

COURSE INFORMATION					
Course Title	Code	Semester	COURSE INFORMATION Lecture+Practice+Labrotory Hour (independent learning)	Credits	ECTS
OTORHINOLARYNGOLOGY & HEAD AND NECK SURGERY (Clinical Clerkship)	MED 504	Phase 5/9-10	26+44	4	4*

\* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

<b>Prerequisites</b>	The student that joins this course, should completed Phase 1, 2, 3 and 4 courses of medical faculty.
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<b>Language of Instruction</b>	English
<b>Course Level</b>	Second Cycle including First Cycle Degree (One Tier Programme)
<b>Course Type</b>	Compulsory
<b>Course Coordinator</b>	Zeynep Alkan, MD Prof
<b>Instructors</b>	İlhan Topaloğlu, MD Prof. Müzeyyen Doğan, MD Prof. Zeynep Alkan, MD Prof Nihal Seden Boyoğlu, MD Assoc. Prof Meltem Bozacı Kılıçoğlu, MD specialist Ömer Faruk Birkent (Audiologist), MSc
<b>Assistants</b>	Meryem Babaoğlu Arda Yavuz Banu Erkal
<b>Goals</b>	To convey necessary knowledge on historical development of otorhinolaryngology, current and future applications of diagnostic and treatment methods, to convey necessary knowledge on clinical conditions related to otorhinolaryngology ( <i>head and neck oncology, rhinology, laryngology, otology, facial plastic and reconstructive surgery, voice and speech disorders, neuro-otology, audiology and hearing sciences, vestibular system, congenital and genetic diseases, head and neck cancers, allergic and immunologic diseases</i> ), To equip students with knowledge, skills and attitudes required to manage clinical conditions related to otorhinolaryngology at primary care setting

Learning Outcomes <i>At the end of this clerkship, the student should be able to:</i>	Programme Learning Outcomes	Teaching Methods	Assessment Methods
1. Describe external, middle and inner ear diseases	1.1.1. 1.1.4. 1.1.6. 1.1.7. 2.1.1 3.2.3	1,2,3,4	A, B
2. Explain tinnitus, hearing loss and balance problems	1.1.4. 1.1.6. 1.1.7.	1,2,3,4	A, B

	<b>2.1.1</b>		
3. Explain anatomy and physiology of larynx and ear	<b>1.1.1.</b> <b>3.1.3</b>	1,2,3	A, B
4. Distinguish between benign and malignant tumors at basic level in oropharyngeal diseases.	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>3.1.3</b> <b>2.5.1.</b> <b>2.5.2.</b> <b>2.5.3.</b>	1,2,3,4	A, B
5. Distinguish between benign and malignant tumors at basic level in nasopharyngeal diseases	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>3.1.3</b> <b>3.1.4.</b> <b>3.2.3</b>	1,2,3,4	A, B
6. Describe diagnosis and medical treatment of rhinitis and paranasal sinus diseases	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>1.1.8.</b> <b>3.1.3</b> <b>3.1.4.</b> <b>3.2.3</b>	1,2,3,4	A, B
7. Explain interventions to otorhinolaryngological emergencies	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>2.4.2</b> <b>2.4.3.</b> <b>3.1.3</b> <b>3.1.4.</b>	1,2,3,4	A, B
8. Describe diseases related to adenoid and tonsillar tissue	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>3.2.3</b>	1,2,3,4	A, B
9. Describe diagnosis and treatment of salivary gland diseases	<b>1.1.1.</b> <b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b> <b>1.1.8.</b> <b>3.2.3</b>	1,2,3,4	A, B
10. Explain assessment of laryngeal diseases at basic level	<b>1.1.1.</b> <b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b>	1,2,3,4	A, B
11. Distinguish between benign and malignant laryngeal diseases	<b>1.1.4.</b> <b>1.1.6.</b> <b>1.1.7.</b>	1,2,3,4	A, B

12. Explain basics of deep neck infections	1.1.4. 1.1.6. 1.1.7. 2.5.1. 2.5.2. 2.5.3. 3.1.3 3.1.4. 3.2.3	1,2,3	A, B
13. Explain basics of maxillofacial traumas	1.1.4. 1.1.6. 1.1.7. 2.5.1. 2.5.2. 2.5.3.	1,2,3,4	A, B
14. Outline basics of facial paralysis	1.1.1. 1.1.4. 1.1.6. 1.1.7. 1.1.8.	1,2,3,4	A, B
15. Describe interpretation of audiological and early screening tests at basic level	1.1.6. 2.2.1. 2.2.2. 2.2.3. 2.4.2 2.4.3.	1,2,3,4	A, B
16. Outline diseases related to neck mass	1.1.1. 1.1.4. 1.1.6. 1.1.7. 1.1.8.	1,2,3,4	A, B
17. Describe basics and medical treatment of laryngopharyngeal reflux	1.1.4. 1.1.6. 1.1.7. 2.5.1. 2.5.2. 2.5.3.	1,2,3,4	A, B
18. Describe sleep apnea and snoring problem and surgical treatment of those diseases	1.1.4. 1.1.6. 1.1.7. 2.5.1. 2.5.2. 2.5.3. 3.2.3	1,2,3,4	A, B
19. Describe lymph nodes pathologies	1.1.1. 1.1.4. 1.1.6. 1.1.7. 3.2.3	1,2,3,4	A, B

