



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

Institute of Cardiovascular Sciences
Cardiology

FACULTY

Prof. Sankar Chandra Mandal	MD, DM, FACC(USA), FCSI,FESC	Professor and Head
Prof. Dipankar Mukherjee	MD, DM	Professor
Dr. Saroj Mandal	MD,DM, FRCP, FACC (USA), FSCAI (USA), FESC, FAPSIC, FICP, and MAPHRS	Associate Professor
Dr. Pradip Ghosal	MD, DM	Associate Professor
Dr. Asit Das	MD, DNB	Associate Professor
Dr. Pradip Saha	MD, DM	Assistant Professor
Dr. Tushar Kanti Patra	MD, DM	Assistant Professor
Dr. Gouranga Sarkar	MD, DM	Assistant Professor
Dr. Koushik Bandopadhyay	MD,DM	RMO cum Clinical Tutor
Dr. Kaushik Paul	MD,DM	RMO cum Clinical Tutor
Dr Avishek Saha	MD,DM	RMO cum Clinical Tutor
Dr. Niloy Banerjee	MD	RMO cum Clinical Tutor

Senior Residents

Dr. Pradip Bhowmik	MD, DM	SR (on bond period)
Dr. Aditya Verma	MD, DM	SR (on bond period)
Dr. Anindya Sarkar	MD, DM	SR (on bond period)
Dr. Seababrata Jana	MD, DM	SR (on bond period)
Dr. Suvendu Chattopadhyay	MD, DM	SR (on bond period)
Dr. IshitaMajumder	MD, DM	SR (on bond period)
Dr. Mukesh Agarwal	MD, DM	SR (on bond period)
Dr. Bidyut Roy	MD, DM	SR (on bond period)
Dr. Soumyadeep Batabyal	MD, DM	SR (on bond period)
Dr. Subir Sen	MD, DM	SR (on bond period)
Dr. Bimal Kahar	MD, DM	SR (on bond period)
Dr. Kaushik Manna	MD, DM	SR (on bond period)
Dr. Sidhnath Singh	MD, DM	SR (on bond period)
Dr. Ronita Saha	MD, DM	SR (on bond period)
Dr. Shah Alam Sarwar	MD, DM	SR (on bond period)

Postdoctoral trainees

Session 2019-2022	Session 2020-2023	Session 2021-2024
Dr. Rakesh Das Dr. Pradip Sarkar Dr. Ankita Tibdewal Dr. Saikat Prasad Datta	Dr. Amrithesh Biswas Dr. Sabyasachi Roy Dr. Debdatta Kar Dr. Subhprakash Pramanik	Yet to join

Dr. Rajkumar Bhattacharjee Dr. VigneshRajendran Dr. Kamalesh Gorai Dr. Purnendu Das Dr. Saket Soni	Dr. Manikanta Maji Dr. Asmita Das Dr. Arijit Saha Dr. Mrinal Kanti Manna Dr. Ritwik Ghosal	
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Medical Officers	House Staff
Dr. Paramartha Bhattacharya Dr. Bimal Naskar Dr. Abanti Dasgupta Dr. Subhasis Mukherjee Dr. Indranil Das Dr. Prabal Kanti Halder Dr. Sujata Bhadra Dr. Soumitra Banerjee	Dr. Padmanava Maity Dr. Morjem Ali Dr. Dildar Hossain Dr. Fahmida Zarin

Cath Lab Technicians	ECG Technicians
Nikhil Khatua Sk. Mamud Islam Saptarshi Kundu Srikanta Ghosh Aneek Giri Goswami Debayan Sinha Tanmoy Roy Suman Naskar Chiranjit Mondal Pritam Biswas Bharat Barman Lakshman Koley Sandip Podder Gour Hari Das Sakti Pada Jana Dipak Kumar Pal	Rajat Karmakar Rohan Chakraborty Samir Kumar Hazra Santanu Sen Sharma Satyajit Saha Somasree Das Md. Rasidul Haque Mollah Suman Krishna Kundu Sharmila Biswas Dalal

DEPARTMENTAL AND FACULTY NEWS

- Separate ECG and Echocardiography service has been started in Old Medicine OPD complex
- Three New Room has been started in Cardiology OPD along with the previous OPD Room
- One ROOM has been started for utilization of doing ECG of EMERGENCY patients who attend OPD
- Same day Echocardiography being done for patients attending Cardiology OPD.
- Dr. Soumyadip Batabyal, Post DM SR is attending the Rare Disease Clinic as representative from Cardiology.
- Echocardiography machine installed in Cardiology OPD complex.
- Day Care Angiography shall be started in Trauma Care Center Cath Lab soon.
- Prof. Dr. Sahidul Islam and Prof. Dr. Achyut Sarkar have retired this year.
- Dr. Pradip Ghosal has joined as Associate Professor.
- Dr. Asit Das was transferred to R.G. Kar Medical College and he has been again reverted to his previous posting in this dept.
- Dr. Gouranga Sarkar has been promoted and has joined this department as an Assistant Professor.

