



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

Institute of Cardiovascular Sciences
Cardiac Anaesthesiology

The Department of Cardiac Anaesthesiology started its journey in the year 2011 on 11.02.2011. This Department was the 3rd in India (after AIIMS, New Delhi and Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram). This Department was the first one in Eastern India to start as an independent Department. Post-Doctoral course of DM (Cardiac Anaesthesiology) has been introduced under West Bengal University of Health Sciences with intake of 02 Postdoctoral Trainees per year from August 2011. This was the first one in Eastern India to conduct DM course in Cardiac Anaesthesiology. This course is offered in only few institutions in India at present.

The Department started with the following staff:

1.	Professor and Head:	Dr. Chaitali Sen
2.	Associate Professor:	Dr. Dr Soumi Das
3.	Assistant Professor:	Vacant
4.	RMO cum Clinical Tutor:	Dr Tiasa Das

PRESENT FACULTY

1.	Dr. Chaitali Sen (Dasgupta), MD (AIIMS). DNB. DM (AIIMS), MNAMS	Professor and Head
2.	Dr Soumi Das , MD, DM, FIACTA	Associate Professor,
3.	Dr Tiasa Das, MBBS	RMO cum Clinical Tutor

DM in Cardiac Anaesthesiology

Candidates passed DM

Till now **fourteen (14) candidates** have passed **DM in Cardiac Anaesthesiology** in MCI recognized seats

SN	Name of the Candidates	Year	Remarks	Other Achievement
1.	Dr. Kakali Ghosh, MD	August 2014	1st Attempt	Dr. Kakali Ghosh passed FIACTA Exam
2.	Dr. Monalisa Datta, MD			
3.	Dr. Jyoti Ranjan Parida, MD	August 2015	1st Attempt	—
4.	Dr. Somnath Dey, MD			
5.	Dr. Anusua Banerjee, MD	August 2016	1st Attempt	—
6.	Dr. Deepanwita Das, MD			
7.	Dr. Tanmoy Ganguly, MD	August 2017	1st Attempt	Dr. Soumi Das passed FIACTA Exam
8.	Dr. Soumi Das, MD			

9.	Dr. Harneet Singh Khurana, MD	August 2018	1st Attempt	Dr. Sushmit Kamat passed FIACTA Exam & FTEE Exam and DrNB in Cardiac Anaesthesia, Achieved MNAMS
10.	Dr. Sushmit Kamat, DA, DNB			
11.	Dr Neeta Basak, MD	August 2019	1st Attempt	Passed FIACTA & FTEE Exam
12.	Dr Gayatri Balabantaray	August 2020	1st Attempt	—
13.	Dr Illangovan P.	August 2021	1st Attempt	—
14.	Dr Pallav Mishra, FNB (Critical Care)	August 2021	1st Attempt	—
15.	Dr Gaurav Gogoi	August 2022	1st Attempt	—
16.	Dr Debjani Saha	August 2022	1st Attempt	Passed FIACTA Exam & FTEE Exam in First attempt

All of the above-mentioned ex-students are now well placed in their field:

SN	Year of Passing DM	Name of the candidate	Where posted now
1.	2014	Dr. Kakali Ghosh, MD, DM, FIACTA	Associate Professor, Calcutta Medical College, Kolkata
2.		Dr. Monalisa Datta, MD, DM	1. Consultant Cardiac Anaesthesiologist in AMRI, Mukundapur, Kolkata 2. Consultant Cardiac Anaesthesiologist, Ramkrishna Mission Seva Pratisthan, Hazra
3.	2015	Dr. Jyoti Ranjan Parida, MD, DM	Senior Consultant in Cardiac Anaesthesia, Sum Ultimate Medicare, Bhubaneswar
4.		Dr. Somnath Dey, MD, DM	Senior Consultant in Cardiac Critical Care, Deptt of Interventional Cardiology, Medica Superspeciality Hospital
5.	2016	Dr. Anusu a Banerjee, MD, DM, EDIC I	a) Consultant in Cardiac Anaesthesia, Woodlands Multispeciality Hospital, Kolkata b) Contractual Consultant in Deptt of Cardiac Anaesthesia, IPGME&R, Kolkata
6.		Dr. Deepanwita Das, MD, DM	Specialist Grade II, Assistant Professor, Chittaranjan National Cancer Institute, Kolkata
7.	2017	Dr. Tanmoy Ganguly, MD, DM	Associate Consultant in Rabindranath Institute of Cardiac Sciences, Kolkata
8.		Dr Soumi Das, MD, DM, FIACTA	Associate Professor, IPGME&R, Kolkata
9.	2018	Dr Harneet Singh Khurana, MD, DM	Consultant, Cardiac Anaesthesia and Critical Care, Dayanand Medical College and Hospital, Ludhiana
10.		Dr. Sushmit Kamat, DA, DNB, DM, FIACTA, FTEE, DrNB (Cardiac Anaesthesia), MNAMS	Assistant Professor, Department of Cardiac Anaesthesiology, Goa Medical College
11.	2019	Dr Neeta Basak, MD, DNB, FIACTA, FTEE	Junior Consultant Cardiac Anaesthesia, Mission Hospital, Durgapur, West Bengal
12.	2020	Dr Gayatri Balabantaray DNB, DM	Consultant Cardiac Anaesthesia, Kims Sunshine Hospital, Hyderabad

