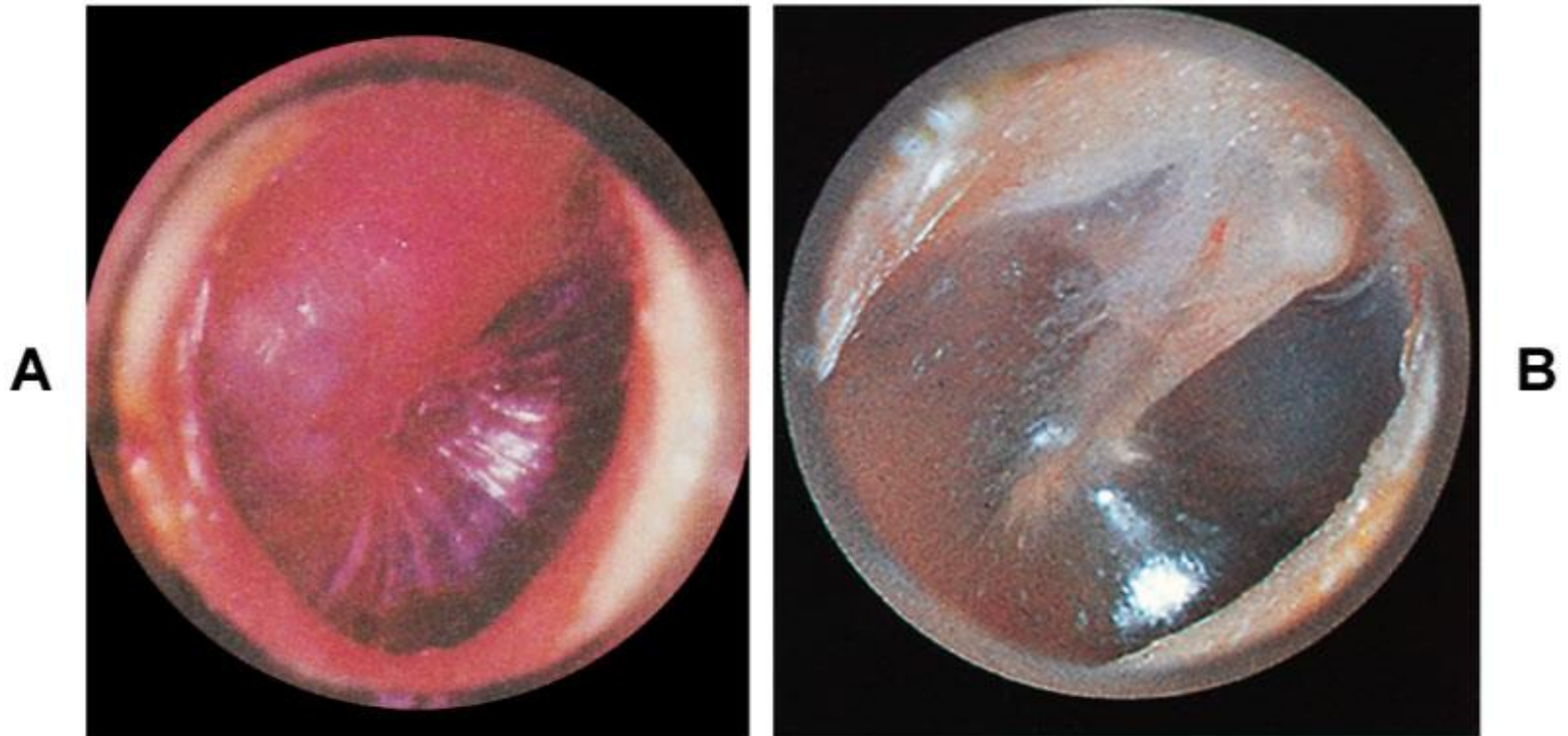


Chapter 13

Ear

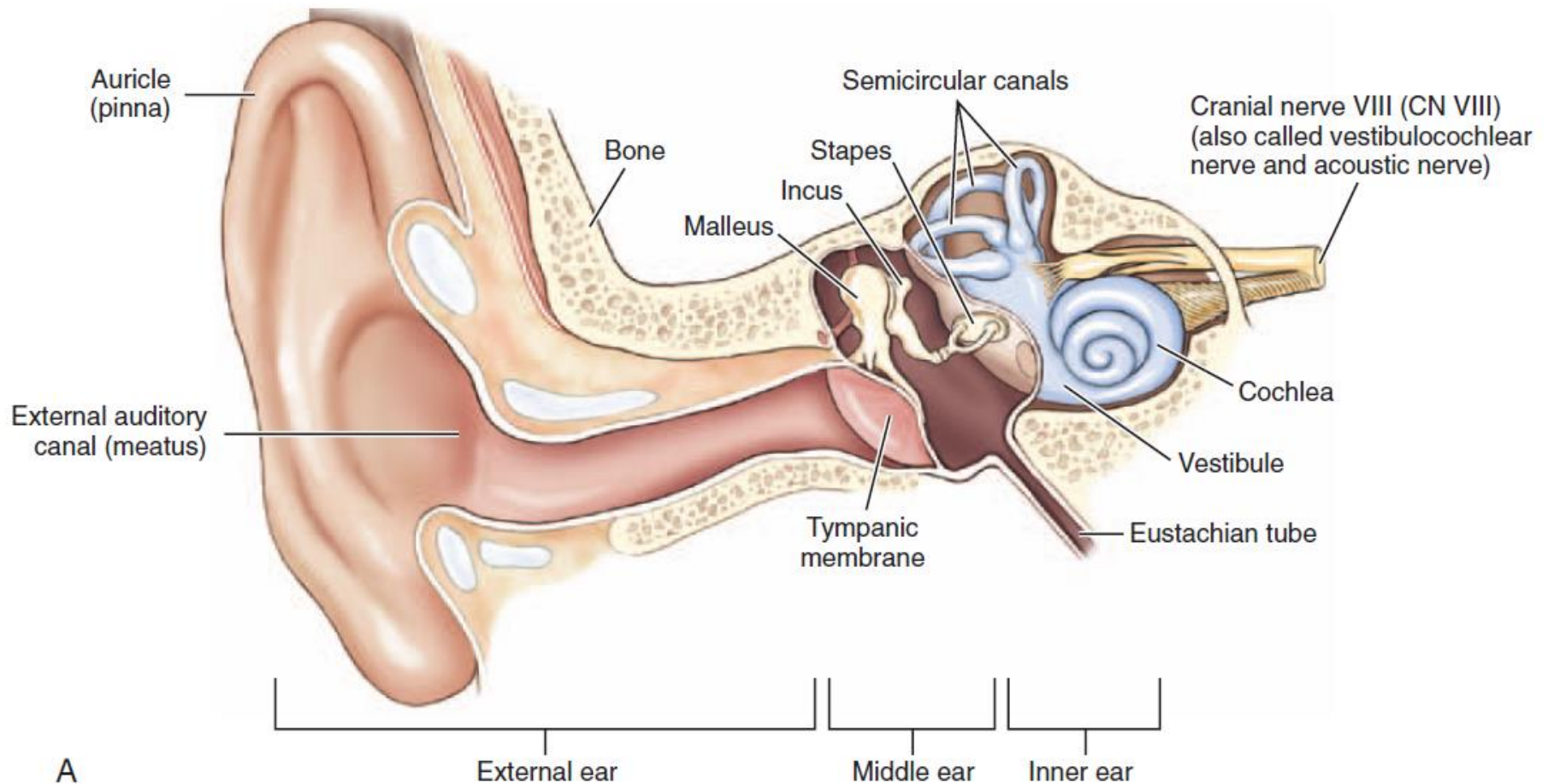


Courtesy Richard A. Buckingham, MD, University of Illinois, Chicago.

