

M.S. Ramaiah University of Applied Sciences

New BEL Road, MSR Nagar, Bangalore – 560054



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES

PO, PSO & CO

Programme: M.CH Neuro Surgery

Programme Code: 157

Programme Outcome (PO)

Programme Specific Outcome (PSO)

Course Outcomes (CO)

Shalini

Principal and Dean

M.S. Ramaiah Medical College and Hospital
M.S. Ramaiah University of Applied Sciences

Bangalore - 560054



Ramaiah Medical College (RMC)

Programme Outcomes

Post Graduate Programme: M.ch Neurosurgery

Programme objectives (PO) for M.ch Neurosurgery Postgraduate students

At the end of the program the postgraduate students should

- PO1.** Acquire adequate knowledge in Neuroanatomy, Neuropathology, Neuro - Pharmacology Neuro-Radiology and clinical Neurosurgery (C)
- PO2.** Know the utility, limitations and interpretation of the result of various investigative modalities commonly used in neurosurgery (C)
- PO3.** Achieve competence in neurological evaluation of the patients which includes history taking skills, detailed neurological examination and clinical analysis to arrive at a provisional diagnosis. (C, P)
- PO4.** Ability to diagnose, triage and surgically manage all neurosurgical elective and emergency cases with competence, compassion and sensitivity towards patient care. (A,C,P)
- PO5.** Independently develop research studies / projects relevant to neurosurgery. (C).

Programme Specific Outcomes (PSOs)

Programme specific outcome (PSO) for M.CH Urology Postgraduate students

- PSO1.** Develop the knowledge, skills and attitude to be a competent neurosurgeon. (A,C,P)
- PSO2.** Demonstrate a commitment to excellence and continuous professional development with integrity, compassion and sensitivity to patient care and outcomes. (A)
- PSO3.** Develop adequate teaching skills and also acquire the knowledge, and attitude to be a competent and ethical researcher and teacher. (A,C,P)
- PSO4.** Ability to diagnose, triage and surgically manage all neurosurgical elective and emergency cases with competence, compassion and sensitivity towards patient care. (C,P)
- PSO5.** To align the knowledge and competence to fulfil the goal of national and international health programmes. (C)

Course Outcomes (COs)

Course Title & Code: Basic sciences relevant to the Neurosurgery (MCHC505A)

Subjects At the end of the course, the students should be able to:

- CO-1.** Demonstrate comprehensive knowledge of Neuro anatomy, Neurophysiology, Neuro pharmacology, Neuro radiology
- CO-2** Demonstrate competence in neurosurgical history taking and diagnosis

CO-3. Develop basic neurosurgical operative skills sets

Course Outcomes (COs)

Course Title & Code: Principles of Neurosurgical disease diagnostic techniques and allied specialities (MCHC506A)

Subjects At the end of the course, the students should be able to:

- CO-1.** Prescribe relevant investigative modality based on clinical presentation and examination.
- CO-2.** To accurately interpret the investigative modality to come to the correct diagnosis
- CO-3.** To make a management plan, conservative / surgical based on the investigations.

Course Outcomes (COs)

Course Title & Code: Management aspects of Neurosurgery (MCHC507A)

Subjects At the end of the course, the students should be able to:

- CO-1.** To decide the required surgical procedure based on clinical and radiological presentation.
- CO-2.** To attain knowledge of the surgical neuro anatomy and steps of neurosurgical procedure and possible complications to be anticipated.
- CO-3.** To use high end neurosurgical equipment (Microscope navigation drills)

Course Outcomes (COs)

Course Title & Code: Recent advances in Neurosurgery (MCHC508A)

Subjects At the end of the course, the students should be able to:

- CO-1.** Skill training in the use of high speed drills to perform craniotomy and laminectomy
- CO-2.** Ability to use high power microscope in the excision of brain and spinal cord tumors evacuation of deep seated hematoma.
- CO-3.** To understand the indications and the ability to use Neuronavigation, Intraoperative Neuro monitoring, Intra operative ultrasound.

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