ro-skop'ik/ |
| :--- | :--- |
| Anesthesia /an"es-the'ze-ah/ | Macrocyte /mak'ro-sit/ |
| Antepartum /an'te-par'tum/ | Malodorous /mal-o der-es/ |
| Antitoxin /an"ti-tok'sin/ | Medial /me'de-al/ |
| Anterolateral /an"ter-o-lat'er-al/ | Megacolon/meg"ah-ko'lon/ |
| Bilateral /bi-lat'er-al/ | Melanoma /mel"ah-no'mah/ |
| Bradycardia /brad"e-kar'de-ah/ | Microcardia/mi"kro-kar'de-ah// |
| Cyanosis /si"ah-no'sis/ | Microcyte /mi'kro-sit/ |
| Dextrocardia /deks"tro-kar'de-ah/ | Multipara/mul-tip'ah-rah/ |
| Dyspnea /disp'ne-ah/ | Nocturia /nok-ru're-ah/ |
| Ectopic /ek-top'ik/ | Oliguria /ol"i gu're-ah/ |
| Empyema /em"pi-e'mah/ | Panhysterectomy /pan"his-ter-ek'to-me/ |
| Endometritis /en"do-me-tri'tis/ | Pericarditis /per"i-kar-di-tis/ |
| Erythrocyte /e-rith'ro-sit/ | Postoperative /post-op'er-a"tiv/ |
| Hemiplegia /hem"e-ple'je-ah/ | Postnasal /post-na'zal/ |
| Hydrophobia/hi"dro-fo'be-ah/ | Posterolateral /pos"ter-o-lat'er-al/ |
| Hyperemesis /hi"per-em'e-sis/ | Preoperative /pre-op'er-a"tiv/ |
| Hypertension /hi"per-ten'shun/ | Quadriplegia /kwod"ri-ple' je-ah/ |
| Hypodermic /hi"po-der'mik/ | Retrocardial/ret"ro-kar'de-al/ |
| Hypotension /hi"po-ten'shun/ | Semiconscious /sem"e-kon'shus/ |
| Intercostal /in"ter-kos'tal/ | Subcutaneous /sub"ku-ta'ne-us/ |
| Intra-abdominal /in"trah-ab-dom'i-nal// | Tachycardia /tak"e-kar'de-ah/ |
| Leukocyte /lu'ko-sit/ | Tricuspid /tri-kus'pid/ |
| Levoversion /le"vo-ver'zhun/ |  |

# PRONUNCIATION GUIDE FOR <br> MEDICAL TERMS USED IN LESSON 4 

## MEDICAL TERM

| Acromegaly /ak"ro-meg'ah-le/ | Hemorrhage /hem'or-ij/ |
| :---: | :---: |
| Angiectasis /an"je-ek'tah-sis/ | Hepatoma /hep"ah-to'mah/ |
| Arteriosclerosis/ar-te"re-o-skle'ro'sis/ | Hepatosplenomegaly |
| Arthrocentesis /ar"thro-sen-te'sis/ | /hep"ah-to-sple"no-meg'ah-le/ |
| Arthrodesis /ar"thro-de'sis/ | Hydroarthrosis /hi"dro-ar" thro'sis/ |
| Blepharoptosis /blef'ah-ro-to'sis/ | Hydrophobia /hi"dro-fo'be-ah/ |
| Bronchogenic /brong-ko-jen'ik/ | Hypertrophy /hi-per'tro-fe/ |
| Bronchoscopy /brong-kos'ko-pe/ | Hypoglycemia /hi"po-gli-s 'me-ah e/ |
| Cardiac /kar'de-ak'/ | Intercostal in"ter-kos'tal/ |
| Cardiorrhexis /kar"de-o-rek'sis/ | Laparotomy /lap-ah-rot'o-me/ |
| Cardiovascular /kar"de-o-vas'ku-lar/ | Leukemia /lu-ke'me-ah/ |
| Cholecystectomy /ko"le-sis-tek'to-me/ | Leukopenia /lu"ko-pe'ne-ah/ |
| Cholelithiasis /ko"le-li-thi'ah-sis/ | Lipoma /li-po mah/ |
| Chondritis /kon-dri'tis/ | Lymphadenopathy /lim-fad"e-nop' ah-the/ |
| Chondromalacia / kon"dro-mah-la'she-ah/ | Myocarditis /mi"o-kar-di'tis/ |
| Colostomy /ko'los'to-me/ | Myocardium /mi"o-kar'de-um/ |
| Cyanosis /si"ah-no'sis/ | Myospasm /mi"o-spazm/ |
| Dentalgia /den'tal'je-ah/ | Nephrolithiasis /nef"ro-li- thi'ah-sis/ |
| Dermatophytosis /der"mah-to-fi-to'sis/ | Neuropathy /nu-rop'ah-the/ |
| Diarrhea /di"ah-re'ah/ | Neurorrhaphy /nu-ror'ah-fe/ |
| Encephalitis /en"sef-ah-li'tis/ | Orchiopexy /or"ke-o-pek'se/ |
| Enterolysis /en"ter-ol i-sis/ | Otoscopic /o'to-skop-ik/ |
| Erythropenia /e-rith"ro-pe'ne-ah/ | Pyogenic /pi"o-jen'ik/ |
| Gastrocele /gas'tro-sel/ | Psychogenic /si"ko-jen'ik/ |
| Hematoma /hem"ah-to'mah/ | Rhinoplasty /ri no-plas"te/ |

