



# Prof. Dr. Pradip Kumar Karmakar

MBBS. MCPS. MD. FACC. FESC, FSCAI

Professor of interventional Cardiology  
National Institute of Cardiovascular Disease (NICVD) Dhaka, Bangladesh

**Prof. Dr. Pradip Kumar Karmakar**, a leading interventional cardiologist and professor dedicated to advancing cardiovascular care and education. With extensive experience in pioneering procedures such as **Robotic Angioplasty, Transcatheter Aortic Valve Replacement (TAVR)**, and Alcohol Septal Ablation, Dr. Karmakar has transformed the landscape of cardiology in Bangladesh and beyond. This platform serves as a gateway to his groundbreaking research, international collaborations, and contributions to the field of cardiovascular medicine. Guided by a commitment to innovation, compassion, and excellence, we aim to connect with patients, professionals, and researchers to improve global healthcare standards. Join us in our mission to save lives and redefine the future of cardiology.

## Education

### Doctor of Medicine (M.D.) in Cardiology

Bangabandhu Sheikh Mujib Medical University, January 2004

Focus: Advanced Cardiovascular Medicine, Invasive Cardiology



### MCPS in Medicine

Bangladesh College of Physicians and Surgeons, January 2002



### Bachelor of Medicine and Bachelor of Surgery (MBBS)

Sir Salimullah Medical College & Hospital, January 1996



## Professional Experience

### Academic Appointments

#### Professor of Interventional Cardiology & Unit Chief

National Institute of Cardiovascular Diseases (NICVD), Dhaka, **May 2024 – Present**

#### Key Responsibilities:

- ▶ Leading the interventional cardiology department with a focus on advanced cardiovascular treatments.
- ▶ Conducting research on minimally invasive procedures, including TAVR and robotic angioplasty.
- ▶ Mentoring postgraduate students and residents in cardiology.

#### Associate Professor of Cardiology & Unit Chief

NICVD, Dhaka, **March 2015 – May 2024**

#### Key Achievements:

- ▶ Performed groundbreaking procedures, Transcatheter Aortic Valve Replacement (TAVR), Alcohol Septal Ablation and complex percutaneous coronary angioplasty.
- ▶ Published high-impact research articles in international journals.

To advance the field of interventional cardiology through innovation, research, and education while contributing to improved global healthcare standards and accessibility.

+8801713231323

Pradip\_feni@yahoo.com

www.pradip.info

### Assistant Professor of Cardiology

NICVD, Dhaka, 2008 – 2013

Sylhet MAG Osmani Medical College, 2006 – 2008

#### Focus Areas:

- ▶ Clinical training, cardiology education, and patient management.

### Assistant Registrar of Cardiology

NICVD, Dhaka, 2004 – 2006

#### Role:

- ▶ Assisted in critical cardiovascular procedures and patient management.

### Clinical Appointments abroad

#### Interventional Cardiologist

Heart Institute of the Caribbean, Jamaica, April 2013 – January 2014

#### Contributions:

- ▶ Introduced advanced interventional techniques, including complex PCI.
- ▶ Provided training to local cardiologists on cutting-edge procedures.

## Certifications and Fellowships and Member

- ▶ Fellow, American College of Cardiology (FACC), 2008
- ▶ Fellow, European Society of Cardiology (FESC), 2008
- ▶ Fellow, Society of Cardiovascular Angiography and Intervention (FSCAI), 2011
- ▶ Publication Secretary of Bangladesh Society of Cardiovascular Intervention.
- ▶ President of ROVUS Bangladesh Society
- ▶ Medical License from Jamaica, West Indies.

## Key Accomplishments

#### Pioneering Innovations

- ▶ **Robotic Angioplasty and Tele-Stenting:** Performed for the first time in Bangladesh.
- ▶ **Transcatheter Aortic Valve Replacement (TAVR):** First performed in a public hospital in Bangladesh. Introduced and performed the highest number of TAVR procedures in the country.
- ▶ **Transcatheter Aortic Valve Replacement (TAVR) Valve in Valve:** Performed for the first time in Bangladesh.
- ▶ **Alcohol Septal Ablation:** First performed in a public hospital in Bangladesh. Pioneered this treatment for Hypertrophic Obstructive Cardiomyopathy in the country.

#### Research Contributions

Guided several impactful studies, including:

- ▶ **Thesis:** Detection of Left Ventricular Diastolic Dysfunction in Asymptomatic Type-II Diabetic Patients.
- ▶ **Co-Guided Research:**
  - "QRS Score as an Index of ST Segment Resolution in Acute STEMI Patients."
  - "Impact of Body Mass Index on Outcomes Post-Percutaneous Coronary Intervention."
  - Association of coronary calcium arc on stent expansion in patient with non ST elevation myocardial infarction by intravascular ultrasound
  - Comparison of Short-Term Outcomes between
  - Optical Coherence Tomography Guided and Angiography Guided Percutaneous Coronary Intervention

## Personal Information

Date of Birth



August 7, 1969

Nationality



Bangladeshi

Marital Status



Married

Spouse



Dr. Ratna Paul

Assistant Professor

Dhaka Medical College

## Publications: with citation-45

1.  Association between Free Tri-iodothyronine Level and In-Hospital Outcome in Patients with Acute ST-Elevation Myocardial Infarction Treated with Streptokinase Therapy. SMN Huda, AK Choudhury, PK Karmakar, B Mondal, S Ahmed, SC Datta, A Rahman, DD Debnath, MS Aktar, M Tabassum. Mymensingh medical journal: MMJ 34(1),153-158,2025

2.  Association between contrast-induced nephropathy and CHA2DS2-VASc score in patient with non-ST elevation myocardial infarction after percutaneous coronary intervention. Sohel Siddike, M. Mamunur Rashid, Pradip Kumar Karmakar, M. Abdul Hamid, AFM Rezaul Islam, Saurav Das, Atikur Rahman, Mohammad Faridul Hoque, Shameem Aktar, M. Sawkat Hossan. 2024.

<https://www.msjonline.org/index.php/ijrms/article/view/12977>

3.  Comparison of Short-term Outcomes between Planned and Bailout Rotational Atherectomy in Patients with Calcified Coronary Artery Lesions. MFBS Khan, MJ Uddin, PK Karmakar, M Mostafa-Al-Rasel, H Firdaus, Fortune Journal.vol 8, Issue 6. 2024.

4.  Transcatheter Aortic Valve Replacement in Bicuspid Aortic Valve: A Case Report. PK Karmakar, F Ahmed, A Momen, M Monwar, PR Das, MH Ameen, S Jannat, A Roy, MJ Uddin, KK Karmaker, B Dutta, MS Rahman, SC Mandal, M Mohiuddin. Mymensingh Medical Journal: MMJ 32 (3), 888-892, 2023.

(<https://pubmed.ncbi.nlm.nih.gov/37391991/>)

5.  Adverse In-Hospital Outcome of Transradial PCI in Comparison to Transfemoral PCI in NSTEMI Patients during Index Hospitalization: A Single Center Study in Bangladesh. AM Huq, MJ Uddin, A Momen, PK Karmakar, S Hashem, MA Rahman, I Alam, JT Imam, M Miah, A Rahman, TP Ghosh. Mymensingh Medical Journal: MMJ 31 (2), 400-405, 2022. (Satoshi Shojia, 2022)

6.  Obesity Paradox in Short-Term Clinical Outcomes After Percutaneous Coronary Interventions. Mohammad Khalilur Rahman Siddiqui, Pradip Kumar Karmakar, Nur Alam, Md Mizanur Rahman, Pranob Karmaker, Mohammad Morshedul Ahsan, Anup Kumar Howlader, Fahdia Afroz, Chowdhury Md Kudrat EKhuda, Abhijit Roy. Bangladesh Heart Journal 36 (1), 1-8, 2021. (I, 2022) (Pooja, 2023) (Molina-Cusme & Espinosa-Cevallos, 2022)

7.  Serum Potassium and Angiographic Severity of Coronary Artery Disease in Non-ST Elevation Myocardial Infarction. Maimuna Sultana, Afzalur Rahman, Pradip Kumar Karmakar, AKM Monwarul Islam, Al Mamun, Khondaker Aisha Siddika, Kazi Md Rubayet Anwar, Gokul Chandra Datta, Deb Dulal Debnath, Shaikat Chowdhury, Md Nazmul Islam. Bangladesh Heart Journal 35 (2), 128-133, 2020.

