

PATOLOGIA TESTA COLLO E ORGANI DI SENSO (MG0436)

1. Language

English

2. COURSE CONTENTS

Coordinator: Prof. GALLI JACOPO

Year Course: 5

Semester: Six-month

UFC: 7

Modules and lecturers:

AUDIOLOGY (MG0506) - 1 ufc - ssd MED/32

Prof. Walter Di Nardo, Guido Conti

MAXILLO-FACIAL SURGERY (MG0510) - 1 ufc - ssd MED/29

Prof. Alessandro Moro, Gianmarco Saponaro

ODONTOSTOMATOLOGICAL DISEASES (MG0508) - 1 ufc - ssd MED/28

Prof. Carlo Lajolo, Romeo Patini

OPHTHALMOLOGY (MG0511) - 2 ufc - ssd MED/30

Prof. Gustavo Savino, Stanislao Rizzo, Maria Cristina Savastano, Andrea Giudiceandrea, Tomaso Caporossi, Fernando Molle, Maria Antonietta Blasi, Domenico Lepore, Angelo Maria Minnella, Benedetto Falsini

OPHTHALMOLOGY PROFESSIONAL TRAINING (MG0514) - 0.5 ufc - ssd MED/30

Prof. Tomaso Caporossi, Andrea Giudiceandrea, Domenico Lepore, Stanislao Rizzo, Fernando Molle, Angelo Maria Minnella, Gustavo Savino

OTORHINOLARYNGOLOGY (MG0503) - 1 ufc - ssd MED/31

Prof. Giovanni Almadori, Gabriella Cadoni, Jacopo Galli, Giulio Cesare Passali

OTORHINOLARYNGOLOGY PROFESSIONAL TRAINING (MG0513) - 0.5 ufc - ssd MED/31

Prof. Giovanni Almadori, Bruno Sergi, Gabriella Cadoni, Lea Calo', Guido Conti, Lucia D'Alatri, Walter Di Nardo, Giulio Cesare Passali, Jacopo Galli, Pasqualina Maria Picciotti, Mario Rigante

3. BIBLIOGRAPHY

OTORHINOLARYNGOLOGY (compulsory texts)

Maurizio Maurizi: CLINICA OTORINOLARINGOIATRICA (basi anatomico-funzionali, patologiche e cliniche delle grandi sindromi e delle malattie otorinolaringoiatriche) – Ed. Piccin

Maurizio Maurizi: AUDIOVESTIBOLOGIA CLINICA – Edizioni Idelson – Gnocchi

Giovanni Gasbarrini: TRATTATO DI MEDICINA INTERNA volume III- sezione XIX – Malattie Oncologiche – parte C Tumori del distretto cervico facciale — Ed. Verduci

MAXILLO-FACIAL SURGERY (compulsory texts)

Gasbarrini G.: TRATTATO DI MEDICINA INTERNA vol. III – section XIX – Malattie Oncologiche – Parte C Tumori del distretto cervico facciale — Ed. Verduci-

Pelo S.: CHIRURGIA MAXILLO-FACCIALE - CIC international editions – 2010

OPHTHALMOLOGY (compulsory texts)

Kanski: OFTALMOLOGIA CLINICA (curated by Claudio Azzolini e Simone Donati) VIII Ed. EDRA 2016

ODONTOSTOMATOLOGICAL DISEASE (compulsory texts)

Gallenzi P., Patini R.: PRINCIPI DI CLINICA ODONTOSTOMATOLOGICA Ed. Martina

4. LEARNING OBJECTIVES

Knowledge and understanding (Dublino 1): the integrated course aims to foster the acquisition of knowledge of the pathophysiology, diagnostic criteria and treatment principles of the main head-neck and sense organ disorders as outlined in the course syllabus, with a focus on the aspects of clinical manifestations.

Applying knowledge and understanding (Dublino 2): Students are expected to have acquired knowledge and skills in the course topics. They should demonstrate an ability to structure a diagnostic process in the light of the knowledge acquired. They should demonstrate specific skills in the management of major clinical pictures

Making judgements (Dublino 3): students must demonstrate that they are able to independently handle clinical data, have differential diagnosis skills, correctly apply diagnostic pathways and appropriate therapeutic strategies in the treatment of course-related diseases.

