



Department Of Pulmonary Medicine & Sleep Diseases
Sri Aurobindo Institute of Medical Sciences

Fellowship in Respiratory Critical Care

Fellowship Programs (Curriculum)

Department Of Pulmonary Medicine & Sleep Diseases



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Sri Aurobindo Institute of Medical Sciences

Message from the Chairman

Dear Fellows,

It is with great pleasure that I extend my warmest greetings to you and introduce the Interventional Pulmonology and Respiratory Critical Care Fellowship at Sri Aurobindo Institute of Medical Sciences, Indore MP.

SAIMS is 1400 bedded leading & largest educational institute with multi speciality hospitals group of central India to provide the better healthcare services to the society.

As the Founder Chairman of this esteemed institution, I am delighted to invite you to be a part of our fellowship program, where we strive to shape the future leaders in the field of pulmonary medicine and critical care.

During the last few years, there has been a worldwide revolution in the field of Interventional Pulmonology & Advance Critical Care; and the gap between disease and its cure has reduced significantly. To bring the benefits of the latest Interventional technologies and critical Care training to the humankind, this institute will create professionals who have a proven edge, superior skills and an aptitude for interpreting and mastering new directions for managed healthcare.

Thank you for considering Sri Aurobindo Institute of Medical Sciences for your fellowship training. I look forward to welcoming you to our esteemed institution and witnessing your growth as a future leader in the field of Pulmonary Medicine.

Warm regards,

Professor Dr. Vinod Bhandari

Founder Chairman

SAIMS & Bhandari Group of Hospitals and Institutions, Indore.





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Message from the Course Director

I welcome you for an exclusive opportunity to join the Interventional Pulmonology, Respiratory Critical Care & Pulmonary Function Tests Certificate Fellowship at Sri Aurobindo Institute of Medical Sciences.

As Course Director, I am privileged to introduce you to this program that will shape your career in the dynamic field of pulmonary care. Interventional pulmonology (IP) is a rapidly growing, procedurally focused subspecialty of pulmonary medicine. Our IP fellowship has been designed to develop and train interventional pulmonologists in advanced diagnostic and therapeutic bronchoscopy, as well as advanced minimally invasive pleural procedures. The implementation of these procedures is across the breadth of malignant and nonmalignant diseases, including lung cancer (diagnosis and staging); metastatic cancer of the thorax etc.

Through didactics, consultation, multidisciplinary conferences, case-based/patient-based discussions, and research, the IP fellow will advance his or her understanding of the anatomy and physiology of the airways, mediastinum, lung, and pleural space as integrated along with procedural training. Hands-on procedural training is conducted under the supervision of fully trained interventional pulmonologists.

As intensive care medicine has progressed and advanced in terms of technology, diagnostics and therapeutics, the demand for intensive care medicine has increased continuously.

Respiratory Critical Care training offers the opportunity for continuity care in dealing with patients with chronic lung disease as well as certain diagnostic challenges

I welcome all of you to learn about our fellowship program and my mission is to ensure that you are trained to be consummate professionals clinically and academically so that your primary focus is on the highest quality care to your patients by improving your skills in field of the Interventional Pulmonology & Respiratory Critical Care.

Thank You

Dr Abhijeet Khandelwal

Course Director

DNB (TB & Respiratory Diseases)

Gold Medalist

MBBS DTCD FCCP (USA) EDARM(EUROPE)

Professor & Head of Department of Respiratory Diseases

Sri Aurobindo Institute of Medical Sciences SAIMS Indore





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Course Faculties

Dr Ankur Agarwal

MBBS DTCD DNB

Associate Professor

Department of Respiratory Diseases,
Sri Aurobindo Institute of Medical Sciences SAIMS Indore



Dr Ankur Agarwal is Associate Professor, in Sri Aurobindo Medical College & PGI since last 5 years with vast clinical experience with academic interest. He did his MBBS from MGM Medical College, Indore and then did Diploma in TB & Chest Diseases from the prestigious VP Chest Institute, Delhi. After that he worked in RBIPMT, Delhi which is an 1100 bedded highest volume centre for respiratory disease management. Then he did DNB in Respiratory Medicine from Lilavati Hospital & Research Centre, Mumbai. He then gained ample of experience working in various hospitals in Delhi and Indore.