Prof. S. C. Mandal

- Successfully running National Heart Failure Register in collaboration with Medical College, Kolkata.
- Successfully running DEB study "Prospective, Multicentric, single arm trial to evaluate safety and performance of SELUTION and SELUTION PRO sirolimus drug coated balloon in the management of Coronary Artery Disease.
- Became Examiner of DNB and DM examination
- Member of CDSCO for Drug Vigilance.

Publications

1. Spectrum of Echocardiographic finding in Coronavirus Disease 2019 patients: Indian Journal of Echocardiography, August 2021
2. Isolated Non Compaction of Right Ventricular Myocardium, A Rare Congenital Anomaly and Role of Echocardiogram :A case report publish in Journal Of Cardiovascular Medicine and Cardiology
3. Persistent left superior vena cava (LSVC) and permanent pacemaker implantation; series of 4 cases Publish in International Journal of Medical Reviews and Case Reports
4. 6th month follow up of STEMI with total occlusion of IRA with optimal medical therapy: Indian journal of applied research
5. A correlation study between NAFLD and severity of coronary artery disease; JMSCR

Projects

- A multicenter, randomized, double-blind, double dummy, Phase III study to compare safety and efficacy of fixed dose combination of Aspirin 150 mg and Pantoprazole 20 mg versus Aspirin 150mg alone for the prevention of gastroduodenal mucosal damage in patients taking aspirin for secondary prevention of cardiovascular disease or cerebrovascular disease".

Prof. Dipankar Mukherjee

- Presided on 2 sessions in Annual National Conference of CSI December 2021 Hyderabad.
- Contributed in a review article in Cardiology Update 2021.
- Co-authored and contributed in a research paper with presidency college/university that is under review of a prestigious international journal.
- Contributed in "ADAMTS" as a biomarker of cardiac injury in "SCIENTIFIC REPORT".

Dr. Saroj Mandal

Publications

Article accepted for publication in Indian Journal of Indian Medical Association

1. Study of risk factor, clinical profile and angiographic patterns in patients of Coronary artery disease in a tertiary care hospital in Kolkata.
2. Percutaneous transvenous mitral commissurotomy in elderly patients with mitral stenosis, a retrospective analytic study from IPGME&R & SSKM Hospital, Eastern India.

Presentations

1. Served scientific convener National Conference society of Cardiac intervention, and delivered a talk on intervention in COVID positive cases- Case based discussion.
2. Guinness Book of record in Cardiology AMRICON 3D Conference

Dr Pradip Saha

Publication

Clinical profile of COVID 19 patient and QT interval changes with drugs used for empirical treatment; a case series from eastern india; published in IJSR.

Dr Soumya Kanti Dutta

Publications

1. Spectrum of Echocardiographic finding in Coronavirus Disease 2019 patients: Indian Journal of Echocardiography and cardiovascular imaging, August 2021
2. Can strain imaging predict left ventricular remodeling? A study from eastern India; Indian Journal of Echocardiography and cardiovascular imaging, May 2021

ACADEMIC ACTIVITY

Regular academic activities

- Journal Club held on every Tuesday at 9:00 AM.
- Seminar Presentation held on every Friday at 9:00 AM.
- Clinical Case Discussion held on every Saturday at 9:00 AM.
- Clinical teaching & Training on non-invasive methods and invasive investigations as well as intervention are going on
- DM students are working on their thesis.

- Cath lab Technician (DCLT) and Critical Care (DCCT) students are being trained.