13.	2021	Dr Illangovan P DNB, DM	Assistant Professor, Cardiac Anaesthesia, Christian Medical College, Vellore, Tamilnadu
14.		Dr Pallav Mishra, MD, FNB (Critical Care), DM	Consultant Anaesthesiologist, Faridabad
15.	2022	Dr Gaurav Gogoi, MD, DM	Associate Consultant, Apollo Excel Care Hospital, Guwahati
16.		Dr Debjani Saha MD, DM, FIACTA, FTEE	Senior Resident, IPGM&R, Kolkata

Present Postdoctoral Trainees

2nd year	1st year
Dr Pavan Kumar Dammalapati, DA, DNB, Passed FTEE Dr Girraj Sharma, DA, DNB Dr Bijaya Kumar Sethy, MD Dr Payal Trigunait, DNB Dr Abhinandan Mondal, MD, Passed FTEE	Dr Nilanjan Chakravarty, MD Dr Elvis Senthil, MD Dr Arnab Samanta, MD Dr Sohini Majumdar, MD Dr Saurav Das, MD

ACADEMIC ACTIVITY

- Regular classes, examinations for assessment and hands-on training for DM (Cardiac Anaesthesiology) and MD (Anaesthesiology) students.
- Attend CME programmes organized by INDIAN SOCIETY OF ANAESTHESIOLOGISTS, and INDIAN SOCIETY OF CARDIOTHORACIC ANAESTHESIOLOGY, both in National and State level.
- Attend various conferences at State, Zonal, National, and International level
- They are posted in Cardiology Department of IPGMER to have Hands on Training in Transthoracic Echocardiography for two months (One month in First year and one month in Third Year).
- They are encouraged for publication of Research Articles, Case Reports, Review Articles in Different Journal of National and International repute.

Post Graduate Trainees in Anaesthesiology are posted to this Department for **OBSERVERSHIP** in Cardiac Anaesthesiology from:

- Department of Anaesthesiology, IPGMER
- Department of Anaesthesiology, Burdwan Medical College, Burdwan
- Department of Anaesthesiology, Bankura Medical College, Bankura
- Department of Anaesthesiology, Medical College, ESIC Hospital, Sealdah, Kolkata
- Department of Anaesthesiology, KPC Medical College, Jadavpur, Kolkata
- Department of Anaesthesiology, Midnapore Medical College
- Department of Anaesthesiology, Ruby Hospital Kolkata
- Department of Anaesthesiology, Durgapur Steel Plant Hospital, Durgapur

FACULTY NEWS

Dr. Chaitali Sen (Dasgupta) (Professor and Head)

- Guide or Co- guide of 8 (eight) DM (Cardiac Anesthesiology) students
- Examiner for DM Cardiac Anaesthesiology under West Bengal University of Health Sciences in 2022
- Thesis Evaluator of DM students of different Universities
- Guest Faculty in ISAJAAC 2022 (Eastern Zonal Conference) conducted by Indian Society of Anesthesiologists (West Bengal)

- e) Judge in ISAJAAC 2022 (Eastern Zonal Conference) conducted by Indian Society of Anesthesiologists (West Bengal) in Sarojini Devi Memorial Paper Competition.
- f) Guest Faculty in PG BOOT CAMP ISACONWB in 2021 conducted by Indian Society of Anesthesiologists (West Bengal)
- g) Guest Faculty in National Conference of Pediatric Cardiological Society of India in 2022
- h) Guest Faculty in IACTAWBCON in 2022
- i) Guest Faculty in State Conference of Association of Cardiothoracic Surgeons in 2022
- j) Guest Faculty in Brainware University for BSc Physician Assistant Students in 2022
- k) Takes regular classes for DM and MD students
- l) Active participation in all Heart Transplantation in SSKM Hospital done so far. (Total 06 cases done).
- m) Ex-Scientific Secretary in Indian Society of Anesthesiologists (West Bengal)
- k) Ex-Scientific Secretary in Association of Cardiac and Thoracic Anesthesiologists of West Bengal
- l) Ex Vice President in Association of Cardiac and Thoracic Anesthesiologists of West Bengal
- m) Ex- President in Association of Cardiac and Thoracic Anesthesiologists of West Bengal
- n) Ex Executive Council Member in Indian Society of Cardiac and Thoracic Anesthesiologists
- o) Reviewer of different National and International journals