Communication skills (Dublino 4): the student must be able to explain in appropriate technical language the clinical and therapeutic aspects of pathologies related to the course.

Learning skills (Dublino 5): students should develop research and learning skills through textbooks, e-

learning and interactive lessons in which they will be actively involved

5. PREREQUISITES

- Knowledge of General and Specific Physiology of the Head and Neck District
- Knowledge of general and specific pathology of the head and neck region
- Knowledge of general and specific anatomy of the head and neck region
- Knowledge of Pathological Anatomy and specific to the head and neck region
- Knowledge of Pharmacology
- Any propaedeutics provided for in the study plan of the degree course in medicine and surgery

6. TEACHING METHODS

Teaching is delivered through lectures, professional activities and technical-practical exercises, with the use of audiovisual aids and presentation of clinical cases.

The teaching methods can be broken down as follows:

Knowledge and ability to understand (Dublin 1): knowledge and ability to understand will be stimulated by covering the topics foreseen in the course programme also with the aid of real and simulated clinical cases, diagnostic and therapeutic schemes and innovative technologies

Applied knowledge and understanding (Dublin 2): applied knowledge and understanding will be respectively provided and assessed through the presentation of real or simulated clinical cases such as to stimulate discussion and teacher-student comparison

Autonomy of judgement (Dublin 3): autonomy of judgement, with the formulation of correct aetiological, diagnostic and therapeutic hypotheses, will be stimulated and verified through the analysis of real and simulated clinical cases

Communication skills (Dublin 4): communication skills will be developed by taking part in the presentation and discussion of clinical cases proposed by the lecturer

Ability to learn (Dublin 5): the importance of constant and continuous updating in medicine will be emphasised, in accordance with the fundamental concept of evidence-based medicine and best practice. Students will be stimulated to check and expand their knowledge also by consulting the international bibliography

7. OTHER INFORMATIONS

Student-choice lectures on specific topics of the individual modules are provided to deepen, supplement and enrich knowledge and to provide credits for admission to specialisation schools.

In addition, lecturers are available for individual interviews with students outside class hours by appointment to be arranged as required.

8. METHODS FOR VERIFYING LEARNING AND FOR EVALUATION

The examination procedure for Systematic Pathology of the Head, Neck and Sense Organs is as follows: the student must take the tests for each teaching included in the integrated course (Otolaryngology, Ophthalmology, Dentistry, Maxillofacial Surgery). At the end of each individual test, a grade in thirtieths (30/30) will be produced on the basis of a contextual and overall assessment of the knowledge and skills acquired by the student. The determination of the grade, expressed in thirtieths, takes into account the following elements: the logic followed by the student in solving the question; the correctness of the procedure identified for the solution of the question; the appropriateness of the proposed solution in relation to the skills that the student is assumed to have acquired at the end of the course; the use of appropriate language, active participation in the lectures and in the discussion of clinical cases. The maximum mark (30/30 cum

laude) is awarded if the above elements are fully satisfied.

The final overall mark (i.e. of the entire course) will be the result of the weighted average of the marks obtained in the individual tests (four). The maximum overall mark (30/30 cum laude) is obtained if the mark for each individual module is higher than 29½.

The examinations for each course will be held on separate days, which will be notified to students in good time. The Otorhinolaryngology examination must be taken at the end of the session at the express request of Prof. Jacopo Galli who, as Coordinator of the Integrated Course, is in fact the Professor who records the final examination.

The tests may be taken on different dates within the same session. If the student does not pass all the tests in the chosen session, he/she must take the test(s) taken previously again.

Otorhinolaryngology and Maxillo-Facial tests are exclusively oral tests. Ophthalmology and Dentistry tests may be oral or written (quizzes or other) at the discretion of the Professors, who will decide each time.

In particular, the methods for verifying learning can be broken down as follows:

Knowledge and ability to understand (Dublin 1): the modes of verification of knowledge and ability to understand include questions aimed at deepening the degree of theoretical knowledge of the pathologies covered by the teaching.

Applied knowledge and ability to understand (Dublin 2): the student will have to answer questions on topics relating to the pathophysiology, semeiotics, diagnostic techniques and treatment of the pathologies covered by the course programme and on problems related to the clinical cases presented during the lectures.

