

Terminology in Health Care and Public Health Settings

Unit 8 Ears, Nose, Throat Eyes and Vision

Component 3/Unit 8

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Ear, Nose, & Throat Eyes and Vision

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

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Anatomy of the Ear

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



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Anatomy of the Ear

- Anatomy of the Ear (cont'd)

- Inner Ear

- Location
 - Large cavity in the temporal bone
 - Sensory organs
 - Cochlea
 - » Three fluid filled canals
 - » Organ of Corti
 - Vestibular apparatus



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Hearing Loss and Deafness

Reasons for Hearing Loss	Possible Treatments
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| <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 |
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Ear Disorders and Diseases

- Acoustic Neuroma
 - Definition
 - Symptoms
 - Diagnostic tests
 - Treatment
- Dizziness and Vertigo
 - Definitions
 - Symptoms
- Ear Infections
 - Otitis media
 - Symptoms
 - Treatment

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Ear Disorders and Diseases

- Meniere's Disease
 - Symptoms
 - Etiology (or cause)
 - Treatment
- Noise
 - Definition
 - Hazardous
 - Sound levels >80 decibels
- Tinnitus
 - Symptoms
 - Treatment

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Nose and Throat Overview

- Nose
 - External opening to the respiratory tract that 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 and connects the mouth and nose to the larynx
 - Larynx
 - Commonly called the voice box and connects the pharynx with the trachea
 - Trachea
 - Commonly called the windpipe and serves as a pathway for air to reach the chest

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Nasal Cavity Disorders

- Allergy
 - Definition
 - Reactive Substances
 - Etiology
 - Symptoms
- Common Cold
 - Most common illness
 - Symptoms
 - Treatment
- Hay Fever
 - Triggers
 - Symptoms
 - Treatment

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Nasal Cavity Disorders

- Deviated Septum
- Nasal Polyps
- Nosebleeds
- Rhinitis
- Sinusitis
 - Definition
 - Symptoms
 - Treatment

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Nasal Cavity Disorders

- Nasal Cancer
 - Location
 - Risk Factors
 - Symptoms
 - Treatment
 - Surgery
 - Radiation
 - Chemotherapy

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Throat Disorders

- Cough
 - Acute
 - Chronic
- Diphtheria
 - Definition
 - Symptoms
- 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
 - Group B
 - Causes blood infections, pneumonia and meningitis in newborns
 - Causes infections in urinary tract, blood and skin; also pneumonia in adults
 - Screening exam during pregnancy

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Head and Neck Cancers

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

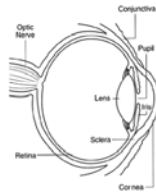
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Anatomy of the Eye

- Anatomy of the Eye
 - Sclera
 - Tough white outer covering of the eyeball
 - Cornea
 - Clear and has a curved surface that allows light to enter the eye
 - Iris
 - Colored part of the eye that shrinks and expands so the pupil can adjust to the incoming light



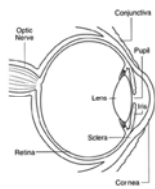
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Anatomy of the Eye

- Anatomy of the Eye
 - Lens
 - Clear part of the eye behind the iris that helps to focus the light onto the retina
 - Retina
 - Light sensitive receptor cells carry images to the brain through the optic nerve
 - Optic Nerve
 - A bundle of more than one million nerve fibers that carries visual messages from the retina to the brain



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Eye Disorders and Diseases

- Cataract
 - Definition
 - Symptoms
 - Treatment
- Color Blindness – three types
 - Red-green color vision defects
 - Blue-yellow color vision defects
 - Absence of color vision
- Diabetic Retinopathy
 - Definition
 - Symptoms
 - Treatment

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Eye Disorders and Diseases

- Glaucoma
 - Definition
 - Risk factors
 - Symptoms
 - Treatment
- Eye Infections
 - Conjunctivitis
 - Style

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Eye Disorders and Diseases

- Macular Degeneration
 - Definition
 - Symptoms
 - Treatment
- Refractive Errors
 - Myopia
 - Hyperopia
 - Presbyopia
 - Astigmatism

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Eye Disorders and Diseases

- Eye Cancers
 - Locations
 - Outer parts
 - Eyelid (muscles, skin & nerves)
 - Intraocular – most common types
 - Melanoma
 - Lymphoma
 - Retinoblastoma in children
 - Treatment
 - Varies by type of cancer and stage
 - Surgery, radiation therapy, freezing or heat therapy or laser therapy

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Ears and Eyes Combining Forms

Word Part	Meaning	Key Term
blephar/o	eyelid	blepharoplasty
choroid/o	choroid	choroidiritis
conjunctiv/o	conjunctiva	conjunctivitis
myring/o	eardrum	myringotomy
ot/o	ear	otorrhea
retin/o	retina	retinopathy
tympan/o	eardrum	tympanoplasty

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