

DEPARTMENT OF ANESTHESIOLOGY, CRITICAL CARE AND PAIN

During the 2021 calendar year, the Department catered to clinical services in three locations: MPMMCC Varanasi, HBCH Varanasi, and also HBCH&RC Muzaffarpur (01/07/2021 to 31/12/2021).

Patient Service Data for 2021	
Anaesthesia Services	
Major & Supramajor Operative Cases	MPMMCC and HBCH Varanasi: 3510 cases HBCH&RC Muzaffarpur: 180 cases
Brachytherapy OT cases (under anaesthesia)	425 patients
NORA (CT, MRI, Paediatric Radiotherapy)	331 patients
PAC OPD Visits	7348 visits
Recovery Room admissions	HBCH: 104 patients MPMMCC: 1981 patients
Critical Care services	
ICU admissions	HBCH: 209 patients MPMMCC: 1529 patients
Dialysis	90 sessions (28 patients)
Pain Services	
Patients seen by Acute Pain Services	502 patients

Significant Quality Achievements of the Department:

The Consultants and Senior Residents of department provided round the clock on-site services for the 28 bedded COVID19 HDU (level 2 & level 3 care facility) at HBCH Varanasi between 3rd week of April 2021 and 3rd week of June 2021 (2nd wave of COVID 19 pandemic in 2021).

Quality indicators:

- **Acute Pain Service:**

Introduction and scaling up of routine USG guided nerve blocks for acute postoperative pain, viz. serratus anterior plane block, erector spinae plane block, TAP block, sciatic nerve block, fascia iliaca plane block, femoral nerve block, interscalene brachial plexus block, suprascapular nerve block. Thoracic epidural analgesia, intrathecal morphine analgesia, IV Fentanyl PCA routinely used to suit the particular needs of individual patients and surgical procedures.

- **Anaesthesia:**

MPMMCC & HBCH Varanasi: 8 major OTs (6 days a week, plus emergency cases), PAC OPD (General & Private, 5 days a week), NORA (3 days a week), Brachytherapy OT (3 days a week), Acute Pain Service for all in-patients.

HBCH & RC Muzaffarpur: 1 major OT plus PAC OPD run by one Consultant on Special Deputation four days a week, 1st July to 31st December 2021.

Compliance of CVC insertion under USG guidance by Consultants and Senior Residents have been achieved in 100% cases, to ensure patient safety.

USG guided arterial line insertion using in-plane needle tip visualisation have been introduced and practised to improve procedural success in the first attempt.

Compliance of awake tracheal intubation by video-bronchoscopy under topical anaesthesia of airway in anticipated difficult airway achieved in 100% cases by Consultants and Senior Residents.

Anaesthesia services for CRS with HIPEC have been started and nil mortality among 8 cases in 2021.

- **Critical Care:**

MPMMCC Varanasi: 13 bedded ICU; 8 bedded postoperative recovery unit.

HBCH Varanasi: 6 bedded ICU for Hemato-Oncology and Pediatric Oncology patients; 4 bedded postoperative recovery unit.

Compliance of CVC & dialysis line insertion under USG guidance by Consultants and Senior Residents have been achieved in 100% cases, to ensure patient safety.

Crude Mortality Rate of 5% (80 out of 1529) ICU admissions at MPMMCC ICU – catering Surgical Oncology, Medical Oncology, Radiation Oncology patients.

Crude Mortality Rate of 32% (65 out of 205 ICU admissions) at HBCH ICU – catering Hemato-Oncology and Paediatric Oncology patients.

Research:

- Two ongoing research projects initiated by consultants in 2021.
- Members of the Department serve on the Institutional Ethics Committee and the Data and Safety Monitoring Unit.

Education:

One-year training programs of OT & ICU Technician are supervised by the Consultants

Staff Members:

Professor	Dr Jyotirmay Kirtania
Associate Professor	Dr. Shreyasi Ray
Assistant Professor	Dr. Uddalak Chattopadhyay Dr. Sandipan Banerjee Dr. Shalini Chaudhari Dr. Nikhil Kumar Singh Dr. Syed Sadaqat Hussain Dr. Shashank Tiwari Dr Monotosh Pramanick Dr Pradeepika Gangwar (Ad-hoc)