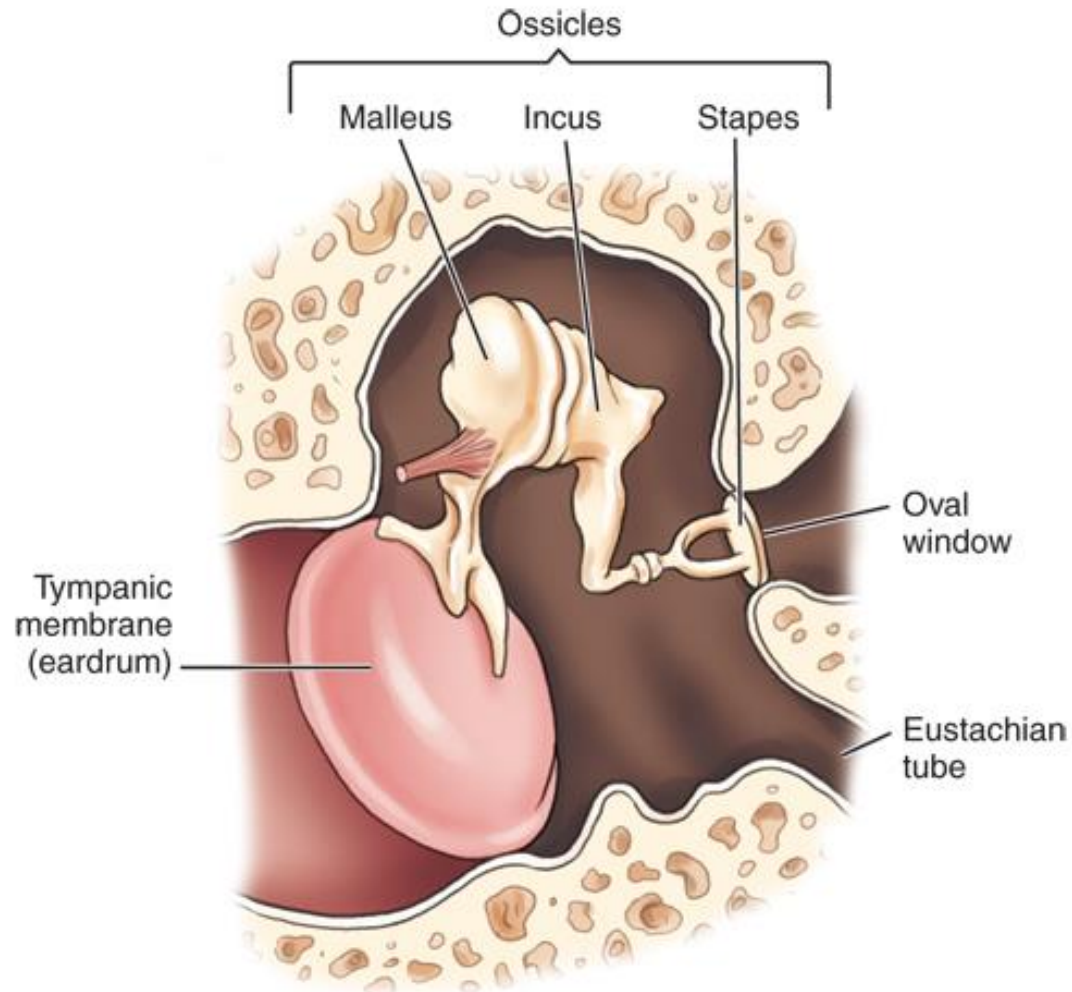
Chapter 13

Objective 1: Pronounce organs and anatomic structures of the ear.

