

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>	İlhan Topaloğlu, MD Prof.
<b>Instructors</b>	İlhan Topaloğlu, MD Prof. Müzeyyen Doğan, MD Prof. Zeynep Alkan, MD Prof Mehmet İlhan Şahin, MD Assoc. Prof Ziya Bozkurt, MD specialist Ömer Faruk Birkent (Audiologist), MSc
<b>Assistants</b>	-
<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

<b>Learning Outcomes</b> <i>At the end of this clerkship, the student should be able to:</i>	<b>Programme Learning Outcomes</b>	<b>Teaching Methods</b>	<b>Assessment Methods</b>
1. Describe external, middle and inner ear diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
2. Explain tinnitus, hearing loss and balance problems	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
3. Explain anatomy and physiology of larynx and ear	PO.1.1.5	1,2,3	A, B

4. Distinguish between benign and malignant tumors at basic level in oropharyngeal diseases.	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
5. Distinguish between benign and malignant tumors at basic level in nasopharyngeal diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
6. Describe diagnosis and medical treatment of rhinitis and paranasal sinus diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
7. Explain interventions to otorhinolaryngological emergencies	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
8. Describe diseases related to adenoid and tonsillar tissue	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
9. Describe diagnosis and treatment of salivary gland diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
10. Explain assessment of laryngeal diseases at basic level	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
11. Distinguish between benign and malignant laryngeal diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
12. Explain basics of deep neck infections	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3	A, B
13. Explain basics of maxillofacial traumas	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
14. Outline basics of facial paralysis	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
15. Describe interpretation of audiological and early screening tests at basic level	P.O.1.1.6, P.O.1.4.1, PO.1.4.2	1,2,3,4	A, B
16. Outline diseases related to neck mass	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
17. Describe basics and medical treatment of laryngopharyngeal reflux	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
18. Describe sleep apnea and snoring problem and surgical treatment of those diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B

19. Describe lymph nodes pathologies	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
20. Tell surgical techniques of incision in tracheostomy, tracheotomy, coniotomy	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3	A, B
21. Describe voice and speech disorders and treatments of those diseases	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B
22. Tell basics of head-neck tumors	P.O.1.1.3, P.O.1.1.7, PO.1.1.9	1,2,3,4	A, B

**Teaching Methods:** 1: Lecture, 2: Question-Answer, 3: Discussion, 4: Case Study

**Assessment Methods:** A: Testing B: Practical examination

<b>COURSE CONTENT</b>		
<b>WEEK</b>	<b>SUBJECT</b>	<b>Study Materials</b>
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>

## ASSESSMENT

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

<b>MATERIAL SHARING</b>	
<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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<b>COURSE'S CONTRIBUTION TO PROGRAM</b>						
	<b>PODG.1. Basic Professional Competencies</b>	<b>Contribution</b>				
	<b>POD.1.1. Clinical Competencies</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>PO.1.1.1.</b>	<b>values</b> preventive health services, <b>offers</b> primary prevention (i.e. prevention of diseases for the protection of health), secondary prevention (i.e. early diagnosis and treatment) tertiary prevention (i.e. rehabilitation) and quaternary prevention (i.e. prevention of excessive and unnecessary diagnosis and treatment) services, <b>provides</b> consultancy on these issues.					X
<b>PO.1.1.2.</b>	<b>employs</b> a patient-centered approach in patient management.					X
<b>PO.1.1.3.</b>	<b>recognizes</b> most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.					X
<b>PO.1.1.4.</b>	<b>takes</b> medical history from the applicant himself/herself or from the individual's companions.					X
<b>PO.1.1.5.</b>	<b>does</b> general and focused physical and mental examination.					X

