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**III YEAR- I Semester [ECTS Credits 1.0] (Lecture hours 10)**

**V YEAR- I Semester [ECTS Credits 4.0]+[ECTS Training Credits 1.0] (Lecture hours 30) (Tutorial activity hours 10)**

**V YEAR- II Semester [ECTS Credits 5.0]+[ECTS Training Credits 1.0] (Lecture hours 30) (Tutorial activity hours 10)**

**Integrated course of PHARMACOLOGY [total ECTS Credits 10.0] + [total ECTS Training Credits 2.0]**

(General Pharmacology, Toxicology, Pharmacoepidemiology, Clinical Pharmacology, Chemotherapy)

Full Professor: **ROSSI** Francesco - e-mail: [francesco.rossi@unina2.it](mailto:francesco.rossi@unina2.it)

Associate Professors: **FILIPPELLI** Amelia - e-mail: [amelia.filippelli@unina2.it](mailto:amelia.filippelli@unina2.it), **MAIONE** Sabatino

- e-mail: [sabatino.maione@unina2.it](mailto:sabatino.maione@unina2.it), **VACCA** Ciro - e-mail: [ciro.vacca@unina2.it](mailto:ciro.vacca@unina2.it).

Assistant Professors: **D'AGOSTINO** Bruno - e-mail: [dagostino.bruno@unina2.it](mailto:dagostino.bruno@unina2.it), **deNOVELLIS** Vito - e-mail: [denovellis.vito@unina2.it](mailto:denovellis.vito@unina2.it), **FILIPPELLI** Walter - e-mail: [walter.filippelli@unina2.it](mailto:walter.filippelli@unina2.it)

**General purpose of the course.** The integrated course of Pharmacology aims at teaching the basics of drug action. In particular, pharmacology consists of studying the molecular mechanisms at the bases of pharmacological and toxicological effects of drugs.

**Knowledge necessary to the course.** Student must show a basic knowledge of Chemistry and Propaedeutic Biochemistry, Biochemistry I & II, Microbiology, Anatomy, Physiology and General Pathology I & II.

**Course description:** *The theoretical part* (2/3 of the total) consists of formal lectures. *The practical part* (1/3 of the total) consists of seminars and practical training during which students will take part to experimental activities as well as discussion of scientific data and laboratory research project related to disciplines provided by the course.

#### **Teaching programme**

- 1) General principles: drug mechanism of action, absorption, distribution, metabolism and elimination.
- 2) Chemical mediators: cholinergic, adrenergic, purinergic, serotonergic, dopaminergic, istaminergic, aminoacidergic transmission, peptide as mediators, inflammation mediators and anti-inflammatory drugs.
- 3) Drugs affecting major organ systems: heart, circulation, lipoprotein metabolism, haemostasis and thrombosis, the respiratory system, the kidney, the gastrointestinal tract, the endocrine system, the reproductive system, the haemopoietic system, the central nervous system: general and local anaesthetics, anxiolytic and hypnotic drugs, neuroleptics, antidepressants, antiepileptic, drugs of Parkinson and Huntington's chorea, analgesics, stimulants and psychotomimetic.
- 5) Chemotherapy: cancer therapy, antibacterial, antiviral, antifungal, antiprotozoal and antielminthic agents
- 6) Toxicology (General and organ systems toxicology)
- 7) Pharmcosurveillance

**Examination tests:** Examinations will be carried out by means of a multiple choice written test followed by an oral test dealing with questions on the theory of the topics of the course.

#### **Recommended texts:**

Principi di Farmacologia (1999)- Munson, Ed. Piccin

Le basi farmacologiche della terapia, X° Ed. (2002)- Goodman & Gilman, Ed. Zanichelli

Farmacologia Generale e Clinica (1999)- B.G. Katzung, Ed. Piccin

Farmacologia (2001) Rang, Dale & Ritter, Ed. Ambrosiana

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**III YEAR- I Semester [ECTS Credits 1.0] (Lecture hours 10) (Laboratory works hours 10) (Tutorial activity hours 5)**

**VI YEAR- I Semester [ECTS Credits 5.0] + [ECTS Training Credits 1.5] (Lecture hours 35) (Laboratory works hours 20) (Tutorial activity hours 10)**

**Integrated course of LABORATORY MEDICINE [total ECTS Credits 6.0] + [total ECTS Training Credits 1.5]**

(Clinical biochemistry, Clinical pathology, Clinical microbiology.)

Full Professor: **ILLIANO** Gennaro – e-mail: [gennaro.illiano@unina2.it](mailto:gennaro.illiano@unina2.it), **MOLINARI** Anna Maria – e-mail:

[Annamaria.molinari@unina2.it](mailto:Annamaria.molinari@unina2.it), **ROMANO CARRATELLI** Caterina – e-mail: [caterina.romano@unina2.it](mailto:caterina.romano@unina2.it), **SICA**

Vincenzo – e-mail: [vincenzo.sica@unina2.it](mailto:vincenzo.sica@unina2.it).

Associate Professors: **CIOFFI** Michele – e-mail: [michele.cioffi@unina2.it](mailto:michele.cioffi@unina2.it)

Assistant Professors: **BONTEMPO** P., **CHIOSI** E., **RIZZO** A., **VIETRI** M.T.

**General purposes of the course.** Knowledge of basic organisation, structure and function of clinical and diagnostic laboratory basics. Critical choice and evaluation of analytical procedures and clinical results related to the pathophysiological bases of diseases. **Knowledge necessary to the course.** Biochemistry, Microbiology, General physiopathology

## Teaching programme

### a) Theoretical part (one week)

#### Evidence medicine.

Clinical laboratory organisation and minimal requirements. Analytical procedure choice criteria. Choice, collection, storage and transportation of biological samples. Different approaches. Guidelines for diagnostic, prognostic and follow-up analytical procedures.

**Analytical procedures** Variability, Specificity, Sensitivity, predictive value. Quality control. Overall quality. Analytical data statistic evaluation.

### b) Practical part (two weeks)

#### Laboratory disease evaluation.

Lab diagnostic procedures relating to the following biological systems and organs: haematopoiesis; endocrine and metabolic control; immunitary reactions; haemostasis and fibrinolysis, infectious diseases; central nervous system; liver; kidneys, lungs, heart, bones. Lab diagnostic procedures for bacterial, viral, mycotic and parasitic infections. Pathogen evaluation on molecular and genetic basis. Antibacterial activity and antimicrobial therapy testing procedures. Lab diagnostic procedures relating to blood group systems analysis.

#### Recommended texts:

Widmann – Interpretazione clinica degli esami di laboratorio. McGraw- Hill, X ed., 1993

Federici, Cipriani et al. – Medicina di laboratorio. McGraw- Hill, I ed., 2000

AA. VV. Microbiologia clinica, Esculapio, 1991

R. Cevenini – Microbiologia clinica Piccin, 2002

## III YEAR- II Semester **FIRST BLOCK**

### Integrated course of **CARDIOVASCULAR DISEASES [ECTS Credits 4.0] + [ECTS Training Credits 2.0]**

(Lecture hours 30) (Tutorial activity hours 30)

### and Integrated course of **VASCULAR SURGERY AND HEART SURGERY [ECTS Credits 1.5 + 1.5] + [ECTS Training Credits 0.5 + 0.5] (Lecture hours 10 + 14) (Tutorial activity hours 2.5 + 3.5)**

Full Professors: **CALABRO'** Raffaele - e-mail: [raffaele.calabro@unina2.it](mailto:raffaele.calabro@unina2.it) , **COTRUFO** Maurizio - e-mail:

[maurizio.cotrufo@unina2.it](mailto:maurizio.cotrufo@unina2.it) , **PENTA DE PEPPO** Alfonso, **VOSA** Carlo - e-mail: [carlo.vosa@unina2.it](mailto:carlo.vosa@unina2.it)

Associate Professors: **CERASUOLO** Flavio - e-mail: [flavio.cerasuolo@unina2.it](mailto:flavio.cerasuolo@unina2.it) , **COMI** Lucia - e-mail:

[lucia.comi@unina2.it](mailto:lucia.comi@unina2.it) , **MATARAZZO** Angelo - e-mail: [angelo.matarazzo@unina2.it](mailto:angelo.matarazzo@unina2.it).

Assistant Professors: **IARUSSI** Diana, **RUSSO** Giovanna, **SANTANGELO** Lucio, **SANTE** Pasquale, **GIUGLIANO**

Maria Antonietta.

## Teaching programme

- Excitation-Contraction coupling
- Atrial Mechanics
- Isovolumetric Contraction
- Ejection Time
- Isovolumetric Relaxation
- Diastolic Ventricular Filling Period
- Pathophysiology of Blood Flow and Blood Vessel Wall Control (Neural, Hormonal, Auto-Regulation)

### Principles of Electrocardiography

### Anatomy and Pathophysiology of the Conduction System

- Bradyarrhythmias

### Pathophysiology of the Conduction System

- Tachyarrhythmias
- Arrhythmias caused by Ectopic Automatic Rhythms or Re-entry

### Heart Failure

- Pathophysiology and Clinic

### Principles of Open Heart Surgery

- Extra-Corporeal Circulation (ECC), Hypothermia, Peri-operative Monitoring

### Mechanical Support of Blood Flow and Cardiac Transplant

### Instrumental Techniques

- Chest Roentgenogram (CR)
- Computed Tomography (CT)
- Magnetic Resonance Imaging (MRI)

### Physiologic and Pathologic Anatomy of Pulmonary Circulation and Heart Valves

### Arterial Hypertension

### Pathophysiology of pulmonary circulation

- Physiology of pulmonary circulation
- Pulmonary embolism
- Pulmonary hypertension

#### Acquired Valvular Heart Disease (Therapy)

- Rheumatic Fever
- Aortic Stenosis and Regurgitation
- Mitral Stenosis and Regurgitation
- Pulmonary Stenosis and Regurgitation
- Tricuspid Stenosis and Regurgitation

#### Physiologic and Pathologic Anatomy of Coronary Circulation and Atrio-Ventricular Myocardium

##### Pathophysiology of Coronary Circulation:

- Physiology of Coronary Circulation and Atherosclerosis

##### Coronary Heart Disease (CAD):

- Coronary Syndromes (Stable and Unstable Angina)
- Myocardial Infarction (MI) and Complications

##### Nuclear Cardiology

- Myocardial Perfusion Scintigraphy (Single Photon Emission Computed Tomography, SPECT)
- Radionuclide Angiography (RNA)

##### Coronary Artery and MI Complications Surgery

##### Cardiomyopathies

- Hypertrophic cardiomyopathy
- Dilated Cardiomyopathy
- Restrictive Cardiomyopathy

##### Chronic Occlusive Vascular Disease of the Lower Extremities

##### Systemic Arterial Hypertension

##### Aneurysm, Dissection, Rupture of the Thoracic Aorta

##### Diseases of the Endocardium and the Pericardium: Pathologic Spectrum

- Endocarditis
- Endomyocardial Fibroelastosis
- Acute Pericarditis
- Chronic Constrictive Pericarditis

##### Acute Peripheral Vascular Disease

- Varicose Veins of the Lower Extremities
- Thrombophlebitis
- Deep Vein Thrombosis and Pulmonary Embolism

##### Classification and Pathophysiology of Congenital Cardiopathies

- Neonatal Heart Disease
- Paediatric Heart Disease
- Surgical Therapy of Congenital Cardiopathies

#### Recommended texts:

Reference material will be provided during the course

### III YEAR- II Semester **FIRST BLOCK**

#### **Integrated course of RESPIRATORY DISEASES [ECTS Credits 4.0] + [ECTS Training Credits 2.0]**

**(Lecture hours 30) (Tutorial activity hours 30)**

**and Integrated course of CHEST SURGERY, [ECTS Credits 1.5] + [ECTS Training Credits 0.5] (Lecture hours 14) (Tutorial activity hours 3.5)**

Full Professors: **MARSICO** Serafino - e-mail: [serafino.marsico@unina2.it](mailto:serafino.marsico@unina2.it) , **PASTORE** Vincenzo - e-mail: [vincenzo.pastore@unina2.it](mailto:vincenzo.pastore@unina2.it).

