

## **Anaesthesiology**

### **1. About Department**

#### **a) Introduction**

The Department of Anaesthesiology was established in 1991. It is located on the third floor of the Bharati Hospital adjacent to the main OT complex. It started its postgraduate courses in August 2003. Currently, the department is qualified to train 14 Postgraduate students for the MD programme . The post graduate students are from all over India. They undergo training in operation theatres, Intensive Care Units, as well as in providing anaesthesia outside the operation theatres such as cathlab , radiology suites, Endoscopy and ECT rooms. They are exposed to every speciality and superspeciality branch including neuro surgery ,vascular surgery, cardiothoracic surgery, paediatric surgery and interventional radiology.

The postgraduate training programme conducted by the department is all- inclusive, covering all the important topics in anaesthesia and is conducted in the form of journal clubs, seminars, case presentations, lectures and tutorials. The department also runs structured Fellowship courses in pain and paediatric anaesthesia. It had conducted a workshop for the International Pain Conference ICRAPAIN2017.

The department provides education as well as training to undergraduate students. We have made a simulation based training programme for the undergraduate students to orient and impart them with the practical skills.

The Department has an excellent infrastructure with state-of-the-art modern operation theaters equipped with the latest anaesthesia work stations, faculty rooms, a seminar room, a library, and a museum. There is also a facility of pain clinic with a full-time interventional pain specialist. The dedicated faculty and staff members are committed to providing quality medical care. The teamwork of the faculty, the staff members, and the postgraduates is responsible for the development of the department.

## **b) Vision, Mission & Objectives**

**Vision:** As per our University moto 'Social transformation through dynamic education', the department of anaesthesia envisions to inculcate a culture of excellence in anaesthesia clinical practice among PG students ensuring safe and effective patient care.

**Mission:** To provide excellent clinical care of anaesthesia services on evidence based knowledge.

### **Objectives :**

- To provide comprehensive ,safe and pain free perioperative care
- To educate and train the residents and fellows with "state - of - art" facilities and under the supervision of expert faculty.
- To nurture the residents to become capable, efficient and independent anaesthesiologist.
- To encourage clinically relevant research activities that would contribute new knowledge to the field of anaesthesia.

## **c) HOD's Message :**

Anaesthesiology is one of the medical branches that has evolved and advanced by leaps and bounds . It is the most dynamic branch in the present era. The role of anaesthesiologist is no more limited in the operation theatre but an anaesthesiologist is now also an intensivist, pain physician, emergency physician,in addition to the perioperative physician.

Our department provides round -the -clock quality health care service not only in the operation theatres but also in various non- operation theatre locations across the hospital.

We provide structured fellowship courses in paediatric anaesthesia and pain in addition to postgraduate training.We train our postgraduate students as well as fellows in a conducive teaching environment to enhance their intellectual, clinical,practical skills and make them capable of providing comprehensive as well as empathetic patient care which is the need of the hour.

All the latest gadgets and equipments are available and our PGs are well versed with them and routinely use them.In addition and rigorous clinical training our students are strongly encouraged to perform research projects in the field. Our alumni have numerous achivements and have been successful in various subspecialities of anaesthesia.

We are committed to provide quality care to our patients and develop multifaceted specialists in anaesthesiology through comprehensive patient care, student education and innovation

**d) Highlights**

Our Anaesthesiology department is committed to driving excellence in teaching, research, and healthcare services.

- The operation theatres are well equipped with modern gadgets.
- We cater to all the super specialty cases like uro surgery, neurosurgery, paediatric surgery, and dental surgery.
- Recently, we have started a dedicated cardiac OT with a full-time cardiac anesthesiologist.
- We provide quality anesthesia care to all patients undergoing diagnostic procedures like CT scan, MRI, cardiac cath lab, and endoscopy suite.
- We offer Fellowship programmes in Chronic Pain.
- Eminent faculty members from outside visit our college.
- We offer dedicated paediatric fellowship programmes to give hands-on training in high-risk neonatal and paediatric OT cases.
- Aside from the conventional teaching methods, we use certain innovative teaching methods (simulation-based manikins) for undergraduate and postgraduate teaching.
- Few faculty members of the department are instructors of certain internationally certified courses such as BLS, ACLS, ATLS, etc.
- University Gold medal PG was awarded to our students in 2015,2016.
- Many students received award for various presentation at National level.

