

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

Prerequisites	The student that joins this course, should completed Phase 1, 2, 3 and 4 courses of medical faculty.
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Language of Instruction	English
Course Level	Second Cycle including First Cycle Degree (One Tier Programme)
Course Type	Compulsory
Course Coordinator	İlhan Topaloğlu, MD Prof.
Instructors	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
Assistants	-
Goals	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	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

COURSE CONTENT		
WEEK	SUBJECT	Study Materials
1	Introductory Session	Materials for the course provided by instructor
1	Lecture Anatomy and Physiology of the Ear	Materials for the course provided by instructor
1	Lecture Acute Otitis Media	Materials for the course provided by instructor
1	Lecture Chronic Otitis Media	Materials for the course provided by instructor
1	Lecture Hearing Loss	Materials for the course provided by instructor
1	Lecture Vertigo	Materials for the course provided by instructor
1	Lecture Tinnitus	Materials for the course provided by instructor
1	Lecture Diseases of the Oral Cavity	Materials for the course provided by instructor
1	Lecture Diseases of the Oropharynx	Materials for the course provided by instructor

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

RECOMMENDED SOURCES	
Textbook	<ul style="list-style-type: none"> • Bailey's Head and Neck Surgery - Otolaryngology by Jonas T. Johnson • 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 • Ear, Nose and Throat and Head and Neck Surgery by Ram S. Dhillon; Charles A. East • Rhinology by David W. Kennedy • ENT Secrets by Melissa A. Scholes; Vijay R. Ramakrishnan • Hearing Loss by Jos J. Eggermont • Otolaryngology Board Review: Pearls of Wisdom Third Edition - 3rd Edition (eBook) by Mary Talley Bowden, PRINT ISBN: 9780071769686 E-TEXT ISBN: 9780071770033
Additional Resources	<ul style="list-style-type: none"> • https://www.bcm.edu/departments/otolaryngology-head-and-neck-surgery/education/grand-rounds • https://media.bcm.edu/documents/2013/ec/otolaryngology-core-curriculum.pdf • https://www.entnet.org/ • https://teachmemedicine.org/ear-nose-and-throat/ • https://www.entuk.org/sites/default/files/files/Ear%20Nose%20and%20Throat%20The%20Offici%20-%20SFO%20UK%20-%20compressed.pdf

ASSESSMENT

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

MATERIAL SHARING	
Documents	Via google classroom
Assignments	-
Exams	Not shared

COURSE CATEGORY	Expertise/Field Courses
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COURSE'S CONTRIBUTION TO PROGRAM						
	PODG.1. Basic Professional Competencies	Contribution				
	POD.1.1. Clinical Competencies	1	2	3	4	5
PO.1.1.1.	values preventive health services, offers 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, provides consultancy on these issues.					X
PO.1.1.2.	employs a patient-centered approach in patient management.					X
PO.1.1.3.	recognizes most frequently occurring or significant clinical complaints, symptoms, signs, findings and their emergence mechanisms in clinical conditions.					X
PO.1.1.4.	takes medical history from the applicant himself/herself or from the individual's companions.					X
PO.1.1.5.	does general and focused physical and mental examination.					X

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

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

PO.3.3.3.	uses self-motivation factors.						X
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ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION			
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
Total Work Load			122
Total Work Load / 30 (h)			4.06
ECTS Credit of the Course			4