Associate Professors: **MARZO** Carlo - e-mail: [carlo.marzo@unina2.it](mailto:carlo.marzo@unina2.it) , **MAZZARELLA** Gennaro - e-mail: [gennaro.mazzarella@unina2.it](mailto:gennaro.mazzarella@unina2.it) , **SANTINI** Mario - e-mail: [mario.santini@unina2.it](mailto:mario.santini@unina2.it)

**General purpose of the course.** Identify the main changes in the respiratory system on the base of clinical, instrumental and laboratory data. Ability to prescribe the right medical treatment according to prevalence, of intervention and severity criteria.

#### **Teaching programme**

##### **RESPIRATORY DISEASES [ECTS Credits 4.0] + [ECTS Training Credits 2.0]**

1. Upper respiratory tract, pharynx and larynx pneumological disorders
2. Trachea and big bronchus disorders

3. Tracheo- bronchial and pulmonary diseases - Pulmonary tuberculosis
4. Pleural system disorders
5. Mediastinum disorders
6. Diaphragm disorders
7. Chest wall diseases
8. Respiratory diseases - Infectious disease
9. Asthma and Allergic Lung Diseases

**CHEST SURGERY [ECTS Credits 1.5] + [ECTS Training Credits 0.5]**

1. Surgical anatomy of the mediastinum, pulmonary circulation and respiratory tract
2. Mediastinum disorders
3. Diaphragmatic hernias
4. Tracheal, bronchial and pulmonary malformations
5. Pulmonary thromboembolism
6. Pneumothorax
7. Pleural effusion, thoracentesis
8. Bronchopulmonary surgery
9. Tracheal surgery
10. Emphysema surgical therapy
11. Lung transplant

**Recommended texts:**

Reference material will be provided during the course

**III YEAR- II Semester SECOND BLOCK**

**Integrated course of INFECTIOUS DISEASES [ECTS Credits 4,0] + [ECTS Training Credits 2,0] (Lecture hours 30) (Tutorial activity hours 30)**

Full Professors: **GALANTI** Bruno - e-mail: [bruno.galanti@unina2.it](mailto:bruno.galanti@unina2.it) , **PICCININO** Felice - e-mail:

[felice.piccinino@unina2.it](mailto:felice.piccinino@unina2.it)

Associate Professors: **ESPOSITO** Silvano – e-mail: [silvano.esposito@unina2.it](mailto:silvano.esposito@unina2.it) , **GAETA** Giovanni Battista, **PASQUALE**

Giuseppe – e-mail: [giuseppe.pasquale@unina2.it](mailto:giuseppe.pasquale@unina2.it), **RUSSO** Michele - e- mail: [michele.russo@unina2.it](mailto:michele.russo@unina2.it)

Assistant Professors: **FELACO** Francesca, **GALANTE** Domenico, **NARDIELLO** Salvatore.

**General purpose of the course.** Acquire knowledge of more frequent infectious diseases and of the main imported and tropical infectious diseases. Receive a basic training for the management of infectious diseases. Identify the clinical and laboratory data requiring hospital admission. Study the pathogenetic, clinical, diagnostic and epidemiological data for therapeutic and prophylactic purposes.

**Teaching programme**

Acute Viral Hepatitis HAV, HBV, HDV, HCV.

Chronic Viral Hepatitis HBV, HDV, HCV.

Mononucleosis. Cytomegalovirus infection. Herpes Simplex Virus infection. Varicella-Zoster Virus infection. Boutonneuse fever and other Rickettsial diseases. Rubella. Influenza and secondary infections. SARS. Typhoid fever.

Enterocolitis: other Salmonella spp. – Shigellosis - E. Coli - Cholera

Brucellosis. Urinary Tract Infections. Erysipelas. Other streptococcal infections. Meningitis. Encephalitis. Tetanus.

Botulism. Toxoplasmosis. Leishmaniasis. HIV Infection. AIDS, Opportunistic infections. Malaria. Amebiasis. Hydatid disease. Teniasis. Cystocercosis. Intestinal Nematode Infections (Ancylostomiasis, Ascariasis, Pinworm).

**Recommended texts:**

Reference material will be provided during the course

**III YEAR- II Semester SECOND BLOCK**

**Integrated course of SURGICAL BRANCH CLINIC I [Total ECTS Credits 4,0] + [Total ECTS Training Credits 2,0] Medical Oncology - Blood diseases**

Associate Professors: **CATALANO** Giuseppe – e-mail: [giuseppe.catalano@unina2.it](mailto:giuseppe.catalano@unina2.it) , **CIARDIELLO** Fortunato – e-mail:

[fortunato.ciardiello@unina2.it](mailto:fortunato.ciardiello@unina2.it), **TIRELLI** Angelo – e-mail: [angelo.tirelli@unina2.it](mailto:angelo.tirelli@unina2.it)

Assistant Professors: **DELLA VITTORIA SCARPATI** Michele, **DE VITA** Fernando, **ABBADESSA** Antonio.

**Teaching programme**

**Medical Oncology [ECTS Credits 2,0] + [ECTS Training Credits 1,0] (Lecture hours 15) (Tutorial activity hours 5)**

### **Blood diseases [ECTS Credits 2.0] + [ECTS Training Credits 1.0] (Lecture hours 15) (Tutorial activity hours 5)**

Principles of tumour biology: mechanisms of cellular transformation, invasion and metastasis.

Epidemiology of cancer.

Cancer prevention: chemoprevention; cancer screening.

Clinical approach to cancer patients: diagnosis, staging, planning of treatment.

Principles of cancer treatment: role of radiotherapy, surgery and medical treatments.

Principles of medical cancer treatments: rational basis of medical treatment; adjuvant therapy; neoadjuvant therapy (primary systemic therapy); chemotherapy; hormone therapy; novel molecular targeted therapies of cancer. This includes for each modalities the basic knowledge of the most relevant drugs. Side effects of cancer treatments. Principles of supportive care. Principles of clinical trials methodology in Oncology.

Diagnosis, staging and treatment of the following cancers: breast cancer; gastrointestinal cancers (including esophageal cancer, gastric cancer, pancreatic cancer, colorectal cancer); lung cancer; prostate cancer; ovarian cancer; testicular cancer; renal cancer; melanoma.

#### **Recommended texts:**

Reference material will be provided during the course

### **III YEAR- II Semester SECOND BLOCK**

#### **Integrated course of VISUAL SYSTEM DISEASES [ECTS Credits 1.5] + [Total ECTS Training Credits 0.5] (Lecture hours 15) (Tutorial activity hours 2.5)**

Full Professors: **BIFANI** Mario – e-mail: [mario.bifani@unina2.it](mailto:mario.bifani@unina2.it) , **RINALDI** Ernesto – e-mail: [ernesto.rinaldi@unina2.it](mailto:ernesto.rinaldi@unina2.it),

Associate Professors: **COTTICELLI** L., **LANDOLFO** V., **RUSSO** S., **SIMONELLI** F.;

Assistant Professors: **ALBINI** L., **COLACI** C., **FUSCO** G., **LIBONDI** T., **PASCOTTO** F., **SBORDONE** S.

Coordinator: **RINALDI** Ernesto – e-mail: [ernesto.rinaldi@unina2.it](mailto:ernesto.rinaldi@unina2.it).

**General purpose of the course.** Ability to identify the most frequent visual system diseases and relevant therapies as well as conditions requiring specialist examination.

#### **Teaching programme**

##### **Orbit, lachrymal system and eyelid diseases.**

Exophthalmus, enophthalmos, orbital traumas and tumours. Lachrymal secretion physiopathology. Lachrymal gland inflammatory and neoplastic diseases. Lachrymal excretion system pathology. Eyelid congenital and acquired anomalies, blepharitis, eyelid traumas and tumours.

##### **Conjunctiva and sclera diseases.**

Infectious and allergic conjunctivitis, Degenerative, traumatic and neoplastic diseases of the conjunctiva. Sclera inflammatory diseases.

**Cornea diseases:** Infectious keratitis. Neuroparalytic keratitis. Corneal degenerations. Keratoconus. Traumatic lesions. Corneal graft.

##### **Endocular pressure changes.**

Endocular pressure and aqueous humour physiopathology. Diagnosis and treatment of primary, secondary and congenital glaucoma.

**Crystalline diseases.** Ectopia. Cataract.

##### **Uvea diseases.**

Uveitis and endophthalmitis. General - diseases- associated uveitis. Tumours.

##### **Retinal disorders.**

The ocular fundus in internal medicine. Retinitis. Degenerative and vascular retinopathies. Detachment of the retina. Tumours.

#### **Recommended texts:**

Reference material will be provided during the course

### **IV YEAR- I Semester THIRD BLOCK**

#### **Integrated course of GASTROENTEROLOGY [ECTS Credits 3,0] + [ECTS Training Credits 2.0] (Lecture hours 20) (Tutorial activity hours 15)**

Full Professor: **CARRATÙ** Romano – e-mail: [romano.carratu@unina2.it](mailto:romano.carratu@unina2.it) .

Associate Professors: **RIEGLER** Gabriele – e-mail: [gabriele.riegler@unina2.it](mailto:gabriele.riegler@unina2.it) , **CAVALLO** Giovanni – e-mail: [giovanni.cavallo@unina2.it](mailto:giovanni.cavallo@unina2.it) .

Assistant Professor: **de MAGISTRIS** Laura.

