OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Define optician, optometrist, and ophthalmologist.
2. Identify the structures of the eye and their functions.
3. Identify the normal ophthalmic changes that occur with aging.
4. Describe the meaning of PERRLA and its assessment.
5. Identify the instruments used in an examination of the eye and the meaning of the results/measurements.
7. Describe the procedure for removing a foreign object from the eye.
8. Describe the procedure for irrigating an eye.
9. Explain the values used to describe visual acuity, as determined by the Snellen and Jaeger tests.
10. Differentiate “legally blind” and “partially sighted.”
11. Name the rehabilitation objectives for the visually impaired.
12. Name the aids available for the blind.
13. Describe nursing care variations for the patient with visual impairment.
14. Describe life adaptations necessary for the patient with visual impairment.
15. Define conjunctivitis and summarize its treatment and nursing care.
16. Define terms that indicate refractive errors.
17. Describe the causes and development of cataracts.
18. Describe the treatment and nursing management of a patient with a cataract.
19. Define glaucoma and differentiate between the classes of glaucoma and their signs and symptoms.
20. Describe the treatment of and nursing management for acute and chronic glaucoma.

Written: 09/90
Reviewed: 09/93; 07/99; 10/09; 03/13; 03/15
Revised: 07/95; 07/97; 07/01; 07/03; 07/05; 06/07; 03/11; 1/16
OBJECTIVES (CONT’D)

Upon completion of this unit, the student will be able to:

21. Describe the symptoms, treatment, and nursing management for the patient with macular degeneration.
22. Define detached retina and describe the symptoms associated with the disorder.
23. Briefly describe the methods of treatment for detached retina.
24. Define enucleation.
25. Describe the care of an artificial eye.
26. Describe nursing considerations when admitting a patient for eye surgery.
27. List and state the indications for pre-operative medications.
28. Demonstrate proper technique of administration of eye drops.
29. Discuss post-operative nursing care of a patient following eye surgery.

PLAN OF LESSON (CONT’D)

X. XIII. Enucleation
   A. Definition
   B. Causes
   C. Care of Prosthesis

XI. XIV. Pre-Operative Care
   A. Admission Interview/Patient Orientation
   B. Pre-Operative Sedation
   C. Eye Drops/Ointments
      1. Mydriatics
      2. Cycloplegics & Miotics
      3. Others (Antibiotics, Antivirals, Corticosteroids)
      4. Procedure for Instilling

XV. Post-Operative Care/Nursing Management
Unit: Medical Surgical Nursing  
Disorders of the Eyes, Ears, Nose and Throat  
Lesson: 2  
Title: Hearing Impairment  
Time: Theory 1 Hour

OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Label the parts of the ear and state the function of each.
2. Discuss assessment of the ear and hearing, including otoscopic exam.
3. Describe age-related changes in the ear and hearing.
4. Explain the two types of hearing loss and state examples.
5. Discuss the factors influencing communication for the hearing impaired.
6. Identify the OSHA standards for ear protection in the workplace.
7. Discuss rehabilitation of the hearing impaired and the use of hearing aids.
8. Describe common disorders of the external ear and their treatments.
9. Discuss and demonstrate the proper technique for irrigating the external auditory canal and for ear drop/ointment administration.
10. Define and list the signs and symptoms of otosclerosis.
11. Explain the treatment of otosclerosis.
12. Define otitis media, its types, treatment, and nursing management.
13. Discuss the complications of otitis media.
15. Define mastoiditis, acute and chronic.
16. Explain the symptoms and treatment for acute and chronic mastoiditis.
17. Discuss the post-op care of the patient having ear surgery.
18. Define and list the symptoms of Meniere’s disease.
19. Summarize the treatment and nursing care of the patient with Meniere’s disease.

Written: 09/90  
Reviewed: 09/93; 07/99; 10/09; 03/13; 03/15  
Revised: 07/95; 07/97; 07/01; 07/03; 07/05; 06/07; 03/11; 1/16  

Implementation: Linton, Ch. 54; Herlihy Ch. 13; Lecture/Class Discussion; Transparencies; Demonstration  
Evaluation: Class Participation, Quizzing, Written Test, Application in Patient Care  
Integrated: Anatomy 0.25 Hour; Fundamentals 0.5 Hour; Pharmacology 0.25 Hour; and Geriatrics 0.5 Hour

PLAN OF LESSON

I. Introduction
   A. Review of Anatomy
      1. External Ear
      2. Middle Ear
      3. Inner Ear
   B. Assessment
      1. Otoscopic Exam
      2. Romberg Test
      3. Tuning Fork Tests
      4. Audiometry
      5. CT/MRI