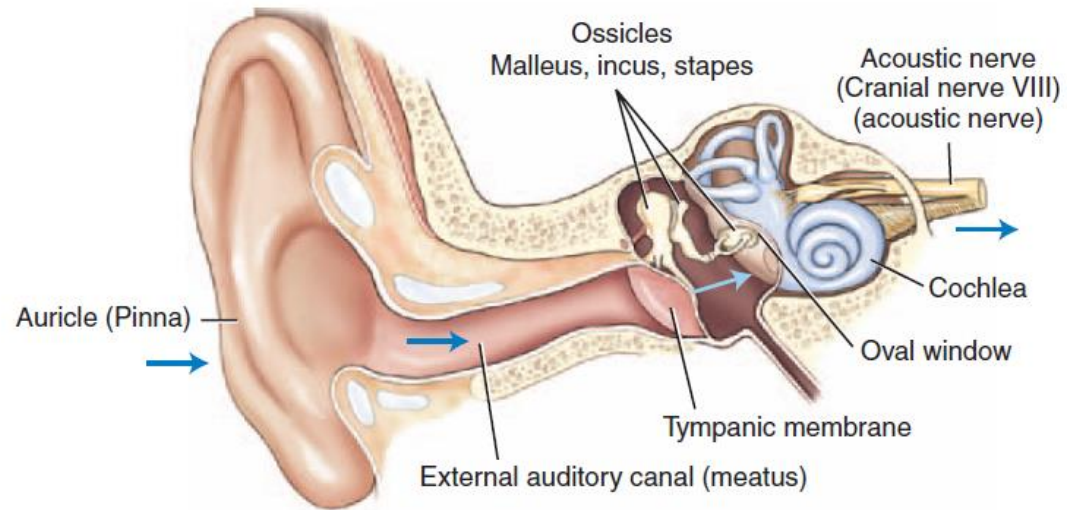
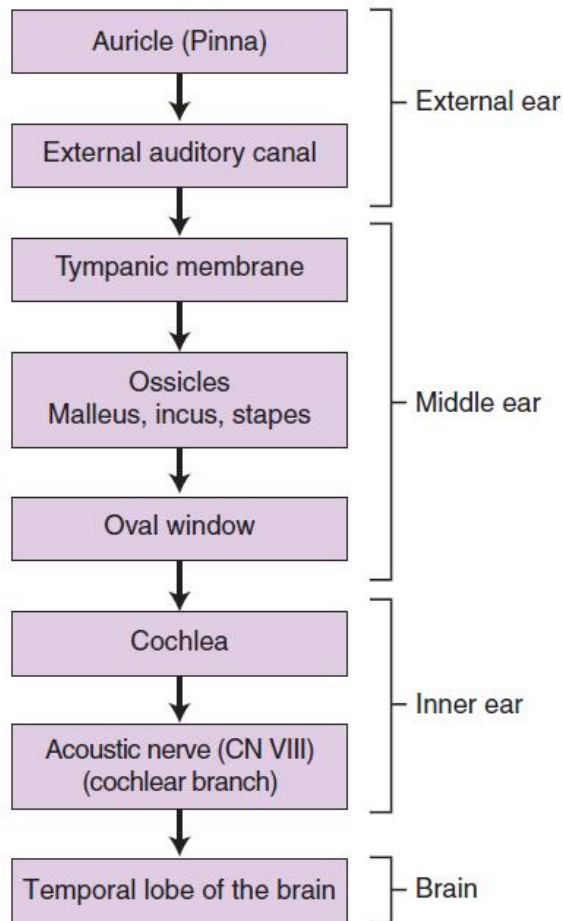
Anatomy of the Ear



The Middle Ear



Perception of Sound



Chapter 13

Objective 2: Define and spell word parts related to the ear.

Review Question

Fill in the blanks with combining forms of the ear.

1. Ear

CF: **aur/i**

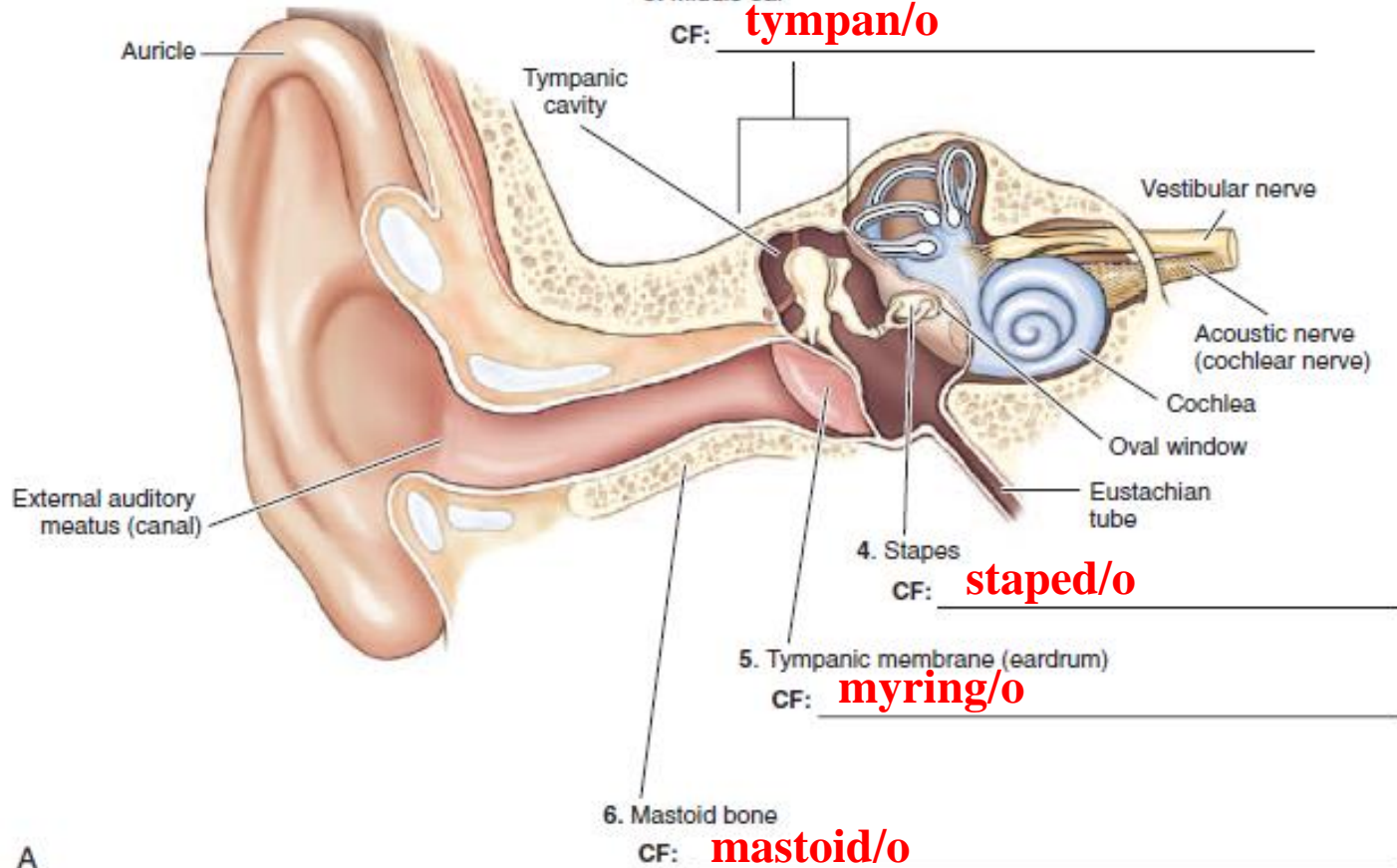
CF: **ot/o**

2. Hearing

CF: **audi/o**

3. Middle ear

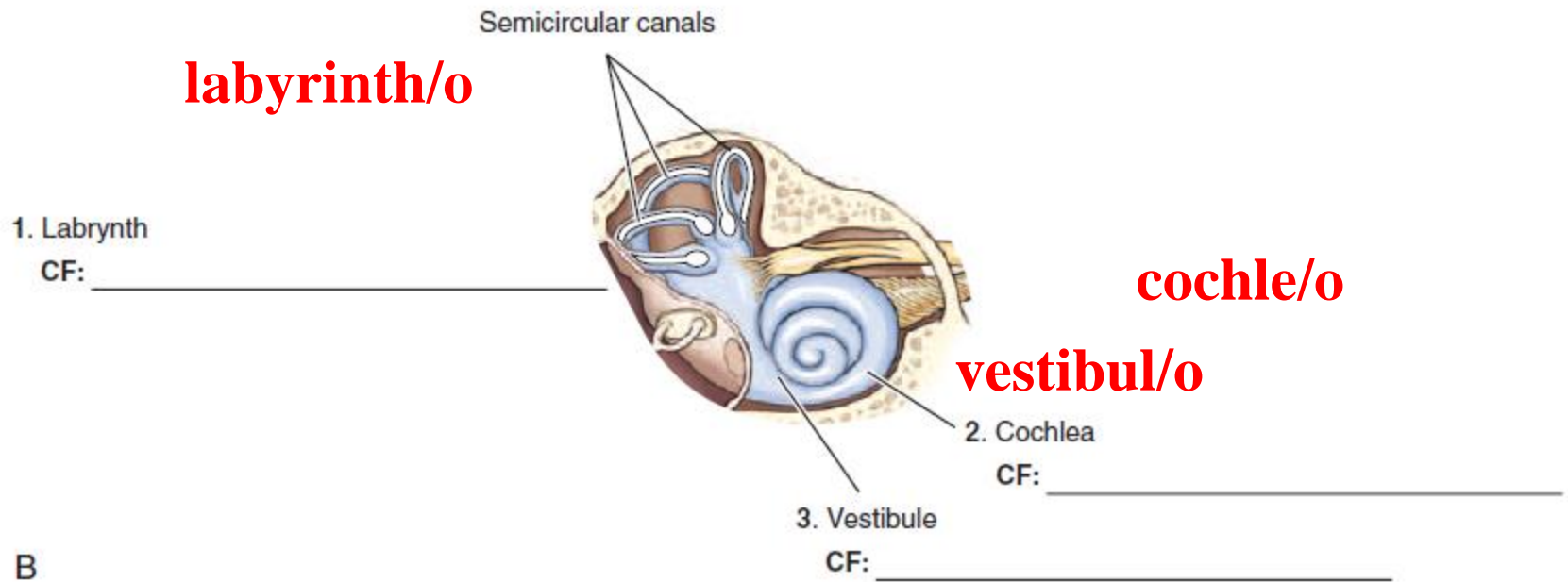
CF: **tympan/o**



A

Review Question

Fill in the blanks with more combining forms of the ear.



Review Question

The combining form for tympanic membrane (eardrum) is

- a) myring/o
- b) staped/o
- c) audi/o

Helpful Information

