



Government of West Bengal
Institute of Postgraduate Medical Education & Research
Centre of Excellence in Medical Education & Research

Respiratory Medicine & Pulmonary Medicine (Chest Department)

Chest Department of IPGME & R comprises Department of **Respiratory Medicine (main campus)** running **MD course of Respiratory Medicine** and Department of **Pulmonary Medicine at SNPH campus**, running the **DM course of Pulmonary Medicine (first time in West Bengal)**

Jointly the departments cater to all forms of complicated respiratory disorders including critical care and interventions for complicated cases referred not only from various districts of the state but also from neighboring states of Orissa, Bihar, Assam and Tripura. During COVID pandemic, the Pulmonary Medicine Department at SNPH campus took leading role in serving the most critical cases including those in the need of ECMO.

Respiratory Medicine

FACULTY

Prof. (Dr) Somenath Kundu	Professor and Head
Dr. Surajit Chatterjee	Assistant Professor
Dr. Ranjit Kumar Haldar	Assistant Professor
Dr. Prasanta Kumar De	Tutor
Dr. Saibal Mondal	Tutor
Dr. Samar Das	Medical officer
Dr. Tapan Mondal	Medical officer

Senior Residents

Dr. Prasanta De
Dr. Saibal Mandal
Dr. Kamalika Mazumdar
Dr. Sushovan Mazumdar

Postgraduate Trainees (Junior Residents)

SESSION 2020 – 2023	SESSION 2021- 24	SESSION 2022- 25
Dr. Krishanu Mukhoti Dr. Anirban Kundu Dr. Nilava Banerjee Dr. Subhankar Saren Dr. Sreetama Banerjee	Dr. Gowthamon Dilip Dr. Md Wamique Izhar Dr. Ankita Chakraborty Dr. Swapnamay Ghosh Dr. Abhijit Banerjee	Dr. Subhashish Chanda Dr. Sachin Kumar Sharma Dr. Akash Saha Dr. Abu Syed Ansari

FACULTY NEWS

Publications of Prof. Somenath Kundu

- A clinical study on hematological and biochemical profile of Pulmonary and extra Pulmonary tuberculosis patients and its relationship with socioeconomic status and body mass index. IJSR, VOL 9, issue 10, October 2020.
- A study of factors associated with hospitalization among tuberculosis patients and their outcome: A cross sectional study in the department of Pulmonary Medicine in a tertiary care center. International Journal of Scientific Research 2021; 10(3): 63-65.

- A Study on etiology and diagnostic modalities of cases with solitary pulmonary opacity in chest roentgenogram. Indian Journal of Applied Research 2021; 11(2): 26-28.

Publications of Dr. Surajit Chatterjee:

- Role of Fiber-optic Bronchoscopy and thoracic computerized tomography in the diagnostic work up of cases of moderate to severe hemoptysis admitted in a tertiary hospital, IJSR, VOL- 9, issue- 12, 2020.
- 25(OH)Vit D3 level in tuberculosis: A cross sectional study in a tertiary care center: JACP, Dec 2022

Conferences and Training Programs:

All faculty members attended virtual NAPCON 2022 and ACPCON 2022. The same was attended by junior residents

Prof. Somenath Kundu chaired a session and acted as panelist in ACPCON 2022 and delivered a lecture.

STUDENTS AND EXAMINATION INFORMATION

MD Examination 2022

The department organized postgraduate MD RESPIRATORY MEDICINE examination 2022 with Prof S Kundu and Prof A Sengupta as internal examiner.

Prof Somenath Kundu attended SCB Medical College, Cuttack as external examiner of MD Respiratory Medicine.

Dr Kamalika Mazumdar, Dr Sushovan Mazumdar passed the MD RESPIRATORY MEDICINE examination 2022.

Dr Riksoam Chatterjee got the prestigious Professor D Sen memorial award for getting highest marks in MD Respiratory Medicine, 2021.

All 3rd year PGTs presented papers/posters in NAPCON 2022, ACPCON 2022 and PULMOCON 2022.

- Dr Kamalika Majumdar awarded 2nd prize in ACPCON 2022 for thesis
- Dr Sreetama Bandyopadhyay acquired first position in oral case presentation in ACPCON 2022.
- Dr Nilavo Banerjee stood 3rd in poster presentation in ACP 2022.
- Dr Sreetama Banerjee and Dr Krishanu Mukhoti stood 3rd in quiz competition in PULMOCON 2022.

