

Component 3-Terminology in Healthcare and Public Health Settings

Unit 8-Ears, Nose, Throat, Eyes and Vision

Lecture 8a-Ears, Nose, and Throat

This material was developed by The University of Alabama at Birmingham, funded by the Department of Health and Human Services,
Office of the National Coordinator for Health Information Technology under Award Number 1U24OC00023.

Ears, Nose and Throat

- Objectives
 - Define, understand and correctly pronounce medical terms related to the ears, nose and throat
 - Describe the following related to the ears, nose, throat
 - common diseases and conditions
 - laboratory and diagnostic procedures
 - medical and surgical procedures
 - medications

Anatomy of the Ear

- Outer ear
 - Referred to as the auricle or pinna
- Middle ear
 - Auditory ossicles
 - Malleus
 - Incus
 - Stapes
 - Tympanic membrane



Hearing Loss and Deafness

Reasons for Hearing Loss Possible Treatments

- | | |
|---|--|
| <ul style="list-style-type: none"> • Heredity • Ear infections • Meningitis • Trauma • Certain medicines • Long-term exposure to loud noises • Aging | <ul style="list-style-type: none"> • Hearing aid • Cochlear implants • Special training • Certain medicines • Surgery |
|---|--|

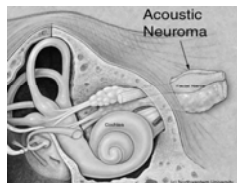
Anatomy of the Ear

- Inner Ear
 - Location
 - Large cavity in the temporal bone
 - Sensory organs
 - Cochlea
 - Three fluid-filled canals
 - Organ of Corti



Ear Disorders and Diseases

- Acoustic Neuroma
 - Noncancerous nerve tumor
 - Symptoms
 - One-sided hearing loss
 - Ringing in ears
 - Dizziness
 - Balance problems
 - Diagnostic tests
 - Ear exams
 - Hearing tests
 - Scans
 - Treatment
 - Surgery
 - Radiation



Ear Disorders and Diseases

- Dizziness and Vertigo
 - Light-headed, loss of balance=dizziness
 - Surroundings seem to whirl around=vertigo
- Ear Infections
 - Otitis media
 - Common in young children
 - Symptoms
 - Pain, ear drainage, hearing problems
 - Treatment
 - Medications
 - Ear tubes

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Ear Disorders and Diseases

- Meniere's Disease
 - Symptoms
 - Tinnitus (roaring in ears)
 - Hearing comes and goes
 - Ear pressure or pain
 - Treatment
 - Changing diet
 - Medications
 - Surgery

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Ear Disorders and Diseases

- Meniere's Disease
 - Symptoms
 - Treatment
- **Noise**
 - **Hazardous**
 - **Sound levels >80 decibels**

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Ear Disorders and Diseases

- Meniere's Disease
 - Symptoms
 - Etiology (or cause)
 - Treatment
- Noise
- Tinnitus
 - Symptoms
 - Roaring in ears
 - May be symptom of other health problems
 - Treatment
 - Hearing aids, sound masking devices, medications

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Nose and Throat Overview

- Nose
 - External opening to the respiratory tract
 - Acts as a filter and humidifier for the air breathed
 - Functions as the organ for the sense of smell
- Throat
 - Pharynx
 - Commonly called the throat
 - Connects the mouth and nose to the larynx
 - Larynx
 - Commonly called the voice box
 - Connects the pharynx with the trachea
 - Trachea
 - Commonly called the windpipe
 - Pathway for air to reach the chest

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Nasal Cavity Disorders

- Allergy
 - Reaction of immune system
 - Etiology
 - Genetic and environmental
 - Symptoms
 - Runny nose
 - Sneezing
 - Itching
 - Rashes
 - Swelling
 - Asthma

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Nasal Cavity Disorders

- Allergy
 - Definition
 - Etiology
 - Symptoms
- **Common Cold**
 - **Most common illness**
 - **No cure**
- **Hay Fever**
 - **Seasonal allergy**
 - **Treatment**
 - Allergy medications
 - Nasal sprays

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Nasal Cavity Disorders

- Deviated Septum
- Nasal Polyps
- Nosebleeds
- Rhinitis
- Sinusitis
 - Sinuses infected or inflamed
 - Symptoms
 - Treatment

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Nasal Cavity Disorders

- **Nasal Cancer**
 - Nasal cavity or paranasal sinuses
 - Risk Factors
 - Gender and Age
 - Symptoms
 - Treatment
 - Surgery
 - Radiation
 - Chemotherapy

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Throat Disorders

- **Cough**
 - Acute
 - Chronic

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Throat Disorders

- Cough
 - Acute
 - Chronic
- **Diphtheria**
 - Bacterial infection of nose and throat
 - Symptoms
 - Bad sore throat
 - Swollen glands
 - Fever and chills

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Throat Disorders

- Cough
 - Acute
 - Chronic
- Diphtheria
 - Definition
 - Symptoms
- **Streptococcal Infections**
 - Group A and B
 - Antibiotics used for both

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Streptococcal Infections

- **Group A**
 - Strep throat – a sore, red throat, sometimes with white spots on the tonsils
 - Scarlet fever – red rash on the body
 - Impetigo – a skin infection
 - Toxic shock syndrome - a rare disease caused by certain toxins produced by certain strains of this Staph aureus
 - Cellulitis

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Streptococcal Infections

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 - Strep throat – a sore, red throat, sometimes with white spots on the tonsils
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 - Cellulitis
- **Group B**
 - Causes blood infections, pneumonia and meningitis in newborns
 - Screening exam during pregnancy
 - Causes infections in urinary tract, blood and skin; also pneumonia in adults

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Head and Neck Cancers

- **Location of Cancers**
 - Mouth
 - Nose
 - Sinuses
 - Salivary glands
 - Throat
 - Lymph nodes in the neck

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Ears Combining Forms

Word Part	Meaning	Key Term
acous/o	hearing	acoustic
aur/o	ear	aural
audi/o	hearing	audiology
myring/o	eardrum	myringotomy
ot/o	ear	otorrhea
tympan/o	eardrum	tympanoplasty

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Unit 8

Tell me, Detective

- A six month old male baby is brought to the pediatric clinic. The mother states the baby has been crying nonstop, not sleeping, has a fever, and is pulling at his ears. If the physician notes a bulging membrane in the exam of the right ear, what would be a likely diagnosis?



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For additional information on content covered in this unit, please visit:

<<http://www.nlm.nih.gov/medlineplus/earnoseandthroat.html>>

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