UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# SYLLABUS DEL CORSO

# Assistenza Infermieristica in Medicina Specialistica

**2526-2-I0101D011**

## Aims

At the end of the course, the student will be able to:
Knowledge and understanding skills
Plan nursing care for individuals with a specialized condition, identifying care priorities and contextualizing interventions in relation to the clinical picture and specific clinical pathway.
Applied knowledge and understanding skills
Apply clinical and theoretical knowledge to meet the complex care needs of individuals in various specialized settings, integrating scientific evidence into nursing practice.
Judgment autonomy
Express autonomous judgments in the assessment and management of patient care, recognizing clinical priorities and critically reflecting on their professional role.
Communication skills
Communicate effectively with members of the interprofessional team and the scientific community, sharing care plans, clinical data, and nursing research findings.
Learning ability
Develop the ability for autonomous learning, deepening knowledge and skills in relation to the evolution of clinical practice and scientific production, and promoting evidence-based effective assistance.

## Contents

To introduce nursing process through the follow four-stage nursing process: Outcome phase, Implementing phase, in people who is affected by oncology, cardiology, respiratarory, neurology end infective pathology.
To introduce the bases of physiopathology and treatment of the main oncology, cardiology, respiratory, neurology end infective pathology

## Detailed program

CLINICAL SPECIALTY NURSING - A middle range theory of self-care of chronic illness.

**Nursing care to patients affect by cancer.** Nursing care to patients undergoing bone marrow biopsy and bone marrow aspirate; prevention and treatment of extravasation, pain and palliative care, main nursing care in patients with oncological pathology

**Nursing care to patients affect by heart failure:** the management of central venous catheter; total parenteral nutrition; congestive heart failure and myocardial infarction. Nursing to patients during: Percutaneous Transluminal Coronary Angioplasty, Central Venous Pressure measurement (PVC).

**Nursing care to patients affect by infectious diseases:** HIV (nursing care, prophylaxis for pre and post exposure, HIV-positive women in pregnancy, childbirth and lactation) tuberculosis, and Antimicrobial Resistance. Knowledge of the guidelines for the isolation (air, contact and droplets ways of infection).Nursing care for the person affected by the SARS-Cov-2 virus.

**Nursing to patients affect by neurological disease:** ischemic end emorragic stroke, Parkinson, motor neuron disease (MND) and epilepsy. Nursing to patients during the execution of therapeutic lumbar puncture.

Nursing notes to people with acute and chronic renal failure and during hemodialysis and peritoneal dialysis.

MEDICAL ONCOLOGY Epidemiology of neoplasms. Definition and characteristics of tumors. Notes on carcinogenesis. Etiology of tumors: chemical, physical, biological factors Prevention and early diagnosis: screening programs. Diagnosis of neoplasia: instrumental diagnostics (radiodiagnostics, nuclear medicine) and biohumoral (tumor markers); biopsy and anatomo-pathological diagnosis; notes on molecular biology diagnostics (somatic and germinal genomic alterations/mutations). Staging (TNM-other staging systems). Symptoms of tumors (direct and indirect). Subdivision of tumors based on their potential curability and curability. Principles of surgery, radiotherapy, hormone therapy, immunotherapy, molecular targeted therapies, antiblastic drug conjugates, autologous and allogeneic bone marrow transplantation. Chemotherapy: the main antiblastic drugs, mechanism of action, therapeutic effects and adverse events. Adjuvant - primary - curative - palliative chemotherapy. Chemotherapy administration methods. Criteria for choosing therapy: from controlled clinical trials to the patient's bedside. The main tumors: Breast cancer, Gastrointestinal tract tumors, Lung/pleural cancer, Hematology-oncology: Leukemia, malignant lymphomas and multiple myeloma. Palliation and treatment of terminal illness. Pain therapy. The relationship between healthcare personnel, patient and family. Communication of diagnoses, information and Informed Consent, training. Notes on clinical research: clinical studies and their conduct.

RESPIRATORY DISEASES - Anamnesis and physical examination. Blood Gas Analyses. Respiratory physiopathology. Diagnostic Imaging. Bronchoscopy. Bronchial asthma. Chronic obstructive pulmonary disease. Chronic bronchitis. Emphysema. Bronchiectasis. Sarcoidosis. Pneumoconiosis. Idiopathic interstitial pneumonia. Pleurisy. Pleural effusion. Pneumothorax. Lower respiratory tract infections: community-acquired pneumonia, nosocomial pneumonia. Chronic respiratory insufficiency. Diagnosis of respiratory failure. Causes of acute respiratory failure. Oxygen therapy. Non-invasive mechanical ventilation. Tracheostomy.

CARDIOVASCULAR DISEASES - Major signs and symptoms of heart disease. Diagnostic role of instrumental examinations in cardiology:

standard electrocardiogram, exertional electrocardiogram, doppler echocardiogram, the 24-hour blood pressure monitoring. Cardiac catheterization and coronary angiography. Acute coronary syndromes. Angina pectoris. Arrhythmias in acute and chronic ischemic heart disease. Notes on medical and interventional therapy. Acute heart failure. Chronic heart failure. Arrhythmias in heart failure. Notes on medical treatment and electrical therapy decompensation. Pericarditis. Coxsackie. Endocarditis. Clinical and diagnostic aspects. Therapy notes. Erdeditary arrhythmogenic cardiomyopathies

INTERNAL MEDICINE 2 - General information on infectious diseases. Germ-host interaction. Ways of transmission

of infectious diseases. General principles in the approach to the problems of infections. Notes on pharmacokinetics and pharmacodynamics of antibiotics. Parenterally transmitted infectious diseases. HIV/AIDS infection. Tuberculosis and infectious diseases to aerial transmission. Infectious disease of the respiratory tree: pneumonia and flu. CNS infections: enteroviral meningo-encephalitis and meningitis. Diarrhea and infectious diseases with oral-fecal transmission. Healthcare-associated infections and patient approach with multi resistant germs. Immunodeficiency and infectious risk. Malaria and tropical medicine. Dengue and West nile. SARS – COVID 19 Infection.

NEUROLOGY - Stroke. Epilepsy. Neurodegenerative diseases. Peripheral neuropathies and myopathies. Multiple sclerosis.

## Prerequisites

Positive evaluation in these previous exams: Fundamentals of Nursing and Midwifery Sciences; Nursing Clinical Methodology; Nursing Clinical Methodology 1; Biomedical Sciences 1; Human Phisiology.

## Teaching form

Lectures. Narration. Bibliographic search.
Didactic delivery in all modules.
There will be some lectures on nursing assistance in specialist medicine in interactive mode.

## Textbook and teaching resource

- Hinkle J.L., Cheever K.H. (2017) Infermieristica medico-chirurgica, IV ed. Milano: Casa Editrice Ambrosiana, Vol. 1 e 2;

- Ausili D., Baccin G., Bezze S., Di Mauro S., Sironi C. (2018) L'impiego dell'ICNP® con il Modello assistenziale dei processi umani: un quadro teorico per l'assistenza infermieristica di fronte alla sfida della complessità.

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- Herdman TH, Kamitsuru S. (2015) Nanda International, Diagnosi infermieristiche Definizioni e Classificazione 2015/2017. Milano: CEA; In-depth bibliography

## Semester

2nd Year, 2nd Semester

## Assessment method

There are no ongoing tests.

The final exam consists of a written part and an oral part.
The written part consists of closed-answer tests (multiple choice choice) for the extensive control of the preparation on the exam program. Allocated time: 60 minutes
The oral part provides an interview for the verification of critical thinking in relation to the nursing care process.

## Office hours

On appointment

## Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY