

DEPARTMENT OF ANAESTHESIA & PAIN MANAGEMENT

OPERATION THEATRE

The Department of Anaesthesiology at JRH is 'the state of the art' department with all advanced facilities. The surgical advancements are a testimony to this.

MANPOWER

IRHS Doctors: Dr Dinesh Kumar Sahu, ACHD

Dr Alpa Sonawane, Sr DMO

Dr Chandini R Daniel ADMO

Dr Suvendu Panda, ADMO

Case to Case Specialist: Dr Reena Parampill (Anaesthesia); Dr Kailash Kothari (Pain Physician),

Resident Doctors: 2 post MBBS with 3 yr tenure and 2 post diploma Trainee with 2 yr tenure per yr

Senior Resident Doctors: Two

SERVICES OFFERED

Anaesthesia Services

Department is providing Anaesthesia to all cases including complex and critical cases with in- house anesthesiologist only except for CVTS OT, without any support of HVS or Case to case consultant.

There are three operation theatre complexes with total nine operation theatres rooms. OT complex of first floor have seven OT for General Surgery, ENT, Ophthalmic, G.I Surgery, Urology, Gynae & Obst., Vascular, Laparoscopic Surgery, and orthopaedics. There is separate OT for Day care procedures like pain interventional procedures.

Second OT Complex at fifth floor has two OT for Gastroenterology interventional procedures. OT complex is also having pre-operative check up room as well as pre and post operative room. All areas are looked after by in house Anaesthesiologists. Anaesthesiologists are also managing cases of Surgical and Medical ICU as and when required.

Pain Medicine

Started advance Pain Management Services in 2006 January for the Management of Patients Coming with Chronic Back Pain, Cancer Pain etc and Department of Anaesthesia is well managing Advanced pain management center. Department is also recognized for Observership in Pain by Indian Society of Study of Pain.

Central sterilization Unit

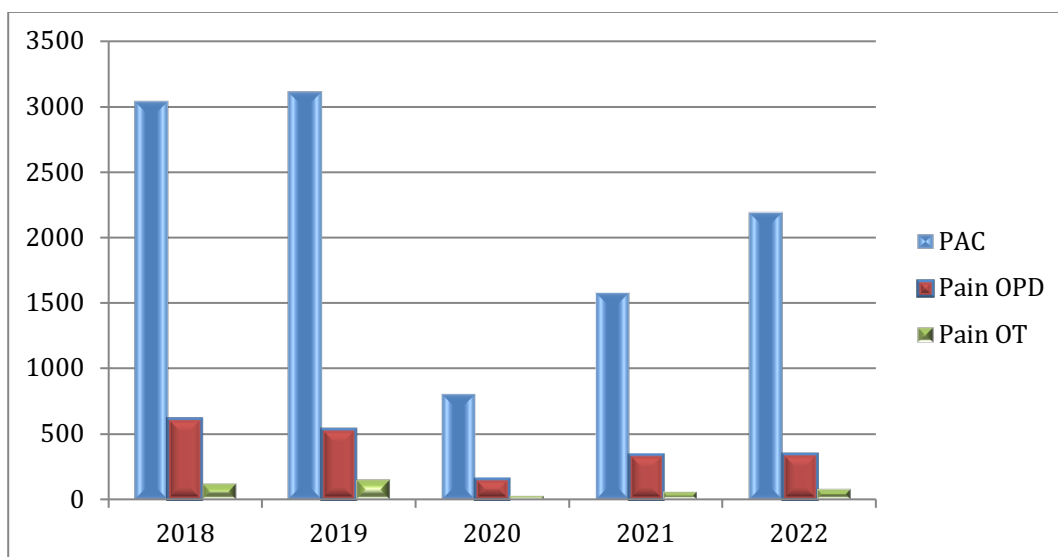
Department of Anesthesia is looking after Central sterilization Unit of the Hospital which supplies sterilized linen & instruments to various other departments in the hospital. It is located in first floor OT complex.

Central Oxygen System

Department of Anesthesia is looking after Central Oxygen station of the hospital, which provides oxygen, nitrous oxide, suction and compressed air to the hospital. This station has liquid oxygen tank apart from emergency big cylinders.

