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## PRIMO SOCCORSO

12 CFU - 1° Semester

### Teaching Staff

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**Office Hours:** lunedì dalle ore 13.15 alle ore 13.45

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## LEARNING OBJECTIVES

### ▪ Internal Medicine

The main objectives of the course are as follows:

-To provide essential knowledge on the physiopathology of the acute and chronic diseases (e.g. chronic intestinal disease, autoimmune diseases, diabetes, pancreatitis) and to identify their relationship and inter-dependency.

-To apply these skills to the full spectrum of diseases in human.

-To develop the transferable skills on acute and chronic diseases (including physiopathology, oral communication with patients, team work, decision making during diseases) between students and patients.

#### ▪ **Pharmacology**

The first part of the present course will provide students to acquire knowledge about basic principles in Pharmacology, such as pharmacokinetics and pharmacodynamics, drugs mechanisms, signal transduction pathways, adverse drug reactions. In the second part, an overview of major drug classes used in obstetrics and during pregnancy will be presented.

#### ▪ **Occupational Medicine**

The aim of the course is to provide information and knowledge about workplace-related pathologies (accidents and illnesses) as well as to become familiar with prevention principles, with particular reference to risk assessment and preventive measure adoption.

Students will have to learn methods and techniques to collect work history, identify environmental and occupational risks and possible relationships with genetic, demographic, socio-economic, psychological and cultural factors, related to health or illness statuses, as well as to look into the possible non-specific effects of occupational risk factors, especially for degenerative chronic diseases.

The main etiologically diagnostic aspects of occupational medicine will be dealt with, and so will the epidemiology of con-causally work-related diseases. Also, the most frequent professional diseases and work accidents will be classified. The main analysis method and work risk assessment instruments will be provided, that is limit exposure levels, environmental/biological monitoring and healthcare surveillance. Also, occupational risk information, safety and health law guidelines in work places, primary and secondary prevention of occupational diseases, role and duties of the competent physician will be discussed.

#### ▪ **SCIENZE INFERMIERISTICHE GINECOLOGICHE**

THE PURPOSE OF THE TEACHING IS TO UNDERSTAND THE BASIS OF NURSING

#### ▪ **SCIENZE INFERMIERISTICHE OSTETRICHE E PEDIATRICHE**

THE OBJECTIVE OF THE TEACHING IS TO TEACH THE OBSTETRIC AND GYNECOLOGICAL TRIAGE APPROACH

## **COURSE STRUCTURE**

#### ▪ **Internal Medicine**

*Learning assessment may also be carried out on line, should the conditions require it.*

#### ▪ **Pharmacology**

Lectures. Students are invited to actively participate with questions, comments and thoughts related to covered topics.

In case lectures will be held in a mixed condition (both in front of students and online) or online only, required changes will be adopted even if not clearly stated in this section, in order to comply the planned program as reported in the Syllabus

- **Occupational Medicine**

Frontal lesson.

- **SCIENZE INFERMIERISTICHE GINECOLOGICHE**

frontal lessons

- **SCIENZE INFERMIERISTICHE OSTETRICHE E PEDIATRICHE**

FRONTAL LESSONS AND LABORATORY

IF IT IS NECESSARY FOR THE SITUATION OF UNCERTAINTY LINKED TO COVID-19 EVEN IN MIXED MODE

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## **DETAILED COURSE CONTENT**

- **Internal Medicine**

Diabete, pancreatiti acute pancreatiti croniche celiachia malattie acute renali malattie croniche renali malattie intestinali croniche (morbo di Crohn e rettocolite ulcerosa) - diabete mellito e inquadramento delle patologie su base autoimmune - distinzione tra malattie croniche e malattie acute in medicina interna; malattie croniche intestinali (morbo di Crohn e retto-colite ulcerosa) - celiachia e malattie da malassorbimento - insufficienza renale acuta e cronica - pancreatite acuta e cronica - cirrosi epatica

- **Pharmacology**

General Pharmacology

- Foundations of Pharmacology;
- Pharmacokinetics;
- Pharmacodynamics;
- Concentration-response curves;
- Factors affecting response to drugs;
- Adverse drug reactions;
- Fetal toxicity and teratogenesis.

