promunci'ation, for example.

Medical terminology is largely taken from Greek and Latin, which both have very specific accenting rules. Although there are no absolute rules in English telling you which syllable to stress, there are some similar stress patterns followed by medical words.

- The main stress is never on the last syllable in long words with several syllables.
- The main stress is on the second-to-the-last syllable if it is long. For example, ne'phritis

rectoste'nosis

The main stress is on the third-to-the-last syllable if the second-to-the-last syllable is short. For example,

cardiomy'opathy

gastroduode'nostomy

As you work through this book you will come across many words that comply with the patterns. Unfortunately, you will also find words that do not. So remember the general rules, but be aware of exceptions in your learning of medical terminology.

SECTION B

Case Study

Case 1: Multiple Health Problems Secondary to Injury

D.S., a 28-year-old woman, was treated for injuries sustained in a train derailment accident. During the course of her treatment, she was seen by several specialists. For pain in her knee and hip joints, she was referred to an orthopedist. For migraine headaches and blurry vision, she consulted a neurologist. For pain on urination and occasional bloody urine, she saw a urologist. Later, for a persistent dry cough and problems resulting from a fractured nose, she was referred to an otorhinolaryngologist. During her initial course of treatment, she had a CT scan of her abdomen and brain and an MRI of her hip and knee. Both imaging studies required her to lie motionless on her back for 45 minutes.

Several months after the accident, D. S. was still experiencing some discomfort, and she decided to investigate alternative therapies. She made an appointment with a naturist practitioner who specialized in homeopathy and herbal medicine. Before her appointment, she browsed in the Nutra-Medica Shop, which carried nutritional supplements, vitamin and mineral products, homeopathic remedies, and herbal formulas. She planned to ask the therapist about some of the products that she saw there, which included remedies with the trade names Pneumogen, Arthogesia-Plus, Renovite, Nephrostat, and Hematone.

CASE STUDY QUESTIONS

| M | ultipl | e cl | ioice. | | |
|---|--------|------|--------------------------------------|----|----------------|
| |] 1. | Tl | ne -ist in the word neurologist is a | ı | * |
| | | a. | prefix | b. | root |
| | | c. | suffix | d. | combining form |
| | | e. | conjunction | | |

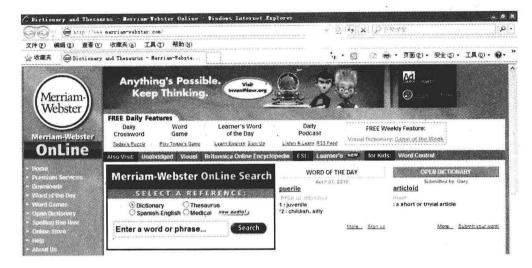
| |] 2. Endo-in endoscopic is a | , |
|---|------------------------------------|--|
| 1 | a. root | b. suffix |
| | c. combining form | d. prefix |
| | e. derivation | |
| |] 3. MRI stands for magnetic re | esonance imaging. This term represents a |
| | (n) | |
| | a. combining form | b. acronym |
| | c. prefix | d. suffix |
| | e. abbreviation | |
| |] 4. D.S. needed plastic surge | ry on her nose to repair the postfracture |
| | deformity. This procedure | is called a(n) |
| | a. septoscope | b. rhinoplasty |
| | c. neurectomy | d. cardioplasty |
| | e. rhinitis | |
| |] 5. Several of the radiological i | maging studies required D.S. to lie on her |
| | back for 45 minutes. This p | position is referred to as |
| | a. supine | b. prone |
| | c. lateral recumbent | d. lithotomy |
| | e. Trendelenburg | |
| |] 6. The products Renovite and | Nephrostat are named for their action on |
| | the | |
| | a. lung b. nerves c. | liver d. heart e. kidney |
| |] 7. The pn in Pneumogen is pr | onounced as |
| | a. p b. pa c. | n d. up e. f |

Useful Websites

---- http://www.merriam-webster.com/----

Merriam-Webster is America's foremost publisher of language-related reference works. The company publishes a diverse array of print and online resources, including America's best-selling desk dictionary, Merriam-Webster's Collegiate Dictionary, Eleventh Edition (published on the Web as Merriam-

Webster's Online Dictionary). Merriam-Webster provides a free online dictionary, thesaurus, audio pronunciations, Word of the Day, word games, and other English language resources.



The audio pronunciation tool is especially useful for those who have problem pronouncing certain words. When a word is entered in the search box and the search button pressed, you get the definition of the word, which is in boldface followed by a red audio icon: • Click on the audio icon. A pop-up window will open, and in most cases the audio pronunciation will play automatically. Click on the "hear it again" link in the pop-up window to replay the pronunciation. When you are done, close the pop-up window.





Objectives

Upon completion of this chapter, you will be able to:

- Describe the basic concepts of suffixes
- Understand the two types of suffixes
- Recognize the basic suffixes meaning "diseased condition of"
- Recognize the basic suffixes for medical specialties and specialists
- Memorize rules for forming plurals

The suffixes given in this chapter are general ones that are used throughout medical terminology. Additional suffixes will be presented in later chapters, as they pertain to disease states, medical treatment, or specific body systems.



Atlas

According to ancient Greek lore, Atlas and fellow Titans battled Zeus for the control of the universe, and lost. As a punishment, Atlas was condemned to hold up the heavens forever. He is often depicted, as in Rockefeller Center, carrying a globe on his shoulders. The name perhaps means lit. "The Bearer (of the Heavens)" from the stem of tlenai "to bear". In medical English, the word "atlas" means the first vertebra of the neck, articulating immediately with the skull, thus sustaining the globe of the head, whence the name.





SECTION **B**

Word Parts

| exia 中风,phobia 恐怖症 |
|------------------------------|
| 甲状腺机能亢进, arsenism 砷中毒 |
| 坏死,pyosis 化脓,toxicosis 中毒, |
| 态,cardiopathy 心脏病,andropathy |
| ł |

WORD PART EXERCISE 2-1

8. sclerosis (hardening)

10. arthropathy (disease of the joint)

| | WORD THAT EMERCION 2 I | |
|---|--|--------------|
| Þ | Write the suffix that means "diseased condition of" in each of the | he following |
| | words. | |
| | 1. egotism (exaggerated self-importance) | |
| | 2. cystipathy (urinary bladder disorder) | |
| | 3. insomnia (inability to sleep) | |
| | 4. parasitism (infection with parasites or behaving as a parasite) |) . |
| | · | |
| | 5. thrombosis (having a blood clot in a vessel) | |
| | 6. psoriasis (skin disease) | |
| | 7. analgesia (absence of pain) | |

9. alcoholism (poisoning by excessive intake of alcohol)

TABLE 2-2 Suffixes for Medical Specialties and Specialists

| SUFFIX | MEANING | EXAMPLE . |
|----------|--------------------------------|-----------------------------------|
| -ian | specialist in a field of study | physician 内科医生, obstetrician 产科医生 |
| -iatrics | medical specialty | geriatrics 老年医学,p(a)ediatrics 儿科学 |
| -iatry | medical specialty | psychiatry 精神病学,pediatry 儿科学 |
| -ics | medical specialty | orthopedics 整形外科学, statistics 统计学 |
| -ist | specialist in a field of study | cardiologist 心脏病学家, oculist 眼科医生 |
| -logy | study of | physiology 生理学,pathology 病理学 |

WORD PART EXERCISE 2-2

| • Write the suffix in each of the following words that means | "study of" |
|--|------------|
| "medical specialty", or "specialist in a field of study". | |
| 1. dentist (one who treats the teeth and mouth) | |
| 2. neurology (the study of the nervous system) | |
| 3. pediatrics (treatment of children) | |
| 4. technologist (specialist in a technical field) | |
| 5. psychiatry (study and treatment of mental disorders) | |
| | |
| • Write a word for a specialist in each of the following fields. | |
| 6. anatomy (study of body structure) | |
| 7. pediatrics (care and treatment of children) | |
| 8. radiology (use of radiation in diagnosis and treatment) | |
| 9. orthodontics (correction of the teeth) | |

| • | TABLE 2-3 | Irregular Plural Endings | | | |
|-------------|---------------|--------------------------|--------------------|--|--|
| WORD ENDING | PLURAL ENDING | SINGULAR EXAMPLE | PLURAL EXAMPLE | | |
| -a | -ae | vertebra 椎骨, pleura 胸膜 | vertebrae, pleurae | | |
| -en | -ina | foramen 小孔 | foramina | | |

10. ophthalmology (study of the diseases of the eye)

(Continued)

| WORD ENDING | PLURAL ENDING | SINGULAR EXAMPLE | PLURAL EXAMPLE | | |
|---------------|---------------|----------------------------------|-----------------------|--|--|
| -ex, -ix, -yx | -ices | appendix 阑尾,cortex 皮质 | appendices, cortices | | |
| -is | -es | diagnosis 诊断, dermatosis 皮肤病 | diagnoses, dermatoses | | |
| -ma | -mata | sarcoma 肉瘤 | sarcomata | | |
| -nx * | -nges | meninx 脑膜 | meninges | | |
| -on | -a | spermatozoon 精子, ganglion 神经节 | spermatozoa, ganglia | | |
| -um | -a | ovum 卵子,septum 膈 | ova, septa | | |
| -us | =i | bacillus 杆菌, focus 病灶 | bacilli, foci | | |