Autonomy of judgement (Dublin 3): autonomy of judgement will be tested through the simulated management of clinical cases related to the topics of the programme

Communication skills (Dublin 4): communication skills will be assessed by verifying the way they are expressed in suitable technical language, during the oral examination

Ability to learn (Dublin 5): during the examination, the notions learnt during the course will be assessed and whether these notions are the result of an adequate and coherent integration with all the disciplines that make up the integrated course and with any in-depth studies researched in the international literature.

9. program

For the modules OTORHINOLARYNGOLOGY (MG0503), EXERCISES OF OTORHINOLARYNGOLOGY (MG0504), PROFESSIONAL TRAINING IN OTORHINOLARYNGOLOGY (MG0513), AUDIOLOGY (MG0506), EXERCISES OF AUDIOLOGY (MG0505) the programme includes:

Upper aerodigestive tract and cervico-cephalic oncology:

- o Main pathologies of the nasal-sinus region (epistaxis, non-specific and allergic vasomotor rhinitis, acute and chronic rhinosinusitis with and without polyps, nasosinus and facial neoplasms): aetiopathogenesis, signs and symptoms, diagnosis and therapy
- o Diseases of the oral cavity, nasopharynx, oropharynx of phlogistic and infectious nature and related complications: etiopathogenetic, clinical-diagnostic and therapeutic framework
- o Neoplastic pathologies of the oral cavity, oro-hypopharynx and nasopharynx: general principles of classification, staging, diagnosis and therapy.
- o Malformative, traumatic, dysfunctional, motor, inflammatory and infectious pathologies of the larynx: etiopathogenetic, clinical-diagnostic and therapeutic framework with particular reference to the differential diagnosis of possible causes of dysphonia (of any origin).
- o Neoplasms of the larynx: main etiopathogenetic, clinical-diagnostic, classification, staging and treatment aspects

- o Acute dyspnoea: diagnosis and principles of medical and surgical therapy
- o Salivary gland diseases and neoplasms: diagnosis and therapy
- o Dysphagia: etiopathogenetic framework, diagnosis and therapy
- o Neck tumours and lymph node levels: semeiology, diagnosis and treatment
- o Dysgeusia and dysosmia: aetiopathogenesis, diagnosis and treatment
- o Paralysis of the seventh pair of cranial nerves: anatomy, aetiopathogenesis, clinical framework, diagnosis and treatment
- o Craniofacial algic syndromes: diagnosis and treatment
- o Focus: Pharmacological reference categories, most appropriate therapy schemes in adults and children.

Otology

- o Transmission and mixed sensorineural hypoacusis: causes, pathophysiology, diagnostic approach, medical and surgical therapy, otofunctional examinations
- o Middle ear diseases (inflammatory pathology and consequences, cholesteatoma, otosclerosis): clinical pictures, diagnosis and therapy
- o Diseases of the outer ear: clinical pictures, diagnosis and therapy
- o Inner ear diseases: clinical pictures, diagnosis (including audiometric examination technique and indications) and therapy
- o Diseases of the vestibular apparatus (vestibular decompensation, harmonic and dysharmonic vestibular syndromes): clinical pictures, definition, differential diagnosis and therapy
- o Tinnitus: pathophysiology, local and systemic causes, principles of therapy
- o Diseases of the 8th cranial nerve and auditory pathways and treatment options

For the modules OCULISTICS (MG0511), OCULISTIC EXERCISES (MG0512), PROFESSIONALISATION OCULISTICS (MG0514) the programme includes:

The ocular diopter. Refractive defects (myopia, hypermetropia, astigmatism) and their correction. Accommodation

Pupillary physiology and semeiology

Orbital pathology: exophthalmos and enophthalmos (generalities, clinical picture, most frequent causes, differential diagnosis)

Orbital cellulitis, orbital and cavernous sinus thrombophlebitis, pulsating exophthalmos, endocrine exophthalmos

Eyelids: inflammatory pathologies (chalazio, orzaiol), alterations in eyelid statics and dynamics (ptosis,

entropion, ectropion)

Red eye: main causes, elements of differential diagnostics and therapy with reference to the acquisition of basics for patient management. Main pathologies of the lacrimal apparatus (dry eye, Sjögren's syndrome, dacryocysts and dacryocanaliculitis) and of the conjunctiva (acute catarrhal conjunctivitis, viral conjunctivitis, spring conjunctivitis, trachoma).

