Learning Objectives

Upon completion of this chapter, you will be able to

• Identify and define the combining forms and suffixes introduced in this chapter.
• Correctly spell and pronounce medical terms relating to the medical fields introduced in this chapter.
• Describe pertinent information relating to pharmacology.
• Describe pertinent information relating to mental health.
• Describe pertinent information relating to diagnostic imaging.
• Describe pertinent information relating to rehabilitation services.
• Describe pertinent information relating to surgery.
• Describe pertinent information relating to oncology.
• Identify and define vocabulary terms relating to the topics.
• Identify and define selected pathology terms relating to the topics.
• Identify and define selected diagnostic procedures relating to the topics.
• Identify and define selected therapeutic procedures relating to the topics.
• Define selected abbreviations associated with the topics.
# Worksheet 14A

**New Combining Form and Suffix Handout**

Directions: For each combining form below, write out its meaning and then locate a new term from the chapter that uses the combining form or suffix.

<table>
<thead>
<tr>
<th>Combining Forms</th>
<th>Meaning</th>
<th>Chapter Term</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>1. aer/o</td>
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<td>7. toxic/o</td>
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<td>Combining Forms</td>
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<td>Chapter Term</td>
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<td>55. -lucent</td>
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<td>56. -opaque</td>
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<td>58. -phoresis</td>
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<td>59. -scopic</td>
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<td>60. -stat</td>
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</tbody>
</table>
Worksheet 14B
Unscramble

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

1. c p e a o b l ______________________________________________
   Inactive substance used to satisfy patient’s desire for medication

2. n i v t a e r s n u o ______________________________________________
   Injection of drug into the veins

3. s n i a o n i m ______________________________________________
   Inability to sleep

4. l a l u i c n h n a i o t ______________________________________________
   Perceiving something that is not there

5. d i a o l y o g r ______________________________________________
   Using X-rays to expose a photographic plate

6. u u a r d s l o n t ______________________________________________
   Use of high-frequency sound waves to produce an image

7. m b e d i r d e t e n ______________________________________________
   Removal of dead or damaged tissue

8. h o w r i l l o p ______________________________________________
   Bath using continuous jets of water

9. m e t o a s t h ______________________________________________
   Forceps to grab blood vessels

10. p e y r p l a h a i s ______________________________________________
    Excessive development of normal cells
Worksheet 14C
Sound It Out

Directions: The following are some of the key terms from this chapter written as their phonetic spellings. Sound out each term and write it in the blank. Pronunciations for all terms are included in the glossary at the end of the book and in the audio glossary located on Medical Terminology Interactive.

1. prih-SKRIP-shun __________________________________________________________________
2. sub-LING-gwal ____________________________________________________________________
3. in-trah-VEE-nus ___________________________________________________________________
4. tok-SISS-ih-tee __________________________________________________________________
5. sub-kyoo-TAY-nee-us ____________________________
6. sigh-KIGH-ah-tree __________________________________________________________________
7. dee-MEN-she-ah ___________________________
8. high-poh-KON-dree-ah ____________________________
9. AW-tizm __________________________
10. oh-BLEEK __________________________
11. ray-dee-OG-rah-fee __________________________
12. RENT-gen __________________________
13. floo-or-OS-koh-pee __________________________
14. foh-noh-foh-REE-sis __________________________
15. ther-moh-THAIR-ah-pee __________________________
16. ee-LEK-troh-my-OG-rah-fee __________________________
17. pros-THET-iks __________________________
18. an-ess-THEE-zee-ah __________________________
19. SPEK-yoo-lum __________________________
20. FOR-seps __________________________
21. dih-SEK-shun __________________________
22. im-yoo-noh-THAIR-ah-pee __________________________
23. mew-TAY-nee-shun __________________________
24. kar-SIN-oh-jen __________________________
25. ong-KALL-oh-pee __________________________
Worksheet 14D
Word Search Puzzle