20. Tell surgical techniques of incision in tracheostomy, tracheotomy, coniotomy	1.1.4. 1.1.6. 1.1.7. 2.4.2 2.4.3.	1,2,3	A, B
21. Describe voice and speech disorders and treatments of those diseases	1.1.1. 1.1.4. 1.1.6. 1.1.7. 3.1.3 3.1.4.	1,2,3,4	A, B
22. Tell basics of head-neck tumors	1.1.4. 1.1.6. 1.1.7. 2.5.1. 2.5.2. 2.5.3. 3.1.3 3.1.4. 3.2.3	1,2,3,4	A, B

<b>Teaching Methods:</b>	1: Lecture, 2: Question-Answer, 3: Discussion, 4: Case Study
<b>Assessment Methods:</b>	A: Testing B: Practical examination

COURSE CONTENT		
WEEK	SUBJECT	Study Materials
1	<b>Introductory Session</b>	Materials for the course provided by instructor
1	<b>Lecture</b> Anatomy and Physiology of the Ear	Materials for the course provided by instructor
1	<b>Lecture</b> Acute Otitis Media	Materials for the course provided by instructor
1	<b>Lecture</b> Chronic Otitis Media	Materials for the course provided by instructor
1	<b>Lecture</b> Hearing Loss	Materials for the course provided by instructor
1	<b>Lecture</b> Vertigo	Materials for the course provided by instructor

1	<b>Lecture</b> Tinnitus	Materials for the course provided by instructor
1	<b>Lecture</b> Diseases of the Oral Cavity	Materials for the course provided by instructor
1	<b>Lecture</b> Diseases of the Oropharynx	Materials for the course provided by instructor
2	<b>Lecture</b> Rhinitis and Sinusitis	Materials for the course provided by instructor
2	<b>Lecture</b> Salivary Gland Diseases	Materials for the course provided by instructor
2	<b>Lecture</b> Sleep Apnea, Snoring and their Treatments	Materials for the course provided by instructor
2	<b>Lecture</b> Anatomy and Physiology of the Larynx	Materials for the course provided by instructor
2	<b>Lecture</b> Malignant Tumors of the Larynx	Materials for the course provided by instructor
2	<b>Lecture</b> Essential audiology and Newborn hearing screen	Materials for the course provided by instructor
2	<b>Lecture</b> Lymph Nodes Pathologies and Neck Masses	Materials for the course provided by instructor
3	<b>Lecture</b> Ent Emergencies	Materials for the course provided by instructor
3	<b>Lecture</b> Maxillofacial Trauma	Materials for the course provided by instructor
3	<b>Lecture</b> Deep Neck Infections	Materials for the course provided by instructor
3	<b>Lecture</b> Congenital Laryngeal and Voice Disorders	Materials for the course provided by instructor
3	<b>Assessment Session</b>	Materials for the course provided by the instructor
3	<b>Program Evaluation Session</b> Review of the Exam Questions, Evaluation of the Program	Materials for the course provided by the instructor

<b>RECOMMENDED SOURCES</b>	
<b>Textbook</b>	<ul style="list-style-type: none"> <li>• Bailey's Head and Neck Surgery - Otolaryngology by Jonas T. Johnson</li> <li>• Cummings Otolaryngology, ed.7 by Paul W. Flint; Bruce H. Haughey; Valerie J. Lund; K. Thomas Robbins; J. Regan Thomas; Marci M. Lesperance; Howard W. Francis</li> <li>• Ear, Nose and Throat and Head and Neck Surgery by Ram S. Dhillon; Charles A. East</li> <li>• Rhinology by David W. Kennedy</li> <li>• ENT Secrets by Melissa A. Scholes; Vijay R. Ramakrishnan</li> <li>• Hearing Loss by Jos J. Eggermont</li> <li>• Otolaryngology Board Review: Pearls of Wisdom Third Edition - 3rd Edition (eBook) by Mary Talley Bowden, PRINT ISBN: 9780071769686 E-TEXT ISBN: 9780071770033</li> </ul>

<b>Additional Resources</b>	<ul style="list-style-type: none"> <li>• <a href="https://www.bcm.edu/departments/otolaryngology-head-and-neck-surgery/education/grand-rounds">https://www.bcm.edu/departments/otolaryngology-head-and-neck-surgery/education/grand-rounds</a></li> <li>• <a href="https://media.bcm.edu/documents/2013/ec/otolaryngology-core-curriculum.pdf">https://media.bcm.edu/documents/2013/ec/otolaryngology-core-curriculum.pdf</a></li> <li>• <a href="https://www.entnet.org/">https://www.entnet.org/</a></li> <li>• <a href="https://teachmemedicine.org/ear-nose-and-throat/">https://teachmemedicine.org/ear-nose-and-throat/</a></li> <li>• <a href="https://www.entuk.org/sites/default/files/files/Ear%20Nose%20and%20Throat%20The%20Offici%20-%20SFO%20UK%20-%20compressed.pdf">https://www.entuk.org/sites/default/files/files/Ear%20Nose%20and%20Throat%20The%20Offici%20-%20SFO%20UK%20-%20compressed.pdf</a></li> </ul>
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### ASSESSMENT

