PLAN AND PROGRAMME OF LECTURES AND PRACTICALS FOR UNDERGRADUATE STUDENTS IN OTORHINOLARYNGOLOGY AND MAXilloFACIAL SURGERY
2013/14 ACADEMIC YEAR

Professor in charge for the course organisation:
Professor Predrag Stanković
# OTOLOGY WITH BASIC AUDIOLOGY

## The 1

### week

**17.10.2013. Thursday**

**Introduction**

13,00-13,15   **Prof. dr P. Stanković**  
Introduction to the course

**Lectures (hours) 1**

13,15-14,00   **Prof. dr D. Đerić**  
Applied anatomy and physiology of the ear  
Symptomatology and diagnostic methods of the ear disorders  
Congenital anomalies of the external, middle and inner ear

**Lectures (hours) 1**

14,00-14,45   **Prof. dr D. Đerić**  
Trauma of the external, middle and inner ear  
- Othaeathoma  
- Temporal bone fractures  
- Labyrinthine concussion

14,45-15,00   **Pause**

**Practicals (hours) 3**

15,00-17,15  **Prof. dr D. Đerić, Prof. dr S. Ješić**  
15,00-15,15  
Specificity of ORL anamnesis

15,15-15,30  
Specificity of ORL examination  
- Lightening: head mirror, electric headlight, optics  
- Equipage/instruments for the routine ORL examination  
Components of the routine ORL examination

15,30-15,45  
Examination of the ear  
- Inspection, palpation, otoscopy (usage of aural specula)  
- Normal drum

15,45-17,15  
Demonstration and practical individual training
The 2nd week  

24.10.2013. Thursday

Lectures (hours) 1

13,00-13,45 Prof. dr D. Đerić
Acute suppurative infections of the external and middle ear
  o Acute external otitis, herpes zoster oticus, malignant external otitis
  o Acute otitis media (in systemic infectious diseases, otoantritis)
  o Acute mastoiditis
Chronic suppurative inflammatory diseases of the middle ear (tubotympanic type, ostitic type, with cholesteatoma)
  o Otogenic complications (ectracranial, intracranial)
Chronic otitis media with effusion (chronic secretory otitis media) Tympanosclerosis

Practicals (hours) 3

13,50-14,35 Prof. dr D. Đerić, Prof. dr S. Ješić

13,50-14,35  
Presentation of a patient suffering from a chronic ear disease
Presentation of slides/video tapes on ear infection/inflammation

14,35-14,45 Pause

14,45-15,00  
Examination of the ear
  o Recapitulation of routine examination of the ear
  o Microscopic examination of the ear (otomicroscopy)

15,00-16,15  
Demonstration and practical individual training (including otomicroscopy)
The 3rd week

31.10.2013. Thursday

Lectures (hours) 1

13.00-13.45 Prof. dr S. Ješić
Otosclerosis
Disorders of the facial nerve function

Lectures (hours) 1

13.50-14.35 Prof. dr S. Ješić
Disorders of the inner ear
  o Sensorineural hearing loss (congenital, acquired: induced by noise, trauma, tumors, drugs, aging, sudden-idiopathic)
  o Otogenic vertigo
  o Meniere's disease

14.35-14.45 Pause

Practicals (hours) 2

14.45-16.15 Prof. dr S. Ješić, Asist. dr A. Jotić
Investigation of hearing loss:

14.45-15.15
  o The tuning fork test for examination of conductive and sensorineural hearing loss (the Rhine test, the Weber test, the occlusion test)
  o Barany's box
Practical demonstration and interpretation of tests

15.15-16.15
  • Audiometry (pure tone audiometry) and audiograms
Practicals demonstration and interpretation of tests
  • Speech audiometry (tympanometry, stapedial reflexes)
  • Electric response audiometry
  • Rehabilitation of deafness: hearing aids, cochlear Implants
The 4th week

07.11.2013. Thursday

Lectures (hours) 1

13,00-13,45 Doc. dr N. Arsović
Tumors of the ear
• Glomus tumors
• Acoustic neuroma
• Carcinomas of the external and middle ear

Practicals (hours) 4

13,50-17,00 Doc. dr N. Arsović, Prof. dr P. Stanković

13,50-14,35
Investigations of the vestibular system and balance
• Observation for nystagmus (Frenzel glasses)
• The caloric test
• The Romberg test
• Tests to demonstrate abnormalities of gate
Demonstration and interpretation of tests

14,35-14,45 Pause

14,45-15,30
Removal of the ear wax and foreign bodies (Syringing)
Incision of the tympanic membrane
Presentation of patients/slides/video tapes

15,30-17,00
Practical examination of patients with ear diseases
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Rhinology with basic upper airway allergology