#### **Teaching programme**

### **Oesophageal diseases**

- Achalasia
- Diverticula and complications
- GERD-NERD
- Barrett oesophagus, oesophagus adenocarcinoma and squamocellular carcinoma
- Caustic strictures

### **Gastroduodenal diseases**

- Dyspepsia
- Gastroduodenal ulcer and complications
- Erosive gastropathy
- Acute and chronic gastritis
- Gastric cancer
- Gastric lymphoma
- Upper GI bleeding

### **Hepatobiliary diseases**

- Acute and chronic hepatitis
- Liver cirrhosis and its complications (ascites, portal hypertension, hepatic encephalopathy, etc)
- Liver tumor
- Cholelithiasis and its complications (hydrops, empyema, etc)
- Liver transplant

### **Pancreatic diseases**

- Acute pancreatitis and complications
- Chronic pancreatitis
- Pancreatic cancer
- Neuroendocrine tumors

### **Intestinal diseases**

- Coeliac disease
- Irritable bowel syndrome (IBS)
- Inflammatory bowel diseases (IBD)
- Constipation
- Diarrhoea (classification and differential diagnosis)
- Diverticular disease and complications
- Lower GI bleeding
- Benignant and malignant colorectal tumors
- Intestinal lymphoma
- Acute abdomen and bowel obstruction

### **GI hormones an neuroendocrine tumors**

- Zollinger-Ellison syndrome
- Carcinoid syndrome
- VIPOMA

### **Rectum and anus diseases**

- Haemorrhoids and chinks
- Abscesses and fistulas
- Rectal prolapse and rectocele

### For each topic, students have to develop the following:

- Definition and classification
- Etiology
- Pathogenesis
- Clinical signs
- Diagnosis
- Medical and surgical therapy (etiological and symptomatic)
- Prophylaxis

### **Recommended texts:**

Reference material will be provided during the course

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## **IV YEAR- I Semester THIRD BLOCK**

### **Integrated course of ENDOCRINOLOGY AND METABOLIC DISEASES [Total ECTS Credits 4.5] + [ECTS Training Credits 1.5] (Lecture hours 30) (Tutorial activity hours 8.5)**

Full Professors: **BELLASTELLA** Antonio – e-mail: [antonio.bellastela@unina2.it](mailto:antonio.bellastela@unina2.it), **GIUGLIANO** Dario – e-mail: [dario.giugliano@unina2.it](mailto:dario.giugliano@unina2.it)

Associate Professors: **ESPOSITO** Vincenzo, **SINISI** Antonio Agostino – e-mail: [antonio.sinisi@unina2.it](mailto:antonio.sinisi@unina2.it).

Assistant Professor: **AMORESANO-PAGLIONICO** Vanda, **CRISCUOLO** Tullio, **de BELLIS** Annamaria, **PISANO** Gustavo, **QUARTO** Cesare, **VENDITTO** Teresa, **VERRILLO** Antonio.

**General purpose of the course.** Knowledge of the physiological principles regulating hormonal and metabolic functions, and of physiopathological mechanisms responsible of endocrine and metabolic dysfunctions. Acquisition of clinical methodology and knowledge of laboratory and instrumental procedures to identify the endocrine and metabolic diseases. Basic knowledge of main therapeutic protocols allowing to treat the endocrine and metabolic pathologies.

#### **Teaching program**

- Hypothalamus and pituitary gland disorders
- Pituitary tumours
- Hypothyroidism and hyperthyroidism
- Goitre and thyroid tumours
- Thyroiditis
- Parathyroid gland disorders.
- Adrenal gland disorders.
- Adrenal gland tumours
- Female gonadal disorders.
- Male gonadal disorders.
- Gonadal tumours.
- Diabetes mellitus.
- Acute and chronic complications of diabetes.
- Hypoglycaemia.
- Dyslipidemia
- Gout and other metabolic disorders
- Obesity

**Exams:** Examinations will be carried out by means of an oral test dealing with questions on the theory of the topics of the course.

#### **Recommended texts:**

1. Bellastella, Fenzi, Giugliano Lombardi, Riccardi : Compendio di Endocrinologia e Malattie del Ricambio, Ed Idelson-Gnocchi.
2. Greenspan: Basic & Clinical Endocrinology, Appleton & Lange (disponibile ediz. italiana)

### **IV YEAR- I Semester **THIRD BLOCK****

**Integrated course of SURGICAL BRANCH CLINIC II [Total ECTS Credits 2.5] + [ECTS Training Credits 1.5] (Lecture hours 24)**

#### **(DIGESTIVE SURGERY, ENDOSCOPIC SURGERY, UROLOGY)**

Full Professors: **D'ARMIENTO** Massimino- e-mail: [massimino.darmiento@unina2.it](mailto:massimino.darmiento@unina2.it) ,

Associate Professors: **PEZZULLO** ANGELO- e-mail: [angelo.pezzullo@unina2.it](mailto:angelo.pezzullo@unina2.it)- e-mail: [ani@unina2.it](mailto:ani@unina2.it).

Assistant Professor: **GIORDANO** Dario Ranieri,

**General purpose of the course.** To know the principles, the methodologies, the indications and the side effects of the diagnostic instrumental endoscopy and laparoscopy and the therapeutic possibilities mininvasive in the various fields of digestive the pathology, as well as the possibilities of endoscopic palliation in oncology. - Identify the main changes in the digestive and urinary systems on the base of clinical, instrumental ad laboratory data. Ability to prescribe the right medical treatment according to prevalence, emergency, possibility of intervention and severity criteria. - To Know the definition and pathophysiology of diseases of surgical interest of the digestive tract with the aim to understand the origin of signs and symptoms. To Know the Etiology and pathogenesis. To Know the instrumental and laboratory methodologies with regard to the concept of cost-effectiveness (diagnostic strategies). To know the specific clinical features even related to the involvement of other anatomic-functional regions of the abdomen. Lessons represent the main teaching methodology and will be kept with the aid of adequate audio-visual means, with short movies and clinical-diagnostic flow-charts. Self valuation tests will be kept at the end of each lesson.

#### **Teaching program**

**DIGESTIVE SURGERY [ECTS Credits 1.0] + [ECTS Training Credits 0.5]**

#### **ESOPHAGEAL PATHOLOGY**

Motor disorders of the esophagus. Achalasia. Gastro-esophageal reflux disease and Barrett's esophagus. Esophageal diverticula (Zenker, midesophageal, epiphrenic). Esophageal caustic injuries and complications - Esophageal neoplasms

#### **GASTRO-DUODENAL PATHOLOGY**

Gastric e duodenal ulcer. Peptic ulcer complications. Gastric and duodenal neoplasms.

#### LIVER AND BILIARY PATHOLOGY

Gallbladder and biliary tract lithiasis. Complications of gallbladder lithiasis. Stricture of ampullary region. Liver and biliary neoplasms. Portal hypertension.

#### PANCREATIC AND SPLEEN PATHOLOGY

Acute pancreatitis and complications. Chronic pancreatitis. Pancreatic neoplasms. Spleen diseases of surgical interest

#### SMALL BOWEL PATHOLOGY

Crohn's disease and complications of surgical interest. Small bowel neoplasms.

#### COLON PATHOLOGY

Acute appendicitis - Colon diverticulosis and complications. Surgical complications of ulcerative colitis. Colorectal cancer. Benignant anorectal pathology (anal fistulas, hemorrhoids, fissures). Intestinal obstruction (mechanic ileus, adynamic ileus)

#### ENDOSCOPIC SURGERY [ECTS Credits 0.5] + [ECTS Training Credits 0.5]

Historical signs on the endoscopic surgery. Equipments and accessories for endoscopy. The laparoscopy. Indications and side effects of the endoscopic examinations. The patient's preparation to the endoscopic examination. The endoscopy of the digestive superior line. The endoscopy of the digestive inferior line. The endoscopy of the biliary tract and the pancreas. The endoscopy in emergency. Intraoperative endoscopy. Ecoendoscopy. Interventional endoscopy.

#### UROLOGY [ECTS Credits 1.0] + [ECTS Training Credits 0.5]

Semeiotics in Urology. Urogenital malformations. Urinary tract infections; Urogenital tuberculosis; Sexually transmitted disease: epidemiology and clinical features. Urolithiasis: physiopathology and clinical features. Obstructive uropathy: physiopatology and main clinical pictures. BPH: physiopathology and clinical manifestations. Urinary incontinence and genital prolapse; epidemiology, physiopathology and main clinical features. Erectile dysfunction, Induratio penis plastica and urological aspects of male infertility: epidemiology, physiopathology and clinical features. Renal masses and renal cell carcinoma: physiopathology and main clinical manifestations. Prostate cancer: physiopathology and main clinical manifestations. Bladder cancer and upper urinary tract urothelial cancer: physiopathology and main clinical manifestations. Testicular cancer: physiopathology and main clinical manifestations. Penile cancer: physiopathology and main clinical manifestations. Main urological emergencies: physiopathology and clinical features of testicular torsion, urogenital trauma and priapism

#### Recommended texts:

- Illnesses of digestive the apparatus - UNIGASTRO Ed. UTET
- Elements of Diagnostic and endoscopic surgery of digestive the apparatus - IDELSON NA
- R. Dionigi. Chirurgia-Basi teoriche e Chirurgia generale- Ed. MASSON
- L. Gallone. Trattato di Patologia Chirurgica.

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#### IV YEAR- I Semester **FOURTH BLOCK**

#### Integrated course of **PSYCHIATRY, INFANT PSYCHIATRY AND CLINICAL PSYCHOLOGY [Total ECTS Credits 7.5] + [Total ECTS Training Credits 1.5]**

Full Professors: **MAJ** Mario – e-mail: [mario.maj@unina2.it](mailto:mario.maj@unina2.it), **PASCOTTO** Antonio – e-mail: [antoniopascotto@unina2.it](mailto:antoniopascotto@unina2.it)

Associate Professors: **GALDERISI** Silvana – e-mail: [silvana.galderisi@unina2.it](mailto:silvana.galderisi@unina2.it), **CATAPANO** Francesco, **VACCA** Lucio.

Assistant Professor: **COPPOLA** Giangennaro, **GRITTI** Antonella, **RICCIARDI** Cristina

**General purpose of the course.** Ability to identify the main psychiatric clinical syndromes and behavioural disorders and to prescribe appropriate psychological and drug therapies.