Angiectasis /an"je-ek'tah-sis/
Arteriosclerosis/ar-te"re-o-skle'ro'sis/
Arthrocentesis /ar"thro-sen-te'sis/
Arthrodesis /ar"thro-de'sis/
Blepharoptosis /blef'ah-ro-to'sis/
Bronchogenic /brong-ko-jen'ik/
Bronchoscopy /brong-kos'ko-pe/
Cardiac /kar'de-ak'/
Cardiorrhexis /kar"de-o-rek'sis/
Cardiovascular /kar"de-o-vas'ku-lar/
Cholecystectomy /ko"le-sis-tek'to-me/
Cholelithiasis /ko"le-li-thi'ah-sis/
Chondritis /kon-dri'tis/
Chondromalacia / kon"dro-mah-la'she-ah/
Colostomy /ko'los'to-me/
Cyanosis /si"ah-no'sis/
Dentalgia /den'tal'je-ah/
Dermatophytosis /der"mah-to-fi-to'sis/
Diarrhea /di"ah-re'ah/
Encephalitis /en"sef-ah-li'tis/
Enterolysis /en"ter-ol i-sis/
Erythropenia /e-rith"ro-pe'ne-ah/
Gastrocele /gas'tro-sel/
Hematoma /hem"ah-to'mah/

Hemorrhage /hem'or-ij/
Hepatoma /hep"ah-to'mah/
Hepatosplenomegaly
/hep"ah-to-sple"no-meg'ah-le/
Hydroarthrosis /hi"dro-ar" thro'sis/
Hydrophobia /hi"dro-fo'be-ah/
Hypertrophy /hi-per'tro-fe/
Hypoglycemia /hi"po-gli-s 'me-ah e/ Intercostal in"ter-kos'tal/

Laparotomy /lap-ah-rot'o-me/
Leukemia /lu-ke'me-ah/
Leukopenia /lu"ko-pe'ne-ah/
Lipoma /li-po mah/
Lymphadenopathy /lim-fad"e-nop' ah-the/
Myocarditis /mi"o-kar-di'tis/
Myocardium /mi"o-kar'de-um/
Myospasm /mi"o-spazm/
Nephrolithiasis /nef"ro-li- thi'ah-sis/
Neuropathy /nu-rop'ah-the/
Neurorrhaphy /nu-ror'ah-fe/
Orchiopexy /or"ke-o-pek'se/
Otoscopic /o'to-skop-ik/
Pyogenic /pi"o-jen'ik/
Psychogenic /si"ko-jen'ik/
Rhinoplasty /ri no-plas"te/

Salpingo-oophorectomy
/sal-ping"go-o"of-o-rek'to-me/
Subhepatic /sub"he-pat'ik/
Tympanoplasty /tim"pah-no- plas'te/

## MEDICAL ABBREVIATIONS <br> AND SYMBOLS

This appendix is a list of commonly used medical abbreviations and symbols which are authorized to be used in medical records. (For a complete list of authorized medical abbreviations and symbols, see AR 40-66.)