The 5th week 14.11.2013. Thursday

Lectures (hours) 1 13,00-13,45  Prof. dr Lj. Janošević

Applied anatomy and physiology of the nose and paranasal sinuses
- Symptomatology and diagnostic methods of nasal/sinusal disorders
- Nasal airway obstruction in children and adults
- Epistaxis
Congenital anomalies of the nose/sinuses (Posterior choanal atresia)

Practicals (hours) 4 13,50-17,00  Prof. dr Lj. Janošević, Asist. dr B. Pavlović

13,50-14,35

Methods for nasal bleeding control
- digital pressure
- cautery
- anterior and posterior nasal packing
Presentation of patients/slides/video tapes

14,35-14,45  Pause

14,45-15,15

Examination of the nose and paranasal sinuses
- inspection, palpation, anterior rhinoscopy
  (usage of nasal specula)
- normal nasal findings

15,15-17,00
Demonstration and practical individual training
The 6th week  

21.11.2013. Thursday

Lectures (hours) 1  

13,00-13,45 Prof. dr Lj. Janošević  
Injuries of the nose and paranasal sinuses  
o haematoma and abscess of the nasal septum and vault  
o nasal fractures  
o frontoethmoidal fractures  
Deviation and deformation of the nasal septum and pyramid  
Surgery of the nasal septum, pyramid and paranasal sinuses

Practicals (hours) 3  

14,50-17,15 Prof. dr Lj. Janošević, Asist. dr B. Pavlović  

14,50-15,35  
Removal of foreign bodies from the nasal cavity  
Nasal bones reposition  
Presentation of patients/slides/video tapes

15,35-15,45 Pause

15,45-16,30  
Functional examination of nasal patency  
• Computerized rhinomanometry  
Practical demonstration

15,30-16,15  
Practical examination of patients with nasal and sinusal diseases
Rhinology with basic upper airway allergology

The 7th week 28.11.2013. Thursday

Lectures (hours) 1 13,00-13,45  Prof. dr Lj. Janošević
Acute infection of the nose and paranasal sinuses
- acute viral and bacterial infections of the nose
- maxillary sinusitis, ethmoiditis, frontal sinusitis, sphenoiditis
Chronic inflammatory diseases of the nose and paranasal sinuses
Specificity of the sinus infection in children (Ethmoidoantritis)
Rhinosinusonal complications (extracranial and endocranial)

Lectures (hours) 1 13,50-14,35  Prof. dr Lj. Janošević
Allergic manifestations of the upper airways
Sinonasal polyposis

14,35-14,45  Pause

Practicals (hours): 2 14,45-16,15  Prof. dr P. Stanković, Prof. dr Lj. Janošević

14,45-15,30
Displacement therapy
Aerosol therapy
Demonstration and presentation of patients/slides/video tapes

15,30-16,15
Investigation of respiratory allergy (skin prick – test)
Practical demonstration and interpretation of the tests
The 8th week 05.12.2013. Thursday

Lectures (hours) 1 14,00-14,45 Prof. dr P. Stanković

Benign tumors of the nose and paranasal sinuses
  • Osteomas of the paranasal sinuses
Malignant tumors of the nose and paranasal sinuses

Practicals (hours) 2 14,50-16,30 Prof. dr P. Stanković, Prof. dr Lj. Janošević

14,50-15,35

Demonstration and presentation of patients/slides/video tapes of nasal and paranasal tumors

15,35-15,45 Pause

15,45-16,30 Practical examination of patients with nasal and sinusal diseases
Pharyngology

The 9th 12.12.2013. Thursday

Lectures (hours) 1 13,00-13,45 Prof. dr P. Stanković
Applied anatomy and physiology of the pharynx
Simptomatology and diagnostic methods of pharyngeal disorders
Acute inflammatory diseases of the pharynx, adenoids/tonsils
Chronic inflammatory diseases of the pharynx, adenoids/tonsils
Complications of inflammatory diseases of the pharynx, adenoids/tonsils (suppurative, non-suppurative)

Lectures (hours) 1 13,50-14,35 Prof. dr P. Stanković
Benign tumors of the pharynx
- nasopharyngeal angiofibroma
Malignant tumors of the pharynx
- carcinomas of the nasopharynx, tonsils and oropharynx
- malignant lymphomas of the pharynx and tonsils

14,35-14,45 Pause

Practicals (hours) 4 14,45-17,45 Prof. Dr M. Dimitrijević, Prof. dr P. Stanković

14,45-15,30 Peritonsillar abscess incision
Tonsillectomy and adenoidectomy
Presentation of patients/slides/video tapes

15,30-16,00 Examination of the oral cavity, pharynx and tonsils
- inspection, palpation, oropharyngoscopy (usage of spatula)
- normal findings of oral cavity, oropharynx and tonsils

16,00-16,45 Demonstration and practical training in oropharyngoscopy

16,45-17,45 Practical examination of patients with pharyngeal disease
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# Maxillofacial surgery

