

**TEACHING SHEET
A.A. 2020/2021**

BARI ENGLISH MEDICAL CURRICULUM

Teaching: NEUROSURGERY

Professor: PROF. FRANCESCO SIGNORELLI, MD, MSc

Teaching S.S.D.	MED/27 (Neurosurgery)
Year	5°
Credits	1 CFU
Semester	FIRST
Prerequisites	Students should possess detailed knowledge of neuroanatomy and neurophysiology.

ORGANIZATION OF THE COURSE

Frontal lesson	Number of hours: 12
Professional activities	Not scheduled, however they can be arranged with the professor.

PROGRAMME OF THE TEACHING

Learning outcomes	The aim of the course is to provide useful knowledge of the most important pediatric and adult age conditions of neurosurgical interest, including anatomico-clinical correlations, differential diagnosis and principles of
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	treatment.
Mode of delivery	In presence or remote, by Teams platform.
Recommended textbook and teaching material	<ul style="list-style-type: none">- Slides of the lessons- M.H. Greenberg. Handbook of Neurosurgery. 8^a ed. Thieme
Learning assessment	Oral examination, in presence or on Teams platform, will cover all topics developed during the courses. However, the examination cannot prescind from thorough knowledge of anatomy and physiology of the nervous system. The scope of the assessment is to verify the student's level of specific knowledge and her/his proficiency in formulating a correct diagnosis, differential diagnosis and treatment principles of studied conditions. Exams are scored in 30ths and honors may be granted at discretion of the President of the board of the exam.

Detailed programme of teaching

<u>Topics of the course</u>
Hydrocephalus Composition of cerebrospinal fluid (CSF) and physiopathology of CSF flow Definition, epidemiology, etiology and classification of hydrocephalus Clinical picture of acute, chronic and normal pressure hydrocephalus Diagnosis and differential diagnosis Principles of treatment
Intracranial hypertension Definition, epidemiology, etiology Physiopathology Clinical picture Diagnosis and measure of intracranial pressure Brain herniation syndromes Principles of treatment
Spontaneous brain hemorrhage and brain vascular malformations Definition, epidemiology, etiology and classification Clinical picture



Diagnosis and differential diagnosis

Principles of treatment

Primary and secondary brain tumors of central and peripheral nervous system

Definition, epidemiology, etiology and classification

Clinical picture

Diagnosis and differential diagnosis

Principles of treatment

Traumatic brain injuries, missiles brain injuries and hemorrhagic complications

Definition, epidemiology, etiology and classification

Clinical picture

Diagnosis and differential diagnosis

Principles of treatment

Traumatic spine and spinal cord injuries

Definition, epidemiology, etiology and classification

Clinical picture

Diagnosis and differential diagnosis

Principles of treatment

Radiculopathies, mononeuropathies and plexopathies

Definition, epidemiology, etiology and classification

Clinical picture

Diagnosis and differential diagnosis

Principles of treatment