



DISCIPLINE SHEET

1. Study programme

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY
1.3.	DEPARTMENT II
1.4.	DISCIPLINE OTORHINOLARYNGOLOGY
1.5.	STUDY DOMAIN: Health, sectoral regulated within the European Union
1.6.	STUDY LEVEL: I (Bachelor's degree) and II (Master's degree)
1.7.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline

2.1.	Discipline name according to the study curriculum: OTORHINOLARYNGOLOGY				
2.2.	Discipline code: MD04S03EN				
2.3.	Discipline type (FD/SD/CD): SD				
2.4.	Discipline optionality (COD/ED/FAD): COD				
2.5.	Lectures tenure: Prof. Dr. Codrut Sarafoleanu, MD, PhD, Associate Professor Gabriela Musat, Lecturer Dr. Daniel Lupoi				
2.6.	Practical classes / seminar tenure: Associate Professor Gabriela Musat, Lecturer Dr. Daniel Lupoi, Asist. Dr. Mihai Preda, Asist. Dr. Lucia Radu, Asist. Dr. Ionut Tanase, Asist. Dr. Alina Anghel				
2.7. Year of study	IV	2.8. Semester	VII	2.9. Evaluation (E/C/V)	E

3. Estimated total time (hours/ semester of teaching and training activity /individual study)

I. University training						
3.1. Number of hours per week	4	from which:	3.2. lecture	2	3.3. practical class/ seminar	2
3.4. Total hours in the study curriculum	56	from which:	3.5. lecture	28	3.6. practical class/ seminar	28
II. Preparation/ individual study						
Time distribution						hours
Study of lecture materials, textbooks, books, study of the minimum recommended bibliography						48
Additional documentation activity in the library, on online platforms						18
Specific preparation activities for projects, practical classes, preparation of assignments, reports						10
Preparation for presentations or evaluations, preparation for the final examination						8
Tutoring activity						5
Other activities						5
3.7. Total hours of individual study						94
3.8. Total hours per semester (3.4.+3.7.)						150

3.9. Number of credits	5
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4. Prerequisites (where appropriate)

4.1. curriculum	The student must be familiar with notions of general anatomy, pathophysiology, and diagnosis of the most common diseases
4.2. proficiencies	The student should have practical knowledge about performing the anamnesis, clinical examination of the patients, diagnostic methods and therapeutic principles

5. Conditions (where appropriate)

5.1. for lecture activity	Amphitheatre, minimum 70 seats, computer, videoprojector
5.2. for practical class/ seminar activity	ENT consult room with ENT examination unit, specific material and instruments

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
The student/graduate identifies, describes, explains and analyzes the general principles of surgical interventions, anesthesia and intensive care, as well as perioperative care techniques, correlated with various types of surgical pathologies and approached multidisciplinary in anesthesia and intensive care (AIT), general surgery, ophthalmology, otorhinolaryngology (ENT), with particularities for dentistry/dental medicine.	The student/graduate correctly uses and integrates clinical and paraclinical assessment methods and techniques; improves their practical skills, under appropriate supervision, through the assessment and management of perioperative care and treatments.	The student/graduate collaborates and supports the activities of the medical team, actively participating, under appropriate supervision, in surgical, anesthesia and intensive care interventions, as well as in perioperative care.

7. Discipline objectives (correlated with learning outcomes)

7.1. General objective	<ul style="list-style-type: none"> - Familiarizing the student with the basic notions of the diagnosis and treatment of the main ENT diseases. - Establishing interdisciplinary collaboration protocols: ENT - general dentistry and ENT – OMF surgery.
7.2. Specific objectives	- Presentation of the main medical and surgical emergencies of the upper aero-digestive tract and of the therapeutic measures of first intention.

8. Contents

8.1. Lecture	Teaching methods	Observations
Course 1 Intranasal foreign bodies of dental origin – classification, diagnosis, treatment.		

