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 and major anatomical structures relating to the urinary system.
• Locate and describe the major organs of the urinary system and their functions.
• Describe the nephron and the mechanisms of urine production.
• Identify the characteristics of urine and a urinalysis.
• Identify and define urinary system anatomical terms.
• Identify and define selected urinary system pathology terms.
• Identify and define selected urinary system diagnostic procedures.
• Identify and define selected urinary system therapeutic procedures.
• Identify and define selected medications relating to the urinary system.
• Define selected abbreviations associated with the urinary system.
## Worksheet 9A
### 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>
</tr>
</thead>
<tbody>
<tr>
<td>1. azot/o</td>
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<td></td>
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<tr>
<td>2. bacteri/o</td>
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<tr>
<td>3. cyst/o</td>
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<tr>
<td>4. glomerul/o</td>
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<tr>
<td>5. glycos/o</td>
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<tr>
<td>6. keton/o</td>
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<tr>
<td>7. lith/o</td>
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<td></td>
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<tr>
<td>8. meat/o</td>
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<tr>
<td>9. nephro/o</td>
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<tr>
<td>10. noct/i</td>
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<td></td>
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<tr>
<td>11. olig/o</td>
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<tr>
<td>12. protein/o</td>
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<tr>
<td>13. pyel/o</td>
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<tr>
<td>14. ren/o</td>
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<td></td>
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<tr>
<td>15. ur/o</td>
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<tr>
<td>16. ureter/o</td>
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<tr>
<td>17. urethra/o</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>18. urin/o</td>
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</table>

### Suffixes

<table>
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<th>Chapter Term</th>
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<tr>
<td>19. -lith</td>
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<td>22. -ptosis</td>
<td></td>
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<tr>
<td>23. -uria</td>
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</tbody>
</table>
# Worksheet 9B
## Medical Term Analysis

Directions: Below are terms built from word parts used in this chapter that are not analyzed in the Word Building Table. Many are built from word parts you have learned in previous chapters. Analyze each term presented below by listing and defining each of the word parts used to build each term.

<table>
<thead>
<tr>
<th>Medical Term</th>
<th>Word Part Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. necrosis</td>
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<tr>
<td>2. antibiotic</td>
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<td>3. azotemia</td>
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<tr>
<td>4. cystocele</td>
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<td>5. cystography</td>
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<td>6. cystoscopy</td>
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<td>7. urography</td>
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<td>8. glomerular</td>
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<td>9. glomerulonephritis</td>
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<td>10. hydronephrosis</td>
<td></td>
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<td>11. intravenous</td>
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<td>12. meatotomy</td>
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<td>Medical Term</td>
<td>Word Part Analysis</td>
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<td>--------------------</td>
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<td>16. neurogenic</td>
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<td>17. cystoplasty</td>
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<td>18. polycystic</td>
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<td>25. urology</td>
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</tr>
<tr>
<td>26. cystourethrogram</td>
<td></td>
</tr>
</tbody>
</table>
Worksheet 9C
Unscramble

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

1. n i r u y i s a l s ____________________________
   Physical, chemical, and microscopic examination of urine

2. l e y d o i s h m a s i ____________________________
   Using artificial kidney machine to filter waste from blood

3. t a h c t e i r e a t i z n o ____________________________
   Inserting flexible tube into bladder

4. r u i a p y ____________________________
   Pus in the urine

5. o n e h p r n ____________________________
   Functional working unit of kidney

6. s t a o c l p t y s y ____________________________
   Surgical repair of bladder

7. s e h i t n a y c ____________________________
   Decrease in force of urine stream

8. e n p i r o p h t o s s ____________________________
   Also known as floating kidney

9. s c l u c l u a ____________________________
   A stone

10. a i t l r t o n i f ____________________________
    First stage of urine production
Worksheet 9D