#### Teaching programme

#### **PSYCHIATRY [ECTS Credits 5.0] + [ECTS Training Credits 1.0]**

**(Lecture hours 40) (Laboratory works hours 15) (Tutorial activity hours 5)**

- General Psychopathology
- Psychic examination, psychiatric interview and clinical records
- Psychotic Disorders
- Delirium and Dementia
- Mood Disorders
- Phobias
- Panic Disorder
- Obsessive-Compulsive disorder
- Somatoform Disorders
- Eating Disorders
- Personality Disorders

- Cognitive-Behavioral Psychotherapies
- Analytic Psychotherapies
- Antipsychotic drugs
- Antidepressant and mood stabilizing drugs
- Anxiolytic drugs
- Aggressive and suicidal behaviour: recognition and prevention
- Organization of psychiatric services and relevant regulation in Italy
- Psychoeducational intervention in psychiatric patients and their families

### **INFANT PSYCHIATRY [ECTS Credits 1.5] + [ECTS Training Credits 0.5]**

**(Lecture hours 10) (Tutorial activity hours 7.5)**

- Epilepsy in childhood and adolescence
- Attention deficit hyperactivity disorder
- Mental retardation
- Pervasive developmental disorder
- Cerebral Palsy
- Neuromuscular diseases
- Eating disorder in childhood and adolescence
- Learning Difficulties
- Anxiety Disorders in childhood and adolescence
- Enuresis and Encopresis
- Psychiatric Aspects of somatic disease in childhood and adolescence

### **CLINICAL PSYCHOLOGY [ECTS Credits 1.0] (Lecture hours 10)**

**(See above)**

Recommended texts:

- Kaplan and Sadock's Synopsis of Psychiatry; Behavioral Sciences, Clinical Psychiatry, 7th Edition; Italian Translation, Centro Scientifico Internazionale srl, Torino

- Libri: Militerni R: Neuropsichiatria Infantile. Idelson-Gnocchi Editore, Napoli, 2001

Marceli D.: Psicopatologia del bambino. Ed

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## **IV YEAR- I Semester **FOURTH BLOCK****

### **Integrated course of NERVOUS SYSTEM DISEASES [Total ECTS Credits 7.0] + [Total ECTS Training Credits 2.0] (Neurology, Neurosurgery and Neuroradiology)**

Full Professors: **COTRUFO** Roberto – e-mail: [roberto.cotrufo@unina2.it](mailto:roberto.cotrufo@unina2.it) , **BERNINI** Francesco Paolo, **MORACI** Aldo – e-mail: [aldo.moraci@unina2.it](mailto:aldo.moraci@unina2.it) .

Associate Professors: **TATA** Mariarossana, **MELONE** Mariarosa Anna Beatrice, **ROTONDO** Michele

Assistant Professors: **D'AVANZO** Raffaele, **SCUOTTO** Assunta, **PUOTI** Gianfranco

#### **Teaching programme**

Introduction to clinical Neurology

Introduction to Neurosurgery

Main mechanisms of Nervous System and Skeletal Muscle dysfunction

Radiological neuro-anatomy

Neurophysiopathology of consciousness

Ischemic cerebrovascular disease

Hemorrhagic cerebrovascular disease

Neurodegenerative dementias

Cranio-cerebral traumas

Prion diseases and neuro-AIDS

Spinal and radicular traumas and compressions

Neuro-degenerative movement disorders - Parkinson and Parkinson plus

Main genetic diseases of Central Nervous System

Cranio-encephalic and spinal malformations

Hereditary-degenerative diseases of Peripheral Nervous System

Neuro-oncology

Immuno-mediated diseases of Nervous System and skeletal muscle

Hereditary-degenerative diseases of skeletal muscle

Meningitis and encephalitis

Toxic and metabolic encephalo-neuro-myopathies

Paroxysmal conditions in Neurology –Epilepsia

Paroxysmal conditions in Neurology – Headache and primitive neuralgias  
Spondylogenic myelo-radiculopathies  
Principles of neuro-rehabilitation

**Educative aims :**

**Neurology (seen - done - able to do) [ECTS Credits 5.0] + [ECTS Training Credits 1.0]**  
**(Lecture hours 40) (Laboratory works hours 15) (Tutorial activity hours 5)**

EEG (seen)

ENMG (seen)

Trans-cranic Doppler (seen)

Lumbar puncture (seen)

Neurological examination (seen)

Fundus oculi examination (seen)

Neurological anamnesis (able to do)

Valuation of consciousness, muscle strength, tendon reflexes, equilibrium (balance) and main cognitive functions (able to do)

**Neurosurgery (seen - done - able to do) [ECTS Credits 1.0] + [ECTS Training Credits 0.5]**  
**(Lecture hours 10)**

Lumbar puncture (seen)

Medications (done)

Removing sutures (able to do)

Interpretation of focal cerebral signs and symptoms of:

    endocranic hypertension (seen)

    spinal cord compression (seen)

    radicular compression (seen)

    plexic compression (seen)

    peripheral nerves compression (seen)

Craniotomy (seen)

Laminectomy (seen)

Individuation of signs and symptoms for emergency neurosurgery (able to do)

**Neuroradiology (seen - done - able to do) [ECTS Credits 1.0] + [ECTS Training Credits 0.5]**  
**(Lecture hours 10)**

RX Cranium (seen)

CT brain scan (seen)

CT scan of spine (seen)

MRI of brain (seen)

MRI spinal cord (seen)

Interpretation of anatomy of CNS by neuroimaging (done and able to do)

Participation to discussion on clinical cases to define neuroradiologic diagnostic protocols (done and able to do)

**Recommended texts:**

- Bergamini, Bergamasco, Mutani: Manuale di neurologia clinica; Ed. Libreria Cortina – Torino (III Edition, 2000)

- Bonavita V., Di Iorio G.: Neurologia clinica; Ed. Medico Scientifiche – Torino

- Cambier J., Masson M., Dehen H.: Neurologia (IX Edition, 2001)

**Optional Texts:**

- Scotti: Manuale di neuroradiologia diagnostica e terapeutica; Masson

- Moraci A., Parlato C.: Neurochirurgia; E.Di.S.U. – Caserta, 1997-1998

- D'Avanzo R.: Elementi di neurochirurgia; Eurocomp, 2000

- Giuffrè R., Brunori A: Argomenti di neurochirurgia Ed. ERRE

**IV YEAR- II Semester FIFTH BLOCK**

**Integrated course of MOUTH DISEASES, MAXILLOFACIAL SURGERY, OTORINOLARYNGOLOGY and AUDIOLOGUY [Total ECTS Credits 2.0] + [Total ECTS Training Credits 1.0]**

Full Professors: **TARTARO** Sergio – e-mail: [sergio.tartaro@unina2.it](mailto:sergio.tartaro@unina2.it) , **MOTTA** Gaetano – e-mail:

[gaetano.motta@unina2.it](mailto:gaetano.motta@unina2.it)

Associate Professors: **BARILLARI** Umberto – e-mail: [Umberto.barillari@unina2.it](mailto:Umberto.barillari@unina2.it), **D'ANGELO** Luigi – e-mail:

[luigi.dangelo@unina2.it](mailto:luigi.dangelo@unina2.it)

Assistant Professors: **COSTA** Giuseppe, **D'AMATO** Salvatore, **MESOLELLA** Carlo, **TRICARICO** Davide, **PAGANO LEONETTI** Gianni.

**General purpose of the course.** The students have to know the more frequent and more important oral and head-neck pathologies. To identify the signs and the symptoms of the most important oral and maxillo-facial pathologies and their correlations with the systemic diseases; to be able to treat and to identify oral and maxillo-facial pathologies that need therapies of other specialists, previous a precocious diagnosis To reach at the end of course a good competence to treat the main oral and maxillo-facial pathologies and emergency.

Knowledge of the major otolaryngological diseases; instrumental diagnosis and clinical approach methodology on the base also of evidence medicine; major medical, surgical and rehabilitative therapeutic procedures.

#### **Teaching programme**

##### **Mouth Diseases [ECTS Credits 0.5] (Lecture hours 5) and Maxillofacial Surgery [ECTS Credits 0.5] (Lecture hours 5).**

Oral and Maxillo-Facial Anatomy - Clinical and Instrumental Semeiotic - Carious Pathology and its complications (Abscesses and phlegmons, osteomyelitis, cysts, dental sinusitis, trigeminal neuralgia) - Periodontium Pathology - Dental Inclusions - Oral Soft Tissue Pathology - A.T.M. Pathology. Oral Oncology: Benign and Malignant Tumours (aetiology, diagnosis, therapy, prevention and early diagnosis) - Lymph nodes Pathology. Dental and Maxillo-facial Traumatology (diagnosis, emergency therapy, therapy, complications). Salivary Glands Pathology (Differential diagnosis, therapy, complications). Maxillo-Facial Deformities - Maxillo-Facial Dysplasias (embryology, anatomy, classification, diagnosis, therapy)

**Objectives of the theoretical-practice Didactics:** The student has to know how to pick up the clinical history and to perform the clinical examination of the patient. He has to know how to perform cytological and histological biopsy and to ask the necessary and opportune laboratory and instrumental investigations. He has to know how to treat traumatized patient, neoplastic and malformed, to be able to program an emergency and normal treatment.

##### **Otolaryngology [ECTS Credits 0.5] + [ECTS Training Credits 0.5] (Lecture hours 5) and Audiology [ECTS Credits 0.5] + [ECTS Training Credits 0.5] (Lecture hours 5)**

**Acoustic and instrumental assessment.** Basics of acoustic physics - Sound measurement - Ear anatomy - Auditory periphery physiological acoustics Neurophysiology of the auditory system - Neurophysiology of the vestibular system - Introduction to psychoacoustics Basic audiologic testing - Acoustic immittance assessment - Electrophysiological tests - Central auditory tests - Electronystagmography - Vestibular assessment - Hearing aids and cochlear implants - Basics of speech therapy - Clinical issues

**Ear disorders:** external: otitis, foreign bodies - middle: otitis, otosclerosis. - internal: Meniere's disease, benign positional paroxysmal vertigo, acoustic neuroma

**Nose and paranasal sinuses disorders:** acute and chronic rhinitis - acute and chronic sinusitis - atrophic rhinopathy (ozena) - epistaxis - nasal septum deviation - foreign bodies -

**Rhinopharynx:** adenoids hypertrophy - tumours - Oropharynx - Acute and chronic tonsillitis

**Larynx:** Acute and chronic laryngitis - Pre-malignant tumours - Vocal nodules and polyps - Malignant tumours - Laryngeal paralysis - Dysfunctional dysphonia -

**Trachea.** Tracheotomy and tracheostomy

#### **Recommended texts:**

Tartaro S., Colella G., *Chirurgia Odontostomatologica Illustrata*, Ed. Piccin

De Michelis B., Re G., *Trattato di Clinica Odontostomatologica*, Ed. Minerva Medica

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### **IV YEAR- II Semester FIFTH BLOCK**

#### **Integrated course of SKIN DISEASES [ECTS Credits 2.0] + [ECTS Training Credits 0.5] (Lecture hours 20) (Laboratory works hours 12.5)**

Full Professors: **RUOCCO** Vincenzo - e-mail: [vincenzo.ruocco@unina2.it](mailto:vincenzo.ruocco@unina2.it)

Associate Professors: **ARGENZIANO** Gabriele - e-mail: [gabriele.argenziano@unina2.it](mailto:gabriele.argenziano@unina2.it), **ROSSI** Antonio - e-mail: [antonio.rossi@unina2.it](mailto:antonio.rossi@unina2.it),

Assistant Professors: **GUERRERA** Vincenzo, **JURASSICH** Stefano, **LO SCHIAVO** Ada.

