Title: MEDICAL AND SCIENTIFIC METHODOLOGY II

<table>
<thead>
<tr>
<th>Code</th>
<th>MC 4115</th>
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<tbody>
<tr>
<td>ECTS Credits</td>
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<tr>
<td>Teaching Format</td>
<td>Lectures and practical training</td>
</tr>
<tr>
<td>Semester/Year</td>
<td>1st/4º</td>
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<tr>
<td>Assessment/Exam Type</td>
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<tr>
<td>Teaching Hours</td>
<td>Lectures: 40</td>
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<td>Bed-side teaching (BST): 35</td>
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<td>FTE</td>
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<td>Student Rating</td>
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Preconditions
All the exams of the first three years

Contents

SURGICAL METHODOLOGY
The medical records and other instruments for the registration of medical-data. The recognition of clinical conditions.

The logical basis of clinical diagnostics. Integration of history and clinical examination. General examination

Semeiotics of the head, neck Semeiotics lung and pneumothorax Semeiotics of abdomen; Semeiotics of the breast
and glands Semeiotics of endocrine-organs; Semeiotics of the uro-genital organs; Semeiotics of hernias;

Signs and symptoms related to perinereum; Signs and symptoms of cardio-circulatory system; Instrumental diagnosis
of the digestive system, uro-genital system; Diagnostics of bleeding and in acute abdominal syndromes

ELECTIVES ACTIVITIES

Approach to the patient with acute abdomen

Semeiotics of politrauma

General concepts of Risk Management

Topographic anatomy applied to semeiotics

LEARNING ACTIVITIES

Fill-out a surgical dossier

Carry out examination of the neck

Perform examination of the breast

Perform examination of abdomen

Perform examination of the perineum, male and female genitals and rectum.

Perform examination of limbs.

Collaborate in the placing of a peripheral venous catheter.

Dressing of a surgical wound

During the four years, the student must perform at least two rounds of compulsory attendance at the following clinics
and/or in hospital wards:

III Year: General Surgery 3 Transplantation Unit


V Year Course: Digestive Surgery, General Surgery 2.


Optional internships in Surgical Wards:

Digestive Surgery, Endoscopic surgery, Hepato-biliary Surgery, Endocrine Surgery, General Surgery 1, General
Surgery 2, General Surgery 3, General Surgery and Organ Transplantation, Thoracic Surgery, Vascular Surgery,
Emergency Surgery, Breast, Urology.

SEMEIOTICS AND MEDICAL METHODOLOGY

The course is divided into a frontal teaching with cognitive objectives, and an interactive-teaching with theoretical and
practical lessons in small groups.

History

Criteria of collecting data

FAMILY: genetics, multifactorial or infection.

PHYSIOLOGIC: Information on birth, development, education, military service (men), marital status, work in progress
or past, lifestyle, personality, the main physiological functions, allergies.

APR: diseases of childhood, youth, adult.

APP: evaluation of symptom / s, a sign s syndrome / i; evaluation of any laboratory tests and / or instrumental or
health-records (medical records, prescriptions, etc.).

CARDIOLOGY

Specific symptoms and signs: fatigue, dyspnea, cyanosis, palpitations, chest pain, edema, nocturia, syncope.

Examination: inspection, palpation, percussion, listen.

Laboratory tests and equipment: eg blood chemistry and hematology generic and specific ECG, es. Radiographic,
ECOCG, stress testing, cardiac catheterization and coronaryography, CT and MRI: indications, contraindications, normal
findings, the main pathological.

PULMONOLOGY

Specific signs and symptoms: cough, haemoptysis, dyspnea, chest pain, cyanosis, finger a drum rod.

Examination: inspection, palpation, percussion, listen.

Laboratory tests and equipment: eg blood hematological and microbiological generic and specific, Rx, PFR,
Emogasanalisi, CT, MRI, bronchoscopy, lung scintigraphy, pulmonary Oncoscntigrafia, lung and pleural biopsy,
exploratory puncture of the chest: indications, contraindications, finds normal, main pathological.
### ARTERIAL HYPERTENSION

Definition, classification, methods of detection.

**Essential hypertension**: causes, symptoms, es. Course Aims and Objectives, es. laboratory and instrumental.

**Secondary hypertension**: causes, symptoms, es. Course Aims and Objectives, es. laboratory and instrumental.

Assessment of organ damage: brain, retina, logs epiaortici, heart, aorta and arteries of the limbs inf, and kidneys.

Hypertensive urgencies and emergencies

### HEMO-LYMPHATIC SYSTEM:

Blood cells, Emochromo-cytometric Tests; Bleeding and mechanisms of hemostasis; Medical Semeiotics and methods for detection of dysfunction of (Endocrine organs): Thyroid, parathyroid, pituitary and endocrine pancreas, adrenal gland.

Semeiotics of abdomen, liver, spleen.

Semeiotics of Uro-genital System

Semeiotics of the bone-muscle and joints.

Students must know how to:
- Collect history
- Conduct the examination
- Develop hypothesis and differential-diagnosis
- Linking relief and laboratory-records
- Analyze an article/medical research and demonstrate the application of knowledge-based medicine on evidence of clinical practice

### Fever

Common causes of fever. Types of fever. Evaluation of the combination of symptoms and / or signs and / or laboratory parameters equipment.

General principles of evidence-based medicine;
Clinical trials (Clinical Trials) controlled guidelines and clinical practice

### Objectives

### Material/ Equipment required
- Identity badge, White coat and stethoscope

### Additional Costs
- None