



*Knowledge in Clinical Neuroscience is expanding fast. This interdisciplinary course will bridge different subspecialties into an integrated and comprehensive program. By completion of the program, students will have adequate knowledge of the main neurological and psychiatric diseases, their pathophysiology and treatment.*

*The Neurology module will address the approach to a patient with symptoms of neurological impairment including symptoms of cognitive, motor, sensory and autonomic impairment, which indicate involvement of brain, spinal cord, nerves or muscles. The approach is symptom-based and patient-centered. The students will learn how a physician should investigate these symptoms and assess the patient's neurological status.*

*The Neuroradiology module reviews the role diagnostic and interventional radiology applied to neurological diseases. This module instructs on some of the basic aspects of neurologic imaging, including anatomy of the brain and spinal cord as shown by CT and MRI, and diagnosis of diseases and abnormalities of the central nervous system.*

*The Neurosurgery module provides an overview of the surgical management of brain and spine neurological diseases. It integrates with diagnostic procedures and technological advancements with a special focus on intraoperative devices*

*The Mental Health module will let students become aware of the many interactions between mental and medical disorders and learn how to differentiate normality from pathology in mental health, to recognize the organizing principles of each mental disorders with their key psychopathological features and neuroscientific basis, make a differential diagnosis, choose among treatment options and understand the many links between mental and somatic disorder, all in the light of personalized medicine approach.*

*The course is dedicated to 5<sup>th</sup> year medical students who already master the fundamental knowledge required to approach the integrated field of Clinical Neuroscience. This includes the*



*neruanatomy and neurophysiology teaching . Neuroanatomy (1st year) frontal lessons have been given by the same teachers as per neurosurgery in this course*

















*Handbook of Neurosurgery, 9<sup>th</sup> Edition, by Mark S. Greenberg – Thieme Medical Publishers 2019*

*Stahl's Essential Psychopharmacology: Neuroscientific Basis and Practical Applications by Stephen Stahl*

*Goodwin and Guze's Psychiatric Diagnosis, by North CS & Yutzy SH, 7th Edition, Oxford University Press, 2019.*

*Oyebode F. Sims' Symptoms in the Mind: Textbook of Descriptive Psychopathology, 7th Edition, Elsevier, 2022*