**General purpose of the course.** Ability to identify the most frequent skin and venereal diseases and relevant therapies as well as conditions requiring specialist examination.

#### **Teaching programme**

Anatomy and Physiology of the skin. Principles of Dermatohistopathology. Basic cutaneous lesions. Psoriasis. Seborrheic dermatitis. Atopic eczema. Allergic contact eczema. Urticaria. Acne. Rosacea. Pyodermas. Skin tuberculosis. Leprosy. Dermatofungal infections. Cutaneous parasitosis (cutaneous leishmaniasis, scabies, pediculosis and other parasitological manifestations). Viral cutaneous infections (herpes simplex, herpes zoster, warts, viral papilloma, condylomata acuminata, molluscum contagiosum). Pityriasis rosea. Pemphigus and bullous diseases of the pemphigoid group. Dermatitis herpetiformis. Lichen planus. Erythema multiforme and similar syndromes. Discoid lupus erythematosus.

Systemic lupus erythematosus. Morphea. Progressive systemic scleroderma. Dermatomyositis. Alopecias. Vitiligo. Sarcoidosis. Precanceroses. Basal cell carcinoma. Squamous cell carcinoma. Nevocytic nevus and malignant melanoma. Kaposi's sarcoma. Mycosis fungoides. Syphilis. Gonorrhoea. Non-gonococcal urethritis. Chancroid.

### Practical fundamentals

Microscopic identification of cutaneous parasitic mycetes and mites.  
Culture examination for dermatophytes and yeasts (Candida)  
Direct microscopic examination of urethral and vaginal exudation in venereal diseases.  
Tzanck cytodiagnostic examination of the skin and visible mucosae: indications and limits.  
Patch tests in dermatological practice.  
Syphilis serology: interpretation of laboratory tests.  
Fundamentals of physical dermatological therapy.

### Recommended texts:

- Alessi E., Caputo R.: Dermatologia e Malattie a Trasmissione Sessuale. Raffaello Cortina Editore (Milano), 1999.
- Amerio P., Bernengo M.G., Calvieri S., Chimenti S., Pippione M.: Dermatologia e Venereologia. Ed. Minerva Medica (Torino), 2003.
- Cainelli T., Giannetti A., Rebora A.: Manuale di Dermatologia Medica e Chirurgica. Mc Graw-Hill Libri Italia srl (Milano), 2000.

## IV YEAR- II Semester **SIXTH BLOCK**

**Integrated course of RHEUMATOLOGY IMMUNOLOGICAL SYSTEM [Total ECTS Credits 3.5] + [ECTS Training Credits 2.0]**

**Rheumatology [ECTS Credits 2.5] + [Training Credits 1.0] - (Lecture hours 24) (Laboratory works hours 6) (Tutorial activity hours 2.5)**

**Immunological System [ECTS Credits 1.0] + [Training Credits 1.0] - (Lecture hours 10)**

Full Professors: **VALENTINI** Gabriele – e-mail: [Gabriele.valentini@unina2.it](mailto:Gabriele.valentini@unina2.it),  
Associate Professors: **ASTARITA** Corrado, **BONINI** Sergio, **MIGLIARESI** Sergio,  
Assistant Professors: **AMBROSONE** Lucia, **SACERDOTI** Guido, **TIRRI** Rosella.

**General purpose of the course.** To provide the scientific basis of immune mechanisms responsible for tolerance, immunity and clinical hypersensitivity as well as of genetic and environmental factors influencing them. To provide guidelines for a correct clinical approach to diagnosis, management and prevention of allergic, immunologic and rheumatic diseases. **Background.** Allergic, immunologic and rheumatic diseases represent morbid conditions with a high prevalence, causing individual disability and significant social costs because of their frequent chronic and progressive course. Scientific information in this area is increasing rapidly, and demands adequate, up-dated teaching programmes.

### Teaching programme

#### Allergology and Clinical Immunology

- Immune mechanisms responsible for immunity, hypersensitivity and tolerance
- Immunodeficiencies
- Allergic diseases (Asthma; Rhinitis; Conjunctivitis; Urticaria-Angioedema; Atopic eczema; Anaphylaxis)
- Immunological aspects of transplantation and cancer
- In vitro diagnostic tests
- Vaccinations and Immune Response Modifiers

#### Rheumatic diseases

- Infectious arthritis
- Post-infectious and reactive arthritis (including rheumatic fever)
- Seronegative spondyloarthritis
- Rheumatoid arthritis
- Systemic autoimmune rheumatic diseases (connective tissue diseases and vasculitis).
- Polymyalgia rheumatica
- Fibromyalgia and other extrarticular rheumatic syndromes
- Osteoarthritis
- Gout and crystal deposition diseases
- Bone diseases
- Laboratory and instrumental investigation in rheumatic diseases
- Therapeutic approach to the rheumatic diseases

### Recommended texts:

Primer on Allergic and Immunologic Diseases. *J Allergy Clin Immunol* 2003; 11: Suppl. No.2: S441-S778.

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**IV YEAR- II Semester SEVENTH BLOCK**

**Integrated course of LOCOMOTOR SYSTEM DISEASES – PHYSICAL AND REHABILITATIVE MEDICINE [Total ECTS Credits 4.0] + [Total ECTS Training Credits 2.0]**

Full Professors: **GUIDA** Giuseppe – e-mail: [giuseppe.guida@unina2.it](mailto:giuseppe.guida@unina2.it), **GIMIGLIANO** Raffaele – e-mail: [raffaele.gimigliano@unina2.it](mailto:raffaele.gimigliano@unina2.it), **RICCIO** Vincenzo – e-mail: [vincenzo.riccio@unina2.it](mailto:vincenzo.riccio@unina2.it), **ZANCHINI** Massimo – e-mail: [massimo.zanchini@unina2.it](mailto:massimo.zanchini@unina2.it).

Associate Professors: **AFFAITATI** Pietro, **GATTO** Salvatore, **RONCA** Dante.

Assistant Professors: **CAPASSO** Vincenzo, **CELENTANO** Vincenzo, **FARACO** Ugo, **IORIO** Luciana, **TIRELLI** Armando, **ZANCHINI** Fabio.

**General purpose of the course.** Ability to identify the most frequent locomotor system diseases and relevant therapies as well as conditions requiring specialist examination.

**Teaching programme**

- Congenital dysplasia of hip joint
- Congenital twisted foot
- Wryneck
- Osteochondrosis Obstetric traumas
- Vertebral deformity
- Spinal disk pathologies
- Arthrosis
- Osteomyelitis-osteoarthritis
- Bone tumours
- Generality on the traumas
- Non traumatic pathologies of the shoulder
- Vertebral fractures
- Traumas of the hip and the pelvis
- Fractures of the inferior extreme of the femoral bone
- Patellar fractures
- Knee joint sprain
- Fractures of the superior extreme of the shin
- Traumas of the ankle
- Traumas of the heel
- Shoulder dislocation
- Fractures of the clavicle
- Fractures of the third superior of the humerus
- Fractures of the elbow
- Fractures of the third inferior of the radius;fractures of the naviculare
- The rehabilitation in the pathologies of the locomotor apparatus
- The orthopaedic examination.

**Recommended texts:**

Reference material will be provided during the course

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**IV YEAR- II Semester EIGHTH BLOCK**

**Integrated course of NEPHROLOGY [ECTS Credits 4.0] + [ECTS Training Credits 1.5] (Lecture hours 20) (Laboratory works hours 10) (Tutorial activity hours 10)**

Full Professors: **CONTE** Giuseppe – e-mail: [giuseppe.conte@unina2.it](mailto:giuseppe.conte@unina2.it), **DE SANTO** Natale G. – e-mail: [natale.desanto@unina2.it](mailto:natale.desanto@unina2.it)

Associate Professors: **CIRILLO** Domenico, **CIRILLO** Massimo, **DE NICOLA** Luca.

Assistant Professors: **CALDERARO** Vincenzo, **MINUTOLO** Roberto, **PERNA** Alessandra.

**General purpose of the course.** The course lasts 12 weeks (two lessons/week). The lessons last 45 min and are given in the morning. In the afternoon of the same day the students are divided in small groups for exercitations on the practical aspects related to the morning lesson.

**Teaching programme**

Symptoms and signs of kidney disease  
Laboratory investigations in nephrology  
Haematuria: types and causes  
Proteinuria: types and causes  
Primary glomerular diseases (1)  
Primary glomerular diseases (2)  
Secondary glomerular diseases  
The kidney biopsy  
Diabetic nephropathy  
Infections of the urinary tract  
Urinary stone disease  
Cystic kidney diseases and other genetic nephropathies  
Hypertension secondary to kidney disease  
Chronic renal failure  
Acute renal failure  
Tubular diseases  
Metabolic acidosis and metabolic alkalosis  
Disorders of sodium and potassium homeostasis  
Disorders of calcium homeostasis  
Primary hypertension: the nephrologist's point of view  
Principles of kidney transplantation  
Principles of immunosuppressive treatment  
Principles of antihypertensive treatment  
Principles of treatment of disorders of water and electrolytes

#### Recommended texts:

Reference material will be provided during the course

**V YEAR- I Semester [ECTS Credits 4.0] + [ECTS Training Credits 1.0] (Lecture hours 30) (Tutorial activity hours 10) and V YEAR- II Semester [ECTS Credits 4.0] (Lecture hours 30) (Tutorial activity hours 10)**

#### **Integrated course of PHATOLOGICAL ANATOMY [Total ECTS Credits 8.0] + [ECTS Training Credits 1.0]**

Full Professors: **AGOSTINI** Bruno – e-mail: [bruno.agostini@unina2.it](mailto:bruno.agostini@unina2.it) , **BALDI** Feliciano – e-mail:

[feliciano.baldi@unina2.it](mailto:feliciano.baldi@unina2.it), **CUCCURULLO** Luigi – e-mail: [luigi.cuccurullo@unina2.it](mailto:luigi.cuccurullo@unina2.it)

Associate Professors: **AGOZZINO** L., **FERRARACCIO** F., **LAMENDOLA** M.G, **ROSSIELLO** R.

Assistant Professors: **BALDI** A., **COSTANZO** R.M.

#### Purposes And Contents Of Course "Anatomic Pathology":

##### **BASIC ANATOMIC PATHOLOGY**

Introduction to diagnostic histocytopathology, including ultrastructural and cytochemical studies.

Morphology of cell injury, inflammation, repair, regeneration and fibrosis; histopathology and cytology of neoplasia; pathology of connective tissue.