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

P D G K P D M Z T G G N
A J E P Z W K M R D R U
L M Z L V Z L Z A J T C
L G W Z U V A J C P N L
I L Z R X S C C T V A E
A B U L I M I A I R R A
T C Z M M T P O R Z R
I C P B G H O G N M D F
V B G N P Z T J H F N T
E N V H Z H S U P I N E
L F G N W M A S S A G E
R A D I O L U C E N T M

1. ___________ medications are applied directly to the skin.
2. ___________ drugs are given by mouth.
3. ___________ is binge eating and intentional vomiting.
4. A(n) ___________ is a false belief held in the face of contrary evidence.
5. ___________ medicine uses radioactive substances to diagnose disease.
6. A(n) ___________ substance allows X-rays to pass through.
7. ___________ is the kneading of a part of a person's body.
8. ___________ is the process of pulling with a mechanical device.
9. ___________ is lying horizontal with the face up.
10. ___________ therapy reduces the intensity of painful symptoms.
Worksheet 14E
Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzle.

<table>
<thead>
<tr>
<th>ACROSS</th>
<th>DOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>4. Treating disease by using chemicals</td>
<td>1. Spread of cancerous cells</td>
</tr>
<tr>
<td>8. Examples include braces and splints</td>
<td>2. Surgical position sitting with back at 45° angle</td>
</tr>
<tr>
<td>9. Removing pieces of tissue for examination</td>
<td>3. Treatment using cold</td>
</tr>
<tr>
<td>10. Return of symptoms after period of improvement</td>
<td>4. Using heat, cold, electricity, or chemical to burn tissue</td>
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<td>5. Period of time before surgery</td>
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<td></td>
<td>6. Manner of walking</td>
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<td></td>
<td>7. Cutting of parts for separation and study</td>
</tr>
</tbody>
</table>
Crossword Puzzle

Directions: Use the definitions given to complete the crossword puzzle.

ACROSS
4 Device worn to protect against radiation
5 Study of origin, characteristics and effects of drugs
8 Condition in which a particular drug should not be used
9 Loss of memory
10 A PET scan uses a radioactive _____ injection

DOWN
1 Element used as radiopaque X-ray dye
2 Study of human behavior
3 _____ ultrasonography is used to record blood velocity
6 Name of a drug also called its nonproprietary name
7 An irrational fear
Worksheet 14F
Chapter Review

Fill-in-the-Blank

1. A medicine’s ___________________ name describes the molecular structure of the drug.

2. Intramuscular and intravenous are examples of ___________________ route of drug administration.

3. A ___________________. though not a physician, is a specialist in evaluating and treating persons with mental and emotional disorders.

4. ___________________ is a special category of drugs used to treat persons with bipolar disorder.

5. A ___________________ is the radioactive form of an element.

6. ___________________ records the velocity of blood flowing through blood vessels to detect blood clots.

7. Phonophoresis uses ___________________ to introduce medication across the skin and into subcutaneous tissues.

8. Gross motor skills is the use of ___________________ muscle groups to coordinate body movements.

9. ___________________ anesthesia is also referred to as a nerve block.

10. The ___________________ position is sitting with back positioned at a 45-degree angle.

11. A ___________________ tumor is not progressive or recurring.

12. A ___________________ is the actual plan of care for a patient.
Matching

1. topical
2. proprietary name
3. habituation
4. hs
5. panic attack
6. hypochondria
7. mania
8. dementia
9. barium
10. PET
11. radiolucent
12. CT scan
13. ergonomics
14. gait
15. prosthetics
16. thermotherapy
17. hemostasis
18. resection
19. anesthetic
20. aspirator
21. TNM
22. hyperplasia
23. morbidity
24. relapse
25. bid

a. At bedtime
b. Medication to produce loss of sensation
c. Somatoform disorder
d. Stopping the flow of blood
e. Progressive confusion and disorientation
f. Twice a day
g. Manner of walking
h. Trademark
i. Method of staging tumors
j. Produces cross-section view of body
k. Artificial device to replace missing body part
l. Number of sick persons in a population
m. Extreme elation
n. Suctions fluid
o. Applied directly to the skin
p. Return of disease symptoms
q. Excessive development
r. Allows X-rays to pass through
s. An emotional dependence on a drug
t. Use of heat
u. Study of human work
v. An anxiety disorder
w. Uses radioactive glucose
x. To surgically cut out
y. Used as an X-ray dye
Quiz 14A
New Word Parts Quiz

Directions: Define the combining form or suffix in the spaces provided.

