

# Jordan University of Science and Technology

## Faculty of Medicine

### 2018-2019

<b>COURSE TITLE :</b>	<b>OTOLARYNGOLOGY.</b>
<b>COURSE CODE:</b>	<b>MED 550.</b>
<b>CREDIT HOURS</b> :	<b>2.25 CREDIT HOURS</b>
<b>SEQUENCE</b> :	<b>YEAR 5, 2 WEEKS</b>
<b>COURSE COORDINATOR:</b>	<b>DR. AHMAD AL OMARI</b>
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## Course Description:

This is a student's ENT Undergraduate Curriculum, it is an introductory two weeks clinical rotation offered to fifth year medical students, which describes the skills and objectives that should be achieved as a ENT student.

This curriculum aims to provide the students a comprehensive overview of the specialty of Otolaryngology. They will gain a better understanding of Otolaryngology as a surgical specialty and learn about patient care they will encounter in general practice, especially as a primary care physician as many outpatient visits include ENT concerns.

The learning priorities for this clinical rotation are to gain insight and understanding of the most common presentations and conditions of the otolaryngology cases to make the student more competent to recognize these common ENT conditions through an excellent clinical exposure by joining the highly qualified Otolaryngologist in their clinic, as well as the ENT senior resident. It is anticipated that all students will have opportunities to enhance their skills in history taking and clinical examination. This will emphasize their recognition of symptoms and signs and formulation of an accurate differential diagnosis which is important to focus on the primary

care management of common ENT conditions and to understand when a patient should be referred to secondary care.

The students also required to present seminars that cover most of the ENT clinical conditions, these seminars are supervised by the consultants and the students should be actively involved in these clinical discussions, as part of their evaluation is based on these seminars presentation and discussion. The students are anticipated to participate actively in the Morning report, bedside teaching.

The end rotation exam is every two weeks for each group or every 4 weeks for two groups together.

## Course Learning Outcomes

1. Gain more clinical knowledge, and better understanding of common ENT conditions
2. Acquire further learning experience history taking in ENT and performing proper, specific ENT examination skills such as otoscopy and nasal examination.
3. Correctly know the investigation of patients with Otolaryngology disorders based on a focus ENT exam
4. Proper assessment of medical symptoms and signs and apply clinical reasoning to formulate a clear differential diagnosis and management plan.
5. Understanding the pharmacological, medical and surgical management of ENT patients.
6. Identification the serious ENT disease requiring urgent intervention

## Recommended Textbooks:

Subject	Book (Resources)
1- <b>Oxford Handbook of ENT and Head and Neck Surgery</b>	Handbook of Otolaryngology. By Rogan Corbridge and Nicholas Steventon.
2- <b>Key topic in Otolaryngology</b>	A concise comprehensive overview of Otolaryngology for medical students. Print ISBN: 9783132404779 E-Book ISBN: 9783132406872

## Learning Objectives

### (A) Seminars objectives

	Seminar	Objectives
1	Orientation and Introduction: history & physical examination	<ol style="list-style-type: none"> <li>1. Learn basic clinical skills, including the ability to obtain history from patient with ENT problem, perform complete ENT physical examination, interpretation of the clinical findings to reach the differential diagnosis and to formulate the plan of management.</li> <li>2. To know the relationship between Ear, Nose and Throat.</li> <li>3. To know the principles of audiology and hearing assessments.</li> <li>4. To be familiar with patients most commonly seen in otolaryngology clinic.</li> </ol>

2	Hearing loss & Vertigo	<ol style="list-style-type: none"> <li>1. Define the hearing loss and vertigo.</li> <li>2. To differentiate between the conductive and sensory neural hearing loss.</li> <li>3. To know the differences between vertigo and other causes of dizziness.</li> <li>4. To know the common causes of hearing loss and vertigo and how to diagnose them.</li> <li>5. Outline the principles of audiological and radiological assessment for hearing loss and vertigo</li> <li>6. Outline the treatment ways.</li> </ol>
3	Chronic rhinosinusitis & Acute rhinosinusitis	<ol style="list-style-type: none"> <li>1. To know the definition of rhinosinusitis and classifications.</li> <li>2. To know the causes and predisposing factors for rhinosinusitis</li> <li>3. How they can diagnose rhinosinusitis.</li> <li>4. When they need to investigate in patient with rhinosinusitis.</li> <li>5. Outline the ways of management of acute and chronic rhinosinusitis.</li> <li>6. Numerate the complications and their management.</li> </ol>
4	Acute and chronic otitis media & complications	<ol style="list-style-type: none"> <li>1. To define the otitis media and its different classifications.</li> <li>2. To know the causes of otitis media and predisposing factors.</li> <li>3. To know the reason for classification of otitis media and how to manage each subclass.</li> <li>4. Investigations of otitis media and its complications, audiological and radiological.</li> <li>5. To know the cholesteatoma and its management.</li> <li>6. Outline the complications and their management.</li> </ol>
5	Foreign bodies in ENT	<ol style="list-style-type: none"> <li>1. To know the importance of management of foreign bodies in ENT</li> <li>2. To know what are the common foreign bodies seen in different orifices.</li> <li>3. To be familiar with the emergencies in ENT.</li> <li>4. To know the principles of management of foreign bodies in ENT.</li> <li>5. Outline the possible complications and how to prevent and management.</li> </ol>