- tympan/o ... middle ear (usually)
- myring/o ... tympanic membrane (eardrum)
- labyrinth/o ... labyrinth

Chapter 13

Objective 3: Define, pronounce, and spell disease and disorder terms related to the ear.

Disease and Disorder Terms Not Built from Word Parts

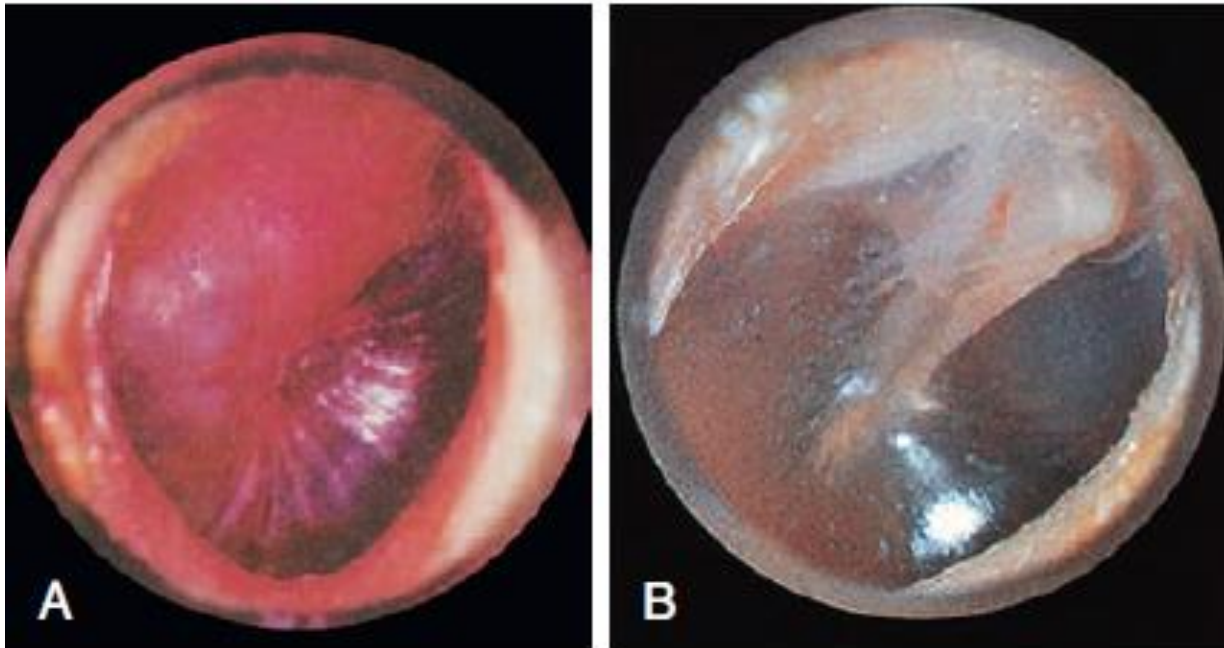


Otitis Externa



From Zitelli BJ, David HW. *Atlas of pediatric physical diagnosis*, ed 4, St. Louis, 2002, Mosby.