CURRENT RESEARCH WORK IN DEPARTMENT OF RESPIRATORY MEDICINE

1. ICMR'S network of Pulmonary Fibrosis (INPF). (Prof A Sengupta, Prof S Kundu, Prof PS Mahapatra, Ankan Bandyopadhyay, Dr Keya Basu).
2. A study on relationship of dyspnea score, HRCT scan and PFT in the evaluation of CTD-ILD. (Prof Somenath Kundu, Dr Pradyot Sinha Mahapatra, Dr Krishanu Mukhoti)
3. Factors responsible for delay in diagnosis of lung cancer and its impact on anatomical staging and performance status. (Prof Somenath Kundu, Dr Anirban Kundu)
4. A study on etiology of cases with cavitory lung disorders on chest Roentgenogram having negative sputum X-pert MTB/RIF assay. (Prof Somenath Kundu, Dr Nilava Banerjee).
5. Identifying malignant pleural effusion from tubercular pleural effusion by study of cancer ratio plus. (Dr Surajit Chatterjee, Prof Amitabha Sengupta, Dr Subhankar Saren).
6. Clinico-radiological and functional status of post covid lung and its follow up. (Dr Surajit Chatterjee, Prof Amitabha Sengupta, Dr Sreetama Bandyopadhyay.)
7. Clinical categorization of patients with parapneumonic effusions and empyema and its correlation with therapeutic outcome. Prof S Kundu, Dr Gowthaman Dilip.
8. A study on BUN/ALBUMIN ratio as a prognostic bio-marker in community acquired pneumonia. Dr Animesh Mandal, Dr Ranjit Kr Haldar, Dr Wamique Izhar
9. A study on cases of malignant pleural effusion with special reference to etiology risk stratification and therapeutic outcome. Prof S Kundu Dr Ankita Chakraborty.
10. A comparative study between triple therapy (LABA +LAMA +ICS) and LABA+ LAMA in COPD patients. Dr Animesh Mandal, Dr Ranjit Kr Haldar, Dr Swapnamay Ghosh.
11. A study on cases of COPD with special reference to correlation of CAT score, BODE index, cardiovascular co-morbidities and CRP titer. Prof S Kundu, Dr Avijit Banerjee.

SERVICE INFORMATION

OPD INFORMATION: FROM 01.01.2022 TO 30.11.2022

OPD New patients (male 16372+female 13293)	Total	29665
OPD Old patients (Male 13528+ Female 10218)	Total	23746
OPD All patients TOTAL		53411
Nebulisation		1820
Thoracocentesis		1526
Advanced spirometry including DL _{CO}		550
NTEP SERVICES		
Total Sputum Examination		4294
Total No of Sputum positive		83
Total MDR cases		31
Total CBNAAT pulmonary and extra pulmonary TB		2529

CBNAAT positive cases	352
TRU NAAT TOTAL	2630
TRU NAAT positive	291

Highest number of NAAT tests done among all medical colleges in 2022

INDOOR PATIENTS: Bed strength – 54 (FROM 01.01.2022 TO 30.11.2022):

Total Admission	1305
Discharge	1041
Bed occupancy	96.5%
Bed turns over	9.1 days

RESPIRATORY CARE UNIT

Bed Strength - 5 (FIVE). Functioning since 21.06.18.

Admissions FROM 01.01.2022 TO 30.11.2022: 117

Total COVID patient diagnosed in indoor isolation ward after admission: 28 and subsequently managed at COVID wing of SNPH

The department of Respiratory Medicine has also contributed in all possible ways to fight the COVID 19 situation by

- 1) Regularly sending faculties and residents at SNPH regularly on call duties and floor duties. The junior residents have been regularly attending CCU and HDU of SNPH on all shifts without a single day break since functioning of the COVID wing of SNPH
- 2) MOs, SR, RMO attending fever clinic at SNP Hospital.
- 3) Maintaining strict distancing in OPD, and IPD and ensuring that all concerned use PPE in OPD & IPD.
- 4) Ensuring safety of all admitted patients by isolating them initially for COVID test.
- 5) Serving non COVID cases by all necessary tests including fiberoptic bronchoscopy, lung biopsy, and RCU care.
- 6) Serving critically ill cases of post COVID lung fibrosis with maintenance of a database.
- 7) In the process maintaining a high morale among all departmental staffs in this crisis situation despite many residents, MO and also faculty members becoming victim of COVID in the process.

Interventions

The department manages all forms of respiratory interventions including pleural aspirations, biopsy, intercostals tube drainage, fiberoptic bronchoscopy and lung biopsy, image guided biopsy (USG, CT), spirometry and non-invasive ventilation.

