

CLINICAL NURSING IN NEUROSCIENCE

YEAR/SEMESTER: Second year/second semester

ECTS: 3

Course coordinator: Dr Maria Gloria Modena

MODULE	SSD	ECTS	HOURS	MILAN PROFESSOR
neurology	MED/26	1	15	Simona Marcheselli
psychiatry	MED/25	1	15	Giampaolo Perna
clinical and paediatric general nursing sciences	MED/45	1	15	Maria Gloria Modena

COURSE OBJECTIVES:

- Provide knowledge to identify disease signs and symptoms, discriminating pathological conditions on the basis of aetiology.
- Provide tools useful to identify and personalise care interventions and activities useful to restore general health conditions in degenerative or emergency/urgency situations.
- Cultivate and promote the consultation of scientific evidence to provide best practice care for patients with neuropsychological disorders.
- Promote the development of the nursing processes for neuropsychopathological cases through critical thinking.
- Develop care pathways based on the correct recognition and identification of care problems, their neuropsychopathological or related aetiology, and semiology.

TEACHING METHODS: Lectures, plenary discussions, group work, presentation of clinical cases and guided clinical reasoning (case method)

PREREQUISITES: none

ASSESSMENT METHOD: Written examination with multiple-choice tests and oral examination.

MODULE: NEUROLOGY MED/26

LEARNING OBJECTIVES:

SUGGESTED READING: Material provided by the professor

CONTENTS:

- 1- NEUROANATOMY, NEUROPHYSIOPATHOLOGY, APHASIA IN DEPTH
- 2- NEUROLOGICAL EXAMINATION
- 3- INTRACRANIAL HYPERTENSION
- 4- TRAUMATIC BRAIN INJURY
- 5- ISCHAEMIC AND HAEMORRHAGIC STROKE
- 6- PARKINSON
- 7- DEMENTIA
- 8- MENINGITIS
- 9- NEURODEGENERATIVE DISEASES: multiple sclerosis, amyotrophic lateral sclerosis, guillain barrè and myasthenia

MODULE: PSYCHIATRY MED/25

LEARNING OBJECTIVES:

The main objective of the course is to enable students to become aware of the crucial role of the mental state and its disorders when managing patients, the many interactions between mental and medical disorders, and the principles of behaviour analysis and modification.

Students will learn how to differentiate normality from pathology in mental health, to recognise the organising principles of each mental disorder with their psychopathological characteristics, and to evaluate and manage intervention options for patients with mental distress. Of equal importance, the student will be taught on managing relationships with the psychiatric patient, family members and other health professionals. Particular attention will be given to the management of emergencies and abnormal behaviour of psychiatric patients.

SUGGESTED READING:

a. Slides

b. Reference texts:

1. North CS & Yutzy SH. **Goodwin and Guze's Psychiatric Diagnosis, 7th Edition**, Oxford University Press, 2019.
2. Oyebode F. **Sims' Symptoms in the Mind: Textbook of Descriptive Psychopathology** (6th Edition), Elsevier, 2018 (It's ok also the 5th Edition, Saunders Ltd)
3. Preston J & Johnson J. **Clinical Psychopharmacology Made Ridiculously Simple: updated for dsm-5**, Medmaster, 2013
4. Kearney A. **Understanding Applied Behavior Analysis: An Introduction to ABA for Parents, Teachers, and Other Professionals**, Jessica Kingsley Pub; 2nd edition, 2015

c. Any scientific articles or literature reviews suggested by the professor.

CONTENT

- 1- What is psychiatry?
- 2- General aspects of psychopathology
- 3- Psychiatric interview and mental state examination
- 4- Behavioural analysis and modification techniques
- 5- Psychotic disorders
- 6- Mood disorders
- 7- Anxiety Disorders
- 8- Obsessive-Compulsive Disorders

9- Eating Disorders

10- Role of personality in psychiatry

11- Psychiatric aspects of medical disorders

12- Emergency management in psychiatry (suicidality, psychomotor agitation, anxiety attacks, aggression, involuntary treatment (TSO) and mandatory medical assessment (ASO))

13- Outline of pharmacological and non-pharmacological therapies

MODULE: CLINICAL AND PAEDIATRIC GENERAL NURSING SCIENCES MED/45

LEARNING OBJECTIVES:

The student will be able to describe the conditions associated with alterations in consciousness and/or sensory-motor functions, describe their manifestations, possible correlations and potential consequences through the detection of signs and symptoms. The student will also be able to recognise and describe the symptoms associated with cerebrovascular, parkinsonian and cognitive-degenerative pathology, and symptoms related to cranial and spinal neurosurgery. The student will also be able to conduct critical reasoning, on the basis of the reference guidelines, in order to identify and outline the patient care plan aimed at restoring, maintaining or consolidating his or her health conditions.

MANDATORY READING: provided by the professor

SUGGESTED READING:

- Cerri, Galdi, Raganini, Torre, *Nursing in neurologia: criticità e complessità assistenziali*, Poletto editore (distribuito da Edimediche: info@edimediche.it)
- Hogan-Quigley, Palm, Bickley, BATES- Valutazione per l'assistenza infermieristica, CEA (cap. 19-20)
- Saiani, Brugnolli, Trattato di cure infermieristiche, ed. Sorbona, Volume I e II
- Linee Guida ISO - SPREAD (Stroke PRevention and Education Awareness Diffusion) → <http://www.iso-spread.it/index.php?azione=capitoli#end> // Linee Guida AHA-ASA (American Heart Association – American Stroke Association) → <http://stroke.ahajournals.org/>
- Linee Guida Epilessia → https://www.lice.it/LICE_ita/lineeguida/lineeguida.php)

CONTENT:

- 1- ALTERATIONS IN CONSCIOUSNESS: care problems, aetiology and symptomatology related to onset and the evolution of the impairment.
- 2- CEREBROVASCULAR EVENTS: applying the guidelines, prevention of complications and neurological monitoring.
- 3- ELEMENTS OF CRANIAL NEUROSURGERY AND POSTOPERATIVE NEUROLOGICAL MONITORING: surgical approaches and care needs, intracranial hypertension syndrome, nursing the patient with invasive EVD.
- 4- SENSORY-MOTOR ALTERATIONS: care problems, aetiology and related symptoms at the onset and evolution of the impairment.
- 5- PARKINSON'S AND DEMENTIA: Disease-related care problems and nursing approach strategies.
- 6- ELEMENTS OF SPINAL CORD NEUROSURGERY AND POSTOPERATIVE NEUROLOGICAL MONITORING: surgical approaches and care needs related to the aetiology of symptoms.