His areas of special interest includes Critical Care, Difficult To Treat TB Cases, ILD And Interventions Like TBLB, Conventional TBNA And Rigid Thoracoscopic Interventions.

Dr. Piyu Jain

MBBS MD- RESPIRATORY MEDICINE

Assistant professor

Sri Aurobindo Institute of Medical Sciences SAIMS Indore
Ex consultant : Rajiv Gandhi super speciality hospital, Delhi
Department of Respiratory Diseases



Dr Piyu Jain is Assistant Professor, in Sri Aurobindo Medical College & PGI working since last 3 years. She did her MBBS from Sri Aurobindo Medical College, Indore and M.D in Respiratory Medicine from Rohilkhand Medical College, Bareilly .

She worked in Rajiv Gandhi superspeciality hospital, Delhi which was a 700 bedded Delhi government hospital equipped with facilities like EBUS, Video Bronchoscopy, CPET, DLCO, Body Plethysmography.

Her areas of special interest includes ILD, Sleep disorders, and Pulmonary interventions like EBUS-TBNA, TBLB, Rigid thoracoscopic interventions.



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Dr. Navdeep Labana

MBBS MD- RESPIRATORY MEDICINE

Assistant professor,

Sri Aurobindo Institute of Medical Sciences SAIMS Indore

Ex. MGM Medical College & M.Y. Group of Hospitals Indore



Dr Navdeep Labana is Assistant Professor, in Sri Aurobindo Medical College & PGI. He did his MBBS from Pravara Institute Of Medical Sciences and M.D in Respiratory Medicine from R.D. gardi Medical college.

He worked in Interventions and Critical Care in MGM Government Medical College & M.Y hospitals Indore , ESIC hospital , Kokilaben Dhirubhai Ambani hospital and few others multi specialty hospitals, which were equipped with facilities like EBUS, bronchoscopy, Thoracoscopy , DLCO, Body plethysmography.

His areas of special interest includes Critical Care and Pulmonary Interventions.



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Fellowship in Respiratory Critical Care

- **Duration of The Course**

- 06 Months (candidates are expected to work in the department as full time doctors and are not allowed to practice elsewhere during the course)

- **Eligibility**

- MD/DNB in Respiratory medicine/TB and chest
- MD/DNB in General Medicine
- Diploma in TB and chest disease DTCD
- MBBS (Interested In Critical Care Management)

Application

Applications are invited every 6 months subjected to seat availability.

Attendance and leave

Fellows will need minimum 90% attendance for appearing exit examination.

- **Evaluation Process and Final Examination**

Candidate need to maintain logbook and A Practical based examination will be conducted at the end of course.



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Course contents

- Airway management
- Pulmonary function studies
- Arterial blood gas analysis
- Physiologic monitoring
- Nutritional Assessment and Support
- Critically Ill Patient Transport
- Oxygen Therapy
- Advanced Airway Management
- Intubation, Tracheostomy, and Bronchoscopy in ICU
- Venous & Arterial Line Insertion
- Basic and Advanced Mechanical Ventilation (Independent Lung Ventilation, Lung Recruitment, Protective Lung Strategies)
- Non-Invasive Ventilation (NIV)
- Transport Ventilation
- Airway Clearance Devices
- Pre and post-surgery Respiratory Critical
- Radiology
 - Chest X-ray
 - Computed tomography (CT)
 - Magnetic resonance imaging (MRI)
 - Positron emission tomography (PET)
 - Ultrasound
- Respiratory diseases & mechanical ventilation
 - Operating mechanical ventilators
 - Monitoring
 - Mechanical troubleshooting



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- Management strategies of mechanical ventilation according to disease entities
 - Management Of Respiratory emergencies
 - Pneumothorax
 - Respiratory acidosis and alkalosis
 - Aspiration
 - Pulmonary edema
 - Exacerbation of asthma & COPD
 - Hemothorax
 - Upper airway obstruction
 - Pulmonary embolus
 - Atelectasis
 - Pleurisy & Empyema Management
 - Respiratory Failure
- Plan end of life and Palliative care
 - Communicate effectively and empathetically to patients and attendants, about the critical nature of illnesses, end of life care and breaking bad news in contingencies.