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. yoo-reh-ter-oh-sten-OH-sis ________________________________
2. yoo-RAL-oh-jee ___________________________________________
3. yoo-rin-OH-meter ________________________________________
4. neh-FROH-ma _____________________________________________
5. dis-YOO-ree-ah ____________________________________________
6. en-yoo-REE-sis ____________________________________________
7. hee-mah-TOO-ree-ah ______________________________________
8. hee-moh-dye-AL-ih-sis _____________________________________
9. pye-eh-loh-neh-FRYE-tis __________________________________
10. SIS-toh-lith ______________________________________________
11. LITH-oh-trip-see _________________________________________
12. mee-AY-tus ______________________________________________
13. nef-roh-skleh-ROH-sis ____________________________________
14. nok-TOO-ree-ah __________________________________________
15. pol-ee-YOO-ree-ah _________________________________________
16. yoo-REE-ter _____________________________________________
17. pye-YOO-ree-ah __________________________________________
18. yoo-REE-thral _____________________________________________
19. KAL-kew-lus ______________________________________________
20. yoo-REE-mee-ah __________________________________________
21. sis-TEK-toh-me ____________________________________________
22. yoo-REE-throh-scope _____________________________________
23. yoo-rib-NAL-ih-sis _______________________________________
24. nef-roh-MEG-ab-lee _______________________________________
25. NEF-roh-pek-see __________________________________________
Worksheet 9E
Word Search Puzzle

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

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

1. Another term for a stone is _____________________.
2. A(n) ____________________ is a physical and chemical analysis of urine.
3. Feeling the urge to urinate more often than normal is called _____________________.
4. Difficulty initiating the flow of urine is called _____________________.
5. ____________________ is the surgical fixation of the bladder.
6. The involuntary release of urine is called _____________________.
7. Diabetic ____________________ is damage to glomerular capillaries caused by diabetes.
8. ____________________ clearance is a test of kidney function.
9. ____________________ is the surgical crushing of a stone.
10. ____________________ is feeling the need to urinate immediately.
Worksheet 9F
Crossword Puzzle

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

ACROSS
3 A medication used to treat bacterial infections
4 Retrograde ______ is an X-ray of urinary tract using dye
6 Inflammation of renal pelvis and kidney
9 ______ kidneys have multiple cysts
10 A BUN tests for the level of _____ in the blood
11 Term meaning scanty amount of urine
12 Instrument used to visually examine inside bladder

DOWN
1 Need to urinate immediately
2 Laboratory test to examine urine
5 Surgical procedure to crush a stone
7 Another term for urinary incontinence
8 Term meaning pus in the urine
Crossword Puzzle

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

ACROSS
1. External opening of the urethra
6. Using artificial kidney machine to filter waste
7. Transports urine between kidney and bladder
8. Flexible tube inserted into the bladder
9. Urge to urinate more often than normal
10. Functional working unit of kidney

DOWN
2. Complete suppression of urine formed by kidneys
3. Term for a stone formed within an organ
4. Difficulty initiating flow of urine
5. Urinary ________, inability to fully empty bladder
Worksheet 9G
Chapter Review

Anatomy and Physiology

1. The organs of the urinary system are the _____________________, _____________________, _____________________, and _____________________.
2. The functional unit of the kidneys is the _____________________.
3. The main function of the urinary system is to _____________________.
4. The outer region of the kidney is the _____________________ and the inner region is the _____________________.
5. The renal corpuscle consists of the _____________________ and _____________________.
6. The kidneys are responsible for _____________________ or balance in the body.
7. The three stages of urine production are _____________________, _____________________, and _____________________.
8. _____________________ indicates the amount of dissolved substances in the urine.
9. Urine is normally _____________________ colored and 95 percent _____________________.
10. Urine is carried from the kidneys to the bladder in the _____________________ and from the bladder to the outside of the body in the _____________________.

Word Building

Directions: Build a term that means:

1. excision of the bladder _____________________
2. bladder pain _____________________
3. surgical crushing of a stone _____________________
4. kidney softening _____________________
5. kidney tumor _____________________
6. kidney disease _____________________
7. ureter stone _____________________
8. narrowing of the urethra _____________________
9. condition of sugar in the urine ________________________________
10. condition of pus in the urine ________________________________

Matching

____  1. calculus  a. Protrusion of bladder into vaginal wall
____  2. urgency  b. Urinalysis
____  3. enuresis  c. Decrease in the force of the urine stream
____  4. micturition  d. A flat abdomen X-ray
____  5. hesitancy  e. Commonly seen in children
____  6. hydronephrosis  f. Medication to increase urine volume
____  7. nephroptosis  g. Involuntary discharge of urine
____  8. cystocele  h. Artificial filtering waste from blood
____  9. renal failure  i. May be caused by spinal cord injury
____ 10. Wilm's tumor  j. Treatment for kidney stones
____ 11. neurogenic bladder  k. X-ray of renal pelvis
____ 12. hematuria  l. Stone
____ 13. BUN  m. Implantation of a donor kidney
____ 14. U/A  n. Accumulation of urine in renal pelvis
____ 15. IVP  o. Test that grows bacteria in a culture medium
____ 16. urine C&S  p. Collects uncontaminated urine for testing
____ 17. kidneys, ureter, bladder  q. Feeling need to urinate immediately
____ 18. cystoscopy  r. Blood in the urine
____ 19. catheterization  s. Medication to treat bacterial infection
____ 20. hemodialysis  t. Floating kidney
____ 21. ESWL  u. Insertion of a flexible tube into the bladder
____ 22. renal transplant  v. Another term for urination
____ 23. clean catch specimen  w. Blood test for kidney function
____ 24. antibiotic  x. Visual exam of the bladder
____ 25. diuretic  y. Inability of the kidneys to filter waste
Quiz 9A
New Word Parts Quiz

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

1. azot/o __________________________________________________________________________
2. bacteri/o ________________________________________________________________________
3. cyst/o __________________________________________________________________________
4. glomerul/o _______________________________________________________________________
5. glycos/o _________________________________________________________________________
6. keton/o _________________________________________________________________________
7. lith/o ___________________________________________________________________________
8. meat/o __________________________________________________________________________
9. nephrit/o _________________________________________________________________________
10. noct/i __________________________________________________________________________
11. olig/o __________________________________________________________________________
12. pyel/o __________________________________________________________________________
13. ren/o __________________________________________________________________________
14. ur/o _____________________________________________________________________________
15. ureter/o _________________________________________________________________________
16. urethrit/o _______________________________________________________________________
17. urin/o _________________________________________________________________________
18. -lith __________________________________________________________________________
19. -lithiasis _______________________________________________________________________
20. -ptosis _________________________________________________________________________
21. -tripsy _________________________________________________________________________
22. -uria __________________________________________________________________________
Quiz 9B
Spelling Quiz

Directions: Write each term as your instructor pronounces it.

1. _______________________________________________________________________
2. _______________________________________________________________________
3. _______________________________________________________________________
4. _______________________________________________________________________
5. _______________________________________________________________________
6. _______________________________________________________________________
7. _______________________________________________________________________
8. _______________________________________________________________________
9. _______________________________________________________________________
10. _______________________________________________________________________
11. _______________________________________________________________________
12. _______________________________________________________________________
13. _______________________________________________________________________
14. _______________________________________________________________________
15. _______________________________________________________________________
16. _______________________________________________________________________
17. _______________________________________________________________________
18. _______________________________________________________________________
19. _______________________________________________________________________
20. _______________________________________________________________________
Quiz 9C
Labeling Diagram

Directions: Label the structures of the urinary system.

1. __________________
2. __________________
3. __________________
4. __________________
5. __________________
Quiz 9D
Labeling Diagram

Directions: Label the internal structures of the kidney.