WORD PART EXERCISE 2-3

| • | Write | the | plural | form | of | each | of | the | following | words. | The | word | ending | is |
|---|-------|-------|----------|------|----|------|----|-----|-----------|--------|-----|------|--------|----|
| | under | lined | d in eac | h. | | | | | | | | | | |

| 1. vertebra (bone of the spine) | |
|---|----|
| 2. ganglion (mass of nerve tissue) | |
| 3. oment <u>um</u> (abdominal membrane) | |
| 4. testis (male gonad) | 4 |
| 5. lumen (central opening) | 98 |
| 6. matrix (background substance; mold) | |
| 7. ser <u>um</u> (liquid) | |
| 8. meninx (membrane around the brain and spinal cord) | |
| 9. nucleus (a central or essential part) | |
| 10. pelvis (bony hip girdle) | |
| 11. adenoma (tumor of a gland) | |

WORD PART REVIEW EXERCISE

• Identify the suffix that means "diseased condition of" in each of the

| following words. | |
|--------------------------------------|--|
| 1. egotism | 4. acidism |
| 2. anemia | 5. acidosis |
| 3. stenosis | 6. anesthesia |
| | |
| Give the suffix in the following | ng words that means "specialty" or "specialist". |
| 7. psychiatry | 9. obstetrics |
| 8. orthopedist | 10. urology |
| | * |
| Give the name of the specialis | t in each of the following fields. |
| 11. pediatrics | 13. pharmacy |
| 12. dermatology | 14. gynecology |
| × | |
| Write the plural for each | of the following words. The word ending is |
| underlined. | at the state of th |
| 15. patella (kneecap) | |
| 16. prognosis (prediction of | disease outcome) |
| 17. bacterium (type of micro | organism) |
| 18. fungus (simple, nongreen | n plant) |
| 19. protozo <u>on</u> (single-celled | animal) |
| 20. phary <u>nx</u> (throat) | |
| 21. apex (high point; tip) | · |
| | |
| Write the singular form for e | ach of the following words. The word ending is |
| underlined. | |
| 22. foram <u>ina</u> (openings) | |
| 23. nuclei (center; core) | · |
| 24. ganglia (small masses of | nerve tissue) |
| 25. vertebrae (spinal bones) | |
| 26. indices (directories; lists | |
| 27. carcinomata (cancers) | |

SECTION C

Case Study

Case 1: Displaced Fracture of the Femoral Neck

While walking home from the train station, M. A., a 72-year-old woman with osteoporosis, tripped over a broken curb and fell. In the emergency department, she was assessed for severe pain, swelling, and bruising of her left thigh. A radiograph showed a displaced left femoral neck fracture. M. A. was prepared for surgery and given a preoperative injection of an analgesic to relieve her pain. Intraoperatively, she was given spinal anesthesia and positioned on an operating room table, with her left hip elevated on a small pillow. Intravenous antibiotics were given before the incision. Her left hip was repaired with a bipolar hemiarthroplasty. Postoperative care included maintaining the left hip in abduction, blood and fluid replacement, physical therapy, and vigilance for development of avascular necrosis and possible dislocation.

Case 2: Intertrochanteric Fracture

A.R., aged 88, slipped on the wet grass and fell while gardening in his back yard. His neighbor was unable to help him to a standing position and called for an ambulance. A.R. had excruciating pain in his right leg, which was externally rotated, slightly shorter than his left leg, and adducted. Preoperative radiographs showed a non-displaced right intertrochanteric fracture. Intraoperatively, Mr. R. was given spinal anesthesia and positioned on an orthopedic table with his right hip abducted and secured in traction. He had an open reduction and internal fixation with a compression screw and side plate with screws. His postoperative recovery was unremarkable, although he was at risk for deep vein thrombosis, that is, blood clots in his legs. He was discharged to a rehabilitation facility for several weeks of physical therapy and assistance with activities of daily living, such as personal hygiene, dressing, eating, ambulating, and toileting.

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CASE STUDY QUESTIONS

| • | Write a word from the case histories that means the same as each of the |
|---|--|
| | following: |
| | 1. replacement of half of the joint component |
| | 2. substances that act against microorganisms |
| | 3. in a position away from the midline of the body |
| | 4. in a position toward the midline of the body |
| | |
| • | Identify and define the prefix in each of the following words. |
| | Prefix Meaning of Prefix |
| | 5. displace and dislocate |
| | 6. replacement, recovery, |
| | and rehabilitation |
| | 7. avascular |
| | 8. anesthesia and analgesic |
| | 9. orthopedic |
| | 10. externally |
| | 11. bipolar |
| | 12. unremarkable |
| | |
| | Fill in the blanks. |
| | 13. The adjective for the operative time span from decision for surgery to |
| | placement on the operating room table is . |
| | 14. The adjective for the operative time span from placement on the |
| | operating room table until transfer to postanesthesia recovery unit or |
| | intensive care unit is . |
| | 15. The adjective for the operative time span from admission to postanesthesia |
| | is . |

Common Medical Affixes

very frequently in medical literature. They will reappear in Part Two, but it is strongly recommended that students learn them at this stage, as they are of great use in learning medical terminology. Try to memorize them and do the exercises that follow.

| Affixes for Organs and Body Parts | | | | | |
|-----------------------------------|---------------------------------|---|--|--|--|
| AFFIX | MEANING | EXAMPLE | | | |
| arthro- | joint | arthritis 关节炎,arthralgia 关节痛,arthrolysis 关节松解术,arthroedema 关节水肿,arthrocele 关节肿胀,arthropathy 关节病 | | | |
| cardio- -cardium | heart, upper opening of stomach | cardiovascular 心血管的,cardiotonics 强心剂,cardiospasmus 贲门痉挛,cardialgia 心痛,myocardium 心肌,pericardium 心 包,epicardium 心外膜,precardium 心前区 | | | |
| cysto- | urinary bladder | cystitis 膀胱炎. cystolith 膀胱结石. cystospasm 膀胱痉挛. cystodynia 膀胱痛. cystocele 膀胱突出. cystopyelitis 膀胱肾盂炎 | | | |
| cholecysto- | gall bladder | cholecystitis 胆囊炎,cholecystectomy 胆囊切除术,cholecystalgia 胆绞痛,cholecystocele 胆囊囊肿,cholecystomsy 胆囊切开术, cholecystogastrostomy 胆囊胃吻合术 | | | |
| entero- -entery | intestine | enteritis 肠炎,enterorrhagia 肠出血,enteroscopy 肠镜检查,enterobactin 肠菌素,dysentery 痢疾,mesentery 肠系膜 | | | |
| gastro- | stomach | gastritis 胃炎,gastrocele 胃膨出,gastroduodenitis 胃十二指肠炎,gastrointestinal 胃肠的,gastropathy 胃病,gastrodynia 胃痛 | | | |
| hepato- | liver | hepatitis B 乙型肝炎,hepatoma 肝肿瘤,hepatapostema 肝脓肿,hepatologist 肝脏病学家,hepatase 肝解毒酶,hepatic 肝脏的 | | | |
| myo- | muscle | myocardium 心肌,myoma 肌瘤,myoblast 肌原细胞.成肌细胞,myodynia 肌痛,myoalbumin 肌清蛋白,myocarditis 心肌炎 | | | |
| nephro- reno- | kidney | nephralgia 肾痛, nephropathy 肾病, nephrolith 肾结石, nephroblast成肾细胞, renal 肾脏的, renography 肾造影术 | | | |
| pancreato- | pancreas | pancreatopathy 胰腺病,pancreatin 胰酶,pancreatoid 胰样的,pancreatolith 胰石,pancreatitis 胰腺炎,pancreatectomy 胰切除 | | | |
| pulmo(no)- pneumo- * | lung | pulmonary 肺 的,pulmogram 肺 部 X 线 照 片,pulmonitis = pneumonia 肺炎,pneumobacillus 肺炎杆菌,pneumocin 肺炎球菌素 | | | |
| spleno- lieno- | spleen | alienia 无脾,splenectomy 脾切除术,splenalgia 脾神经痛,lienopathy,lienography 脾造影术,lienotoxin 脾毒素 | | | |
| * "Pneumo-" | may also mear | n "air",as in pneumodermia(皮下气肿). | | | |