Pathology of the cornea. Elements of pathophysiology (oedema, neovascularisation, nubecula, leucoma).

Notes on congenital alterations. Keratitis (bacterial, viral, interstitial). Lophthalmos keratitis, neuroparalytic keratitis. Degenerative keropathies with particular reference to keratoconus and its current therapeutic possibilities.

-Pathology of the crystalline lens: senile, complicated, toxic, traumatic cataracts. Epidemiology. Clinical history and principles of surgical therapy. Dislocation and subluxation of the crystalline lens.

-Correction of refractive defects

-Pathophysiology of ocular hydrodynamics. Primary glaucomas: open-angle glaucoma and closed-angle glaucoma. Secondary glaucomas: neovascular glaucoma. Diagnostic principles and concepts of medical and surgical therapy.

Uveal pathology. Congenital anomalies: colobomas. Uveitis (anterior, intermediate, posterior, diffuse) with particular regard to associations with systemic diseases.

Pathology of the retina. Pathophysiology of elementary lesions: oedema, exudates, haemorrhages. Main pictures of inflammatory, vascular, dysmetabolic, degenerative and hereditary diseases. Retinal detachment: aetiology, clinic, differential diagnosis and therapeutic approach. New drug therapies in age-related macular degeneration

Preterm retinopathy.

New therapies in hereditary retinal dystrophies

Fundus examination in systemic diseases: description and interpretation of findings in hypertension, atherosclerosis, endocranial hypertension, diabetes, autoimmune diseases.

Optic nerve pathology: stasis papilla, optic neuritis, optic atrophy. Chiasmatic, retrochiasmatic, retrogenicular pathologies with special reference to the interpretation of visual field deficits.

Pathology of ocular motility and binocular vision: concomitant and incomitant strabismus, amblyopia, ocular nystagmus. General principles of diagnosis and therapy.

Ocular oncology. Treatment of the main neoplastic forms affecting the different ocular structures with particular reference to differential diagnosis, prognosis and therapeutic possibilities.

Emergency in ophthalmology. Description of the causes and possible clinical pictures of the most frequent ophthalmic emergencies: foreign bodies, corneal lesions, acute glaucoma, acute retinal damage, mechanical lesions of the ocular globe, etc. Hints of emergency therapy.

The general practitioner and ocular pathology. Blindness and low vision: epidemiology, main causes, socio-economic correlates also in relation to the organisation of health services; hints on prevention and treatment possibilities. Basic management of the post-surgical patient and the patient with chronic eye diseases.

For the modules MAXILLO-FACIAL SURGERY (MG0510) and EXERCISES OF MAXILLO-FACIAL SURGERY (MG0509) the programme includes:

- o Maxillary atrophy and pre-implant surgery
 - The biology of alveolar resorption
 - diagnostic framing
 - therapeutic planning
- o Traumatology of the maxillo-facial
 - emergencies in traumatology of the maxillo-facial complex
 - fracture of the mandible
 - maxillary fracture
 - orbito-malar fracture
 - zygomatic arch fracture
- o Surgical pathology of the temporomandibular joint
- o Maxillofacial oncology
 - odontogenic tumours
 - non-odontogenic tumours
 - diagnostic framework
 - outline of therapy
- o Craniofacial malformation pathology
 - outline of embryogenesis
 - general theories on the growth of the craniofacial complex
 - etiopathogenetic classification of malformative pathologies of the craniofacial complex
 - developmental malformative pathologies
 - hints of surgical technique: osteotomies and bone distraction

For the modules ODONTOSTOMATOLOGICAL DISEASES (MG0508) and ODONTOSTOMATOLOGICAL DISEASES EXERCISES (MG0507) the programme includes:

- Caries
- Pulpopathies
- Trauma and dental anomalies
- Periodontal diseases
- Oral mucosal diseases

Paediatric patient management

Maxillary cysts

Management of patients on bisphosphonate therapy