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|  | | | **UNIVERSITY OF EAST SARAJEVO**  Faculty of Medicine in | | | | | | | | | | | C:\Documents and Settings\Administrator\Desktop\grb.png | | |
| ***Study program:medicine*** | | | | | | | | | | |
| Integrated academic studies | | | | | | VI study year | | | | |
| **Full subject title** | | | OTORHINOLARYNGOLOGY WITH MAXILLOFACIAL SURGERY | | | | | | | | | | | | | |
| **Department** | | | Surgery department, Faculty of Medicine in Foca | | | | | | | | | | | | | |
| **Subject code** | | | | | | **Subject status** | | | | | **Semester** | | | **ECTS** | | |
|
| МЕ-04-1-056-11 | | | | | | compulsory | | | | | XI | | | 4 | | |
| **Professor/-s** | | Full professor Nenad Arsović, MD,PhD; assistant professor Boban Aničić, MD,PhD, Assistant professor Siniša Šolaja MD PhD | | | | | | | | | | | | | | |
| **Associate/-s** | | assistant Ljiljana Krsmanović MD, senior assistant Miroslav Obrenović, MD | | | | | | | | | | | | | | |
| **Number of lectures/ teaching workload (per week)** | | | | | | | **Individual student workload (in hours per semester)** | | | | | | | | **Coefficient of student workload So[[1]](#footnote-2)** | |
| **L** | **E** | | | | **SP** | | **L** | | | **E** | | **SP** | | | **So** | |
| 2 | 2 | | | | 0 | | 2\*15\*1 | | | 2\*15\*1 | | 0\*15\*1 | | | 1 | |
| total teaching workload (in hours, per semester)  2\*15 + 2\*15 +0\*15 = 60 | | | | | | | | total student workload (in hours, per semester)  2\*15\*1 + 2\*15\*1 + 0\*15\*1 = 60 | | | | | | | | |
| Total subject workload (teaching + student):60 + 60 =120 hours per semester | | | | | | | | | | | | | | | | |
| **Learning outcomes** | | Mastering the subject, the student will be able to:  1. develop the technique of ear, nose and throat examination  2. recognise and handle emergencies in ORL | | | | | | | | | | | | | | |
| **Preconditions** | | Precondition for taking the exam: all year 5 exams passed | | | | | | | | | | | | | | |
| **Teaching methods** | | Oral lectures and exercises | | | | | | | | | | | | | | |
| **Subject content per week** | | **Lectures**  1. **Оtology and audology:** Congenital ear malforations and external ear injuries, temporal bone fracture.  2. Acute inflammation of the external ear and possible complications. Otogenic complications;  3. Facial nerve disorders and labyrinth disorder. Tumors of the external, middle and inner ear;  4. Basics of audology and aural rehabilitation;  5. **Rhinology:** Congenital and acquired nasal malformations. Injuries of face, nose and frontobasal region;  6. Inflammatory response of nasal cavity and paranasal sinuses. Alergic reactions of nasal cavity and paranasal sinuses. Tumors of the nose and paranasal sinuses;  7. **Pharyngology:** Тonsillitis. Acute and chronic inflammation;  8.Malignant and benign tumors of the pharynx;  9. **Laryngology, Tracheobronchology and Phoniatrics:** Congenital laryngeal malforations;  10.Acute and chronic inflammation. Benign tumors of the larynx. Malignant tumours of the larynx;  11. Foreign bodies in the laryngotracheal tree and ecophagus. Basics of phoniatrics;  12. **Мaxillofacial surgery:** Congenital and acquired face malformations;  13. Inflammation of the oral cavity and tongue;  14. Inflammation of the salivary glands;  15. Injuries. Benign and malignant tumors of the salivary glands in the oral cavity.  **Exercises**  1. Introduction to practical teaching of otorhinolaryngology. ENT anamnesis. Workplace equipment. Examination lights. Ear examination. Оtoscopy. Inspection. Palpation and percussion;  2.Irrigating and cleaning the ear in chronic otitis. Local therapy in external auditory canal;  Cleaning and irrigating the external auditory canal. Removal of foreign bodies from external auditory canal. Tube politizeration. Paracentesis;  3. Examination of the mouth and pharynx. Oropharingoscopy. Inspection and palpation. Palpation of the lymph nodes. Examination of the nose and paranasal sinuses. Anterior rhinoscopy. Inspection and palpation;  4. Examination of the larynx and hypopharynx. Indirect laryngoscopy and hypopharyngoscopy. Posterior rhynoscopy. Inspection and palpation of the neck and larynx;  5. Quantitative methods for the examination of hearing through wispering and loud speech. Qualitative examination of hearing by tuning fork test. Examination of hearing by tuning fork test for the purpose of differential diagnosis (Weber, Rhinne, Schwabach and Gele tests). Examination of the vestibular apparatus: caloric and rotational. Basics of coordination examination;  6. Audiometric examination of hearing. Reading an audiogram. Hearing aids in audiologic rehabilitation. Medicamental and surgical treatment of patients with inflammatory diseases of the middle and inner ear, otoscerosis and periferal paralysis of nervus facialis;  7. Injuries in ORL. X-ray interpretation, computed tomography,MRI of the facial region, salivary glands, oral cavity and neck. Radiography of jaw (orthopantomography), sialography and spin-echo imagining of the salivary glands and neck. A case report. Treatment of facial wounds,oral cavity toilet, postoperative care;  8. Stopping a nosebleed. Blood vessel cauterization. Anterior nasal tamponade. Posterior nasal tamponade by Belloc.  