1. _______________________
2. _______________________
3. _______________________
4. _______________________
5. _______________________
6. _______________________
7. _______________________

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Quiz 9E
Word Building Quiz

Directions: Build a single medical term for each phrase below.

1. bladder pain ____________________________
2. bladder inflammation _________________________
3. bladder stone ______________________________
4. surgical repair of the bladder _______________________
5. rapid bleeding from the bladder ______________________
6. instrument used to visually examine the bladder _______________________
7. condition of sugar in the urine _________________________
8. surgical crushing of a stone _____________________________
9. softening of the kidney ________________________________
10. kidney tumor ________________________________
11. drooping kidney _________________________________
12. surgical fixation of (floating) kidney _________________________
13. kidney disease ________________________________
14. hardening of the kidney ____________________________
15. condition of (frequent) nighttime urination _______________________ 
16. X-ray record of the renal pelvis _________________________
17. surgical repair of the renal pelvis _________________________
18. condition of pus in the urine __________________________ 
19. narrowing of a ureter ________________________________
20. pertaining to the kidney ______________________________
21. instrument to visually examine the urethra ______________________
22. condition of no urine (produced by kidney) _______________________
23. condition of difficult or painful urination ______________________
24. condition of blood in the urine ___________________________
25. condition of (too) much urine _________________________
Quiz 9F
Abbreviations Quiz

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

1. AGN

2. ARF

3. ATN

4. BNO

5. BUN

6. cath

7. Cl

8. CRF

9. C&S

10. cysto

11. ESWL

12. EU

13. HD

14. H₂O

15. I&O

16. IVP

17. K+

18. KUB

19. Na+

20. RP

21. SG, sp. gr.

22. U/A, UA

23. UC

24. UTI

25. VCUG
Quiz 9G
Chapter Review

PART I: Multiple Choice
Directions: Circle the correct answer.

1. Excision of a kidney is called
   a. nephrectomy.
   b. nephropexy.
   c. nephrotomy.
   d. renectomy.

2. A distention of the renal pelvis due to urine collecting in the kidney, often the result of obstruction, is
   a. nephrolithiasis.
   b. hydronephrosis.
   c. cystocele.
   d. pyelonephritis.

3. In nephromegaly there is
   a. an enlargement in the kidney.
   b. a stone present in the kidney.
   c. an inflammation of the kidney.
   d. a prolapse of the kidney.

4. The abbreviation UTI stands for
   a. urethral toxic infection.
   b. ureter total inflammation.
   c. urinary tract incontinence.
   d. urinary tract infection.

5. The medical term for abnormal kidney condition is
   a. nephrophtosis.
   b. nephrosis.
   c. nephromalacia.
   d. nephritis.

6. The act of voiding urine is called
   a. nocturia.
   b. micturition.
   c. oliguria.
   d. urodyndia.

7. What is inflammation of the bladder called?
   a. nephritis.
   b. urinary tract infection.
   c. cystitis.
   d. pyelitis.

8. What is the use of an artificial kidney machine to filter the blood of a person to remove waste products called?
   a. catheterization.
   b. hemodialysis.
   c. azotemia.
   d. BUN.

9. What is the medical term for ureteral narrowing?
   a. ureterostenosis.
   b. ureterolysis.
   c. ureterosclerosis.
   d. urethrostenosis.

10. What is the functional unit of the kidney?
    a. glomerulus.
    b. renal tubule.
    c. nephron.
    d. renal corpuscle.
PART II: Matching

Directions: Match the term with its definition.

_____ 1. polyuria          a. Scanty amount of urine
_____ 2. dysuria           b. Condition of blood in urine
_____ 3. pyuria            c. Condition of too much urine
_____ 4. oliguria          d. Condition of ketones in urine
_____ 5. nocturia          e. Frequent nighttime urination
_____ 6. enuresis         f. Difficult urination
_____ 7. hematuria        g. Complete lack of urine secretion
_____ 8. ketonuria       h. Condition of pus in urine
_____ 9. anuria             i. Bed-wetting at night

PART III: Abbreviations

Directions: Write the full meaning of the following abbreviations.