| A; a | before |
| :--- | :--- |
| AAE | acute allergic encephalitis |
| Ab | antibodies |
| abd hyst | abdominal hysterectomy |
| ABE | acute bacterial endocarditis |
| ABP | arterial blood pressure |
| ABR | absolute bed rest |
| ABS | acute brain syndrome |
| ac | before meals |
| ACA | adenocarcinoma |
| ACH | adrenal cortical insufficiency |
| ACI | adrenocorticotropic hormone |
| ACTH | acute cardiovascular disease |
| ACVD | right ear |
| AD | admission and discharge |
| A \& D | average daily dose |
| ADD | to be administered |
| adhib | activities of daily living |
| ADL | as desired |
| ad lib | admission; admit; admitted |
| adm | antibody deficiency syndrome |
| ADS | AE |


| AFB | acid-fast bacilli |
| :---: | :---: |
| afeb | afebrile; without fever |
| AF/F | atrial fibrillation and/or flutter |
| AGG | agammaglobulinemia |
| AHAC | American Heart Association Classification |
| AHD | atherosclerotic heart disease |
| AI | aortic insufficiency or incompetence |
| AID | acute infectious disease |
| AIHA | autoimmune hemolytic anemia |
| AJ | ankle jerk |
| AK amp | above the knee amputation |
| ALMI | anterior lateral myocardial infarct |
| alt die (dieb) | alternate days; every other night |
| alt noc (noct) | alternate nights; every other night |
| ALVF | acute left ventricular failure |
| AMA | against medical advice |
| amb | ambulatory |
| AMI | acute myocardial infarction |
| anti-HAA | antibody hepatitis-associated antigen |
| AOB | alcohol on breath |
| ap | before dinner |
| A \& P | anterior and posterior |
| APB | atrial or auricular premature beat |
| APC | aspirin (acetylsalicylic acid), phenacetin, caffeine |
| aq | water |
| AS | left ear |
| ASA | acetylsalicylic acid (aspirin) |
| ASAP | as soon as possible |
| MD0010 | C-2 |


| ASHD | arteriosclerotic heart disease |
| :---: | :---: |
| ASS | anterior superior spine |
| A-S syndrome | Adams-Stokes syndrome |
| AU | both ears |
| ax | axillary |
| B | born |
| BA | blood alcohol |
| B/A | backache |
| BBB | bundle branch block |
| BC | bone conduction |
| BCP | birth control pills |
| BE | barium enema |
| BH | bundle of His |
| bib | drink |
| bid | twice a day |
| bin | twice during the night |
| B/J; B\&J | bone and joint |
| BM | bowel movement |
| BMR | basal metabolic rate |
| bol | pill |
| BOM | bilateral otitis media |
| BP | blood pressure |
| BPH | benign prostatic hypertrophy |
| BPI | blood pressure increased |
| BS | bowel or breath sound(s) |
| BSO | bilateral salpingo-oophorectomy |
| BTL | bilateral tubal ligation |
| BUE | both upper extremities |
| MD0010 | C-3 |


| BUN | blood urea nitrogen |
| :--- | :--- |
| BUQ | both upper quadrants |
| BV | blood volume |
| BW | body weight |
| Bx | biopsy |
| C1 to C7 | cervical nerves or vertebrae 1 to 7 |
| CI to CXII | cranial nerves |
| c | card |
| CA | calcium; cancer; carcinoma arrest |
| Ca | Children's Apperception Test |
| CAT | catheter |
| cath | complete blood count |
| CBC | chronic brain syndrome bile duct |
| CBD | central blood volume |
| CBS | chief of current complaint |
| CBV | cholecytokinin |
| CC | carcinoma in situ |
| CCK | center for Disease Control |
| CDC | complement fixation |
| CF | cortisone glucose tolerance test |
| CGTT | cheart block |
| CHB | chE |

Cl
CN
CNS
CO
$\mathrm{CO}_{2}$
COD
Compound E
cong
conj
CR
Crl to CrXII
CRD
CrP
CS
CSF
C S resp
CV
CVA
CVC
CVD
CVP
CVS
cytol
D
D1 to D12
DA
D/A
DAP
chlorine
cranial nerves
central nervous system
carbon monoxide
carbon dioxide
cause of death
cortisone
congenital
conjunctiva; conjunctivitis
closed reduction
cranial nerves
chronic respiratory or renal disease
creatine phosphate
cesarean section
cerebrospinal fluid
Cheyne-Stokes respiration
cardiovascular
cardiovascular accident
central venous catheter
cardiovascular disease
central venous pressure
cardiovascular system
cytology
dorsal
dorsal or thoracic vertebrae or nerves
development age
date of accident or admission
direct agglutination pregnancy (test)