Questions Types (Pencil-Paper Tests)	Proportion (in Pencil-Paper Tests)
Multiple Choice Questions	50% 1515 515
Extended Matching Questions	25%
Key Features	10%
Short Response Essay Questions	15%
<b>Total</b>	<b>100 %</b>
Other Assessment Methods and Tools	Proportion (in Pass/Fail Decision)
Structured Practical Exam	25%
<b>Total</b>	<b>25%</b>
Pass/Fail Decision	Proportion (in Pass/Fail Decision)
Pencil-Paper Tests	75%
Other Assessments Methods and Tools	25%
<b>Total</b>	<b>100 %</b>

MATERIAL SHARING	
<b>Documents</b>	Via google classroom
<b>Assignments</b>	-
<b>Exams</b>	Not shared

<b>COURSE CATEGORY</b>	Expertise/Field Courses
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COURSES CONTRIBUTION TO PROGRAM					
COMPETENCE AREA-1 / Professional Practices	Contribution				
COMPETENCE 1.1. Health Service Provider	1	2	3	4	5
<b>Competency 1.1.1.</b> Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services.					X
<b>Competency 1.1.2.</b> Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management.					
<b>Competency 1.1.3.</b> Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services.					
<b>Competency 1.1.4.</b> Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health.					X
<b>Competency 1.1.5.</b> Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience.					
<b>Competency 1.1.6.</b> Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery.					X
<b>Competency 1.1.7.</b> Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation.				X	
<b>Competency 1.1.8.</b> Provides healthcare services considering patient and employee health and safety.				X	
<b>Competency 1.1.9.</b> Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services.					
COMPETENCE AREA-2 / Professional Values and Approaches	Contribution				
COMPETENCE 2.1. Adopting Professional Ethics and Principles	1	2	3	4	5
<b>Competency 2.1.1.</b> Considers good medical practices while performing the profession.					X
<b>Competency 2.1.2.</b> Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession.					
<b>Competency 2.1.3.</b> Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity.					
<b>Competency 2.1.4.</b> Evaluates own performance in professional practices by considering own emotions and cognitive characteristics.					
COMPETENCE 2.2. Health Advocate					
<b>Competency 2.2.1.</b> Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health.			X		
<b>Competency 2.2.2.</b> Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health.			X		

<b>Competency 2.2.3.</b> Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality.			X		
<b>Competency 2.2.4.</b> Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it.					
<b>COMPETENCE 2.3. Leader-Manager</b>					
<b>Competency 2.3.1.</b> Demonstrates exemplary behavior and leadership within the healthcare team during service delivery.					
<b>Competency 2.3.2.</b> Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution.					
<b>COMPETENCE 2.4. Team Member</b>					
<b>Competency 2.4.1.</b> Communicates effectively within the healthcare team and takes on different team roles as necessary.					
<b>Competency 2.4.2.</b> Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team.			X		
<b>Competency 2.4.3.</b> Works collaboratively and effectively with colleagues and other professional groups in professional practice.			X		
<b>COMPETENCE 2.5. Communicator</b>					
<b>Competency 2.5.1.</b> Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations.					X
<b>Competency 2.5.2.</b> Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics.				X	
<b>Competency 2.5.3.</b> Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes.					X
<b>COMPETENCE AREA-3 / Professional and Personal Development</b>	<b>Contribution</b>				
<b>COMPETENCE 3.1. Scientific and Analytical Approach</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Competency 3.1.1.</b> Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community.					
<b>Competency 3.1.2.</b> Accesses and critically evaluates current literature related to their profession.					
<b>Competency 3.1.3.</b> Applies evidence-based medicine principles in the clinical decision-making process.					X
<b>Competency 3.1.4.</b> Uses information technologies to enhance the effectiveness of healthcare, research, and education activities.				X	
<b>COMPETENCE 3.2. Lifelong Learner</b>					
<b>Competency 3.2.1.</b> Manages effectively individual study processes and career development.					
<b>Competency 3.2.2.</b> Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career.					
<b>Competency 3.2.3.</b> Selects the right learning resources to improve the quality of health care and organizes the learning process.					X



<b>ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION</b>			
Activities	Quantity or day	Duration (Hour)	Total Workload (Hour)
Course Duration (3 weeks)	15	5	75
Hours for off-the-classroom study (Pre-study, practice, review/week)	15	3	45
Homework	-	-	-
Exam	2	1	2
<b>Total Work Load</b>			122
<b>Total Work Load / 30 (h)</b>			4.06
<b>ECTS Credit of the Course</b>			4