Dr. Soumi Das (Associate Professor)

- a) Served critically ill Covid patients as ICU Co-in-charge at SNPH Hospital in Jan-Feb 2022.
- b) Delivered lectures as invited faculty in National and State level Conferences.
- c) Elected to serve a second term as Scientific Secretary of Indian Association of Cardiothoracic and Vascular Anesthesiologists, West Bengal Branch.
- d) Thesis Guide or Co-Guide of DM Students
- e) Participates in Academic activities of the Department in teaching DM and MD students, BSc Perfusion Technology as well as BSc Physician Assistant students.
- f) Publications:
 - Das S, Basu Roy S, Basu Roy S. Comparison of Effect of Combined Intravenous Amiodarone and Surgical Closure of OS ASD in Adults with Surgical Closure alone on Sinus Conversion of Concomitant Atrial Fibrillation - A Retrospective Case Series Analysis. JIMA Vol 120, No 6, P56-59.
 - Das S, Saha D, Sen C. Comparison among Ultrasound Guided Thoracic Paravertebral Block, Erector Spinae Plane Block and Serratus Anterior Plane Block for Analgesia in Thoracotomy for Lung Surgery. JCVA 36(12) 4386-4392. Published online on Aug 31 2022. DOI:https://doi.org/10.1053/j_jvca.2022.08.022
 - Gogoi GK, Das S, Sen C, Hazra A. Evaluation of Mitral-Aortic Flow Velocity Integral Ratio as a Tool to Differentiate between Severe and Nonsevere Mitral Regurgitation. JCVA 37(1) 16-22. Published online on Oct 8 2022. DOI:https://doi.org/10.1053/j_jvca.2022.10.002

3. Dr Sandeep Kumar Kar (Assistant Professor)

- a) Organizing committee member and advisory panel: 4th International Conference on Neurology and Healthcare
- b) Invited Chairperson In ISACON -2018 AGRA
- c) Awarded Membership of Asian council of science Editors.
- d) Completed training as Transplant Coordinator under NOTTO for 5 days in at Safdarjung Hospital, New Delhi
- e) Thesis Guide or Co-Guide of DM Students
- f) Participates in Academic activities of the Department in teaching DM and MD students, BSc Perfusion Technology as well as BSc Physician Assistant students.
- g) Editorial board member
 - i) European Cardiology Journal Reviews)
 - ii) Heart and Mind (Medknow, Wolter-Kluvers)
 - iii) Journal of Medical Sciences (Medknow, Wolter Kluvers)
 - iv) Journal of Integrative Nephrology and Andrology, Medknow, Wolter-Kluvers)
 - v) Written a book chapter in "Imaging in Critical Care Medicine"

4. Dr Tiasha Das , RMO cum Clinical Tutor

- a) Conducts Heart Transplant Clinic on every Monday
- b) Gives Anaesthesia to Surgeries done in CTVS OT
- c) Takes care of Postoperative patients in the recovery
- d) Teaches BSc Perfusion Technology and BSc Physician Assistant students.

5. Dr Anusua Banerjee, Contractual Consultant

- a) Gives Anaesthesia to Surgeries done in CTVS OT
- b) Takes care of Postoperative patients in the recovery
- d) Teaches DM Cardiac Anaesthesia Students in OT and in Seminars.

Ongoing Research in the Department

NAME	THESIS TOPIC
1. Dr. Pavan Kumar Dammalapati Guide: Prof Chaitali Sen Co-Guide: Dr. Sandeep Kumar Kar	Designing a new scoring system based on Echocardiographic parameters (ECHO score) and comparing with the EuroSCORE II for risk stratification for off-pump CABG (OPCAB) - a prospective parallel group observational study
2. Dr. Abhinandan Mondal Guide: Dr. Kakali Ghosh Co-Guide: Dr. Sandeep Kumar Kar	Effects of Levosimendan or Milrinone on Left Atrial pressure in patients undergoing Off-Pump Coronary Artery Bypass Grafting : A Randomized Controlled Trial
3. Dr. Payal Trigunait Guide: Prof Chaitali Sen Co-Guide: Dr. Soumi Das	Myocardial Performance Index of right ventricle and its comparison with left ventricular Ejection Fraction as prognostic factor in patients undergoing off-pump CABG – a prospective observational study
4. Dr. Bijaya Kumar Sethy Guide: Dr. Soumi Das Co-Guide: Prof Chaitali Sen	Doppler estimation of left ventricular filling pressure in patients with aortic stenosis undergoing aortic valve replacement
5. Dr. Girraj Sharma Guide: Prof Chaitali Sen Co-Guide: Dr. Sandeep Kumar Kar	Predictors of arrhythmias after releasing of aortic cross clamp in valve replacement surgeries : a prospective observational study
6. Dr. Nilanjan Chakravarty Guide : Dr. Soumi Das	Prognostic implication of right ventricular dysfunction on pre-operative echocardiography on immediate and short-term outcomes following left-sided valvular surgery.
7. Dr. Arnab Samanta Guide: Dr. Chaitali Sen	Comparison of Different Ventilatory strategies during open heart surgeries by Lung Ultrasound.
8. Sohini Majumdar Guide: Dr. Chaitali Sen	Comparison of Nebulized Versus Intravenous Milrinone in reducing Pulmonary Arterial Pressure in Mitral stenosis patients with Pulmonary artery hypertension undergoing Valve Replacement Surgery: A single blinded, randomized controlled trial.
9. Elvis Senthil Guide: Dr. Chaitali Sen	Evaluation of TAPSE to PASP ratio as a prognostic factor in comparison with the individual parameters in patients undergoing mitral valve replacement surgery
10.Saurav Das Guide: Dr. Soumi Das	Inhaled levosimendan vs inhaled milrinone in children with left to right shunt and pulmonary hypertension undergoing surgical correction