#### **Teaching programme**

##### **ANATOMIC PATHOLOGY AND HISTOPATHOLOGY OF VARIOUS ORGANS AND SYSTEMS**

Heart and Vessels

Respiratory System

Gastrointestinal Tract

Liver and Biliary System and Pancreas

Kidney and Urinary Tract

**Male and Female Reproductive System**

Endocrine Glands

**Breast**

Haemolymphopoietic organs

Skin

Nervous System

Skeletal Muscle

Osteoarticular System

Pathology of head, neck and mediastinum

##### **CLINICAL - ANATOMIC PATHOLOGY**

Introduction to understanding and interpretation of anatomic alterations observed by bioptic and autoptic studies and their clinical correlations in occasion of clinical-pathological discussions and conferences

#### Recommended texts:

Kumar V., Cotran R., Robbins S. L.: Anatomia Patologica, EMSI, Roma 1999  
Pardo Mindan F.J. Anatomia Patologica, EMSI, Roma, 2004  
Robbins S. L.: Le Basi Patologiche delle Malattie, Piccin, Padova 2000  
Wheater P.: Istopatologia Essenziale - Testo Atlante, C E A, Milano, 2004  
Woolf N.: Anatomia Patologica, EdiSES, Napoli, 2001

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#### V YEAR- I Semester

#### **Integrated course of FORENSIC MEDICINE [ECTS Credits 2.5] + [ECTS Training Credits 0.5] (Lecture hours 16) (Tutorial activity hours 6.5)**

Full Professors: **SCIAUDONE** Goffredo – e-mail: [goffredo.sciaudone@unina2.it](mailto:goffredo.sciaudone@unina2.it), **DURANTE MANGONI** Enzo – e-mail: **PALMIERI** Luigi

Associate Professors: **BORRIELLO** Renata – e-mail: [renata.borriello@unina2.it](mailto:renata.borriello@unina2.it), **PICCIOCCHI** Paolo – e-mail: [paolo.picciocchi@unina2.it](mailto:paolo.picciocchi@unina2.it), **SCOTTO DI TELLA** Amalia – e-mail: [amalia.scottoditel@unina2.it](mailto:amalia.scottoditel@unina2.it)

Assistant Professors: **CASSANDRO** Paola, **ZANGANI** Pierluca.

#### Teaching programme

- Generalities, finalities and method of Legal Medicine.
- Violent mechanical asphyxias.
- The sudden death; verification of death reality; forensic judgement of death time; external examination of corpse; judicial autopsy and diagnostic verification; law about drawing of corpse shares; principles of main rules of Mortuary Police.
- The human person as subject of rights: judicial ability and action ability, the imputability.
- Chemical injuries: role and tasks of forensic toxicology; criteria (principles) for diagnosis of poisoning; carbon monoxide, drugs poisoning; classification of main abuse substances, alcohol addiction, drug addiction; laws about psychotropic substances; chemical-toxicological diagnosis.
- Professional Deontology: medical report, obligatory denunciations, medical certificate, technical valuation, professional responsibility of physician, clinical folder, the prescription, intentional interruption of pregnancy.
- Wilful homicide, preterintentional homicide, manslaughter, infanticide, euthanasia, intense therapeutic application. Blow crime, personal injuries crime, aid omission.
- Compensation for damages after illicit actions.
- Obligatory insurances, with regard about civil invalidity, labour accident, occupational diseases; the National Health Service.

#### Recommended texts:

1. Zangani P., Sciaudone G., Palmieri V.M., Durante Mangoni E., Palmieri L. et Al.: Trattato di Medicina Legale e delle Assicurazioni, ed. Morano, Napoli, 1990;
2. Machiarelli, Feola: Medicina Legale, ed. Minerva medica, Torino 1995;
3. Puccini C.: Istituzioni di Medicina Legale, ed. Monduzzi, 1995;
4. Palmieri L.: Le urgenze medico legali, Giuffrè ed., Napoli, 1999;
5. Sciaudone G., Crisci A.: La Medicina Legale nelle emergenze, in AA.VV., Trattato di Medicina d'urgenza, ed. Piccin, 2000.

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#### V YEAR- I Semester

#### **Integrated course of OCCUPATIONAL MEDICINE [ECTS Credits 2.5] + [ECTS Training Credits 0.5] (Lecture hours 16) (Tutorial activity hours 6.5)**

Full Professor: **SANNOLO** Nicola – e-mail: [nicola.sannolo@unina2.it](mailto:nicola.sannolo@unina2.it)

Assistant Professors: **LIOTTI** F., **MENEGOZZO** M., **IORELLINO** G., **PALLADINO** S., **IAVICOLI** N.

**Formative offer:** The formative offer for the integrated course of Occupational Medicine consists of: a) A program whose contents are divided into modules, didactic activities and lessons b) Interdisciplinary seminars c) teaching activity at the department d) visits to job sites. **Didactic aims:** To develop, through a formative approach based on modules, lessons and direct experiences, whatever is needed: 1) to understand the causal links between exposition to risk agents and appearance of occupational diseases. 2) To clearly understand all the aspects of the doctor's professional duties to notify and to report in cases either of checks or of diagnosis of occupational diseases.

**Skills:** To be able to apply strategies both of analysis and of evaluation of health damages in order to ascertain whether in the specific case there are work-related diseases or commune diseases; to be able both to identify and to recognize,

through working anamnesis, the role of the professional element in order to evaluate techno-diseases; to be able both to recognize the causes of the work-related diseases and to evaluate the extent to which the work context has an impact on commune diseases.

### Teaching programme

#### 1) Origins, development, and aims of Occupational Medicine

2) **Risk factors on work places.** Danger. Risks. Classification of risk factors

**Skills:** to be able to identify risk factors and to recognize the situations which might increase damages to the health.

3) **Analysis, evaluation and management of risk on work sites.** Models of regulating the exposure to risk factors. Meaning of the evaluation of risks.

**Skills:** to be able both to evaluate risks for the health and to adopt protective measures.

4) **Environmental and biological monitoring.** Indicators of the exposure and of the effects. Threshold limit values and reference values.

**Skills :** to be able to evaluate the exposure to risk factors on work sites through the measure of specific variables.

5) **Professional exposure to chemical agents.** Solvents and related diseases.

**Skills:** to be able both to identify risks and to diagnose diseases caused by the professional exposure to the most frequent solvents.

6) **Professional Cancer genesis.** Genesis of the causes. Epidemiologist Studies. Prevention of risks.

**Skills:** To be able to apply strategies for the evaluation of the effects in order to prevent the appearance of professional diseases

7) **Tasks of Occupational Medicine under the present law with special reference to the legislative decree n. 626/94 and its further modifications.** Italian Constitution: Articles 32,35,41. Civil code art.2087(protection of work conditions). Penal code: art 437. DPR 547/55 “rules for the prevention of industrial accidents”. DPR 303/56 “ General rules for work hygiene”. D.Lvo 277/91 “Risks related to chemical, physic and biologic factors (sound, lead, and asbestos). D.Lvo 25/02. D.Lvo 626/94.

-Employer. - Prevention and Protection Services. - Doctor Works. -- Employees' representative – Surveillance

**Skills:** To be able to apply what is provided for by the actual rules of law in order to protect the health of the employees.

8) **Responsibility of the doctor in ascertaining the links between professional diseases and work sites and their causal relationship.** Labor accidents. Techno-diseases (listed and non-listed professional diseases). Causal connection and professional Techno-diseases. Professional asthma.

9) **Professional exposure to risk agents. Health .** Surveillance both in industrial sites and indoor

10) **Video-terminal diseases.** Visual diseases. Muscular-skeletal diseases.

**Skills:** to be able to distinguish visual and muscular-skeletal diseases related to the professional use of P.C.s from commune diseases.

11) **Muscular-skeletal diseases and Manual Movement of loads.** Work-related postures. Evaluation of risks. Prevention

12) **Professional exposure to risk agents.** Professional saturnism. Exposure to dust and fibers

### SEMINARS

1.**Professional exposure to physic agents.** Radiations. Noise.

**Skills:** to be able to apply the E.U. directives in various contexts

2.**New aspects of occupational Medicine: work-related diseases**

#### Recommended texts:

L.Ambrosi, V. Foà, Trattato di Medicina del Lavoro, UTET, Torino, 1996

D.Casula Medicina del Lavoro, Monduzzi, Bologna, 1996.

Ilo- Encyclopaedia of Occupational Health and Safety, International Labour office. Geneve

### V YEAR- II Semester

**Integrated course of GENERAL AND APPLIED HYGIENICS [ECTS Credits 4.5] + [ECTS Training Credits 0.5] (Lecture hours 35) (Laboratory works hours 10) (Tutorial activity hours 12.5)**

Full Professor: **MARINELLI** Paolo – e-mail: [paolo.marinelli@unina2.it](mailto:paolo.marinelli@unina2.it), **DEL PRETE** Umberto – e-mail: [umberto.delprete@unina2.it](mailto:umberto.delprete@unina2.it).

Associate Professor: **LIGUORI** Giorgio – e-mail: [giorgio.liguori@unina2.it](mailto:giorgio.liguori@unina2.it), **AGOZZINO** Erminia – e-mail: [erminia.agozzino@unina2.it](mailto:erminia.agozzino@unina2.it).

**General purpose of the course.** A) Become acquainted with the principles and objectives of Epidemiology to acquire the ability to evaluate and intervene on individual and community health problems. Become acquainted with the tools and methods used in Epidemiological Methodology. B) The students must become acquainted with: The organization of the National Health Service; The epidemiology of the infectious and chronic-degenerative diseases; The main strategies of

Preventive Medicine and Health Education; The types of contaminants of the air, water and land and their repercussions on human health. The campaigns to promote and safeguard the health of the individual and the community, with reference to the control of infectious and

### **Teaching programme**

#### **A) Epidemiological Methods in Public Health.**

- Introduction to the study of Epidemiology
- Definitions and historical evolution of the concept of Epidemiology
- Epidemiology as a tool for prevention
- Cause of death and inequality of health. Health according to the WHO.
- The 3 levels of prevention: primary prevention; secondary prevention; tertiary prevention
- Frequency assessment in Epidemiology: ratios, proportions and rates. General and specific rates. Prevalence rate and incidence rate
- Hazard, risk and damage. Risk factors and subjects at risk. Risk assessment: absolute risk, relative risk, Odds ratio
- Epidemiological studies
  1. **observational epidemiology**
    - a) descriptive investigations
    - b) analytical investigations: cross-sectional studies or prevalence studies
    - c) analytical investigations: longitudinal or incidence studies
      - retrospective studies (case control)
      - prospective studies (cohort)
  2. **experimental or intervention epidemiology (open, blind, double blind or triple blind experimentation)**

#### **B) Social and Community Medicine.**

##### **DEFINITIONS, CONTENTS AND OBJECTIVES OF HYGIENE**

Hygiene, Preventive Medicine and Public Health. The concept of general health. The 3 levels of prevention: primary, secondary and tertiary. Health Education

##### **ORGANIZATION OF THE HEALTH SERVICES**

The National Health Service. International health bodies and international prevention specifications.

##### **GENERAL EPIDEMIOLOGY OF INFECTIOUS DISEASES**

The contagion chain. Infection and disease: predisposing and immunizing factors. Mechanisms of infection transmission. Factors favouring and hindering the spread of infectious diseases in a population.

##### **DIRECT PROPHYLAXIS OF INFECTIOUS DISEASES**

Notification, diagnostic verification and epidemiological inquiry. Isolation and quarantine measures. Disinfection, sterilisation and disinfestations. Immunoprophylaxis.

##### **EPIDEMIOLOGY AND PREVENTION OF THE FOLLOWING INFECTIOUS DISEASES**

Diseases with airway transmission: diphtheria, influenza, meningitis, measles, rubella, tuberculosis. Diseases with faecal-oral transmission: cholera, hepatitis A, typhoid fever and poliomyelitis. Diseases with carrier transmission: malaria, leishmaniasis. Anthrozoosis: brucellosis, rabies, toxoplasmosis. Diseases with sexual and/or parenteral transmission: hepatitis B, hepatitis C, hepatitis Delta, AIDS. Diseases transmitted by an environmental reservoir: tetanus

##### **HOSPITAL HYGIENE**

Hospital-acquired infections and their prevention

##### **EPIDEMIOLOGY AND PROPHYLAXIS OF CHRONIC-DEGENERATIVE DISEASES**

Epidemiology and prevention of cardiovascular diseases, tumours, diabetes and chronic obstructive broncho-pulmonary diseases

##### **ENVIRONMENTAL HYGIENE**

###### Air.

Pollution of the atmosphere: sources and types of pollutants; meteorological and topographical factors. Impact of pollutants dispersed in the air and their effects on the environment, food chain and human health. Prevention Strategies: control of pollutant formation, abatement and dispersion

###### Microclimate and indoor pollution

Physical, chemical and biological factors of the microclimate. Indoor pollution and the concept of a healthy environment

###### Water

Water cycle and water requirements. Sources of supply. Purification requirements. Systems of purification. Repercussions of water pollution on human health

###### Environment and territory

Solid urban waste, special hospital waste and toxic-hazardous waste. Collection and removal. Methods of disposal. Sewage: removal and disposal. Environmental impact and repercussions on public health

###### Food and nutrition hygiene

Nutrition, health and lifestyle. Food preservation in the field and in storage. Preservation of the end product: Physical and chemical processing. Toxinfection from food

#### **THEORETICAL AND PRACTICAL TEACHING ELEMENTS**

Methodology of health education.

Application of the epidemiological method to infectious diseases.  
Application of the epidemiological method to chronic-degenerative diseases  
Methods of disinfection and sterilisation and relative control.  
Surveillance of hospital-acquired infections.  
Technical and practical aspects of vaccination prophylaxis.  
Methods of surveillance and control of foodstuffs

#### Recommended texts:

- Signorelli C. Elementi di metodologia epidemiologica. Società Editrice Universo. Roma, 2002
- Attena F. Epidemiologia e valutazione degli interventi sanitari. Piccin Ed. Pd, 2004
- Barbuti S, Bellelli E, Fara GM, Giammanco G. Igiene e Medicina Preventiva. Monduzzi Ed., BO, 2003
- Marinelli P, Liguori G, Montemarano A, D'Amora M. Igiene, Medicina Preventiva e Sanità Pubblica. Piccin Ed., Pd, 2002

### V YEAR- II Semester

**Integrated course of PAEDIATRICS** (General and Specialist Paediatrics, Neonatal Medicine, Paediatrics and Infant Surgery) **[ECTS Credits 3.5] + [ECTS Training Credits 2.5] (Lecture hours 35) (Tutorial activity hours 12.5)**

Full and Associate Professors: **CAPRISTO** A. Francesco, **CASALE** Fiorina, **DI TULLIO** Maria Teresa, **FERRARA** Mara, **LAMA** Giuliana, **NOBILI** Bruno, **PARMEGGIANI** Pio, **PAPPARELLA** Alfonso, **PERRONE** Laura, **PRISCO** Francesco, **TRIPODI** Vittorio.

Researchers: GRANO Silvana, INDOLFI Paolo, IAFUSCO Dario, MIRAGLIA DEL GIUDICE Michele, MANCARUSO Alessandro, **PERROTTA** Silverio, **SAGGESE** Raffaele, **SANTINELLI** Raffaele.

Coordinator: **LAMA** Giuliana – e-mail: [giuliana.lama@unina2.it](mailto:giuliana.lama@unina2.it)

**General purpose of the course.** Knowledge of specific issues relating to child and young adult health and wellbeing. Description and diagnosis of the most common disease, therapeutic principles and knowledge of physiological growth and development in children.

**Knowledge necessary to the course.** Student must show knowledge of internal medicine.

**Course Description :** Theoretical part - Theoretical part ( ½ of the total) consist of formal lecture. Practical Part - Practical Part ( ½ of the total) consist of seminars and practical drills during which students will take part to routine clinical activity.

#### Teaching program

**The infant** - New born, High -risk infant, Respiratory tract disorders, Digestive tract disorders, Blood disorders, Genitourinary system disease, Infection disease, Malformed infant, Gigantism infant.

**Infant Nutrition** - Breast feedings, bottle feedings, weaning.

**The respiratory system** - Development and function. Upper and lower respiratory tract major diseases. Asthma, bronchitis and bronchiolitic disease, Cystic fibrosis.

**The digestive system** - Clinical manifestation of gastrointestinal disease (vomit and acute- chronic diarrhoea). The oral cavity, the oesophagus, the stomach and the intestine, exocrine pancreas, the liver and biliary system.

**Infectious disease** - Vaccinations, CSN infections, gram positive bacterial infection, gram negative bacterial infection, mycotic infections, viral infections (EBV, VZV, CMV, HerpesV, Togavirus, paramyxovirus), Protozoan infections .

**The endocrine and metabolic system** - Childhood diabetes mellitus, Thyroid gland disorder.

**Growth** - Height and weight

**Nephrourology disorders** - Glomerular diseases, hematuria-associated conditions, Proteinuria-associated conditions, Kidney congenital abnormalities, vesicoureteral reflux, infections.

**Blood diseases** - The haematopoietic system. Inadequate production anaemias, Haemolytic anaemias, Pancytopenias, Haemorrhagic and thrombotic diseases. The spleen, the lymphatic system.

**Neoplastic diseases and tumors** - Introduction to paediatrics neoplastic diseases and tumors. Epidemiology, diagnosis and treatment. Leukaemias, Neuroblastoma, Kidney neoplasm. Bone Neoplasm.

**Childhood rheumatic diseases** - Juvenile rheumatoid arthritis, Kawasaki's diseases, vascular syndrome, Systemic Lupus Erythematosus

**Allergic disorders** - Allergies and immunologic basis of atopic diseases, Allergic rhinitis, Atopic dermatitis, Anaphylaxis, Adverse reaction to drugs or to food.

**Human genetics** - Molecular basis of genetics disorder, molecular diagnosis of genetic diseases, chromosomal clinical abnormalities.

**The cardiovascular system** - Developmental biology of the cardiovascular system, evaluation of the cardiovascular system. Congenital heart diseases. Cardiac arrhythmias

**The nervous system** - Neurologic evaluation. CNS congenital anomalies. Headaches, Neurocutaneous syndromes, Movement disorders.

Bone and joint disorders - Orthopaedics disorders, The foot and toes, Torsional and angular deformities.  
Paediatrics Emergency - Appendicitis, shock and sepsis, convulsions, poisoning, Ketoacidosis.

#### Recommended texts:

Textbook of paediatric- Nelson- W.B. Saunders Company  
Pediatria Essenziale Bugio G.R., Pernotto G., Ugazio A.G.- Utet

### V YEAR- II Semester

#### **Integrated course of GYNAECOLOGY [ECTS Credits 3.0] + [ECTS Training Credits 2.0] (Lecture hours 25) (Tutorial activity hours 10)**

*(Gynaecology and obstetrics)*

Full Professors: **CARDONE** Antonio – e-mail: [antonio.cardone@unina2.it](mailto:antonio.cardone@unina2.it).

Associate Professors: **COBELLIS** Giovanni – e-mail: [Giovanni.cobellis@unina2.it](mailto:Giovanni.cobellis@unina2.it), **COLACURCI** Nicola – e-mail:

[nicola.colacurci@unina2.it](mailto:nicola.colacurci@unina2.it), **IZZO** Alfredo – e-mail: [alfredo.izzo@unina2.it](mailto:alfredo.izzo@unina2.it), **PANARIELLO** Salvatore – e-mail:

[salvatore.panariello@unina2.it](mailto:salvatore.panariello@unina2.it).

Assistant Professors: **BORRELLI** Andrea, **CANDIDO** Raffaello, **CASERTA** Raffaele, **CIRILLO** Leonardo, **COBELLIS** Luigi, **D'AJELLO** Maurizio, **DE LEO** Carlo A., **FESTA** Biagio, **LABRIOLA** Domenico, **QUIRINO** Raffaele, **RAUCCI** Francesco, **TOLOTTI** Marco, **ZARCONE** Roberto.

**General purpose of the course.** Knowledge of physiopathological, psychological and clinical issues (prevention, diagnosis and therapy) relating to fertility, procreation, pregnancy, pre-natal morbidity and delivery. Ability to identify the most frequent form of gynaecological diseases and relative preventive and therapeutical measures as well as conditions requiring specialist examination.

#### **Teaching programme**

1. **Physiology of pregnancy** - Migration and capacitation of spermatozoon — Insemination - Embryo implantation- Embryo development
2. **Diagnosis and hygiene of pregnancy**
3. **Physiology of delivery.** - Causes and factors of delivery - Mechanisms of delivery
4. **Clinical evolution of physiologic delivery**
5. **Puerperal physiology and pathology**
6. **Complications of afterbirth discharge and postpartum**
7. **Anomalies in pregnancy term.** - Pre-term labour - Prolonged pregnancy Overdue foetus death
8. **Bleeding in early pregnancy.** - Ectopic pregnancy – Abortion - Hydatid (vesicular) mole - Cervicoisthmian incontinence
9. **Bleeding in late pregnancy.** - Placenta praevia - Abruptio placentae Uterus rupture
10. **Foetal-placental unit.** - Prenatal diagnosis - Foetal wellbeing evaluation - Chronic and acute foetal stress
11. **Diseases and pregnancy.** - Diabetes - Coagulation defects in pregnancy – CID – Anaemias - T.O.R.C.H.
12. **Pregnancy disorders.** - Hyperemesis gravidarum - Pre-eclampsia - Eclampsia –
13. **Multiple pregnancy**
14. **Maternal-foetal incompatibility.** - Rh alloimmunization
15. **Pathology of foetal adnexa.** - Membranes, polydramnios and oligodramnios premature rupture
16. **Caesarean delivery**

#### **GYNAECOLOGY**

1. **Anatomy of the female genital organs**

2. **Human reproduction physiology.** - Ovarian cycle Menstrual cycle

3. **Menstrual anomalies**

**Cortical and hypothalamic anomalies:** Hypophysial secretion anomalies Ovarian anomalies (PCOS and hirsutism) - Dysfunctional uterine bleeding.