WORK LOAD: Anaesthesia

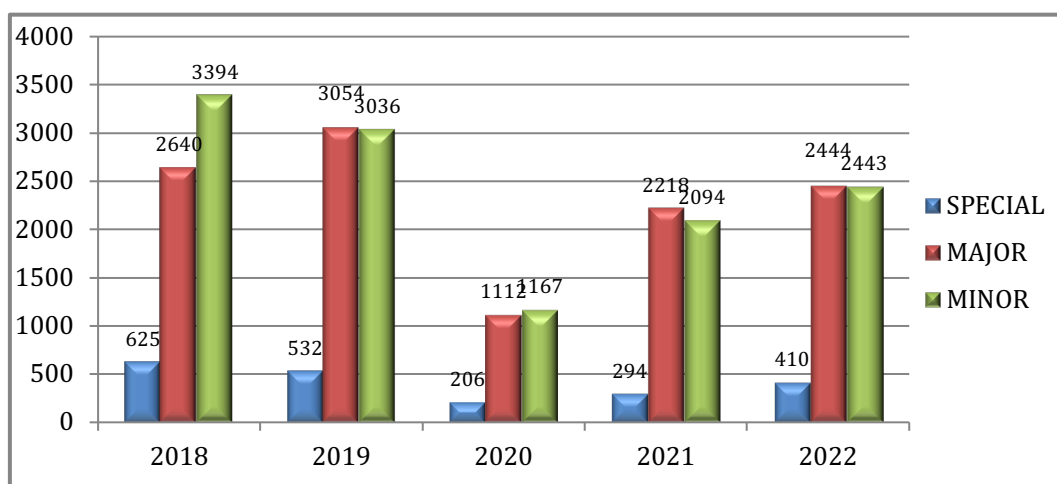
| | 2019 | 2020 | 2021 | 2022 | 2023 (8/23) |
|----------------|------|------|------|------|-------------|
| PAC OPD | 3110 | 808 | 1578 | 2825 | 2055 |
| Pain OPD | 526 | 156 | 335 | 445 | 314 |
| PAIN PROCUDRES | 146 | 30 | 60 | 113 | 119 |



GRAPH OF NUMBER OF PAIN OPD AND OT PROCEDURES & PAC OPD OF JRH

SURGICAL-

| | 2019 | 2020 | 2021 | 2022 | 2023 (8/23) |
|---------|------|------|------|------|-------------|
| SPECIAL | 532 | 206 | 294 | 496 | 321 |
| MAJOR | 3054 | 1112 | 2218 | 3083 | 2287 |
| MINOR | 3036 | 1167 | 2094 | 3035 | 2119 |



Number of surgeries performed during last five years

EQUIPMENTS

| | Name of Equipments | Under Warranty/AMC/CAMC |
|----|---|--|
| 1 | Advanced Anaesthesia work stations-11 | Under Warrnty-3,CAMC-3,Repaired as & when required -5 |
| 2 | Advanced Multipara monitors-14 | Under Warrnty-6,CAMC-3, Repaired as & when required -5 |
| 3 | Defibrillators- 6 | Repaired as & when required |
| 4 | Centralised O2 , N2O and suction | Repaired as & when required |
| 5 | Body Warmers -4 | Repaired as & when required |
| 6 | Fluid warmers -2 | Repaired as & when required |
| 7 | Vigilio Cardiac Output Monitor-1 | Repaired as & when required |
| 8 | Truescope-1 | Repaired as & when required |
| 9 | Intubating Fiberoptic flexible laryngoscope | Repaired as & when required |
| 10 | Cuff pressure monitor | Repaired as & when required |
| 12 | Spiro meter -1 | Repaired as & when required |
| 13 | King vision Video laryngoscopes-3 | Repaired as & when required |
| 14 | Storz C-Mac Video laryngoscope -1 with 2 blades | Repaired as & when required |
| 15 | All size Laryngeal Mask airways , Intubating LMA-1, PLMA -1 | Disposables |
| 16 | All size Macintosh Laryngoscope, | Repaired as & when required |
| 17 | All size I-gel, COPA | Repaired as & when required |
| 18 | PCA pumps-3 | Repaired as & when required |
| 19 | All size Gudel's airway ,Nasopharyngeal Airways | Disposables |
| 20 | Bispectral spectram monitor -1 | Repaired as & when required |
| 21 | ABG Analyser machine -1 | Repaired as & when required |
| 22 | Titan Sonosite Ultrasound machine-1 | Repaired as & when required |
| 23 | Infusion pump-3, | Repaired as & when required |
| 24 | Crash cart -4 | Repaired as & when required |
| 25 | 12 lead ECG machine-1 | Repaired as & when required |
| 26 | Electric suction-7 | Repaired as & when required |
| 27 | Mobile C-arm intensifier-1 | Repaired as & when required |
| 28 | CPR Mannequins- 3 | Repaired as & when required |
| 29 | Plasma Sterilizer -1 | Under CAMC |
| 30 | ETO Gas sterilisation machine-1 | Repaired as & when required |
| 31 | Hot & Cold Sterilizers-2 | Under CAMC |
| 32 | Horizontal High speed/Pressure Steam sterilizer-6 | Under Warranty-1,CAMC-5 |
| 33 | OT Table- 4 | Under Warranty-1, under Ds8 process-2, As & when required -1 |

| | | |
|----|--|-----------------------|
| 34 | Portable wireless Ultrasound machine for Pain Clinic | 2625K, Under Warranty |
| 35 | C-Arm X-Ray Image intensifier | 1294K, Under Warranty |
| 36 | Radio frequency Nerve ablation Machine with Accessories | 3625K, Under Warranty |
| 37 | Anaesthesia machine for Pain Clinic OT | 2525K, Under Warranty |
| 38 | Imported Remote controlled Electro-hydraulic Operation Table | 3304 |
| 39 | Imported Electro-hydraulic Operation Table | 2696 |