SERVICE INFORMATION

A. Clinical work

1. Perioperative cardiac clinic on every Thursday and Friday
2. Heart Transplant Clinic on every Monday
3. Pre-Anesthetic re-evaluation of all the patients on day before surgery
4. Pre-Anesthetic Evaluation of the Referred cases.
5. Transthoracic Echocardiographic Evaluation of Patients
6. Anaesthesia given to patient for
 - Cardiac surgeries (Adult and Pediatric and Neonate),
 - Thoracic surgeries (Adult and Pediatric),
 - Vascular Surgeries,
 - Esophageal surgeries
 - Mediastinal Mass Resection
 - **Heart Transplant (Donor and Recipient)**

7. Anaesthesia given to pediatric and adult patients in Cath Lab for
8. Diagnostic and Therapeutic Procedures
9. Round the clock Emergency service for CTVS OT
10. Round the clock CTVS Recovery Patients' care
11. ECMO support as and when necessary, in the Cardiac Postoperative Recovery unit.
12. Regular participation in COVID ICU and COVID ECMO in Sambhunath Pandit Hospital by Faculties and PDTs as and when required.

B. Anaesthesia given to patient for following surgeries (Monthwise statistics)

Month	Heart Transplant	On pump CABG	OPCABG	Valve Surgery			Congenital Heart Surgery				Thoracic	Others	Emergency	Total
				Aortic	Mitral	Multiple	ASD	VSD	TOF	Others				
2021														
December	0	0	10	0	2	3	12	3	9	7	0	0	1	12
2022														
January	0	1	6	0	0	3	4	1	5	3	1	0	0	
February	0	0	10	3	1	1	5	4	1	5	1	0	0	
March	1	1	17	1	0	0	6	0	5	2	5	0	0	
April	0	1	14	0	0	7	5	3	5	3	1	0	3	
May	0	0	3	0	2	1	2	0	3	0	0	0	0	
June	0	0	18	0	0	2	14	1	5	5	3	0	0	
July	0	1	9	0	1	1	13	4	8	3	2	0	0	
August	0	0	13	0	1	5	8	3	8	2	4	1	0	
September	0	0	13	0	1	6	12	1	14	7	5	0	1	
October	0	0	9	0	2	1	8	0	4	2	0	0	0	
November	0	1	13	0	2	2	11	4	8	7	1	0	2	
Total cases done from December 2021 to November 2022														707

C. Anaesthesia given to pediatric and adult patients in Cath Lab for various procedures

MONTH	DIAGNOSTIC PROCEDURE	DEVICE CLOSURE	PPM	TEE	OTHERS	TOTAL
Dec-21	3	4	0	0	0	7
Jan-22	3	8	0	1	3	15
Feb-22	8	9	0	0	4	21
Mar-22	4	10	1	0	1	16
Apr-22	6	12	0	0	1	19
May-22	6	12	0	0	4	22
Jun-22	10	17	0	0	2	29
Jul-22	3	8	0	0	1	12
Aug-22	3	4	0	0	2	9
Sep-22	5	11	0	0	3	19
Oct-22	3	6	0	0	0	9
Nov-22	11	22	0	0	2	35

TOTAL	65	123	1	1	23	213
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Special achievements this year

Heart Transplant -- One	(Total seven)
Dr. Debjani Saha (SR)	Passed FIACTA Exam and FTEE Exam
Dr. Abhinandan Mondal (2nd Year)	Passed FTEE Exam
Dr. Pavan Kumar Dammaalpati (2nd Year)	Passed FTEE Exam