**The 10th week**

**19.12.2013. Thursday**

**Lectures (hours) 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Duration</th>
<th>Instructor(s)</th>
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<tr>
<td>14:00</td>
<td>14:45</td>
<td>Prof. dr M. Dimitrijević</td>
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</tbody>
</table>

Congenital anomalies of the oral cavity and face
- clefts of the lip and palate

Trauma of the maxillofacial region
- fractures of the mandible, maxilla, zygoma and orbit
- injuries of the facial soft tissues
- injuries of the tongue

Acute inflammatory diseases of the oral cavity and tongue

Chronic inflammatory diseases of the oral cavity and tongue

**Practical (hours) 2**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Instructor(s)</th>
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<tbody>
<tr>
<td>14:50</td>
<td>15:35</td>
<td>Prof. dr M. Dimitrijević, Prof. dr S. Ješić</td>
</tr>
</tbody>
</table>

14:50-15:35 Presentation of patients/slides/video tapes with maxillofacial injury/inflammations

15:35-15:45 Pause

15:45-16:30 Practical examination of the patients
The 11th week 09.01.2014. Thursday

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>13,00-13,45</td>
<td>Prof. dr M. Dimitrijević</td>
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<td>Prof. dr M. Dimitrijević, Prof. dr V. Đukić</td>
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**Lectures (hours) 1**

Diseases of the salivary glands  
Malignant tumors of the facial skin  
Malignant tumors of the lips and oral cavity

**Practicals (hours) 2**

13,50-14,35  
Presentation of patients / slides/ video tapes with salivary glands pathology /MF region tumors

14,35-14,45  
Pause

14,45-15,30  
Practical examination of the patients
Laryngology with basic phoniatrics

The 12th week  16.01.2014. Thursday

Lectures (hours) 1  14,00-14,45  Prof. dr V. Đukić

- Applied anatomy and physiology of the larynx
- Symptomatology and methods of laryngeal disease diagnosis
- Congenital cysts and fisutlas of the neck
  - Thyreoglossal duct cysts, branchial cysts

Practicals (hours) 2  14,50-15,35  Prof. dr S. Ješić, Prof. dr V. Đukić

- Examination of the hypopharynx, larynx and neck
  - inspection, palpation, indirect laryngoscopy
    (usage of laryngeal mirrors)
- Normal findings in hypopharynx, larynx and neck

15,35-16,20
Demonstration and practical individual training
The 13th week  

23.01.2014. Thursday

Lectures (hours) 1  

13,00-13.45  Prof. dr P. Stanković  
Acute inflammatory diseases of the larynx  
  o  Acute epiglottitis, acute laryngitis, subglottic laryngitis, acute laryngotracheobronchitis
Chronic inflammatory diseases of the larynx  
Vocal cord paralysis

Practicals (hours) 2  

13,50-15.30  Asist. dr A. Jotić, Prof. dr P. Stanković

13,50-14,35  
Directoscopy and laryngomicroscopy

Presentation of patients/slides/video tapes

14,35-15.30  
Recapitulation of the larynx and hypopharynx examination  
Examination of patients with diseases of the larynx
Laryngology with basic phoniatrics

The 14th week 27.01.2014. Monday

Lectures (hours) 1 14,00-14,45 Prof. dr V. Đukić
Tumorlike and premalignant lesions of the larynx
Benign tumors of the larynx
  o papilloma of the larynx in adults and children

Lectures (hours) 1 14,50-15,35 Prof. dr V. Đukić
Malignant tumors of the larynx
Differential diagnosis of hoarseness

15,35-15,45 Pause

Practicals (hours) 3 15,45-18,00 Prof. dr V. Đukić, Asist. dr B. Pavlović

15,45-17,30
Basic phoniatrics
  o disorders of the voice and speech
  o stroboscopy and videostroboscopy
  o rehabilitation of voice
Presentation of patients/ slides/ video tapes

17,30-18,00
Examination of patients with phoniatric disorders
Related tracheobronchial and esophageal disorders

The 15th week 30.01.2014. Thursday

Lectures (hours) 1 13,00-13,45  Prof. dr V. Đukić
Foreign bodies of the larynx and tracheobronchial tree
Foreign bodies of the esophagus
Injuries of the esophagus

Practicals (hours) 2 13,50-15,20  Prof. dr V. Đukić, Prof. dr S. Ješić

13,50-14,35
Tracheotomy, cricothyrotomy, intubation
Presentation of patients /slides/ video tapes

14,35-15,20
Tracheobronchoscopy
Esophagoscopy
Presentation of patients /slides/ video tapes
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GRADING POLICY

Examination in ENT consists of practical exam and final test. In order to take the final test a student is required to pass practical exam.

1. Final Test has 100 questions:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>51-60</td>
<td>6</td>
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<td>61-70</td>
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<td>81-90</td>
<td>9</td>
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<tr>
<td>91-100</td>
<td>10</td>
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COURSE DIRECTOR

Professor Predrag Stanković

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