Medicamental treatment in sinus infection. Maxillary sinus puncture. Aspiration of sinus secretion by Proetz. Removal of the nasal foreign bodies. Reposition of the nasal bones. Working with patients referred to ORL department and specialist outpatient clinics;  9.Working with patients in outpatient policlinical depatments (аnamnesis, status, case history and referring to additional examination). Clinical analysis of patients, аnamneses, status, preoperative preparation. Oncological consultations. Medical records manual during the referral of patients to ORL examinations;  10.Malignant and benign tumors in ORL. Exmination and treatment of patients with larynx and hypopharynx cancer. Endoscopic methods of examination. Analysis and preparation of patients for endoscopic examinations.  Directoscopic and microlaryngoscopic status. Biopsy. Larynx and pharynx biopsy.  Laryngomicroscopy and biopsy. Analysis of pathohistological diagnosis. Anesthesia in otorhinolaryngological operations, epimucosa, infiltration,insufficiency, intravenous, intubational;  11.Тracheotomy. Intubation. The use of tracheal cannula. Dressing the wounds of the patients having undergone neck and larynx surgery. Tracheobronchial aspiration through tracheostoma. Nasogastric intubation for nutrition. Decanilman. Practical work with patients referred to ORL department and specialist outpatient clinics;  12. An observation in the operating room. Basics of phoniatric rehabilitation. Voice rehabilitation in patients. Voice rehabilitation in laryngectomy patients. Voice rehabilitation in patients having undergone laryngectomy by an electrolarynx;  13.Characteristics of ORL examination in children. Surgical treatment of peritonsillar abscess. Patient preparation for tonsillectomy. Observation of tonsil and adenoid vegetation surgery. Tonsillectomy patient check-ups. Therapy and nutrition of tonsillectomy patients;  14. Oncological consultations. Clinical analysis of patients with ORL region malignancy, anamnesis, status, preoperative preparation. Medical records manuals during the referral of patients to ORL examination. Analysis of patients in outpatient policlinical depatments (anamnesis, status, outpatient therapy, angina, acute otitis, acute rhinitis). Working with patients in the dressing station;  15. Foreign bodies of ORL region. The procedure used in foreign bodies of lower respiratory tract. Corrosive injuries. | | | | | | | | | | | | | | |
| **Compulsory literature** | | | | | | | | | | | | | | | | |
| **Author/s** | | | | **Publication title, Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | |
| Behrbohm H et al. | | | | Ear, Nose and Throat Diseases. With Head and Neck Surgery 3 rd ed. Thieme | | | | | | | | | 2009. | |  | |
|  | | | |  | | | | | | | | |  | |  | |
| **Additional literature** | | | | | | | | | | | | | | | | |
| Author/s | | | | **Publication title, Publisher** | | | | | | | | | **Year** | | **Pages (from-to)** | |
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| **Student responsibilities, types of student assessment and grading** | | **Grading policy** | | | | | | | | | | | | **Points** | | **Percentage** |
| Pre-exam activities | | | | | | | | | | | | | | |
| lecture/exercise attendance | | | | | | | | | | | | 30 | | 30% |
| seminar paper | | | | | | | | | | | | 20 | | 20% |
| Final exam | | | | | | | | | | | | | | |
| practical | | | | | | | | | | | | 10 | | 10% |
| Wtitten test | | | | | | | | | | | | 40 | | 40% |
| TOTAL | | | | | | | | | | | | 100 | | 100 % |
| **Certification date** | | December 13 th 2018 | | | | | | | | | | | | | | |

\* the number of necessary rows is added by using *insert mode*

1. The coefficient of student workload So is calculated as it follows:

   а) for the study programs not going through the licensing process: So = (total workload in semester for all of the subjects 900 hrs – total teaching workload L+E in semester for all of the subjects 870 hrs)/ total teaching workload L+E in semester for all of the subjects \_\_\_\_\_ hrs = \_\_\_\_. Consult form content and its explanation.

   b) for the study programs going through the licensing process, it is necessary to use form content and its explanation. [↑](#footnote-ref-2)