



## **Sir H. N. Reliance Foundation Hospital and Research Centre, Mumbai**

**About Us** - Sir H. N. Reliance Foundation Hospital and Research Centre is a 345-bed, world class multi-Speciality tertiary care hospital with following thrust areas: Cardiac Sciences, Orthopaedics & Spine, Bariatric and minimally invasive surgeries, Gastroenterology & Hepatobiliary Sciences, Liver Transplant, Nephro-Urology, Neuro Sciences, Oncology, Woman & Child Health. The Hospital has progressive diagnostic services, including Laboratories, Radiology & Imaging, and Nuclear Medicine with state of the art equipment.

This is a technologically-advanced institution designed to international standards and the most stringent criteria in infrastructure, medical care, fire-safety norms, and environmental guidelines. This is because every element that comprises The Hospital's making, from the premises, to the processes, to its professionals, contributes to the overriding principle:

### **Respect for Life.**

From its foundation in 1918, Sir Hurkisondas Nurrotumdas Hospital and Research Centre was at the forefront of cutting-edge technology. Many noted freedom fighters, politicians, philanthropists and doctors patronised the hospital, including Mahatma Gandhi, Sardar Vallabhbhai Patel, and Lok Nayak Jayaprakash Narayan.

Sir H. N. Reliance Foundation Hospital and Research Centre carries forward Sir Hurkisondas' legacy of excellence in care and service to all. The Hospital's values define the delivery of this commitment, realised through action and constant application. Today our hospital has been awarded one of the best hospitals in India by many premier organisations

# Institutional Fellowship in Bariatric Anaesthesia

## WELCOME PROGRAM BY COURSE DIRECTOR

Thank you for your interest in our program!

This is the flagship and institutional fellowship in Advanced Bariatric anaesthesia . Two one-year **institution** accredited positions in Bariatric Anaesthesia will be offered annually encompassing a comprehensive training program including both clinical and research training and opportunities.

The fellowship program is designed to provide a well-rounded clinical training in bariatric anaesthesia for the surgeries utilizing advanced laparoscopic, robotic-assisted, and flexible endoscopic techniques. The fellow gains a wealth of experience in the comprehensive evaluation and minimally invasive surgical management and endoscopic management of morbid obesity . A comprehensive curriculum guides and focuses the academic program.

The mission of the fellowship program is to train future leaders in academic or community surgical practice with a renewing commitment to education and innovation in anaesthesia care. In keeping with this mission, ample opportunity is provided for the fellow to engage in academic pursuits, including dedicated time to research. Fellows are encouraged to submit at least two abstracts to national meetings during the fellowship year. Faculty provide mentorship, but an expectation is that at least one research project is fellow self-directed. As an instructor in the Department of Anaesthesia and Pain Management, the fellow will be expected to model excellence in professionalism and to teach general surgery residents and students. To facilitate transition to independent practice, the fellow will be assigned to conduct independent bariatric cases, with backup by fellowship faculty.

**Aim of the Course:** Primary objectives: The fellow must acquire a working knowledge of the theoretical basis of the specialty, including its foundations in the basic medical sciences and research.

Fellow must demonstrate the requisite knowledge, skills, and attitudes for effective patient-centered care and service to a diverse population.

**Secondary objectives:** To be able to participate and contribute effectively to research projects initiated by experienced colleagues and/or to initiate research - Increase the research output. The Fellow is encouraged to complete a project and at least one publication during the year.

*Name(s) of the department offering the course:*

**Department of Anaesthesia and Pain management in collaboration with Dept. of Bariatric Sciences , Sir HN Reliance Foundation Hospital and Research centre**

**Course Director:** Dr Hemant Mehta

**Course Teacher: Dr Jueeli Barpande**

**Teaching Faculty:**

- Dr Sheetal Shah,
- Dr Prajakta Latkar,
- Dr Disha Kapadia,
- Dr Harvesp Panthakey

**Course fee**

A non-refundable fee of Rs 10000/- is payable at the beginning of the course.

**Stipend and accommodation:**

A fixed sum of Rs 1.0 lakh will be given per month and no accommodation will be provided by the Institute.-

**Duration of the course: 1 year**

The candidate will compulsorily rotate in the following departments

***Prehabilitation-1 month***

- Dietician OPD for nutritional Assesment,formulating calorie intake and liquid diet protocol.
- Pulmonology OPD for preoperative respiratory optimisaton,incentive spirometry,Deep breathing exercises,PFT performance and interpretation
- Sleep studies for diagnosing sleep apnoea,OSA,OHA.
- Pschiatric counseling to allay fear and anxiety and reassurance.
- BiPAP/CPAP machine usage
- Preoperative endoscopic procedures to rule out oesophagitis,ulcers or hiatus hernia

***Operation theatre- 8 months***

***Endoscopy procedures-2 months***

***ICU- 1 month***

Preoperative optimisation and postoperative rehabilitation will be an ongoing process throughout the course

During the entire tenure the fellow will have hands on training in inserting invasive lines, advance monitoring equipment and various drugs/special equipments (e.g TCI infusion pumps, PCA pumps)/regional blocks used for different procedures.

Number of positions: 2 seats per batch

**Course fee:** A non-refundable course fee of Rs. 10000 will be collected at the beginning of the course.

**Stipend:** Approximately Rs 1 lac or above.

**Knowledge and skills required for admission to the Course**

**Entry criteria:** MD / DNB in Anaesthesia. Preference will be given to those who have worked in a teaching institute or tertiary centre.

**Selection will be based on interview.**

**Scope of Learning:**

The fellowship is designed to give the candidate theoretical and extensive practical training in the respective area to enhance clinical skills, knowledge and expertise. It is expected, the candidate will be job ready at the end of the year and would be satisfactorily deserving:

• Better Future opportunities • Better pay scale • Workplace credibility

**Competencies:**

- Patient Care
- Medical Knowledge
- Practice-Based Learning & Improvements
- Interpersonal & Communication Skills · Professionalism
- System-Based Practice

**Responsibilities:**

1. Provides risk stratification to patients with obesity related co-morbidity on their peri operative risk profile
2. Describes the pathophysiology and anaesthetic implications of different sleep disordered breathing conditions
3. Describe methods of testing and be able to interpret and act on the results of sleep studies
4. Demonstrate techniques to prolong safe apnoea time, and techniques for managing the difficult airway in the patient requiring bariatric surgery.
5. Provides safe anaesthesia and ventilation strategies for all main weight loss surgical procedures.
6. Performing imaging guided pain management procedures

**Syllabus**

**Basic Sciences**

1. Anatomy of airway, coronaries, pulmonary and vascular structures, GI tract
2. Physiology- respiratory physiology, cardiac function, haemodynamics, ANS, blood and coagulation function, cardiac arrhythmias, pneumoperitoneum, effects of positioning.
3. Pathophysiology- Difficult airway, Heart failure, cardio pulmonary reserves, cor pulmonale, liver disease
4. Pharmacology- Anaesthesia and vasoactive drugs, inhalational agents, opioids, NSAIDs, local anaesthetics
5. Physics- Electronic medical records and state of the art monitoring equipment.

### **Clinical Sciences**

1. Lap and Robotic Non Banded RYGB
2. Lap and Robotic Sleeve Gastrectomy
3. Mini Lap Non banded RYGB
4. Scarless sleeve gastrectomy
5. Sleeve to bypass, sleeve to MGB/OAGB(one anastomosis gastric bypass)-Lap and Robotic
6. sleeve to SADI(single anastomosis duodeno-ileal switch)-Lap and Robotic
7. sleeve to RYGB-Lap and robotic
8. 8.- Gastric band to RYGB-Lap and robotic
9. Reversal of RYGB-lap and robotic
10. RYGB to LSG-lap and robotic
11. OAGB to RYGB-lap and robotic
12. Band to sleeve-Lap and robotic
13. Gastric band removal
14. Limb lengthening/shortening
15. ENDOSCOPIC PROCEDURES-Preoperative and postoperative upper GI scopy
  - a. -Endoscopic Intra gastric balloon acement
  - b. -Endoscopic sleeve gastropasty.
16. Bariatric patients for non bariatric surgery.
17. Postoperative pain management(regional blocks, NSAIDS, PCA infusion, local infiltration)

### **Basic and Advance Monitoring in anaesthesia and ICU**

- ECG, ABP, CVP, PAP,
- Neuro monitoring with BIS, peripheral nerve stimulator, TOF monitoring.
- Bipap/cpap machine, TCI pumps, PCA pumps.
- PFT, ABG, Chest X-ray n CT
- Coagulation profile and TEG

### **ICU management**

- Ventilatory care.

- Weaning from ventilator
- Preoperative and postoperative care
- Parenteral Nutrition, infection control
- ESRD and dialysis techniques
- Pain management

### **Presentations:**

- Present academic work at local, national or international scientific meetings
- Preparation of a formal weekly lecture on a topic to be presented to the department and undergo formal assessment

### **Log Book:**

The candidate is expected to maintain and submit a duly signed log book at end of each month.

### **Research Project:**

The candidate is expected to submit a research proposal no later than at end of 2 months and submit the completed research project by end of the 11 months of fellowship suitable for publication in a peer-reviewed journal

### **Attendance:**

A minimum of 90% attendance is necessary during the clinical hours and 75% during the theory hours.

**Exit criteria:** The candidate will be granted a fellowship on the following grounds:

Annual performance • Exit interview

Research project • Attendance

In case of inability to complete the exit requirements, an extension of 3 months will be provided.

### **Application for the course:**

Email your entire Application for the fellowship to [rfh.academics@rfhospital.org](mailto:rfh.academics@rfhospital.org) or [Jolly.coelho@rfhospital.org](mailto:Jolly.coelho@rfhospital.org)

### **Application to include the following documents:**

- Latest Curriculum vitae
- 2 Recommendation letters: At least 1 out of the 2 recommendations should be from a person holding an academic position
- Statement of Purpose (SOP): This is the opportunity to tell us who you are, what enabled you to get so far in life and how you got interested to do what you wish to do further in life. The SOP should demonstrate a clear understanding of why you

are making the application to this particular course, and to this particular institution. Describe how the course contributes to your plans for the future and Evidence that you have the ability, experience, skills and motivation to successfully contribute to the course, and to complete it. The SOP should be 450-700 words.

- Highest academic qualification certificate (/MBBS/MD)
- Publications if any
- Local medical council registration certificate
- Any other supporting documents to strengthen your application
- Complete the application form on the website

<https://www.rfhospital.org/academics-and-research>

### **Summative assessment at the end of course**

A theory and practical exam consisting of 2 cases and table viva will be conducted at the end of the course as an exit exam.

Logbook, research and academic activities will be taken into consideration.