| Affixes for Diseases and Symptoms | | | | | |
|-----------------------------------|---------------------|---|--|--|--|
| AFFIX | MEANING | EXAMPLE | | | |
| -algia -dynia * | pain | gastralgia 胃痛,gastrodynia 胃痛,arthralgia 关节痛,neuralgia 神经痛,costalgia 肋痛,rachiodynia 脊柱痛 | | | |
| carcino- | cancer | carcinogen 致癌物,carcinectomy 癌切除术,carcinogenic 致癌的,carcinocytemia 癌细胞血症,carcinoid 类癌瘤,carcinoma癌瘤 | | | |
| dys- | difficulty disorder | dysaudia 听力障碍, dysentery 痢疾, dysmenorrhea 痛经, dysfunction 机能障碍, dysplasia 发育异常, dyspnea 呼吸困难 | | | |
| -emia | blood disorder | leukemia 白血病,hyperemia 充血,bacteremia 菌血症, hypoglycemia 低血糖,gastremia 胃充血,anemia 贫血 | | | |
| -itis | inflammation | hepatitis 肝炎,nephritis 肾炎,enteritis 肠炎,otitis media 中耳炎,bronchitis 支气管炎,tracheitis 气管炎,cholecystitis 胆囊炎,phlebitis 静脉炎,tonsillitis 扁桃体炎,spondylitis 脊椎炎 | | | |
| -lith lithiasis | stone stone disease | nephrolith 肾石,cystolithiasis 膀胱结石病,haematolith 血管石,cholecystolithiasis 胆结石病,cholelith 胆石,gastrolithiasis胃石病 | | | |
| mal- | bad | malfunction 机能障碍,malnutrition 营养不良,malformation 畸形,maladaptation 适应失调,malignant 恶性的,malposition 错位 | | | |
| -oma onc(h)o- | tumour | hematoma 血肿,carcinoma 癌瘤,hepatoma 肝肿瘤,sarcoma 肉瘤,oncology 肿瘤学,onchocyte 肝肿细胞 | | | |
| -rrhagia -rrhage -staxis | bleeding | hemorrhage 出血,cystorrhagia 膀胱出血,enterostaxis 肠渗血,pneumorrhagia 肺出血,bronchostaxis 支气管出血,epistaxis鼻衄 | | | |
| -rrh(o)ea | flow discharge | diarrhea 腹泻,dermatorrhea 汗溢,seborrhea 皮脂溢,脂溢性皮炎,otorrhea 耳液溢,pseudodiarrhea 假性腹泻,dysmenorrhea 痛经 | | | |

^{*} Another suffix for "pain" is -ache, which is used only to form a limited number of words. like stomachache, headache, backache, toothache, and earache.

COMMON MEDICAL AFFIX EXERCISE

| Match th | e following terms and w | rite the | a p | propriate letter to the left of each |
|----------|-------------------------|----------|-----|--------------------------------------|
| number. | | | | |
| | 1. malodorous | | a. | 肝癌 |
| 1 | 2. myoma | | b. | 胆囊炎 |
| | 3. hepatocarcinoma | | c. | 有恶臭的 |
| | 4. lienopathy | | d. | 肌瘤 |
| | 5. cholecystitis | | e. | 脾病 |
| | 6. cystolithiasis | | a. | 肠渗血 |
| | 7. arthrolith | | b. | 胃出血 |
| | 8. cardialgia | × | c. | 关节石 |
| | 9. gastrorrhagia | | d. | 心灼痛 |
| | 10. enterostaxis | | e. | 膀胱结石病 |
| -00 | 11. nephritis | | a. | 胰腺炎 |
| | 12. splenodynia | | b. | 肾炎 |
| | 13. pyopericardium | * | c. | 心包积脓 |
| | 14. pancreatitis | | d. | 肺容量计 |
| | 15. pulmometer | | e. | 脾痛 |
| | 16. diarrhea | | a. | 出血 |
| (e | 17. dysencephalia | | b. | 瘤细胞 |
| | 18. oncocyte | | c. | 腹泻 |
|) | 19. hemorrhage | | d. | 败血症 |
| | 20. septicemia | U | e. | 脑功能障碍 |
| | 21. pneumococcal | | a. | 痢疾 |
| | 22. dysentery | | | 肾核蛋白 |
| | 23. renosine | | | 肺炎球菌的 |
| | 24. myofibroma | | | 适应失调 |
| | 25. maladaptation | | | 肌纤维瘤 |

Useful Websites

----http://www.medword.com/prefixes.html----



This is the first "Prefixes" page (3 prefixes pages) from Medword.com. On this page you can see a brief description of the prefixes, followed by a list of the commonest medical prefixes, their uses and examples. It is highly recommended that students learn these prefixes at this stage, since all the prefixes listed here are absolutely essential for the learning of medical terminology.

At the bottom of each page, you will find links to other resources including quizzes and tests. On the right column, there is a very useful list of links to other medical resources.

PART TWO

Diseases, Treatment and Body Systems