1. aer/o ____________________________________________________________________________
2. chem/o __________________________________________________________________________
3. toxic/o __________________________________________________________________________
4. pharmac/o ________________________________________________________________________
5. phren/o __________________________________________________________________________
6. schiz/o __________________________________________________________________________
7. somn/o __________________________________________________________________________
8. fluor/o __________________________________________________________________________
9. roentgen/o __________________________
10. son/o ______________________________
11. cry/o ______________________________
12. therm/o ____________________________
13. erg/o ______________________________
14. cis/o ______________________________
15. electr/o ____________________________
16. esthesi/o __________________________
17. derm/o ____________________________
18. blast/o ____________________________
19. carcin/o __________________________
20. onc/o ____________________________
21. mutat/o __________________________
22. -mania __________________________________________
23. -lucent __________________________________________
24. -phoresis __________________________________________
25. -plasia __________________________________________
Quiz 14B
Spelling Quiz

Directions: Write each term as your instructor pronounces it.

1. ___________________________________________________________________
2. ___________________________________________________________________
3. ___________________________________________________________________
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Quiz 14C
Abbreviations Quiz

Directions: Write the medical term for which each abbreviation stands.

1. ac _____________________________________________________________________________
2. Dx _____________________________________________________________________________
3. IM _____________________________________________________________________________
4. prn _____________________________________________________________________________
5. VO _____________________________________________________________________________
6. ADD _____________________________________________________________________________
7. BPD _____________________________________________________________________________
8. ECT _____________________________________________________________________________
9. OCD _____________________________________________________________________________
10. BaE _____________________________________________________________________________
11. Fx _____________________________________________________________________________
12. CXR _____________________________________________________________________________
13. MRI _____________________________________________________________________________
14. ADL _____________________________________________________________________________
15. PROM _____________________________________________________________________________
16. UE _____________________________________________________________________________
17. US _____________________________________________________________________________
18. GA _____________________________________________________________________________
19. OR _____________________________________________________________________________
20. IV _____________________________________________________________________________
21. noc _____________________________________________________________________________
22. bx _____________________________________________________________________________
23. mets _____________________________________________________________________________
24. TNM _____________________________________________________________________________
25. Ca _____________________________________________________________________________
Quiz 14D
Chapter Review

PART I: Multiple Choice

Directions: Circle the correct answer.

1. The drug name that means the same thing as generic name is
   a. brand name.
   b. chemical name.
   c. nonproprietary name.
   d. trade name.

2. Prescribing a drug to prevent a disease or condition from occurring is called a
   a. unit dose.
   b. prophylaxis.
   c. placebo.
   d. chemotherapeutic.

3. Amnesia and dissociative identity disorder are examples of
   a. anxiety disorders.
   b. impulse disorders.
   c. mood disorders.
   d. dissociative disorders.

4. Which is not a method of treating mental disorders?
   a. psychopharmacology.
   b. electroconvulsive therapy.
   c. psychotherapy.
   d. phrenology.

5. Absorption of radioactive material and medicines into an organ or tissue is called
   a. radium therapy.
   b. roentgen ray.
   c. tagging.
   d. uptake.

6. The process that uses radioactive glucose to measure metabolic activity in the brain is known as
   a. CT scanning.
   b. MRI.
   c. PET scanning.
   d. sonography.

7. The use of ultrasound waves to introduce medication through the skin and into subcutaneous tissue is
   a. thermotherapy.
   b. phonophoresis.
   c. TENS.
   d. cryotherapy.

