

INTRODUCTION TO CLINICAL MEDICINE (ML0131)

1. language

English

2. course contents

Coordinator: Prof. POLA ROBERTO

Year Course: 2021/2022 (3rd year)

Semester: Annuale

UFC: 5

Modules and lecturers:

- INTRODUCTION TO CLINICAL MEDICINE (ML0133) - 2 cfu - ssd MED/09

Prof. Massimo Montalto, Roberto Pola

- INTRODUCTION TO CLINICAL MEDICINE PROFESSIONAL TRAINING (ML0134) - 1 cfu - ssd MED/09

Prof. Margherita Bigossi, Federico Biscetti, Antonella Gallo, Matteo Tosato, Angelo Porfidia, Domenico Fusco

- MEDICAL AND HEALTH PSYCHOLOGY (ML0132) - 2 cfu - ssd M-PSI/08

Prof. Gino Pozzi, Marinella Linardos

3. bibliography

Required: *Lynn S. Bickley & Peter G. Szilagyi. Bates' Guide to Physical Examination and History Taking*

Suggested: *John L. Coulehan & Marian R. Block. The Medical Interview: Mastering Skills for Clinical Practice;*

David Simel & Drummond Rennie. The Rational Clinical Examination: Evidence-Based Clinical Diagnosis;

Howard S. Barrows. What Your Tutor May Never Tell You: A guide for medical students in PBL (Problem-Based Learning);

Ayers S. et al. Cambridge Handbook of Psychology, Health and Medicine, 2nd edition. Cambridge University Press, 2007

4. learning objectives

The course of Introduction to Clinical Medicine is divided in 3 different modules that are strongly integrated to each other. The aim is to provide medical and psychological foundations of doctor-patient relationship, expose students to patient care in diverse settings and provide them with the inter-professional experience needed for effective interaction with the patient and the health care system. Students will be made able to develop an integrated approach to history taking, interviewing skills, and the clinical examination. The course is also aimed to nurture attitudes of respect and compassionate interaction with patients, to help students to understand the psychological and socio-cultural context of illness and disease, and to teach them the principles and concepts of medical ethics.

Course Aims: 1) To introduce students with methods to build and maintain a proper

relationship with a patient; teach student the concept of awareness of confidentiality; 2) To make students able to conduct a medical interview, elicit and record a medical consultation appropriately, manage time effectively in a consultation; 3) To introduce students with methods of subjective and objective examination – survey, inspection, palpation, percussion, and auscultation, results interpretation; 4) To teach students how to write academic medical history; 5) To make students aware of the most widespread psychological problems in clinical medicine – including the basis of personality assessment; 6) To encourage students in clinical thinking and decision-making.

5. PREREQUISITES

Students are expected to have sufficient knowledge in anatomy, physiology, and pathophysiology.

6. teaching methods

The course is organized with a series of lectures that will be flanked by practical sessions, small group work, e-Learning resources, and Problem Based Learning (PBL). The common feature of these learning sessions is that they involve active participation, are student-centered and conducive to independent learning as a prelude to continuing life-long education.

7. other informations

None.

8. methods for verifying learning and for evaluation

The final exam will take place at the end of the course during the Ordinary session. The exam will be written and consist of 30 multiple choice questions regarding all modules. Scores will be calculated using the following linear scale equation: $f(x) = y_0 + [(y_1 - y_0)/(x_1 - x_0)] \times (x - x_0)$, with $x_0=17$, $y_0=18$, $x_1=30$ and $y_1=31$. Students proving less than 17 correct answers will fail the exam, while 17 correct answers will correspond to a mark=18 and 30 correct answers will correspond to a mark=30 cum laude.

9. program

Medical and health psychology:

- *Personality characteristics: a case for medical psychology.*
- *Basic concepts of psychotherapy and behavioral change.*
- *Role of stress and coping in health and medicine.*
- *Practical issues of psychology and medicine: health-related behavior, patient-doctor interaction, treatment adherence, medical interviewing.*
- *Interactive training on specific illness (e.g. headache, heart disease, cancer, STDs)*

Introduction to clinical medicine:

- *Learning how to communicate clearly, sensitively and effectively.*
- *Clinical methodology.*
- *Typical disease's features: signs and symptoms.*
- *Identification of clinical problems.*
- *Principles of history taking.*
- *Principles of physical examination.*
- *Clinical reasoning and investigation strategies.*
- *Interpretation of findings and formulation of possible hypotheses.*

Introduction to clinical medicine professional training:

- Health history (anamnesis): identifying data, source, reliability, chief complaint(s), present illness, past history, family history, personal and social history, review of systems.

- Physical examination. Patient's examination order. General survey (general state of health, nutritional status, level of consciousness, posture, manner of speaking). Vital signs. Facial expression (facies). Skin changes. Oedema. Lymph nodes. Chest inspection (shapes, ribs, sternum, spine, type of breathing, cyanosis), palpation (tactile fremitus, chest expansion/symmetry, lymph nodes, masses), percussion (resonant sound, dullness, hyper-resonant sound, diaphragmatic excursion), and auscultation (vesicular sounds, bronchial sounds, added sounds: crackles, wheezes, rhonchi, pleural friction rubs, stridor).

Cardiovascular system examination: jugular vein evaluation, carotid pulsation and bruit, apical impulse, physiological heart sounds, heart sound changes, heart murmurs.

Examination methods of blood vessels (pulses and bruits). Abdominal examination: inspection (shape, skin, umbilical scar, subcutaneous venous dilation), auscultation (abdominal sounds, murmurs), palpation (tenderness, liver, spleen, masses, pulsations), and percussion (airfill areas, ascites and shifting dullness).