Google scholar



<https://scholar.google.com/citations?user=ZE1WHmsAAAAJ&hl=en>

## Text Book



"ACEIs in Cardiovascular Medicine: A 21st Century Caribbean Perspective" in the internationally acclaimed textbook, "ACE Inhibitors: Medical Uses, Mechanisms of Action, Potential Adverse Effects and Related Topics" (Volume 2) -2013.  
(<https://novapublishers.com/shop/ace-inhibitors-medical-uses-mechanisms-of-action-potential-adverse-effects-and-related-topics-volume-2/>)

## Publications: with citation-45

8.  **Intestinal alkaline phosphatase deficiency is associated with ischemic heart disease** Jagannath Malo, Md Jahangir Alam, Munjareen Shahnaz, Kanakaraju Kaliannan, Gopal Chandra, Tarek Aziz, Tapas Sarker, Mihir Bala, Ratna Paul, Chandan K Saha, Pradip K Karmakar, Madhu S Malo. Disease Markers 2019 (1), 8473565.2019. (Mathias Haarhaus, 2022) (Dong\*, 2023) (Amalie Lykkemark Møller, 2023) (Kühn, et al., 2021) (L. Alvarenga, 2020) (Upadhyay, 2023) (Chunying Zhang, 2021) (chenzhe Gao, 2022) (Werner, 2022)
9.  **Association of Vitamin D Level with Severity of Angiographically Documented Coronary Artery Disease: Observations from Bangladeshi Patients** Ashraf Ur Rahman, Pradip Kumar Karmakar, Sabrina Jabeen, Shaila Nabi, Ahad Mahmud Khan, Saqif Shahriar, Iftequar Alam, Shubhra Chakraborty, Mohammad Abdul Matin, STM Abu Azam. Journal of Cardiovascular Disease Research 10 (2).2019. (Islam, Bhuiyan, Akhtaruzzaman, Allardt, & Fogelholm, 2022) (Charles Limantoro1\*, 2022) (KAMRUZZAMAN SIDDIKI, 2021)
10.  **TCTAP A-018 Association of Vitamin D Level with Severity of Angiographically Documented Coronary Artery Disease: Observations from Bangladeshi Patients** Ashraf Ur Rahman, Pradip Kumar Karmakar, STM Abu Azam, Shaila Nabi, Ahad Mahmiud Khan, Md Saqif Shahriar, Sabrina Jabeen. Journal of the American College of Cardiology 73 (15S), S9-S9.2019.
11.  **Impact of body mass index on in-hospital outcomes after percutaneous coronary interventions** Mohammad Khalilur Rahman Siddiqui, STM Abu Azam, Pradip Kumar Karmakar, Shaila Nabi, Pranob Karmakar, Ratan Kumar Datta, Mohammad Morshedul Ahsan, Anup Kumar Howlader, Sharadindu Shekhar Roy, Mohammad Sadaqul Islam Sikder. Cardiovascular Journal 10 (1), 31-39 Bangladesh Heart Journal 33 (1), 39-46.2017. (Mohammad Khalilur Rahman Siddiqui Assistant Professor, 2021) (爽, et al., 2023) (席田兰, 幸晓琼, 杨佳丹, & 王红梅, 2023)
12.  **Effects of sustained-release trimetazidine on chronically dysfunctional myocardium of ischemic dilated cardiomyopathy—Six months follow-up result** A Momen, M Ali, PK Karmakar, MZ Ali, A Haque, MR Khan, MI Khalil, MS Hossain, RM Huda, MN Goni. Indian Heart Journal 68 (6), 809-815.2016. (Hongyang Shu1, 2021) (El touny4, 2023) (Soufiane Nassiri, 2024) (Soufiane Nassiri A. A., 2024) (Michał Bohdan1, 2022) (Qian Fan1, 2018) (Alrob, 2017) (ПОЛЯКОВА О.А.1, 2021) (технологий»)
13.  **Association of atherosclerotic renal artery stenosis with coronary artery disease** Krishna Kanta Sen, Mahboob Ali, Amal Kumar Choudhury, Pradip Kumar Karmakar, Md Khalequzzaman, Md Akhtaruzzaman, Salahuddin Ulubbi, Md Arifur Rahman, Md Shaheen Kabir, Md Badiuzzaman, Sharafat Nurul Islam, Bithi Rani Roy. Cardiovascular Journal 7 (2), 114-118.2015. (Fardin Mirbolouk1 ID, 2019) (Fardin Mirbolouk1 ID A. S.-R., 2019)



## Ongoing Research

Leading eight research projects at NICVD focused on advanced cardiovascular therapies, patient outcomes, and innovations in interventional cardiology.