| DBP | diastolic blood pressure |
| :---: | :---: |
| D\&C | dilatation and currettage or currettement |
| DI | diabetes insipidus |
| dis | disease |
| disc | discontinue |
| DJD | degenerative joint disease |
| DM | diabetes mellitus |
| DNA | deoxyribonucleic acid |
| DNR | dorsal nerve root |
| DNS | deviated nasal septum |
| DOA | dead on arrival |
| DOE | dyspnea on exertion |
| DOS | day of surgery |
| D/S | dextrose in saline |
| DTR | deep tendon reflexes |
| DU | duodenal ulcer |
| DUB | dysfunctional uterine bleeding |
| Dx | diagnosis |
| EAC | external auditory canal |
| EBL | estimated blood loss |
| ECG; EKG | electrocardiogram |
| E coli | Escherichia coli |
| ECS | electroconvulsive shock |
| EDC | estimated date of confinement |
| EKG; ECG | electrocardiogram |
| EM | electron miscoscopy |
| EMB | eosin methylene blue |
| EMS | emergency medical service |
| MD0010 | C-6 |


| ENT | ear, nose, and throat |
| :---: | :---: |
| eos | eosinophil |
| epis | episotomy |
| ER | emergency room |
| EST | electroshock therapy |
| etiol | etiology |
| ETOH | ethyl alcohol |
| ex | excision |
| exam | examine |
| F | Fahrenheit |
| FA | fluorescent antibody |
| FB | foreign body |
| FBS | fasting blood sugar |
| FDA | Food \& Drug Administration |
| ff | force fluids |
| FH | family history |
| FHR | fetal heart rate |
| fib | fibrillation |
| FROM | full range of motion |
| FS | frozen section |
| FTSG | full thickness skin graft |
| FUO | fever of unknown or undetermined origin |
| Fx | fracture |
| g | gram(s) |
| GB | gallbladder |
| GC | gonococcus; gonococcal |
| glu | glucose |
| gr; grav | pregnant |
| MD0010 | C-7 |

## MEDICAL ABBREVIATIONS AND SYMBOLS (CONT)

Grav I, Grav II 1 pregnancy, 2 pregnancies, etc.

| GS | General Surgery |
| :--- | :--- |
| gt; gtt | drop; drops |
| GU | genitourinary |
| GYN; Gyn | gynecology |
| H | hydrogen |
| H20 | water |
| HA | hemagglutinating antigens |
| HAI | hemagglutinating-inhibiting antibody |
| Hb; Hgb | high blood pressure |
| HBP | hypertensive cardiovascular disease |
| Hct | at bedtime |
| HCVD | head, eyes, ears, nose, and throat |
| hd | hemoglobin |
| HEENT | human (pituitary) growth hormone |
| Hgb; Hb | Human lutenizing hormone |
| HGH | tonight |
| HLH | intake and output |
| hn | history and physical |
| H\&P | history of present illness |
| HPI | heart rate |
| HR | hypertensive vascular disease |
| HVD | inframuscular (injection) |
| Hx | IH |


| IOP | intraocular pressure |
| :---: | :---: |
| IQ | intelligence quotient |
| IV | intravenous (injection) |
| jej | jejunum |
| K | potassium |
| kg | kilogram |
| KUB | kidney, ureter, and bladder |
| K-wire | Kirshner wire |
| LBBB | left bundle branch block |
| LD | lethal dose |
| LH | luteinizing hormone |
| LOS | length of stay |
| LP | lumbar, puncture |
| L-S | lumbosacral |
| LTF | lipotrophic factor |
| Lues I, II, III | primary, secondary, tertiary syphilis |
| LV | left ventricular |
| LVN | Licensed Vocational Nurse |
| M | meter |
| M1 M2 | mitral first, second sound |
| MB | methylene blue |
| MBP | mean blood pressure |
| MD | muscular dystrophy |
| MDR | minimum daily requirement |
| ME | middle ear |
| mg | milligram |
| mg | millimicrogram |
| MH | menstrual, marital, or military history |