Course 2 Rhinosinusitis – etiology, classification, diagnosis, treatment. Complications of rhinosinusitis.	Interactive presentation of the material, according to the analytical program, using multimedia means, Power Point presentation, didactic films.	
Course 3 Acute and chronic rhinitis – etiology, classification, diagnosis, treatment.		
Course 4 Nasal and rhinosinusal tumors –classification, diagnosis, treatment.		
Course 5 Clinical and paraclinical assessment of the pharynx. Glossitis, stomatitis. Pharyngeal trauma. Pharyngeal foreign bodies.		
Course 6 Acute infecto-inflammatory pathology of the pharynx – etiology, classification, diagnosis, treatment.		
Course 7 Chronic infecto-inflammatory pathology of the pharynx. Sleeping disorders – etiology, classification, diagnosis, treatment. Pharyngeal tumors – classification, diagnosis, treatment. – etiology, classification, diagnosis, treatment.		
Course 8 Laryngo-tracheal trauma. Laryngo-tracheo-bronchic foreign bodies – diagnosis, treatment. Laryngo-tracheal stenosis – etiology, diagnosis, treatment.		
Course 9 Acute and chronic laryngitis. Laryngeal tumors. Acute respiratory failure – etiology, diagnosis, treatment (types of tracheostomies).		
Course 10 Acute and chronic inflammatory pathology of the external and middle ear – etiology, classification, diagnosis, treatment.		
Course 11 Hearing losses (types) – etiology, classification, diagnosis, prosthetic rehabilitation of the hearing-impaired patient. Otosclerosis. Ear tumors – classification, diagnosis, treatment.		
Course 12 Vertigo - elements of diagnosis and treatment. Traumatic pathology of the ear and temporal bone.		
Course 13 Cranio-facial pain.		
Course 14 ENT manifestations of systemic diseases.		
Recent bibliography: 1. Tratat de chirurgie, Editia a 3-a – Vol.1: Otorinolaringologie si chirurgie cervico-faciala, Coordonator Codrut Sarafoleanu, Editura Academiei Romane, 2023 2. Tulburarile respiratorii in somn, sub redactia Codrut Sarafoleanu, Ed. Academiei Romane, 2016		

3. Tulburările senzitivo-motorii în otorinolaringologie – coordonator Codrut Sarafoleanu. Ed. Academiei Romane, **2020**
4. Tulburările de deglutiție – de la etiologie la recuperare funcțională - coordonator Codrut Sarafoleanu. Ed. Academiei Romane, **2017**
5. European Manual of Medicine - Otorhinolaryngology, Head and Neck Surgery M. Anniko, M. Bernal-Sprekelsen, V. Bonkowsky, P. Bradley, S. Iurato, **2010**
6. Basic otorhinolaryngology: a step-by-step learning guide, Probst,R., G. Grevers, H. Iro, Georg Thieme Verlag, **2017**
7. Ballenger's Otorhinolaryngology Head and Neck Surgery, Snow Wackym, James B.Snow, Mcgraw-Hill Professional, **2016**
8. Scott-Brown's Otorhinolaryngology: Head and Neck Surgery, Michael J. Gleeson, Hodder Education, **2018**
9. Essential Otolaryngology, K. J. Lee, McGraw - Hill ISBN, **2015**
10. Cummings - Otolaryngology Head and Neck Surgery. Seventh Edition. Paul W. Flint, MD, Bruce H. Haughey, MD, FACS, Valerie J. Lund, CBE, MS, FRCS, FRCSEd, K. Thomas Robbins, MD, FACS, J. Regan Thomas, MD, FACS, Marci M. Lesperance, MD and Howard W. Francis – Elsevier Publishing House, **2021**
11. ENT-Head and Neck Surgery: Essential Procedures. Theissing J., Rettinger G., Werner J. Ed. Thieme Verlag, **2011**

8.2. Practical classes/ seminar	Teaching methods	Observations
Practice work (PW) 1 – Rhinology - Elements of nasal anatomy, physiology and physiopathology. - Clinical and paraclinical examination (radiological, imaging, endoscopic, functional etc) of the nasal pyramid and nasal fossae.	Theoretical Power Point presentations. Practical demonstrations (photos, CT scans, MRI, movies with diagnostic endoscopies and surgical procedures, audiologic and vestibular assessment etc.) Clinical practice – hands on diagnostic maneuvers.	
PW2 – Rhinology - Epistaxis – etiology, diagnosis, treatment. - Elements of anatomy, physiology and physiopathology of the paranasal sinuses. - Clinical and paraclinical examination examination (radiological, imaging, endoscopic, functional etc) of the paranasal sinuses. - Sinusal punction/sinusoscopy – indications, accidents during manoeuvre.		
PW3 – Pharyngology - Elements of pharyngeal anatomy, physiology and physiopathology. - Clinical and paraclinical examination examination (radiological, imaging, endoscopic, functional etc) of the pharynx, oral cavity and salivary glands.		
PW4 – Laringology - Elements of laryngeal anatomy, physiology and physiopathology. - Clinical and paraclinical examination examination (radiological, imaging, endoscopic, functional etc) of the larynx .		

<ul style="list-style-type: none"> - Acute obstructive respiratory failure – diagnosis, treatment. - Tracheostomy – indications, classification, technique. 		
PW5 – Otology <ul style="list-style-type: none"> - Elements of anatomy, physiology and physiopathology of the ear. - Clinical and paraclinical examination of the ear: otoscopy, otomicroscopy, sound acuity, instrumental hearing acuity, tonal/vocal audiogram, impedance measurement. - Auricular foreign bodies – classification, symptomatology, removal methods. 		
PW6 – Otology <ul style="list-style-type: none"> - Transmission/neurosensory hearing loss – etiology, diagnosis, treatment, recovery, rehabilitation. - Eustachian tube dysfunction – etiology, diagnosis, treatment. - Vertigo - etiology, diagnosis, treatment. 		
PW7 – Cervical masses <ul style="list-style-type: none"> - Elements of anatomy, physiopathology, etiology, classification, diagnosis, treatment. 		
Recent bibliography: <ol style="list-style-type: none"> 12. Tratat de chirurgie, Editia a 3-a – Vol.1: Otorinolaringologie si chirurgie cervico-faciala, Coordonator Codrut Sarafoleanu, Editura Academiei Romane, 2023 13. Tulburarile respiratorii in somn, sub redactia Codrut Sarafoleanu, Ed. Academiei Romane, 2016 14. Tulburarile senzitivo-motorii în otorinolaringologie – coordonator Codrut Sarafoleanu. Ed. Academiei Romane, 2020 15. Tulburările de deglutiție – de la etiologie la recuperare funcțională - coordonator Codrut Sarafoleanu. Ed. Academiei Romane, 2017 16. European Manual of Medicine - Otorhinolaryngology, Head and Neck Surgery M. Anniko, M. Bernal-Sprekelsen, V. Bonkowsky, P. Bradley, S. Iurato, 2010 17. Basic otorhinolaryngology: a step-by-step learning guide, Probst,R., G. Grevers, H. Iro, Georg Thieme Verlag, 2017 18. Ballenger's Otorhinolaryngology Head and Neck Surgery, Snow Wackym, James B.Snow, Mcgraw-Hill Professional, 2016 19. Scott-Brown's Otorhinolaryngology: Head and Neck Surgery, Michael J. Gleeson, Hodder Education, 2018 20. Essential Otolaryngology, K. J. Lee, McGraw - Hill ISBN, 2015 21. Cummings - Otolaryngology Head and Neck Surgery. Seventh Edition. Paul W. Flint, MD, Bruce H. Haughey, MD, FACS, Valerie J. Lund, CBE, MS, FRCS, FRCSEd, K. Thomas Robbins, MD, FACS, J. Regan Thomas, MD, FACS, Marci M. Lesperance, MD and Howard W. Francis – Elsevier Publishing House, 2021 22. ENT-Head and Neck Surgery: Essential Procedures. Theissing J., Rettinger G., Werner J. Ed. Thieme Verlag, 2011 		

9. Assessment

Activity type	9.1. Evaluation criteria	9.2. Evaluation methods	9.3. Percentage of final grade
9.4. Lecture	<ul style="list-style-type: none"> - Knowledge of otorhinolaryngological anatomy, physiology and physiopathology. - Abilities to correlate the elements of clinical and paraclinical examination in order to establish a correct etiopathological diagnosis - Establishing the therapeutic principles in most frequently encountered ENT diseases in clinical practice (inflammations, infections, traumas, tumors, emergencies etc). 	Final exam - written (multiple choice questions)	66.66%
9.5. Practical classes/ seminar	<p>The student is evaluated in terms of:</p> <ul style="list-style-type: none"> - theoretical knowledge (questions with oral answer, from the subject discussed during the practice works). - interpretation of basic paraclinical investigations - practical skills learned during the examination of the patients. 	Practic assessment: – oral exam	33.33%
9.5.1. Individual project (if any)			
Minimum performance standard			
- Knowledge of the elements of ENT physiology and pathophysiology that will make the student able to sustain a clinical and paraclinical diagnosis in case of ENT emergencies.			