OM and Normal Tympanic Membrane



What is this inflammation of the middle ear?

OTITIS MEDIA

Review Question

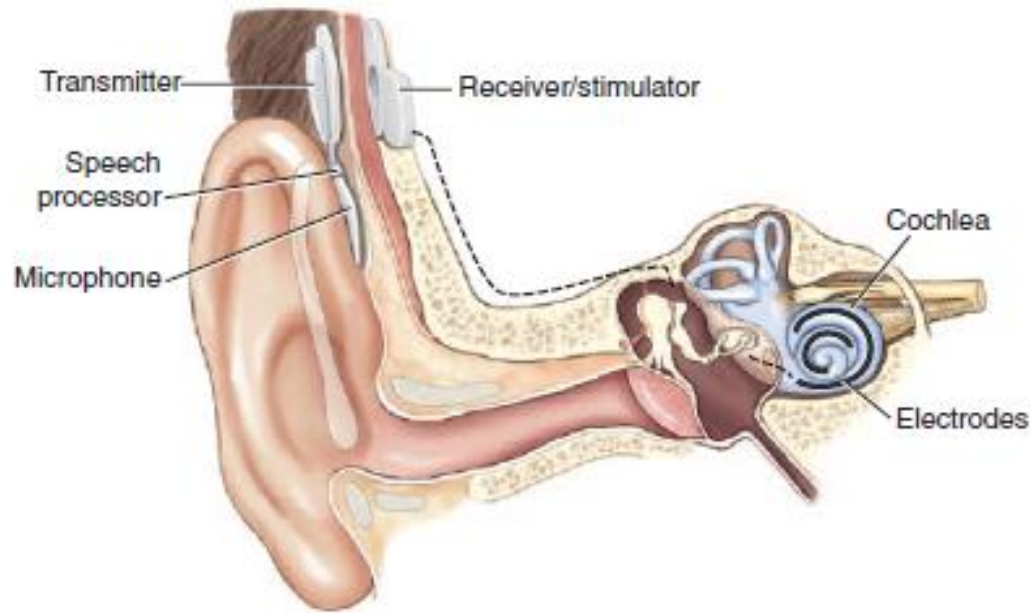
Ringling in the ears is

- a) otosclerosis
- b) tinnitus

Chapter 13

Objective 4: Define, pronounce, and spell surgical terms related to the ear.

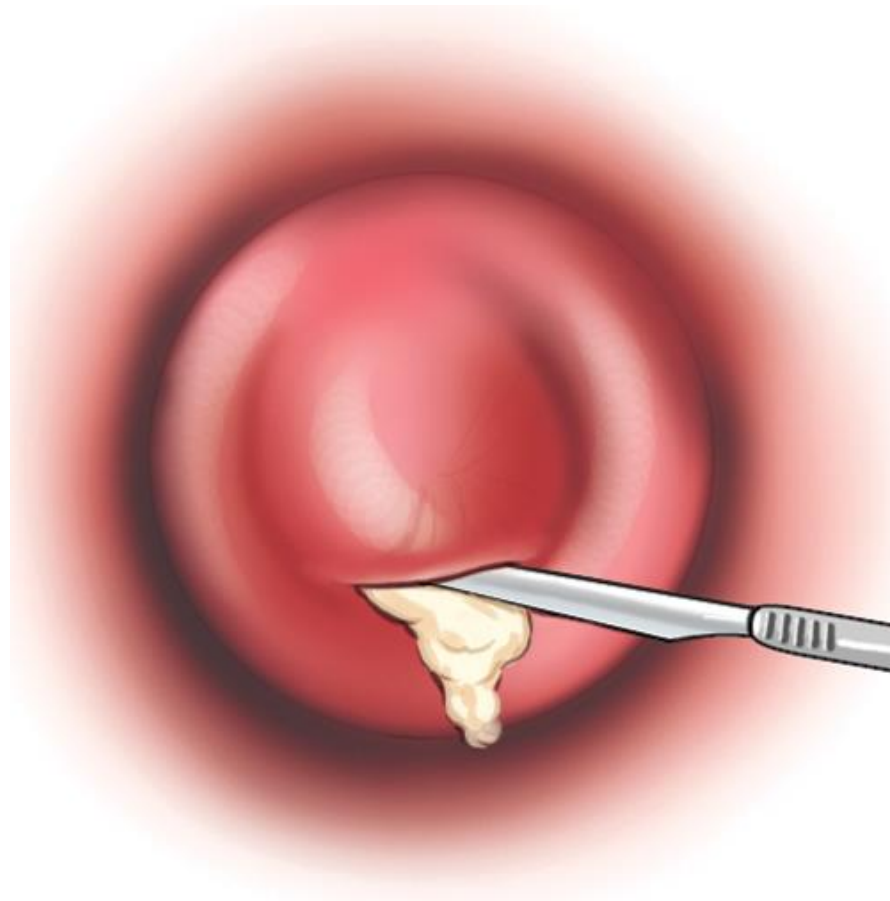
Surgical Terms Built from Word Parts



**electronic device that converts sound into
electrical impulses**

COCHLEAR IMPLANT

Myringotomy



Chapter 13

Objective 5: Define, pronounce, and spell diagnostic terms related to the ear.

Diagnostic Terms Built from Word Parts



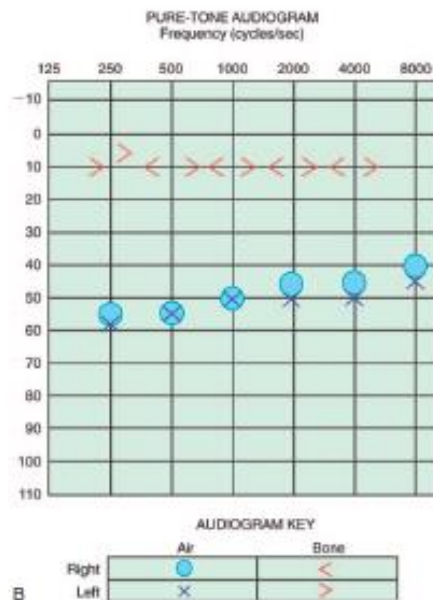
**instrument used to measure middle ear
(function)**

TYMPANOMETER

Audiometer and Audiogram



A



B

FIG. 13.6 A, Audiometer. B, Audiogram.

Chapter 13

Objective 6: Define, pronounce, and spell complementary terms related to the ear.

Complementary Terms Built from Word Parts

- audiologist
- audiology
- aural
- cochlear
- otolaryngologist
(ENT)
- otologist
- otology
- vestibular
- vestibulocochlear

Chapter 13

Objective 7: Interpret the meaning of abbreviations related to the ear.

What is the abbreviation for this specialist conducting the exam with the use of an otoscope?



ENT

Chapter 13

Objective 8: Apply medical language in clinical contexts.

Pronounce Medical Terms in Use

ACUTE OTITIS MEDIA

Acute **otitis media** (ō-TĪ-tis) (MĒ-dē-a) is one of the most common pediatric infections. Most middle ear infections are caused by bacteria, and some by viruses. Symptoms include **otalgia** (ō-TAL-ja), **otorrhea** (ō-tō-RĒ-a), ear pulling, and irritability. The tympanic membrane will be bulging, red in color, with a thickened appearance and reduced translucency. Antibiotics may be ordered if the infection does not resolve on its own. If unresponsive to antibiotic treatment, a **myringotomy** (mir-ing-GOT-o-mē) may be performed to identify the causative pathogen, allowing for the appropriate antibiotic treatment to be prescribed.

Comprehend Medical Terms in Use

Test your comprehension of terms in the previous passage about otitis media by answering T for true and F for false.

- _____ 1. Inflammation of the outer ear is one of the most common pediatric infections.
- _____ 2. Pain and discharge from the ear are symptoms of acute otitis media.
- _____ 3. Surgical repair of the tympanic membrane may be performed to identify causative organisms.