8. A test to determine if nerves have been damaged is
   a. electromyogram.
   b. transcutaneous electrical stimulation.
   c. phonophoresis.
   d. nerve conduction velocity.

9. Using heat, cold, electricity, or chemicals to scar, burn, or cut tissues is called
   a. cryogenics.
   b. dessicator.
   c. curettage.
   d. cautery.

10. A surgical instrument used to grasp tissue is a(n)
    a. curette.
    b. forceps.
    c. aspirator.
    d. scalpel.
11. Treatment designed to reduce the intensity of painful symptoms but doesn't produce a cure is
   a. cryosurgery.
   b. palliative.
   c. protocol.
   d. immunotherapy.

12. Movement and spread of cancer cells from one part of the body to another is known as
   a. metastasis.
   b. dysplasia.
   c. oncogenic.
   d. neoplasm.

PART II: Matching
Directions: Match the term with its definition.

_____ 1. side effect
_____ 2. buccal
_____ 3. malingering
_____ 4. explosive disorder
_____ 5. radiography
_____ 6. contrast studies
_____ 7. orthotics
_____ 8. whirlpool
_____ 9. cryosurgery
_____ 10. resection
_____ 11. primary site
_____ 12. oncogenic

   a. Process of making X-rays
   b. Pretending to be ill
   c. To cut out
   d. Uses radiopaque dye
   e. Uses continuous jets of warm water
   f. Uses extreme cold
   g. Adverse reaction
   h. Where tumor first appears
   i. In the cheek
   j. Cancer causing
   k. Violent rages
   l. Splints and braces

PART III: Abbreviations
Directions: Write the full meaning of the following abbreviations.

1. NPO ________________________________
2. SAD ________________________________
3. AP ________________________________
4. ROM ________________________________
5. pre-op ________________________________
6. bx ________________________________
Chapter 14 Answer Keys

Worksheet 14A Answer Key

Word Roots

1. air
2. to breathe
3. physician, medicine, treatment
4. distinctive
5. drug
6. a specific area
7. poison
8. forgetfulness
9. anxiety
10. drive, compel
11. false belief
12. to press down
13. artificial, contrived
14. imagined, perception
15. to steal
16. mind
17. besieged by thoughts
18. irrational fear
19. mind
20. mind
21. divided
22. society
23. body
24. sleep
25. fluorescence, luminous
26. X-ray
27. sound
28. to cut
29. work
30. ability
31. sound
32. body
33. heat
34. to breathe in
35. to cut
36. to lie back
37. to cut
38. to look at
39. to hold
40. to box
41. to slide back
42. to send back
43. ill
44. death
45. to change
46. tumor
47. root

Suffixes

48. protection
49. physician
50. medical treatment
51. pertaining to the study of
52. excessive preoccupation
53. affinity for, craving for
54. irrational fear
55. to shine through
56. nontransparent
57. pertaining to laws
58. carrying
59. pertaining to visually examining
60. standing still

Worksheet 14B Key

1. placebo
2. intravenous
3. insomnia
4. hallucination
5. radiology
6. ultrasound
7. debridement
8. whirlpool
9. hemostat
10. hyperplasia
### Worksheet 14C Key
1. prescription
2. sublingual
3. intravenous
4. toxicity
5. subcutaneous
6. psychiatry
7. dementia
8. hypochondria
9. autism
10. oblique
11. radiography
12. roentgen
13. fluoroscopy
14. phonophoresis
15. thermotherapy
16. electromyography
17. prosthetics
18. anesthesia
19. speculum
20. forceps
21. dissection
22. immunotherapy
23. mutation
24. carcinogen
25. oncology

### Worksheet 14D Key
1. topical
2. oral
3. bulimia
4. delusion
5. nuclear
6. radiolucent
7. massage
8. traction
9. supine
10. palliative

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**P D G K P D M Z T G G N**

**A J E P Z W K M R D R U**

**L M Z L V Z L Z A J T C**

**L G W Z U V A J C P N L**

**I L Z R X S C C T V A E**

**A B U L I M I A I R R A**

**T C Z M M T P O O R Z R**

**I C P B G H O G N M D F**

**V B G N P Z T J H F N T**

**E N V H Z H S U P I N E**

**L F G N W M A S S A G E**

**R A D I O L U C E N T M**
Worksheet 14E Key

Solution:

\[
\begin{array}{ccccccc}
M & F & C \\
C & H & E & M & O & T & H & E & R & A & P & Y \\
A & T & W & Y & R & G & D \\
U & A & L & O & E & A & I \\
T & S & E & O & R & T & H & O & T & I & C & S \\
E & T & R & H & P & T & S \\
R & A & E & E & E & E & C \\
I & S & R & R & C & T \\
Z & I & A & A & T \\
A & S & P & T & I \\
T & B & I & O & P & S & Y & I & O \\
I & O & R & E & L & A & P & S & E \\
\end{array}
\]

Solution:

\[
\begin{array}{ccccccc}
B & A & R \\
P & H & A & R & D \\
S & D & S & H & I & E & L & D & U \\
O & U \\
C & P & H & A & R & M & A & C & O & L & O & G & Y \\
H & P & L & G & E & E & P & H \\
C & O & N & T & R & A & I & N & D & I & C & A & T & I & O \\
G & E & B \\
Y & R & A & M & N & E & S & I & A & I \\
A & G & L & U & C & O & S & E \\
\end{array}
\]
Worksheet 14F Answer Key

Fill-in-the-Blank

1. chemical
2. parenteral
3. clinical psychologist
4. lithium
5. radiisotope
6. Doppler ultrasonography
7. ultrasound
8. large
9. regional
10. Fowler
11. benign
12. protocol

Matching

1. o
2. h
3. s
4. a
5. v
6. c
7. m
8. e
9. y
10. w
11. r
12. j
13. u
14. g
15. k
16. t
17. d
18. x
19. b
20. n
21. i
22. q
23. l
24. p
25. f

Quiz 14A Answer Key

1. air
2. drug
3. poison
4. drug
5. mind
6. divided
7. sleep
8. fluorescence, luminous
9. X-ray
10. sound
11. cold
12. heat
13. work
14. to cut
15. electricity
16. sensation, feeling
17. skin
18. primitive cell
19. cancerous
20. tumor
21. genetic change, mutation
22. excessive preoccupation
23. to shine through
24. carrying
25. growth, formation
Quiz 14B Answer Key
1. proprietary
2. iatrogenic
3. prophylaxis
4. idiosyncrasy
5. psychopharmacology
6. kleptomania
7. hypochondria
8. posteroanterior
9. fluoroscopy
10. tomography
11. ergonomics
12. debridement
13. electromyogram
14. phonophoresis
15. anesthesiologist
16. curette
17. cauterization
18. metastasis
19. protocol
20. palliative

Quiz 14C Answer Key
1. before meals
2. diagnosis
3. intramuscular
4. as needed
5. verbal order
6. attention-deficit disorder
7. bipolar disorder
8. electroconvulsive therapy
9. obsessive–compulsive disorder
10. barium enema
11. fracture
12. chest X-ray
13. magnetic resonance imaging
14. activities of daily living
15. passive range of motion
16. upper extremity
17. ultrasound
18. general anesthesia
19. operating room
20. intravenous
21. night
22. biopsy
23. metastases
24. tumor, nodes, metastases
25. cancer

Quiz 14D Answer Key
Multiple Choice
1. c
2. b
3. d
4. d
5. d
6. c
7. b
8. d
9. d
10. b
11. b
12. a
### Matching

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### Abbreviations

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<table>
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<td>1.</td>
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<td>3.</td>
<td>anteroposterior</td>
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<td>4.</td>
<td>range of motion</td>
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<td>5.</td>
<td>preoperative</td>
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<tr>
<td>6.</td>
<td>biopsy</td>
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