Departmental research work ongoing

- Evaluation of patients Of STEMI With Acute Total Occlusion of Coronary Artery in the setting of delayed PCI And Pharmacotherapy
- Functional assessment of right atrium in patients with heart failure with reduced ejection fraction and 6 months follow-up with respect to functional status, death and re-hospitalization
- Functional assessment of Right atrium, Left Atrium, Right Ventricle in patients of HCM and 6 month follow up with respect to functional status, death and rehospitalization.
- Assessment of ventricular function by Echocardiography in patients of Ventricular Septal Defect before and after correction.
- A comparison study between DK crush and Nano crush in Bifurcation Coronary artery Disease
- Echocardiographic assessment of Right Ventricular Function with special reference to Strain Imaging in patients with Left Ventricular failure with reduced, mid range and preserved ejection fraction.
- Role of Tissue Doppler Imaging and Strain Echocardiography for early prediction of LV dysfunction in RV apical pacing patients with normal LV ejection fraction.
- Feasibility of His Bundle pacing using MPRC and stylet supported pacing lead and outcome comparison with Right Ventricular apical pacing in patient with heart block and wide QRS.
- Evaluation of Global and Regional Strain and angiographic correlation in patients with non-ST Elevation Acute Coronary Syndrome.
- An Observational Study on the Prevalence and Pattern of complications following cardiac implantable device placement and assessment of left and right ventricular function after right ventricular apical pacing
- An Observational Study on the Effect of SGLT2i on LA and LV Strain and LV Mass Index in Patients with and without Diabetes with Atherosclerotic CVD.
- An Observational Study on the Myocardial Infarction in Young Adults : Risk factors , clinical characteristics, Angiographic Pattern and in hospital outcome.
- An observational study on echocardiographic assessment of right ventricular function in acute right ventricular myocardial infarction and angiographic correlation to proximal right coronary artery stenosis.
- Bi-atrial remodeling in atrial fibrillation: Two-dimensional strain echocardiography insight and its correlation with heart failure
- Role of Carotid Artery ultrasound in risk stratification of stable ischemic heart disease and its correlation with coronary angiography.
- Left Atrial Volume Index Measurement and LA Strain in Acute Coronary Syndrome patients and its correlation with outcome
- 2D Speckle Tracking Echocardiography and Tissue Doppler Imaging of Right Ventricular Function And their angiographic Correlation as prognostic indicator in patients with acute inferior wall myocardial infarction.

OTHER INFORMATION.

- DNB(Cardiology) examination (on all India basis) is usually conducted twice a year.
- Separate Pediatric Cath-Lab is running successfully.
- 7 post DM SR joined this year

SERVICE INFORMATION

Indoor

Ward	No of Beds(Male)	No of Beds(Female)	Cabins
HUM-1	44	-	6
HUM-2	30	-	2
HUF-1	-	40	6
HUF-2	-	15	-
Pediatric Ward		15	
HGF	10	-	-
ICCU		18	6

Total Admissions :10500

Deaths 342

OPD

OPD attendance: Total 750-850 daily New 300-350 daily Old 450-500 daily

Special clinics

Clinic	Days
Arrhythmia Clinic	Every Monday
Paediatric OPD	Every Tuesday and Friday

Procedure/Investigations Performed

- ECG 99672
- TMT 115
- Echocardiography 24520 (Routine); Emergency-22750

Cathlab and OT Procedures

Temporary pacing	1739	Balloon pulmonary valvuloplasty	10
Permanent pacing	1104	AICD	33
Coronary angioplasty ± stenting	911	CRT-D	23
Peripheral angioplasty ± stenting	45	CRT-P	12
Coronary angiography	1767	Cardiac catheterisation	35
EP study with RF Ablation	74	MICRA	05
Balloon mitral valvuloplasty	83	Others	435

PROPOSED DEVELOPMENTAL PROJECTS

- Specialty clinics like heart failure clinic and pacemaker clinic to be started.
- HDU to be started.
- Day care Coronary Angiography service will be started in TRAUMA CARE CENTER
- PRE AND POST TRANSPLANTATION OPD will be started along with CTVS department
- TMT service will be shifted to OLD medicine OPD complex
- HOLTER monitoring for OPD patients will be started
- Dressing room will be open for follow up and dressing of PACEMAKER Patients

CONTRIBUTION OF CARDIOLOGY IN COVID-19 PANDEMIC SITUATION

In the COVID 19 pandemic situation, we admitting patients initially in isolated male, female and ICU ward maintaining all the COVID19 guidelines and all newly admitted patients are tested for COVID-19 PCR Test. Negative for COVID 19 PCR test patients are then shifted to cold male, female and ICU wards. Positive for COVID 19 patients are send to dedicated COVID 19 hospital (Sambhu Nath Pandit Hospital) with help of MSVP, IPGMR Hospital. We are providing all cardiological emergency service like urgent temporary pacemaker implantation, primary PCI, Pericardiocentesis etc. along with routine cardiological evaluation and management. We are also running 24-hour cardiology emergency with adequate precautions of our residents.

Besides providing services in our dept, the RMOs and post DM SRs are regularly engaged in COVID Hospital ward rounds at Sambhunath Pandit Hospital, PDTs of this department are performing floor duty in the COVID general ward and COVID CCU at SNPH on a rotational basis whilst ensuring that services in the Dept. of Cardiology remain unhindered.

1 C-Arm which had been additionally installed in the Dept. of Cardiology for expanding interventional services has been dispatched to SNPH for enabling implantation of permanent pacemakers in COVID positive patients.

1 cardiac ultrasound (echocardiography) machine has been dispatched to SNPH for smoother assessment of cardiac function and better cardiological assessment of the COVID patients.

Our **post DM SRs** visit MR Bangur Hospital rotationally on **ON CALL** basis to see cardiology referrals in MR Bangur Hospital.