| mHg | milliliters of mercury |
| :---: | :---: |
| MI | myocardial infarction |
| ml | milliliter |
| MMPI | Minnesota Multiphasic Personality Inventory |
| MR | metabolic rate |
| mr; mR | milloroentgen |
| MS | multiple sclerosis |
| MV | mitral valve |
| N | normal (concentration) |
| NA | Nursing Assistant |
| NaPent | sodium Pentothal |
| NB | newborn |
| NBS | normal bowel sounds |
| NC | noncontributory |
| N/C | no complaint |
| ND | normal delivery |
| NDF | no disease found |
| NE | norepinephrine |
| neg | negative |
| NIH | National Institutes of Health |
| NKA | no known allergies |
| NOR; Noradr | noradrenaline |
| NP | neuropsychiatric |
| NPH | no previous history |
| npo | nothing by mouth |
| NR | normal range |
| nr | not to be repeated |
| NS | nervous system |
| MD0010 | C-10 |

NSA
NSR
0
OB
OBD
OB-GYN
OHD
OL; OS
omn bih
omn hor; oh
omn noct; on
OPC
OPD
ophth
OR
Orth
OS; OL
OT
OU
P
P/3
p1, p2, etc.
PA
P\&A
PAB, PABA
Pap test
Para
path
no significant abnormality
normal sinus rhythm
eye
obstetrics
organic brain disease
obstetrics and gynecology
organic heart disease
left eye
every two hours
every hour
every night
outpatient clinic
outpatient department
ophthalmology
operating room
orthopedics
left eye
occupational therapy
each eye
phosphorus
proximal one-third (long bones)
para 1, para 2, etc.
Physician's Assistant
percussion and auscultation
para-aminobenzoic acid
Papanicolaou's test
parous
pathology

| PB-Fe | protein-bound iron |
| :---: | :---: |
| PBI | protein-bound iodine |
| pc | after meals |
| PCV | packed cell volume |
| PDA | patent ductus arteriosus |
| PDR | Physician's Desk Reference |
| PE | physical examination |
| Ped | pediatrics |
| PEG | pneumoencephalography |
| PGH | pituitary growth hormone |
| PH | past history |
| Phe | phenylalanine |
| phys | physical; physician |
| PI | present illness |
| PID | pelvic inflammatory disease |
| Pit | Pitocin |
| PKA | prokininogenase |
| PM | post mortem |
| PMH | past medical history |
| PMS | post-menopausal syndrome |
| PNa | plasma sodium |
| PO; postop | postoperative |
| po | by mouth; orally |
| PO2 | oxygen tension |
| pos | positive |
| postop; PO | postoperative |
| PP | post partum |
| PPB | positive pressure breathing |

pr
prog
ps
psi
Psy
PT
pt
PTA
PULHES
P-
U-
L-
H-
E-
S-
PVC
PVD
pvt
qd
qh
$q 2 h, q 3 h$, etc.
qid
qn
QNS
qv
R
r
RNA
per rectum
prognosis
per second
pounds per square inch
psychiatry; psychology
physical therapy
patient
prior to admission
physical profile factors:
physical capacity or stamina
upper extremities
lower extremities
hearing and ears
eyes
psychiatric
premature ventricular contractions
peripheral vascular disease
private
every day
every hour
every 2 hours, every 3 hours, etc.
four times a day
every night
quantity not sufficient
as much as you please
right
roentgen
ribosomal ribonucleic acid

| RA | rheumatoid arthritis |
| :---: | :---: |
| Ra | radium |
| RAIU | radioactive iodine uptake |
| RAP | right atrial pressure |
| RAS | reticular activating system |
| RBBB | right bundle branch block |
| RBC | red blood cells or corpuscles |
| RD | respiratory disease; retinal detachment |
| RDS | respiratory distress syndrome |
| rehab | rehabilitation |
| RES | reticuloendothelial system |
| RHD | rheumatic heart disease |
| RHF | right heart failure |
| RN | Registered Nurse |
| RNA | ribonucleic acid |
| RO | routine order |
| R/O | rule out |
| ROM | range of motion |
| ROS | review of systems |
| RR | recovery room |
| R\&R | rate and rhythm |
| RT | reaction time |
| RTC | return to clinic |
| RUE | right upper extremity |
| RUQ | right upper quadrant |
| S | left |
| S-1 to S-5 | sacral vertebrae or nerves |
| S-A; SA node | sino-atrial node |