6	Adenoids. acute and chronic tonsillitis, chronic sore throat	<ol style="list-style-type: none"> <li>1. To know about the anatomy of lymphoid tissue of the Waldeyer's ring.</li> <li>2. Outline the common adenotonsillar disorders.</li> <li>3. To know the indications and contraindications for adenotonsillectomy.</li> <li>4. Highlight on the obstructive sleep apnea and its cause.</li> <li>5. Treatment plan for different adenotonsillar and sleep disorders.</li> </ol>
7	Neck masses, pharyngeal tumors.	<ol style="list-style-type: none"> <li>1. To be familiar with anatomy of the neck and highlight on important land marks.</li> <li>2. Classify the neck masses.</li> <li>3. Clinical assessment of neck masses.</li> <li>4. Investigate patient with neck mass.</li> <li>5. Plan management of patients with neck mass.</li> <li>6. To know the common pharyngeal tumors and their presentation.</li> <li>7. Investigation and management plans for pharyngeal tumors.</li> </ol>
8	Epistaxis and facial trauma stridor and tracheostomy	<ol style="list-style-type: none"> <li>1. To know how to deal with emergency situations in ENT.</li> <li>2. To be familiar with the blood supply of the nose.</li> <li>3. Outline the cause of epistaxis and stridor.</li> <li>4. To know the indication of tracheostomy.</li> <li>5. To know how to perform emergent tracheotomy.</li> </ol>
9	Hoarseness of voice, laryngeal tumors Acute & chronic otitis externa	<ol style="list-style-type: none"> <li>1. To know the voice box (larynx) and its disorders.</li> <li>2. Outline the causes of hoarseness.</li> <li>3. To know the common laryngeal tumors and their presentation.</li> <li>4. Investigation and management plans for laryngeal tumors.</li> <li>5. To know the otitis externa, its causes and management.</li> </ol>

## (B) Clinical Rotation Objectives:

	Competency	Required Skill(s)
1-	Patient Care:	<ol style="list-style-type: none"> <li>1. Perform a comprehensive history and physical examination of the pediatric and adult patient.</li> <li>2. Develop a rational plan of care for patients.</li> <li>3. Maintain adequate, compassionate communication between the patient and medical staff.</li> </ol>
2	<p>Medical Knowledge: Develop adequate knowledge by observing of the common disorders of the ENT patient as managed by board certified sub specialist in otolaryngology.</p>	<p>1- Develop an understanding of normal anatomy and physiology as it relates to the diagnosis and management of ENT patients. 2- Develop an understanding of the following ENT diseases and disorders including but not limited to:</p> <ol style="list-style-type: none"> <li>1. Otitis media a. Indications for use of ventilation tubes</li> <li>2. Otitis externa</li> <li>3. Cerumen impaction (ceruminosis)</li> <li>4. Tinnitus</li> <li>5. Hearing loss</li> <li>6. Vertigo</li> <li>7. Facial Palsy</li> <li>8. Rhinitis</li> <li>9. Sinusitis</li> <li>10. Epistaxis: (Cautery, Nasal Packing)</li> <li>11. Pharyngitis</li> <li>12. Paratonsillar abscess</li> <li>13. Indications for tonsillectomy/Adenoidectomy.</li> <li>14. Hoarseness.</li> <li>15. TMJ dysfunction</li> <li>16. Dysphagia</li> <li>17. Salivary gland enlargement</li> <li>18. Croup</li> </ol>

3-	Communication skills	19. Epiglottitis 20. Masses/neoplasia of Head and Neck 21. Indications for tracheostomy 22. Obstructive Sleep apnea 23. TM perforation Communicate effectively with patients and their families while in the presence of their daily preceptor.
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## Course Assessment

Assessment		
Assessment Type	Expected Due Date	Weight
In-course evaluation		15
Final clinical exam		40
Final written exam		45
<b>Total</b>		<b>100</b>

## Intended Learning Outcomes (ILOs)

In addition to gaining specific skills in otorhinolaryngology during this rotation, at the completion of this rotation, the student should have reached certain goals, including:

- 1) Demonstrate a sufficient understanding of the structural organization and functions of the following systems of the human body: Ear, Nose and Throat with relevant Head and Neck Structure.
- 2) Conceptualize the cellular, molecular, genetic, and biochemical mechanisms that maintain body's homeostasis and their derangements in disease states.
- 3) Apply their knowledge of human anatomy and function to solve questions regarding major ENT related clinical cases and diseases.
- 4) Attain appropriate ENT and related systematic clinical history of different medical conditions and settings.

- 5) Demonstrate proficiency in performing clinical skills and performing proper, specific ENT examination skills such as otoscopy and nasal examination as well as complete Head and Neck exam.
- 6) Perform relevant physical examination on patients professionally and ethically.
- 7) Identify the major signs and symptoms of disease states, recognizing risk factors and etiologies, in an interdisciplinary approach to differentially diagnose patients.
- 8) Order and interpret results of relevant basic diagnostic procedures, such as laboratory investigations and conventional imaging procedures.
- 9) Apply safe and accurate methods of pharmacotherapy of major disease states.
- 10) Critically appraise research studies guided by evidence-based medicine.
- 11) Demonstrate ability to work in diverse settings and communities.