Sr.No	Name of PG	Year	Prize	
1	Dr.Durga	2014	Gold Medal	University Exam
2	Dr.Shruti Rao	2015	Gold Medal	University Exam
3	Dr.Suman Choudhary	2016	1 <sup>st</sup> Prize	National conference
4	Dr.Salil Singh	2016	1 <sup>st</sup> Prize	MISACON National conference
5	Dr.Sheela Lawate	2019	2 <sup>nd</sup> Prize	Solapur National conference
6	Dr.Srilakshmi	2019	1 <sup>st</sup> Prize	Kolhapur National Conference
7	Dr.Niharika	2019	2 <sup>nd</sup> Prize	TMC National conference
8	Dr.Ashish Nair	2020	1 <sup>st</sup> Prize	Essay competition Society of Anaesthesiologists Pune

### e) Teaching and Learning

#### Teaching-Learning Methodology

- Conventional teaching methods are being conducted for graduates and postgraduates on regular basis.
- Hands-on newer techniques like USG guided nerve blocks and central vein cannulations along with Point of Care Ultrasonography (POCUS) are done routinely in the OT.
- Difficult case scenarios and rare cases that are addressed in the OT are discussed as a part of PGP.
- Every postgraduate student is allotted a mentor to guide them.
- Journal club reading and review article discussions are conducted once a month.
- Rotational ICU postings are given for the postgraduates to help them get exposure to critical care medicine.
- Yearly training is offered in BLS, ACLS, and recent advances in anaesthesia and critical care.
- Internal exams for the postgraduates are conducted after every six months.
- Active discussions take place in the OT depending on the cases being posted amongst the OT team.

## 2. Infrastructure

### a) **Labs**

Regular hands on training of all the UG and PG students on Maniquins in simulation lab to enhance skills.

### b) **Patient Care Facilities**

The Department of Anaesthesiology provides quality anesthesia care to all patients. It has a dedicated pre anaesthesia check-up OPD, a state-of-the-art OT complex with well-equipped gadgets and a dedicated USG machine for nerve blocks, and a post-anaesthesia care unit (PACU) for a better outcome for the patients and their early recovery. There are also a tertiary care centre and a specialty clinic that offers pain clinic services for acute pain in postoperative patients and chronic pain services in terminally ill and palliative care patients.

### **3. Research**

#### **a) Overview**

The dedicated researchers of the Department of Anaesthesiology are actively involved in both basic science research and clinical investigation. They are committed to developing new drugs that are safer and more effective. In order to support their research work, the department has collaborated with a training centre and a clinic.

#### **Research Collaboration**

- The department has signed MOU with the CIPLA palliative care and training center, Pune for an observer-ship of the students pursuing a fellowship in chronic pain.
- The department has tied up with Daradia Pain clinic, Kolkata for learning clinical aspects of pain management.

#### **b) Publications**

The Department of Anaesthesiology conducts various research programs and activities. Both the faculty members and the students have several publications to their credit. The faculty members keep themselves engaged in research projects with a focus on the areas of newer technical modalities, drugs, and regional adjuvants. Currently, they are involved in four ongoing research projects.

- Dr.Keniya - Use of water-based spine model as a learning tool for identification of spine structures under ultrasound - an observational study
- Dr.Keniya - A comparative study of USG guided erector spine plane block versus local anaesthetic infiltration in spine surgeries for postop analgesia
- Dr.Abhay Sancheti - USG guided ilioinguinal and iliohypogastric nerve block versus caudal block for postoperative analgesia in children
- Dr.Keniya - Validation of ultrasound for performing caudal epidural injections

#### 4. Testimonials

#### 5. Happenings

##### a) News & Events

- Periodically Alumni meet organised ,last alumni meet was on 25<sup>th</sup> and 26<sup>th</sup> Jan ,2019.which was attende by almost 50 students.
- Department of Anaesthesia BVDUMC ,Pune conducted Compression Only Life Support (COLS) activity as public awamess programme on occasion of World Anaesthesia Day 16h Oct, 2021. . During that period our Department has conducted COLS demonstration on manikin at various places (outside operation theatre, EMD ,Anaesthesia OPD) in Bharati Hospital for general public.
- Regular guest lectures are arranged in department for update of PG and Faculty. Last guest lecture by eminent anaesthesiologist Dr.Amit Dixit on Point of care Ultrasound (POCUS)

##### b) Activities / Workshops / Webinars

#### **Departmental Training Program**

- Pre and post-COVID regular PG training programmes were conducted.
- Regular monthly Post Graduate Teaching activity conducted which includes seminar, Journal club, Review Articles, lectures, tutorials, and case presentations.
- Regular feedback of students regarding PGP is taken.
- Every year on the occasion of World Anaesthesia Day(16th Oct), residents participate in the inter-institutional quiz

#### **Internal Assessment Programme**

The department conducts regular theory exams at the end of term and practical exams at the end of the 4th and 5th terms. It sends an e-mail to the parents regarding the result and progress of the residents. It conducts practice tests similar to the final university exam for the exam-going students prior to prelims.

### **Dissertation Review Programme**

- Started taking Thesis review since 2012
- The thesis review is conducted every 6 months and students are instructed to submit the same after taking the guide's remark.
- For the Journal club and thesis review, the guidance of expert from central research committee is sought.
- **Logbook**
- The logbook of residents was started in 2008 which is monitored by Senior faculty.