Drug classes

- Drugs affecting autonomic nervous system (adrenergic and colinergic systems);
- Drug therapy for depressions and anxiety disorders;
- Drugs affecting the cardiovascular system (diuretics, ACE inhibitors, sartans, CCB, antihemorrhagics, anticoagulants, platelet aggregation inhibitors, thrombolytics);
- Drugs regulating uterine motility;
- Drugs acting on estrogen and progesterone receptors;
- Drugs used for diabetes;
- Anti-inflammatory drugs;
- General and local anesthetics;

- Bacterial resistance and antibiotics (penicillins, cephalosporins, macrolides, aminoglycosides, quinolones)

### ▪ **Occupational Medicine**

History and evolution of Occupational Medicine: prevention service legislation and organization; work accidents and professional diseases insurance practices. Risk assessment procedure; exposure times and limit levels/values.

Primary and secondary prevention principles. Healthcare surveillance and duties of competent physician. Biological monitoring procedures. General and individual preventive practices and first aid action organization. Biological risk and vaccinations. Physical risks: noise, vibrations, ionizing-non-ionizing radiations, microclimate and compressed atmosphere. Ergonomy principles: postures and work. Workstation, shift and night work risks. Assessment of risks in manual loads handling and in repetitive movements of upper limbs with associated pathologies. Organizational wellness and its associated work stress. Health promotion in working places.

Main dust/fibre and professional allergene exposure-related pathologies; indoor and outdoor pollutants. Exposure risks to chemical, mutagen and carcinogenic agents.

Principles of Industrial Hygiene and hints of Statistics. Risks in the main working cycles. Guidelines on safety and health in working places.

### ▪ **SCIENZE INFERMIERISTICHE GINECOLOGICHE**

CLO teaching system, professional profile, Code of Conduct.

-Healthcare worker in the Healthcare Organization.

-Communication and security within the health centers.

-The basic needs of man.

-Prevention of infections.

-Patient unit, body mechanics, cleaning and skin care (hot and cold application).

- Detection of vital signs, food and liquids.

-Fecal and urinary elimination.

-Procedures and assistance during medical examinations and special treatments.

- The administration and storage of drugs.

-The patient undergoing surgery (pre-post surgery).

-House assistance.

### ▪ **SCIENZE INFERMIERISTICHE OSTETRICHE E PEDIATRICHE**

CLINICAL -STETRIC ASSESSMENT

CLINICAL -OSTETRIC ASSESSMENT IN URGENCY

DIAGNOSTIC CRITERIA IN MATERN URGENCY

DIAGNOSTIC CRITERIA IN NEONATAL URGENCY

OPERATIONAL PARTY CONTRACTION PATHOLOGIES AND POSSIBLE EMERGENCY

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## TEXTBOOK INFORMATION

### ▪ **Internal Medicine**

Testo consigliato: RUGARLI MEDICINA INTERNA SISTEMATICA,

Rugarli C., Nuti R., Caligaris Cappio F., Cantalamessa L., Cappelli G., Cappellini M.D., CavalloPerin P., Corazza G. R., Craxì A., Crea F., Fabbri L., Ferraccioli G., Giustina A., Lazzarin A., Stella A.P.

Elsevier-Masson Editore

▪ **Pharmacology**

1. ROSSI F., CUOMO V., RICCARDI C., Farmacologia per le professioni sanitarie, Ed. Minerva Medica
2. Hitner, Nagle, Principi di Farmacologia, Zanichelli
3. Furlanut, Farmacologia generale e clinica per le lauree sanitarie, III edizione, Piccin

▪ **Occupational Medicine**

- David Koh, Ken Takahashi. Textbook of Occupational Medicine Practice. 3rd Edition ISBN: 978-981-4329-57-6
- Antonio Mutti, Massimo Corradi: "Lezioni di Medicina del Lavoro". Nuova Editrice Berti, 2014 (ISBN 978-88-7364-627-3)
- Per Alberto Bertazzi: "Medicina del lavoro". Raffaello Cortina Editore, 2013 (ISBN 978-88-6030-633-3)
- Enrico Pira, Canzio Romano, Paolo Carrer: "Manuale di medicina del lavoro". Minerva Medica, 2016 (9788877118431)

▪ **SCIENZE INFERMIERISTICHE GINECOLOGICHE**

"Assistenza Infermieristica di basa: Principi e Procedure."- Terza Edizione- Sheila A.Sorrentino- Edizione Italiana a cura di Carlo Calamandrei, Silvia Cianfanelli- McGraw- Hill Libri Italia Srl- Milano.

▪ **SCIENZE INFERMIERISTICHE OSTETRICHE E PEDIATRICHE**

LADEWING-LONDON-DAVIDSON "MATERNITY ASSISTANCE"

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