II. Age Related Changes

III. Hearing Loss
   A. Conductive
   B. Sensorineural
   C. OSHA Standards

IV. Communication
   A. Attitudes
   B. Environmental Factors
   C. Rehabilitation
      1. Hearing Aids
      2. Surgery
   D. OSHA Standards

V. Disorders of External Ear
   A. Impacted Cerumen
      1. Irrigation
      2. Nursing Care
   B. External Otitis
   C. Foreign Material/Insects
      1. Treatment
      2. Prognosis

VI. Conditions of the Middle Ear
   A. Otitis Media
      1. Definition
      2. Symptoms
      3. Treatment
      4. Surgical Management (Myringotomy & Tympanostomy Tubes)
      5. Nursing Care
      6. Potential Complications
   B. Mastoiditis
      1. Acute
      2. Chronic
      a. Definition
      b. Symptoms
      c. Treatment
      d. Post-op Nursing Care

VII. Disorders of the Inner Ear
   A. Meniere’s Disease
      1. Definition
      2. Symptoms
      3. Treatment
      4. Nursing Management
OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Identify the structures and functions of the nose and sinuses.
2. Describe assessment and diagnostic tests pertaining to the nose and sinuses, including the speculum exam.
3. Define sinusitis.
4. List the predisposing factors, treatment, and complications of sinusitis.
5. Define polyps, and list its signs and symptoms, common methods of treatment, surgical management, and nursing care.
6. Define rhinitis, state the symptoms, and identify the drug therapy used.
7. Define adenoids and adenoiditis, and describe the symptoms associated with this condition.
8. Define deviated septum and discuss treatment for the disorder.
9. Discuss the nursing care of the patient with nasal surgery.
10. Define epistaxis, listing the common causes and treatment of the condition.

PLAN OF LESSON

I. Introduction: Review of Anatomy and Physiology

II. Disorders of the Nose

A. Sinusitis
   1. Definition
   2. Predisposing Factors
   3. Symptoms
   4. Treatment
   5. Surgical Management
   6. Complications

B. Polyps
   1. Definition
   2. Symptoms
   3. Treatment
   4. Surgical Management

C. Rhinitis
   1. Definition
   2. Symptoms

D. Adenoiditis
   1. Definition
   2. Symptoms

E. Deviated Septum
   1. Definition
   2. Symptoms

III. Care of Patient with Nasal Surgery

A. Pre-operative Care
B. Post-operative Care
C. Nasal Drops/Spray Administration

IV. Epistaxis

A. Definition
OBJECTIVES

Upon completion of this unit, the student will be able to:

1. Identify the structures and functions of the throat.
2. Identify the locations and types of taste buds.
3. Identify physiology of speech.
4. Describe the clinical manifestations and treatment of “strep throat.”
5. Identify the potential complications of “strep throat.”
6. Identify the types of adenoviral infections, stating their symptoms and treatment.
8. Define tonsillitis, describing symptoms, treatment, and nursing care of patients with this conditions.
10. Discuss pre & post-op nursing care for the patient having a T&A.
11. Explain the post-op diet after T&A.
12. Describe obstructive sleep apnea, including its etiology/causes, signs and symptoms, diagnosis, and treatment.
15. List symptoms of cancer of the larynx.
16. Describe procedures/tests used to diagnose cancer of the larynx.
17. Describe a partial and total laryngectomy.
18. Discuss post-op nursing measures for a patient after a total laryngectomy.
19. List drugs used in disorders of the throat.
20. State the common types of solutions used for throat gargles.
21. Demonstrate the proper procedure for using throat sprays; discuss necessary safety precautions.

PLAN OF LESSON

I. Introduction
   A. Anatomy and Physiology
      1. Taste Buds
      2. Speech

II. Disorders of the Throat
   A. Streptococcal Infection
      1. Definition
      2. Symptoms
      3. Treatment
      4. Potential Complications
   B. Adenoviral Infections
      1. Types
      2. Symptoms
      3. Treatment
   C. Pharyngitis
      1. Types
      2. Symptoms
      3. Treatment
   D. Tonsillitis
      1. Symptoms
      2. Treatment
      3. Nursing Care
   E. Care of Patient with T&A
      1. Definition
      2. Nursing Care
         a. Pre-op Care
         b. Post-op Care
         c. Post-op Diet
   F. Obstructive Sleep Apnea (OSA)
      1. Etiology
      2. Causes
   G. Laryngitis
      1. Definition
      2. Causes
      3. Symptoms
      4. Treatment
   H. Cancer of the Larynx
      1. Etiology
      2. Causes
      3. Symptoms
      4. Diagnosis
      5. Treatment
         a. Surgery
         b. Radiation
         c. Nursing Implications

III. Drug Therapy and Nursing Measures
   A. Indications for Medications
   B. Throat Gargles and Lozenges
   C. Throat Sprays and Precautions