

# **ANAESTHESIA AND CRITICAL CARE AT MMC**

## **INTRODUCTION:**

Anesthesia is a state of control, temporary loss of sensation or awareness that is induced for medical purposes; it may include some or all analgesia, paralysis, amnesia and unconsciousness.

The department was founded and started with 2 O.T.s and now the department has come a long way since then. Our faculty and residents now provide clinical care in more than 11 O.T.s, emergency wards and ICUs.

Clinical care, Academic teachings and research goes hand in hand as envisioned by the founders of the institute.

Over the years along with the development of medical sciences, the department has achieved its own high standards inpatient care, education and research.

## **HEAD OF DEPARTMENT:**



### **DR. Mohammad ASAD**

#### **Professor and Head of Department, Anaesthesiology**

He did his graduation (M.B.B.S.) and Post-Graduation from J.N.M.C. Aligarh. After doing his senior residency in Anaesthesiology from the same institute, he joined as Assistant Professor at Government Medical College, Haldwani (Nainital).

He joined MMC in 2013 as an Assistant Professor and was then subsequently promoted to Associate Professor and Professor.

He has supervised, authored and co-authored various national and international publications and takes an avid and keen interest in departmental and teaching activities.

## **VISION OF THE DEPARTMENT:**

To achieve excellence in the field of Anaesthesiology, by working on assignments in Anesthesia, Critical Care, Pain management and trauma care.

## **MISSION OF THE DEPARTMENT:**

Train UG and PG students so that they work along with the faculty with commitment, hard work, and integrity to achieve excellence in knowledge and patient betterment

## **FACILITIES:**

- Pre and Post Operation rooms.
- Modular O.T. Complexes
- Pain Clinic.
- PAC Clinic

## **EQUIPEMENTS:**

- Advance work stations for Anesthesia delivery with different Inhalational vaporizers.
- Ventilators with all advanced mode of ventilation
- Multi-Para Monitors.
- All advanced respiratory equipment needed for immediate Post-Op and ICU care
- Fiber Optic Equipment for Intubations along with all advanced intubating aids.
- C-Arm, USG, Nerve stimulators for nerve blocks.
- NMC approved mannequins for teaching ACLS and BCLS.

## **COURSES:**

The department has established and recognized Master's degree course (M.D.). Selections are made once a year and are based on the NEET examination. All PG students are compulsorily rotated in all specialties, super specialties, and Intensive care units.

Every student is required to do a compulsory dissertation (Thesis), the protocol of which is submitted in 12 months and the final dissertation is to be submitted at 30<sup>th</sup> month post-enrollment. Acceptance of a dissertation is mandatory for awarding the degree. Regular theory, viva-voce examinations are conducted at regular intervals. At present, the department has 12 PG students

## **FROM DOCTORS AT DEPARTMENT:**

- Pain relief before, during and after surgery – Sedation, General anesthesia, and regional anesthesia.
- Monitoring including H.R., N.I.B.P., Temperature monitoring, Breathing assessment, and Fluid Balance monitoring (CVP included)
- Post-Operative analgesia and care
- Specialty modality including cardiac, pediatric, Neuro, Uro, and obstetrics anesthesia
- PCA
- Teaching including regular seminars, tutorials, periodic examinations.

All the faculty members are dedicatedly available around the clock to demonstrate, guide, and help the resident to learn and excel in the field of anesthesia.

## **ACADEMIC ACTIVITIES:**

- Seminars
- Tutorials
- Case Presentations
- Paper and Poster presentations
- COVID 19 Training
- ACLS and BCLS Workshops Simulation workshops
- Periodic internal examination
- Regional an aesthesia and airway workshops.

## **PREPERATION FOR THE THIRD COVID WAVE:**

Our department is well prepared for the 3<sup>rd</sup> wave of COVID with adequate manpower, equipments, and other resources.

During the previous waves, our department had played a central role in the management of sick patients. The Department of anesthesiology was responsible for continuous and continual monitoring of these patients. Oxygen therapy and non-invasive/invasive management of these patients were responsibly undertaken. We were also managing all the documentation and record-keeping along with the office of the Medical Superintendent.

Because of our active persuasions, the medical college now has 50 HFNCs, 50 universal ventilators, and 25 BIPAPS. The college has its own oxygen generation plant (PSA) with a capacity of around 1200 L/Min., its own liquid medical oxygen plant of capacity of 20000 liters and more than 300 Type-D oxygen cylinders. We have over 300 beds with central oxygen and suction supply in addition to 125 bedded pediatric covid wards with central oxygen supply.