1. BUN _____________________________
2. GU _____________________________
3. IVP _____________________________
4. KUB _____________________________
5. CRF _____________________________
Chapter 9 Answer Keys

Worksheet 9A Answer Key

1. nitrogenous waste
2. bacteria
3. urinary bladder, pouch
4. glomerulus
5. sugar, glucose
6. ketones
7. stone
8. meatus
9. kidney
10. night
11. scanty
12. protein
13. renal pelvis
14. kidney
15. urine
16. ureter
17. urethra
18. urine

Suffixes

19. bladder
20. stone
21. condition of stones

Worksheet 9B Answer Key

1. necr/o = death; -osis = abnormal condition
2. anti- = against; bi/o = life; -tic = pertaining to
3. azot/o = nitrogenous waste; -emia = blood condition
4. cyst/o = bladder; -cele = hernia/protrusion
5. cyst/o = bladder; -graphy = process of recording
6. cyst/o = bladder; -scopy = process of viewing
7. ur/o = urine; -graphy = process of recording
8. glomerul/o = glomerulus; -ar = pertaining to
9. glomerul/o = glomerulus; nephr/o = kidney; -itis = inflammation
10. hyd/o = water; nephr/o = kidney; -osis = abnormal condition
11. intra- = within; ven/o = vein; -ous = pertaining to
12. meatus = meatus; -otomy = incision
13. nephr/o = kidney; lith/o = stone; -otomy = incision
14. nephr/o = kidney; -ology = study of
15. nephr/o = kidney; -tic = pertaining to
16. neut/o = nerve; -genic = producing
17. cyst/o = bladder; -plasty = surgical repair
18. poly- = many; cyst = not a standard word part; -ic = pertaining to
19. pyel/o = renal pelvis; nephr/o = kidney; -itis = inflammation
20. carcin/o = cancer; -oma = tumor
21. retro- = backwards; peritone/o = peritoneum; -al = pertaining to
22. ur/o = urine; -emia = blood condition
23. urin/o = urine; -ysis = to break
24. ur/o = urine; -graphy = process of recording
25. ur/o = urine; -ology = study of
26. cyst/o = bladder; urethr/o = urethra; -graphy = process of recording

Worksheet 9C Key

1. urinalysis
2. hemodialysis
3. catheterization
4. pyuria
5. nephron
6. cystoplasty
7. hesitancy
8. nephroptosis
9. calculus
10. filtration

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Fremgen, In-Class Activities to Accompany Medical Terminology: A Living Language, 5th Edition
### Worksheet 9D Key

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### Worksheet 9E Key

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<tr>
<td>3.</td>
<td>frequency</td>
</tr>
<tr>
<td>4.</td>
<td>hesitancy</td>
</tr>
<tr>
<td>5.</td>
<td>cystopexy</td>
</tr>
<tr>
<td>6.</td>
<td>incontinence</td>
</tr>
<tr>
<td>7.</td>
<td>nephropathy</td>
</tr>
<tr>
<td>8.</td>
<td>creatinine</td>
</tr>
<tr>
<td>9.</td>
<td>lithotripsy</td>
</tr>
<tr>
<td>10.</td>
<td>urgency</td>
</tr>
</tbody>
</table>


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Worksheet 9F Key

Solution:

```
  U  R  G  E  N  C
  U  R  A  N  T  I  B  I  O  T  I  C
  P  Y  E  L  O  G  R  A  M
  P  Y  E  L  O  N  E  P  H  R  I  T  I  S
  P  U  Y  R  P  O  L  Y  C  Y  S  T  I  C
  U  R  E  A
  R  S  O  L  I  G  U  R  I  A
  I  I  P
  A  S  C  Y  S  T  O  S  C  O  P  E

  Y

  M  E  A  T  U  S
  C  A  R  L
  H  E  M  O  D  I  A  L  Y  S
  C  T  A
  U  R  E  T  E  R
  C  A  T  H  E  T  E  R
  L  U  T  I  O
  N  E  P  H  R  O  N
```