SN	Procedure	Number
1.	Thoracentesis	1526
2.	Pleural Biopsy	257
3.	Intercostal Tube drainage	349
4.	Fiberoptic Bronchoscopy	510
5.	CT/ USG guided lung/Mediastinal SOL FNAC/ biopsy	458
6.	Pleurodesis	79
7.	Decortications and other major surgery in collaboration with Dept of CTVS	14
8.	Noninvasive ventilation (including bedside NIV)	246
9	Pleurex catheter	10

The Department has received semi-rigid pleuro-videoscope from the CSR fund of Power Grid Corporation of India which will enable to treat complicated cases of pleural disorders

Pulmonary Medicine

FACULTY

Prof (Dr) Amitabha Sengupta	Professor and Head
Prof (Dr) Sudipta Pandit	Professor
Dr. Ankan Bandyopadhyay	Assistant Professor

Senior Resident

Dr. Arindam Mukherjee, MD, DM (Pul Med & Critical care)

Postdoctoral Trainees: Pulmonary Medicine

Session 2021 - 2024	Session 2022-25
Dr. Ritabrata Mitra Dr. Akshit Gupta	Dr. Swapnendu Mishra Dr. Anupam Patra

CURRENT DM DISSERTATION WORK IN THE DEPARTMENT OF PULMONARY MEDICINE:

1. Pleural manometry during thoracocentesis to assess role of pleural elastance with special reference to malignant pleural effusion. Prof Amitabha Sengupta, Dr Ritabrata Mitra (MT-TR).
2. Evaluation of fibrotic biomarkers in patients of post covid lung fibrosis (Prof Amitabha Sengupta, Dr Akshit Gupta)
3. A prospective observational comparative study to assess diagnostic yield and safety between endobronchial cryo-biopsy and endobronchial forceps biopsy procedures in patients with visible endobronchial lesions attending in a tertiary care hospital in India (Prof Amitabha Sengupta, Dr Swapnendu Mishra)
4. Role of medical thoracoscopy in undiagnosed exudative pleural effusion: Prospective interventional study from Eastern India (Prof Amitabha Sengupta, Dr Anupam Patra)

Publications of the Department

1. A study of factors associated with hospitalization among tuberculosis patients and their outcome: A cross sectional study in the Department of Pulmonary Medicine in a tertiary care center. International Journal of Scientific Research 2021; 10(3): 63-65.
2. A Study on etiology and diagnostic modalities of cases with solitary pulmonary opacity in chest roentgenogram. Indian Journal of Applied Research 2021; 11(2): 26-28.
3. A comparative study of TB meningitis in HIV +ve and HIV -ve patients. International Journal of Scientific Research 2021
4. Original research paper assessment of drug usage pattern in patients of asthma: A cross-sectional study in a tertiary care teaching hospital in eastern India. International Journal of Scientific Research 2021; 10(9): 33-36

ICMR Project works ongoing

1. ICMR network of Pulmonary Fibrosis (INPF) ongoing project running since March 2022: 205 cases
2. The long-term effect of COVID-19 on the cognitive health of survivors & its neural underpinnings-In joint collaboration with Department of Neurology (Since April 2022)

SERVICE INFORMATION

Pulmonary Medicine at Main campus	Qualification	OPD Days
Prof (Dr) Amitabha Sengupta	MD (Resp Med)	Thursday
Prof (Dr) Sudipta Pandit	DCH, MD (Resp Med)	Tuesday
Dr. Ankan Bandyopadhyay	MD, DM (Pul Med & Critical Care)	Saturday

A fully air-conditioned 50 bedded indoor and intervention suite with state-of-the-art Respiratory ICU having bedside hemodialysis, invasive hemodynamic monitoring and advanced mechanical ventilator facility is run.

OPD data

New patients	25987
Old patients	16220
OPD total cases	42207

**Multidisciplinary ILD clinic with faculty from Rheumatology, Pulmonology and Radiodiagnosis.
Total attendance-60****RICU**ADMISSION **141****INDOOR PATIENTS: Bed strength – 50 (FROM 01.01.2022 TO 30.11.2022):**

Total Admission	869
Discharge	641
Bed occupancy	95

Procedures

SN	Procedure	Number
1.	Thoracoscopic pleural Biopsy	38
2.	Intercostal Tube drainage	50
3.	Video Bronchoscopy	292
4.	EBUS	5
5.	Cryo therapy	15
6.	Spirometry	801
7.	DL _{co}	127