SAA
SB
SBE
SB test
SC
SCD
SCM
SD
SDS
SEM
SF
sg
SH
SI
sib
SIW
SM
SMA
SN
SNS
SO
SOAP
S-
O-
A-
P-
SOB
S-O-R

Stokes-Adams attacks
stillborn
subacute bacterial endocarditis
Stanford-Binet test
subcutaneous
service connected disability
sternocleidomastoid
standard deviation
sudden death syndrome
standard error of the mean
spinal fluid
specific gravity
serum hepatitis
seriously ill
sibling
self-inflicted wound
systolic murmur
superior mesenteric artery
student nurse
sympathetic nervous system
salpingo-oophorectomy
progress note format for POMR
subjective
objective
assessment
plans
shortness of breath
stimulus-organism-response

| SQ | subcutaneous |
| :---: | :---: |
| staph | staphylococcus |
| stat | immediately and once only |
| STH | somatotropic (growth) hormone |
| Strep | streptococcus |
| STSG | split thickness skin graft |
| sup | superior |
| SVC | superior vena cava |
| SX | signs; symptoms |
| Sz | schizophrenia |
| T | Temperature |
| T\&A | tonsillectomy and adenoidectomy |
| TAH | total abdominal hysterectomy |
| TB; TBC | tuberculosis |
| TBLC | term birth, living child |
| TBV | total blood volume |
| tds | to be taken 3 times a day |
| TFA | total fatty acids |
| TH | thyroid hormone |
| tid | three times a day |
| TL | tubal ligation |
| TM | tympanic membrane |
| TNTC | too numerous to count |
| TOA | tubo-ovarian abscess |
| TT | tetanus toxoid |
| TTH | thyrotropic hormone |
| U/3 | upper third (long bones) |
| UA | urinalysis |
| MD0010 | C-16 |


| UE | upper extremity |
| :---: | :---: |
| UGI | upper gastrointestinal |
| ULQ | upper left quadrant |
| unk | unknown |
| UQ | upper quadrant |
| UR | unconditioned response |
| URI | upper respiratory infection |
| urol | urology; urological |
| URQ | upper right quadrant |
| USPHS | United States Public Health Service |
| UTI | urinary tract infection |
| UV | ultraviolet |
| V | Volume |
| VA | Veterans Administration |
| vag | vaginal |
| VBP | venous blood pressure |
| VC | vital capacity |
| VD | venereal disease |
| VDG | venereal disease-gonorrhea |
| VDH; VHD | valvular disease of the heart |
| VIG | vaccinia immune serum globulin |
| vit | vitamin |
| VO | verbal order |
| VP | venous pressure |
| VPC | volume of packed red cells |
| VRI | viral or virus respiratory infection |
| VS | vital sign |
| WAIS | Wechsler adult intelligence scale |
| MD0010 | C-17 |

WB
WBC
WCC
wd
WD/WN/BF
WD/WN/BM
WD/WN/WF
WD/WN/WM
WHO
WIA
WISC
wk
WNL
WR
wt
X
YOB
whole blood
white blood cell
white cell count
ward
well-developed, well-nourished black female well-developed, well-nourished black male well-developed, well-nourished white female well-developed, well-nourished white male

World Health Organization
wounded in action
Wechsler Intelligence Scale for children (test)
week
within normal limits
Wassermann reaction
weight
times
year of birth

| $\frac{9}{O}$ | female <br> male |
| :---: | :---: |
| $\uparrow$ | increased; elevated |
| $\downarrow$ | decreased; depressed; lowered |
| $\downarrow \downarrow$ | descended bilaterally |
| $\rightarrow$ | causes; transfer to |
| $\longleftarrow$ | is due to |
| $<$ | less than |
|  | more than |
| $\checkmark$ | systolic blood pressure |
| 人 | diastolic blood pressure |
| ) | absent; none |
|  | negative; absent |
|  | positive; present |
| $\odot$ | start of operation (anesthesia record only) |
| $\otimes$ | end of operation (anesthesia record only) |
| $9$ | Upright. Vertical body position; body supported by lower extremities; torso upright |
| 0 | Lying down. Horizontal body position |
|  | Leaning. Body trunk raised less than 90 degrees from primary supporting surface and supported by self or object. |
| $q$ | Sitting. Weight of body resting on lower part of trunk, back raised greater than or equal to 90 degrees. |
| $\square$ | Leaning over. Dangling, any portion of body extended beyond the lower part of the trunk. |
|  | Kneeling. Supporting the body on the knees or legs. |

MEDICAL ABBREVIATIONS AND SYMBOLS (CONT)