<b>PO.1.1.6.</b>	<b>interprets</b> findings in medical history, physical and mental examination.					X
<b>PO.1.1.7.</b>	<b>employs</b> diagnostic procedures that are used frequently at the primary health care level.					X
<b>PO.1.1.8.</b>	<b>selects</b> tests that have evidence-based high efficacy at the primary health care level and <b>interprets</b> results.					X
<b>PO.1.1.9.</b>	<b>makes</b> clinical decisions using evidence-based systematic data in health care service.					X
<b>PO.1.1.10.</b>	<b>performs</b> medical interventional procedures that are used frequently at the primary health care level.					X
<b>PO.1.1.11.</b>	<b>manages</b> healthy individuals and patients in the context of health care services.					X
<b>PO.1.1.12.</b>	<b>keeps</b> medical records in health care provision and <b>uses</b> information systems to that aim.					X
	<b>POD.1.2. Competencies related to Communication</b>					
<b>PO.1.2.1.</b>	throughout his/her career, <b>communicates</b> effectively with health care beneficiaries, co-workers, accompanying persons, visitors, patient's relatives, care givers, colleagues, other individuals, organizations and institutions.				X	
<b>PO.1.2.2.</b>	<b>collaborates</b> as a team member with related organizations and institutions, with other professionals and health care workers, on issues related to health.				X	
<b>PO.1.2.3.</b>	<b>recognizes</b> the protection and privacy policy for health care beneficiaries, co-workers, accompanying persons and visitors.				X	
<b>PO.1.2.4.</b>	<b>communicates</b> with all stakeholders taking into consideration the socio-cultural diversity.				X	
	<b>POD.1.3. Competencies Related to Leadership and Management</b>					
<b>PO.1.3.1.</b>	<b>manages</b> and <b>leads</b> within the health care team in primary health care organization.			X		
<b>PO.1.3.2.</b>	<b>recognizes</b> the principles of health management and health sector economy, models of organization and financing of health care services.			X		
<b>PO.1.3.3.</b>	<b>recognizes</b> the resources in the health care service, the principles for cost-effective use.			X		
	<b>POD.1.4. Competencies related to Health Advocacy</b>					
<b>PO.1.4.1.</b>	<b>recognizes</b> the health status of the individual and the community and the factors affecting the health, <b>implements</b> the necessary measures to prevent effects of these factors on the health.				X	
<b>PO.1.4.2.</b>	<b>recognizes</b> and <b>manages</b> the health determinants including conditions that prevent access to health care.				X	
	<b>POD.1.5. Competencies related to Research</b>					
<b>PO.1.5.1.</b>	<b>develops, prepares</b> and <b>presents</b> research projects			X		
	<b>POD.1.6. Competencies related to Health Education and Counseling</b>					
<b>PO.1.6.1.</b>	<b>provides</b> consultancy services and <b>organizes</b> health education for the community to sustain and promote the health of individual and community.				X	
	<b>PODG.2. Professional Values and Perspectives</b>					
	<b>POD.2.1. Competencies related to Law and Legal Regulations</b>					
<b>PO.2.1.1.</b>	<b>performs</b> medical practices in accordance with the legal framework which regulates the primary health care service.			X		

	<b>POD.2.2. Competencies Related to Ethical Aspects of Medicine</b>					
<b>PO.2.2.1.</b>	<b>recognizes</b> basic ethical principles completely, and <b>distinguishes</b> ethical and legal problems.					X
<b>PO.2.2.2.</b>	<b>pays importance to</b> the rights of patient, patient's relatives and physicians, and <b>provides</b> services in this context.					X
	<b>POD.2.3. Competencies Related to Social and Behavioral Sciences</b>					
<b>PO.2.3.1.</b>	<b>relates</b> historical, anthropological and philosophical evolution of medicine, with the current medical practice.					X
<b>PO.2.3.2.</b>	<b>recognizes</b> the individual's behavior and attitudes and factors that determine the social dynamics of the community.					X
	<b>POD.2.4. Competencies Related to Social Awareness and Participation</b>					
<b>PO.2.4.1.</b>	<b>leads</b> community with sense of responsibility, behavior and attitudes in consideration of individual behaviors and social dynamics of the community, and if there is a necessity, <b>develops</b> projects directed towards health care services.					X
	<b>POD.2.5. Competencies Related to Professional Attitudes and Behaviors</b>					
<b>PO.2.5.1.</b>	<b>displays</b> a patient-centered and holistic (biopsychosocial) approach to patients and their problems.					X
<b>PO.2.5.2.</b>	<b>respects</b> patients, colleagues and all stakeholders in health care delivery.					X
<b>PO.2.5.3.</b>	<b>displays</b> the proper behavior in case of disadvantaged groups and situations in the community.					X
<b>PO.2.5.4.</b>	<b>takes</b> responsibility for the development of patient safety and healthcare quality.					X
<b>PO.2.5.5.</b>	<b>evaluates</b> own performance as open to criticism, <b>realizes</b> the qualifications and limitations.					X
	<b>POD.3. Professional Development and Self-Worth</b>					
	<b>POD.3.1. Personal Development and Values</b>					
<b>PO.3.1.1.</b>	<b>embraces</b> the importance of lifelong self-learning and <b>implements</b> .					X
<b>PO.3.1.2.</b>	<b>embraces</b> the importance of updating knowledge and skills; <b>searches</b> current advancements and <b>improves</b> own knowledge and skills.					X
<b>PO.3.1.3.</b>	<b>uses</b> English language at least at a level adequate to follow the international literature and to establish communication related to the profession.					X
	<b>POD.3.2. Competencies Related to Career Management</b>					
<b>PO.3.2.1.</b>	<b>recognizes</b> and <b>investigates</b> postgraduate work domains and job opportunities.				X	
<b>PO.3.2.2.</b>	<b>recognizes</b> the application requirements to postgraduate work/job domains, and <b>distinguishes</b> and <b>plans</b> any requirement for further training and work experience.				X	
<b>PO.3.2.3.</b>	<b>prepares</b> a resume, and <b>recognizes</b> job interview methods.				X	
	<b>POD.3.3. Competencies Related to Protection and Development of Own Physical and Mental Health</b>					
<b>PO.3.3.1.</b>	<b>implements</b> the rules of healthy living.					X
<b>PO.3.3.2.</b>	<b>displays</b> appropriate behavior specific to work under stressful conditions.					X

<b>PO.3.3.3.</b>	<b>uses</b> self-motivation factors.					X
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<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