

ARS: MD degree, ENT

1. Knowledge and understanding.

A1. Identify and recognize basic knowledge related to the anatomy, physiology and pathological physiology of the Ear, Nose and Throat.

A2. Explain the basics of physiology and central neural mechanisms and integration processes in speech, hearing, and swallowing.

A3. Discuss role of genetics and environmental etiologies on different ENT disorders.

A4. Identify the developmental and aging processes as to ORL diseases.

A5. Recognize the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the ORL Diseases that include:

A5a. Ear Diseases.

A5b. Nose Diseases.

A5c. Diseases of the larynx.

A5d. Diseases of Salivary Glands

A6. Discuss the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics of Ear disorders (congenital, inflammatory, neoplastic and allergic ear diseases).

A7. Identify and explain the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics of laryngeal diseases (congenital, inflammatory, traumatic, neoplastic, allergic).

A8. Acquire specific knowledge in the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and maxillofacial trauma.

A8a. Frontal fractures

A8b. Midfacial fractures

A8c. Mandibular fractures

A9. Know the epidemiology, etiology, pathogenesis, prophylaxis, clinical physiology, diagnostics, differential diagnostics, therapeutics and rehabilitation of the swallowing disorders.

A10. Acquire selected knowledge from other disciplines (phoniatics, acoustics, psychology and behavioral science).

A11. Acquire the basic knowledge for evaluating of children with outpatient health problems, disabilities and milestones delay.

A12. Acquire the basic knowledge in evaluating of psychiatric patients in the domain of phoniatics.

A13. Acquire the basic knowledge for interpreting a basic and computerized audiological report.

A14. Acquire teaching abilities relevant to disorders of voice, speech, language and swallowing in order to participate in planning and implantation of that field

A15. Acquire the basic knowledge of legal and medicolegal issues as well as issues related to medical ethics in his specialty.

A16. Know indications, contraindications, technique and complications of endoscopic diagnosis and management of Ear Nose and throat diseases

2. Intellectual skills

B1. Analyze the different therapeutic options in diseases of ORL, language and swallowing and applies them surgically, pharmacologically and behaviorally in order to be able to draw and perform the strategy of the therapy in the field efficiently.

B2. Collects complete, clear and organized information about the patient's ailments in order to

be able to analyze it and formulate a preliminary idea concerning the etiological diagnosis of ailments.

B3. Ability to listen to the patient complaints and analyse them as well as analyses the speech (verbal) message of the patient concerning voice, phonology, semantic, syntax, and morphology in order to be able to describe precisely the type and degree of pathological aspects of communication.

B4. Choose the suitable investigation according to the patient complaint and physical examination as well as the ability to analyse and relates the results of all different items of the battery of investigations in order to reach at an etiological diagnosis and possible differential diagnosis utilizing his/her theoretical background that draws charts for different groups of ailments in the field of otology.

B5. Analyse the different options in pharmacological treatment of diseases of the nose and paranasal sinuses in order to be able to describe them when needed.

B6. Grasps the principles of voice therapy in order to criticize the efficiency and pitfalls of each.

B7. Recognize the principles of behavior therapy in order to introduce efficiently these measures in the therapeutic programs given to patients.

B8. recognize the principles of general language stimulation in order to be able to give efficient family guidance programs to help families that have children with delayed language development to participate efficiently in the therapeutic program.

B9. Outline an algorithm for diagnosis and management of patients with dysphasia by using endoscopic tools.

B10. Outline an algorithm for diagnosis and treatment for the hearing impaired patient in order to include it efficiently in the comprehensive program for rehabilitation of the hearing handicapped.

B11. Identifies the role of prosthetic devices and aids in the therapeutic program for diseases of voice, speech, language and swallowing in order to be able to use it efficiently when

indicated.

B12. Grasp the principles of scientific research in the field of voice, speech, language and swallowing disorders in order to carry out efficiently academic and field research work.

B13. Assess the developmental milestones of children and classify their different types of disabilities.

B14. Outline an algorithm for diagnosis and management of children disability and determine the degree of handicap.

B15. Determines the cause of the neurological deficit in the domain of ENT).

B16. Interprets the results of investigations as CT, MRI and PTA.

B17. Outline the tumor staging system (TNM) and algorithm for patient management according to the cancer stage.

3. Professional/practical skills

C1. Practice skills of ENT examination including instrument use and doing related tests on these patients.

C2. Ability to collect patient symptoms effectively and to associate these symptoms with the signs that can be elicited from the physical examination of the ear, nose, pharynx and larynx.

C3. Practice stroboscopic laryngeal examination in order to study vocal fold's vibration during phonation and to detect the pathological picture of these vibrations and its significance

C4. Ability to perform the available standardized technique tests in order to draw a diagnostic profile for the various perceptual, affective, social, cognitive aptitudes as well as the performance abilities of the patients.

- C5.** Perform measurements and investigations using the available instrumental diagnostic procedures in order to support the preliminary diagnosis objectively .
- C6.** Practice laryngeal microsurgery and phonosurgery for treatment of structural voice disorders, and other vocal fold lesions.
- C7.** Perform and master rehabilitation methods for speakers' and singers' voice.
- C8.** Practices treatment methods for nasality.
- C9.** Practices treatment of the laryngectomized patients
- C10.** Ability to treat diseases of the ear either by prescribing medical treatment or by performing different surgical procedures..
- C11.** Ability to treat diseases of the nose and paranasal sinuses either by prescribing medical treatment or by performing different surgical procedures.
- C12.** Ability to treat diseases of the larynx either by prescribing medical treatment or by performing different surgical procedures.
- C13.** Practice treatment and rehabilitation methods in pharyngeal diseases including dysphagias.
- C14.** Perform surgical procedures for treatment of salivary gland diseases
- C15.** Perform reduction and fixation of maxillofacial fractures
- C16.** Identify and rehabilitate children with hearing impairment as well as rehabilitate cochlea implanted children.

4. Communication & Transferable skills

- D1.** Demonstrates consistent behavior of incorporating evidence- based information in common practice areas

D2. Exhibits professional behavior (e.g., reliability, industry, integrity, and confidentiality)

D3. Maintains respect for patient confidentiality

D4. Recognizes ethical issues in practice and is able to discuss, analyze, and manage common ethical situations

D5. Displays sensitivity and responsiveness toward all patient populations

D6. Analyzes and manages ethical issues in complicated and challenging situations

D7. Effectively communicates during transitions of care

Program coordinator: Name: Prof. Dr. Ahmed El-Degwi	Signature & date:
Dean: Name: Prof. Dr. Elsaeed Abdelhady	Signature & date:
Executive director of the quality assurance unit: Name: Prof. Dr. Seham Gad El-hak	Signature & date: