

**DESCRIPTION OF COURSE UNIT FOR DOCTORAL STUDIES  
AT VILNIUS UNIVERSITY**

<b>Scientific Area/eas, Field/ds of Science</b>	Medical and Health Sciences (M 000): Medicine (M 001); Odontology (M 002)			
<b>Faculty, Institute, Department/Clinic</b>	Faculty of medicine Institute for Biomedical Sciences Clinic of Ear, Nose, Throat and Eye Diseases			
<b>Course unit title</b> (ECTS credits, hours)	<b>Clinical Otorhinolaryngology</b> 10 credits (270 hours)			
<b>Study method</b>	<b>Lectures</b>	<b>Seminars</b>	<b>Consultations</b>	<b>Self-study</b>
Number of ECTS credits	-	2	2	6
<b>Method of the assessment</b> (in 10 point system)	<p>Presentation and evaluation of the report: the report is presented on a target topic, which is coordinated with the coordinating lecturers (the doctoral student must analyze, review and present the latest scientific publications related to the respective topic).</p> <p>Criteria for evaluating the report (minimum passable score - 5):</p> <p>(a) relevance, novelty and correspondence to the chosen topic (2 points);</p> <p>(b) general structure and scope of the report, clear presentation of the knowledge, argumentation, brevity and specificity (2 points);</p> <p>(c) summary, presentation of conclusions and argumentation (1 point);</p> <p>d) raising problematic issues, presenting the application of the reviewed knowledge in the dissertation (3 points);</p> <p>e) Organization of visual aids, ability to participate in a discussion, management of questions, oratory skills (2 points).</p>			
<b>PURPOSE OF THE COURSE UNIT</b>				
<p>To provide theoretical and practical knowledge in the field of clinical otorhinolaryngology. To acquaint with the features and possibilities of diagnostics, early diagnostic tools in diagnosing pathologies of the ears, nose, throat and larynx, the principles of treatment. To promote an interdisciplinary, holistic approach to otorhinolaryngological problems of the clinical profile, modern and new research methods to address interdisciplinary problems of relevant doctoral topics in different disciplines and fields.</p>				
<b>THE MAIN TOPICS OF COURSE UNIT</b>				
<p><u>Clinical otology</u></p> <p>Diagnosis and treatment options for chronic otitis media. Diagnosis and treatment of chronic tubotympanic otitis. Biomechanical aspects in the middle ear. Diagnosis of cholesteatoma. Use of MRI for early diagnosis and recurrence of cholesteatoma. The main complications of middle ear pathologies are: open meninges, brain prolapse, labyrinthine fistula, open facial nerve, sinus thrombosis, otogenic sepsis, meningitis, brain abscess, epidural abscess, last hearing ear. Peculiarities of cholesteatoma diagnosis and treatment in children and adults. Biomechanics of reconstructed auditory ossicles chain: clinical biological and mechanical parameters. Requirements for middle ear reconstructive materials. Treatment options for acute otitis media. Diagnosis and treatment options for chronic serous otitis. Microtia, external auditory atresia, treatment options for ear exostosis. Diagnosis and treatment of ear trumpet dysfunction. Diagnosis and pathogenesis of otosclerosis</p>				

and treatment options, types of prostheses. Implantable middle ear devices: BAHA, Vibrant soundbridge. Principles of operation of implanted middle ear hearing aids, their disadvantages and advantages, patient selection. Advantages of Implantable Hearing Aids over Non-Implantable Hearing Aids. Selection of patients for cochlear implantation. Cochlear implantation. Diagnostics of ear tumors and choice of treatment tactics.

#### Clinical rhinology

Diagnostics and treatment of acute and chronic sinusitis. Functional endoscopic nasal surgery: indications, principles, complications. Examination and treatments methods according to the localization of different sinuses. Chronic recurrent sinusitis with nasal polyposis, examination and choice of treatment tactics. Chronic fungal sinusitis, diagnostic and treatment options. Diagnosis and treatment options for chronic rhinitis. Pathology of the skull base and the role of otorhinolaryngology in it. Pathogenesis and treatment of a deviated nasal septum. Rhinoplasty: examination and selection of patients. Examination of nasal and sinuses tumors and treatment tactics. Early diagnosis of choanal atresia. Options for surgical treatment for epistaxis: indications, principles, complications.

#### Clinical laryngology

Peculiarities of anesthesia in laryngeal surgery. Surgical treatment of non-malignant laryngeal formations (nodules of the vocal folds, laryngeal polyps, laryngeal cysts, non-specific laryngeal granulomas, papilloma, fibroma, hemangioma): indications, principles, complications. Treatment of chronic nonspecific inflammation of the laryngeal mucosa (chronic laryngitis, vasomotor monochondritis) (hyperplasia of the vocal folds): indications, principles, complications. Indications, principles, complications. Peculiarities of surgery in children and adults.

#### Clinical pharyngology and sleep apnea

Diagnosis of pharyngeal diseases and choice of treatment methods. Treatment of pharyngeal tumors: indications, principles, complications. Peculiarities of sleep apnea in children and adults. Diagnostics of sleep apnea and the principles of treatment, the choice of treatment methods.

### **RECOMMENDED LITERATURE SOURCES**

1. Cummings Otolaryngology, 7th Edition by 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
2. Biomedical Optics in Otorhinolaryngology: Head and Neck Surgery 2016 by Brian J.-F. Wong, Justus Ilgner
3. The Laryngoscope journal <https://onlinelibrary.wiley.com/journal/15314995>
4. ENT & Audiology news <https://www.entandaudiologynews.com/>
5. Symptom Oriented Otolaryngology: Head & Neck Surgery – Three Volume Set 2017 by Zahoor Ahmad , Randall P. Morton, Malcolm Giles
6. Laryngology: A Case-Based Approach Paperback –2019 Jacqueline Allen, S.A. Reza Nouraei, Guri S. Sandhu
7. Rhinology and Skull Base Surgery: From the Lab to the Operating Room - An Evidence-based Approach 1st Edition Christos Georgalas, Wytske Fokkens
8. European Journal of Rhinology and Allergy <https://www.eurjrhinol.org/>
9. Journal of Audiology and otology <https://www.ejao.org/>
10. Head & Neck journal <https://onlinelibrary.wiley.com/journal/10970347>

<b>CONSULTING LECTURERS</b>
1. <u>Coordinating lecturer</u> : Eugenijus Lesinskas (Prof. Dr.).
2. Justinas Ivaška (Assoc. Prof. Dr.).
3. Darius Rauba (Assist. Prof. Dr.).
4. Vilma Beleškienė (Assist. Prof. Dr.).
<b>APPROVED:</b>
By Council of Doctoral School of Medicine and Health Sciences at Vilnius University: 29 <sup>th</sup> of September 2022
Chairperson of the Board: Prof. Janina Tutkuvienė