Proposed Items for Machinery & Plant programme 2020-21

| Sr. No. | Name of Equipments | Cost in Thousands | Status |
|----------------|---|--------------------------|-----------------------------|
| 1 | Advanced Integrated Anaesthesia Work Station-2 Nos. | 3200 each | Under Process of initiation |
| 2 | Flexible intubation video endoscope size- 5.5 mm | 1400 | Under Process of initiation |

ACADEMICS AND ACTIVITIES

- **Teaching & Training:**

- Dept is recognized for 2 post MBBS with 3 yr tenure and 2 post diploma Trainee with 2 yr tenure per yr of Post Graduate Course of Diplomate of National Board (DNB) in Anaesthesiology (equivalent to MD) accredited by Medical Council of India.
- Total 20 students have awarded master degree (DNB- Anaesthesiology) from department till now.
- Dept is also recognized for 2 post MBBS with 3 yr tenure and 2 post diploma Trainee with 2 yr tenure per yr of Post Graduate Course of Diplomate of National Board (DNB) in Anaesthesiology (equivalent to MD) accredited by Medical Council of India.
- Seven students have also been trained in CPS Diploma course in Anaesthesia before 2006. Department is accredited for Observership in Pain Management by Indian Society for Study of Pain (ISSP).
- Doctors from Department are being invited as Faculty in National Conferences regularly.
- We are regularly holding departmental meetings for case discussions, Lectures and seminars and workshops on anaesthesia, chronic Pain management and CPR for our students and staff.
- Conducting Cardio Pulmonary Resuscitation (CPR) Classes for Staff of Jagjivan Ram Hospital every Saturday.
- CPR and First Aid training Classes are being taken regularly every Saturday for 2 hrs at JRH. Front line staff from Mumbai suburban stations and Paramedical staff of various divisions including Jagjivan Ram Hospital participated in this programme.

ACHEIVEMENTS

- Delivering very safe anaesthesia to all the cases. Equipped with very advanced monitoring system.
- Pain Clinic, first in Indian railways and running successfully.
- Super specialized treatment like High skilled services like Percutaneous Endoscopic Discectomy, C-arm & USG guided diagnostic & therapeutic pain management, Botox injections for Muscular dystonia being provided in Pain clinic.
- The Dept has helped & guided to start of Pain Clinic in **BYL Nair Medical College Mumbai**, which is first kind of example in Railway setup.
- Dr Dinesh Kumar Sahu, Sr DMO, has authored **chapters in FOUR Text Book** in field of Anaesthesiology and Pain Management.
- Department started USG guided 'regional anaesthesia' by peripheral nerve block in serious cases where General Anaesthesia or spinal anaesthesia are contraindicated.
- JRH- OT staff is awarded with GM's 'Group Award for Efficient Work' for 2015 under leadership of Dr Reena Parampill.
- Dr Dinesh Kumar Sahu elected as Governing Council (National) Member of Indian Society for Study of Pain (Indian chapter of International association for the study of Pain).
- Anaesthesia department is conducting First Aid and CPR classes every Saturday for front line staff of Western Railway and Jagjivanram hospital staff. Till date more than 500 front line staff has been trained by us. We had conducted public awareness programme in collaboration with Indian society of anaesthesiologist, Mumbai branch for CPR (Jeevansanjivani) at Churchgate and Mumbai central railway stations in which more than 1500 railway commuters and railway employees on railway station were trained. Recently Public awareness programme for CPR was conducted at GATEWAY OF INDIA in association with Indian resuscitation council and Indian Society of Anaesthesiologist, Mumbai branch. CPR training was given to all staff under project SAKSHAM also.
- First time in Indian Railway, Organ Harvesting for organ donation was carried out in JRH OT. All coordination with ZTC, and transfer of harvested organ to recipients' hospitals was facilitated by the department. Liver, kidney and cornea was retrieved under anaesthesia.

FUTURE PLAN

- To start dedicated Pre Anaesthetic Checkup clinic and Pain clinic in OPD complex with availability one consultant.
- To run Pain Clinic all 6 days full time basis.
- Posting of one Onco anaesthesiologist.