Solution:
Worksheet 9G Answer Key

Anatomy and Physiology

1. kidneys, ureters, urinary bladder, and urethra
2. nephron
3. filter and remove waste from the blood
4. cortex; medulla
5. glomerulus; Bowman’s (glomerular) capsule
6. homeostasis
7. filtration, reabsorption, and secretion
8. specific gravity
9. straw; water
10. ureters; urethra

Word Building

1. cystectomy
2. cystalgia
3. lithotripsy
4. nephromalacia
5. nephroma
6. nephropathy
7. uraterolith
8. urethrostentasis
9. glycosuria
10. pyuria

Matching

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

Quiz 9A Answer Key

1. nitrogenous waste
2. bacteria
3. bladder
4. glomerulus
5. sugar, glucose
6. ketones
7. stone
8. meatus
9. kidney
10. night
11. scanty
12. renal pelvis
13. kidney
14. urine
15. ureter
16. urethra
17. urine
18. stone
19. condition of stones
20. drooping
21. surgical crushing
22. condition of the urine
### Quiz 9B Answer Key
1. azotemia
2. bacteriuria
3. calculus
4. calyx
5. catheterization
6. cystalgia
7. cystocele
8. diuretic
9. enuresis
10. genitourinary
11. glomerulus
12. pyelonephritis
13. lithotripsy
14. micturition
15. nephrolithiasis
16. nephroptosis
17. peritubular
18. ureterectasis
19. urethritis
20. incontinence

### Quiz 9C Answer Key
1. kidney
2. urinary bladder
3. ureter
4. male urethra
5. female urethra

### Quiz 9D Answer Key
1. cortex
2. medulla
3. calyx
4. renal pelvis
5. renal papilla
6. renal pyramid
7. ureter

### Quiz 9E Answer Key
1. cystalgia
2. cystitis
3. cystolith
4. cystoplasty
5. cystorrhagia
6. cystoscope
7. glycosuria
8. lithotripsy
9. nephromalacia
10. nephroma
11. nephroptosis
12. nephropexy
13. nephropathy
14. nephrosclerosis
15. nocturia
16. pyelogram
17. pyeloplasty
18. pyuria
19. ureterostenosis
20. renal
21. urethroscope
22. anuria
23. dysuria
24. hematuria
25. polyuria
Quiz 9F Answer Key
1. acute glomerulonephritis
2. acute renal failure
3. acute tubular nephrosis
4. bladder neck obstruction
5. blood urea nitrogen
6. catheterization
7. chloride
8. chronic renal failure
9. culture and sensitivity
10. cystoscopy
11. end-stage renal disease
12. extracorporeal shock wave lithotripsy
13. excretory urography
14. genitourinary
15. bicarbonate
16. hemodialysis
17. water
18. input and output
19. intravenous pyelogram
20. potassium
21. kidneys, ureters, bladder
22. milliliter
23. sodium
24. nephrotic syndrome
25. acidity or alkalinity
26. retrograde pyelogram
27. specific gravity
28. urinalysis
29. urine culture
30. urinary tract infection
31. voiding cystourethrography

Quiz 9G Answer Key
Multiple Choice
1. a 6. b
2. b 7. c
3. a 8. b
4. d 9. a
5. b 10. c

Matching
1. c 6. i
2. f 7. b
3. h 8. d
4. a 9. g
5. e

Abbreviations
1. blood urea nitrogen 4. kidneys, ureter, bladder
2. genitourinary 5. chronic renal failure
3. intravenous pyelogram