4. **Menopause**

5. **Gynaecological diagnostics.** - Gynaecological examination - Cytological examination - Pap-test

Hysterosalpingography – Hysteroscopy - Pelvic ultrasonography - Laparoscopy

6. **Sterility.** - Epidemiology of sterility and infertility - Male sterility - Unexplained sterility - Female sterility - In vitro insemination.

7. **Endometriosis**

8. **Female genital organ inflammations.** - Vaginitis

9. **Uterine neoplasia.** - Epithelial benign neoplasia - Connective benign neoplasia - Endometrium cancer.

10. **Cervical cancer.** - CIN - Connective benign neoplasia - Epithelial benign neoplasia Epithelial cancer –

11. **Ovarian cancer.** - Ovarian primitive neoplasia - Ovarian epithelial cancer - Germinal cancer - Metastatic ovarian cancer

12. Vulvar neoplasia - Non neoplastic vulvar lesions - Squamous invasive cancer –  
13. Gynaecological surgery - Abdominal hysterectomy - Vaginal hysterectomy

**Recommended texts:**

- D. BERLINGIERI - Ginecologia ed Ostetricia-Piccin — Padova  
E. MORACCI ET AL. - Ostetricia e Ginecologia-Idelson - Napoli  
G. PESCIETTO ET AL. - Ginecologia e Ostetricia-Società Editrice Universo - Roma  
E.M.C- Ginecologia e Ostetricia - Esi stampa Medica - Roma.

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**VI YEAR- I Semester**

**Integrated course of INTERNAL MEDICINE [ECTS Credits 5.5] + [ECTS Training Credits 4.0] (Lecture hours 48)  
(Laboratory works hours 10) (Tutorial activity hours 14.5)**

Full Professors: **ALTUCCI** Paolo – e-mail:[paltucci@hotmail.com](mailto:paltucci@hotmail.com)

Associate Professors:

Assistant Professors:

**General purpose of the course.** Students must be able to identify the correct diagnostic and therapeutic procedure in case of medical emergencies (cardio-circulatory shock, coma, syncope, acute pain, acute dyspnoea, hydro-electrolytic and acid. base balance disorders, multi-organ failure) and show knowledge of clinical nutrition fundamentals.

**Teaching programme**

**Topics**

Chest pain. - Dyspnea (acute and chronic). - Cyanosis. - Hemoptysis. - Cough. - Pulmonary mass. - Tachycardia, palpitation. - Hypertension. - Hypotension. - Dyspepsia. - Vomiting. - Diarrhea. - Constipation. - Abdominal pain - Abdominal mass. - Hematemesis. - Melena. - Ascites. - Jaundice. - Hepatomegaly. - Splenomegaly. - Hyperlipidemia. - Obesity. - Polyuria. - Polydipsia. - Hypoglycemia. - Alterations of uric acid metabolism. - Nodular Thyroid - Goiter. - Anemia. - Polycythemia. - Alterations of peripheral white blood cell count. - Hemorrhagic disorders. - Hypercoagulability. - Lymphadenopathy. - Edema. - Hematuria. - Proteinuria. - Evaluation of urine analysis. -Oliguria, anuria. - Electrolyte disorders. - Disorders of acid-base balance. - Weight loss. - Bone and Joint pain. - Myalgia. - Alterations of mental status. - Alterations of consciousness. - Vertigo. - Headache. - Tremor. - Fever

**Evaluation of routine biochemistry tests.**

**Recommended texts:**

- Harrison: Principi di medicina interna  
- Rugarli: Manuale di medicina interna sistematica  
- Gentilini-Teodori: Medicina interna

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**VI YEAR- I Semester**

**Integrated course of GENERAL SURGERY [ECTS Credits 3.0] + [ECTS Training Credits 2.0] (Lecture hours 25)  
(Laboratory works hours 10)**

Full Professors: **DEL GENIO** Alberto – e-mail: [alberto.delgenio@unina2.it](mailto:alberto.delgenio@unina2.it), **LIVREA** Antonio – e-mail: [antonio.livrea@unina2.it](mailto:antonio.livrea@unina2.it), **LO SCHIAVO** Francesco – e-mail: [francesco.loschiavo@unina2.it](mailto:francesco.loschiavo@unina2.it), **PIGNATELLI** Carlo – e-mail: [carlo.pignatelli@unina2.it](mailto:carlo.pignatelli@unina2.it).

Associate Professors: **AMATO** Giuseppe – e-mail: [giuseppe.amato@unina2.it](mailto:giuseppe.amato@unina2.it), **IZZO** Giuseppe – e-mail: [giuseppe.izzo@unina2.it](mailto:giuseppe.izzo@unina2.it), **DE MAGISTRIS** Renato – e-mail: [renato.demagistris@unina2.it](mailto:renato.demagistris@unina2.it).

Assistant Professors: **COZZA** Giovanni, **DI GIACOMO** Domenico, **FIGLIANO** Andrea, **RIZZO** Sante.

**General purpose of the course.** Ability to gather symptoms, signs and structural alterations together in order to obtain a global evaluation of the patient's health condition from a preventive, diagnostic, therapeutic and rehabilitative point of view. Ability to analyse and solve internal, surgical and oncologic clinical issues bearing in mind advantages, risks and costs.

**Teaching programme**

Metabolic and immunologic response to trauma. Hydroelectrolytic homeostasis. •Physiopathologic changes due to prosthetic and endoscopic surgery. Physiopathologic changes and rehabilitative correlation following GI resection and derivation surgeries. Systematic knowledge of surgical pathology and therapeutic options regarding known illnesses.

- Knowledge of the surgical notions essential to medical practice.
- General principles of surgery.

- Surgical approaches to head and neck diseases.
- Surgical approach to mammary pathology.
- Surgical approaches to oesophagus disorders (oesophagus basic surgery).
- Surgical approaches to spleen diseases.
- Surgical approach to abdominal wall and peritoneum diseases (Abdominal traumas and injuries).
- Surgical approach to gastric diseases. Gastric benign and malignant tumours.
- Surgical approaches to small intestine diseases.
- Surgical approaches to rectum and anus diseases.
- Surgical approaches to digestive tract neuroendocrine neoplasias.
- Surgical approaches to pancreatic disorders.
- Surgical approaches to vascular disorders.
- Organ transplant.

## VI YEAR- II Semester

### **Integrated course of SURGICAL - MEDICAL EMERGENCIES [Total ECTS Credits 9.0] + [Total ECTS Training Credits 4.0]**

**Comprehensive of: [Neurotraumatology, Neurology, Psychiatry, Locomotor System Diseases, Physical and Rehabilitative Med., Nephrology, EndocrineEmergency, Pharmacology] [ECTS Credits 3.0] (Lecture hours 36) (Laboratory works hours 9) (Tutorial activity hours 10)**

Coordinator: **MASELLA** Andrea – e-mail: [andrea.masella@unina2.it](mailto:andrea.masella@unina2.it)

Professors:

**ANESTHESIA AND REANIMATION:** M. CHIEFARI, E. IANNUZZI, B. LETTIERI, C. BELLUOMO

**EMERGENCY MEDICINE:** A. ANDREANA, M. VERZA

**EMERGENCY SURGERY:** A. MASELLA, S. RIZZO, A. CENNAMO, G. DECIMO.

Course Affiliated Scientists: **BARBAGALLO** A., **BRITA** G., **CAFAGGI** G., **D'ARI** G., **DE LISIO** C., **FERRARO** F., **IACOMINO** R., **LA MONICA** F., **MANGONI DI SANTO STEFANO** G., **SCAFURO** M.A., **VILLANI** R.

### Teaching programme

#### **ANESTHESIA AND REANIMATION (RESUSCITATION) [ECTS Credits 3.5] (Lecture hours 16) (Laboratory works hours 16) (Tutorial activity hours 15.5)**

Preoperative assay - Anaesthesia intentions and phases. General anaesthesia: drugs and techniques. Peripheral anaesthesia: drugs and techniques. Oro-nasotracheal tubage. Shock. Pulmonary embolism. Acute respiratory insufficiency. Artificial feeding (immunonutrientes). Cardiopulmonary reanimation. Septic syndrome. Drowning, heat-stroke, fulguration, poisoning. Underwater and hyperbaric emergencies. Pain treatment: drugs and techniques. Cerebral death and organ explants

#### **EMERGENCY MEDICINE [ECTS Credits 1.0] + [ECTS Training Credits 2.0] (Lecture hours 16) (Laboratory works hours 9)**

Cerebral coma. Hypoglycemic coma. Ketoacidotic and hyperosmolar diabetic coma. Hepatic coma (Cholemia) - Metabolic emergencies. Acid-base balance disorders: metabolic acidosis and alkalosis. Hydro-electrolytic balance disorders. Acute coronary syndromes (preinfarction angina and myocardial infarction). Myocardial infarction praecox accidents. Acute pulmonary edema. Cardiogenic shock - Cardiac tamponade. Aortic dissection. Hyperkinetic arrhythmia. Hypokinetic arrhythmia. Hypertensive emergencies. Syncope. Anaphylactic shock

#### **EMERGENCY SURGERY [ECTS Credits 1.0] + [Total ECTS Training Credits 2.0] (Lecture hours 16) (Laboratory works hours 16) (Laboratory works hours 5.5)**

Polytraumatism. Territorial assistance and Trauma Centre. Artuum hemorrhagic and vascular emergency. Compression syndrome. Thoracic injuries, hemothorax. Pleural empyema. Abdominal injuries and hemoperitoneum. Compartmental syndrome. Diffuse peritonitis. Circumscribed peritonitis. Hematemesis and melena. Acute appendicitis. Meckel's diverticulum accidents. Acute cholecystitis. Cholangitis. Mechanical jaundices. Biliary passages iatrogenic lesions. Acute pancreatitis. Hernia accidents. Intestinal obstructions. Diverticulosis accidents. Abdominal apoplexy

#### Recommended texts:

**“Emergenze medico chirurgiche”** Tiberio et al., Masson.

(All the books on sale about the three subjects of the course are also advised if integrated by the lessons)