

BSc in Physiotherapy

INTEGRADED COURSE TITLE:

ONCOLOGY

NUMBER OF ECTS CREDITS: 4**SSD:** MED/06, MED/18, MED/41**MODULE CONVENOR:** PROF. PIETRO PRINCI**E-MAIL:** pietro.princi@unicamillus.org

Appointments will be set according to students' requests

MODULE: ONCOLOGY

NUMBER OF ECTS CREDITS: 2

SSD: MED/06

PROFESSOR : [SILVIA RIONDINO](#)e- mail: silvia.riondino@unicamillus.org

MODULE: GENERAL SURGERY

NUMBER OF ECTS CREDITS: 1

SSD: MED/18

PROFESSOR : [PIETRO PRINCI](#)e- mail: pietro.princi@unicamillus.org

MODULE: ANESTHESIOLOGY

NUMBER OF ECTS CREDITS: 1

SSD: MED/41

PROFESSOR : [ALESSIO VALENTE](#)e- mail: alessio.valente@unicamillus.org**PREREQUISITES**

Although there is no propaedeuticity, in order to understand the course the student should have basic knowledge of human anatomy and pathophysiology, cancer pathophysiology and epidemiology, biology and immunology.

LEARNING OBJECTIVES

The student should know the predisposing conditions and clinical features of different solid neoplastic diseases that define a diagnostic pathway. The knowledge of prognostic and predictive factors according to the characteristics related to the neoplasm and the patient, will enable the understanding of the management strategy of the different tumors, taking into account the therapeutic options applicable in the various stages of the disease and their side effects in order to integrate the knowledge proper to the professional profile in a multidisciplinary collaborative perspective. The course will also provide useful tools for understanding the pathologies of surgical interest, the main anesthesiological techniques (general, neuraxial and regional anesthesia), the approach to the patient in the intensive care setting, and the general orientation on chronic pain management, with particular emphasis on oncological pain.

LEARNING OUTCOMES**Knowledge and Understanding**

At the end of this teaching, the student should demonstrate knowledge of:

- the major phases of general and peripheral anesthesia and their influence on the management of operated patients and their clinical evolution
- the basis of reasoning from which intensivists' choices arise
- the need to be prepared for multidisciplinary treatment of painful conditions.



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- the main clinical signs and symptoms, diagnostic streams and risks/complications of patients with problems of surgical interest;
- the clinical features of different solid neoplastic diseases.

Applying knowledge and understanding

Upon completion of the course, the student will be able to apply his or her knowledge and comprehension skills in a manner that demonstrates a professional approach to his or her work, and possess adequate skills both to devise and support arguments and to solve problems in his or her field of study and, in particular, in the study of oncological pathologies through the proper conduct of working procedures and experimental protocols independently and in collaboration with the medical profession.

Communication skills

At the end of the course, the student should know how use specific scientific terminology in an appropriate manner.

Making judgements

At the end of the course, students must possess the ability to collect and interpret data deemed useful for integrating and applying knowledge to clinical reasoning related to the approach to the patient diagnosed with cancer, and its complications, formulating an independent judgment. This will make them independent even from the point of critical judgment on social, scientific or ethical issues related to them.

COURSE SYLLABUS

Syllabus Oncology

- Epidemiology of cancer and prevention
- Prognostic and predictive risk factors
- Carcinogenesis, cancer growth and proliferation, cancer immune tolerance
- Assessment and investigations of patients with cancer, including history, physical examination, laboratory and imaging techniques. Performance Status Evaluation (Karnofsky and ECOG scores)
- Tumour staging
- Response Evaluation Criteria In Solid Tumours (RECIST)
- Principles of therapy of oncological diseases and clinical effects of therapeutic approaches used: Surgery, radiotherapy, cytotoxic approach (neoadjuvant, adjuvant, metastatic and palliatives approaches), target therapy and immune anti-cancer agents. Drug resistance
- Management of medical emergencies and complications resulting from cancer or its treatment
- Clinical rehabilitation of cancer patients.

Syllabus General Surgery

- SHOCK
- THYROID – PARATHYROID – ADRENAL GLANDS
- ESOPHAGUS-STOMACH-DUODENUM
- SMALL INTESTINE- APPENDIX
- LARGE INTESTINE –RECTUM –ANUM
- SPLEEN- PANCREAS
- LIVER –BILIARY TRACT – GALLBLADDER



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- ABDOMINAL WALL
- DIGESTIVE HEMORRHAGE
- ACUTE ABDOMEN

Syllabus Anesthesiology

Techniques of Clinical anesthesia: general, epidural, spinal, regional, local and their combinations.

Anesthetic "gear". Indications, contraindications, benefits and risks of anesthetic techniques.

Frequent reasons of admission to intensive care unit.

Principles of medical choice in critical illness setting : aims and ethical dilemmas.

Approach to acute and chronic pain management : medications, minimally invasive techniques.

Multidisciplinary nature of pain medicine.

MONOGRAPHIC COURSE : Peculiarities of pain due to cancer and specific approaches to it.

COURSE STRUCTURE

The Teaching is structured in 40 hours of frontal teaching, divided into lectures of 2, 3 or 4 hours according to the academic calendar. Frontal teaching includes theoretical lectures and supplementary seminars on the topics covered. Attendance is compulsory for at least 75 percent of the summed hours on all lectures in the integrated course.

COURSE GRADE DETERMINATION

The verification of the students' preparation on the subjects of the Integrated Course consists of a written test.

The written exam of Oncology consists of a questionnaire with 30 multiple choice and/or open questions on the topics covered during the lessons; that of Anesthesiology in a test with 30 multiple choice questions, that of General Surgery in 15 multiple choice questions.

The final evaluation will be expressed in thirtieths.

OPTIONAL ACTIVITIES

In addition to teaching activities, students will be given the opportunity to participate in Seminars, Research Internships, Department Internships and Monographic Courses. The subjects of the activities are not exam subjects.

READING MATERIALS

ONCOLOGIA MEDICA / ONCOLOGY

Chmielowski B., Territo M.C. Manual of Clinical Oncology. Ed: Lippincott Williams and Wilkins.

ISBN 9781496349576

CHIRURGIA GENERALE / GENERAL SURGERY

Titolo: Compendio di Chirurgia per le professioni sanitarie

Autori: ESDD – A. Divizia C. Fiorani G. Maggi F. Romano

ANESTESIOLOGIA / ANESTHESIOLOGY

Professor's notes

Reference : Butterworth, JF, Mackey DC, Wasnick JD (Eds) : Morgan & Mikhail's Clinical Anesthesiology, McGraw Hill 2022 /