## Publications: with citation-45

14.  Effectiveness of intrapericardial installation of cisplatin for prevention of reaccumulation of pericardial fluid in malignant pericardial effusion  
Abdul Momen, Md Z Ali, Amdadul Haque, Kazii M Kader, MDI Khalil, Pradip K Karmakar, Amal K Chowdhury, Mohammad N Goni, Sayed H-O Rashid, Mahboob Ali. CIRCULATION 125 (19), E770-E770.2012.
15.  Renal Denervation Therapy in a Resistant Hypertensive Patient-Report of First Case in Bangladesh  
M Ali, A Momen, PK Karmakar, MSR Patwary, MA Haque, MN Goni, AKMM Islam, RM Huda, A Rahman, AAS Majumder. hypertension 9, 12. 2012.
16.  AS-128: Pattern of Percutaneous Transluminal Coronary Angioplasty and Stenting in NICVD in 2008  
PK Karmakar, M Ali  
American Journal of Cardiology 105 (9), 54A, 2010.
17.  Percutaneous Coronary Intervention in Chronic Total Occlusion—In Hospital Outcome  
N Kar, M Ullah, PK Karmakar, AEMM Islam, AQM Reza, S Rahman  
Hypertension 25, 50.0, 2009.
18. Left ventricular diastolic dysfunction (LVDD) in impaired glucose tolerance (IGT) patients.  
Bhuiyan AKMM, Siddique MA, Ahmed MK, Ahmed CM, Rahman MM, Haque KMHS, Ahsan SA, Karmakar PK. University Heart Journal, Bangabandhu Sheikh Mujib Medical University 2008; 4(1): 24–29.
19. Prevention of stroke in non-valvular atrial fibrillation. Cardiovascular Journal 2008; 1(1): 64–71.  
Ullah M, Kar N, Karmakar PK, Alam S, Mamun MS, Rahman T, Habib SMA, Majumder AAS.
20. Short- term follow-up of atorvastatin therapy in dilated ischemic cardiomyopathy.  
Karmakar PK, Sahabuddin M, Ullah M, Akand AK, Bhuiyan MU, Kar N, et al. University Heart Journal, Bangabandhu Sheikh Mujib Medical University 2007; 3(1): 11–13.
21. Left atrial size in diabetic and non-diabetic subjects.  
Karmakar PK, Haque KMHS, Siddique MA, Banerjee SK, Ahmed CM. University Heart Journal, Bangabandhu Sheikh Mujib Medical University 2005; 1(2): 50–52.
22. Detection of Left Ventricular Diastolic Dysfunction (LVDD) in Asymptomatic, Normotensive, ETT Negative Newly Detected Type-2 Diabetic Patients.  
SK Banerjee, PK karmakar, MA Siddique, MA Siddique, CM Ahmed, AA Jamil, AK sarma, MA Rahman, MA Sultan, KMHS Hauque, Nepalese Heart Journal, 2004, Vol. 3 No. 3 (2004).

## Text Book



“ACEIs in Cardiovascular Medicine: A 21st Century Caribbean Perspective” in the internationally acclaimed textbook, “ACE Inhibitors: Medical Uses, Mechanisms of Action, Potential Adverse Effects and Related Topics” (Volume 2) -2013.

(<https://novapublishers.com/shop/ace-inhibitors-medical-uses-mechanisms-of-action-potential-adverse-effects-and-related-topics-volume-2/>)

## Awards and Recognition

The Bangabandhu Public Administration Medal 2023 is a nationally recognized award presented by the Government of Bangladesh to NICVD. As a Professor of Cardiology at this institute, I am honored to be a part of this achievement.

Recognized by the Bangladeshi Government for groundbreaking advancements in Robotic Angioplasty.

Media coverage in leading platforms for innovative treatments, including Robotic Tele- Stenting and TAVR.

Invited as an international faculty member as Judge, Chairperson, Penelist, Discussant for cardiology conferences across Asia, Europe, and North America.

## Academic activity

Working as a teacher, Supervisor, Course Manager Phase A and Phase B in Bangabandhu Sheikh Mujib Medical University Residency Program.

## Procedural Expertise

### Invasive Procedures

Performed more than 13,000 coronary angiograms and 10,000 angioplasties.

### Specialized in

- ▶ TAVR, CTO, Left Main and Complex Coronary Intervention.
- ▶ Robotic Angioplasty.
- ▶ ASD device closures, Peripheral Intervention, Renal Artery Stenting and Alcohol Septal Ablation.
- ▶ TPM, PPM, ICD-All types of Pacemaker implantation.
- ▶ Coronary Imaging- IVUS and OCT.

### Non-Invasive Procedures

Expertise in echocardiography (2D, Doppler, and trans-esophageal), dobutamine stress testing, and ETT analysis.

## Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media

### 1. Transcatheter Aortic Valve Replacement – 1st Time in Bangladesh

a)



সুপ্রসঙ্গ

First non-invasive aortic valve replacement in the country

b)



DBC  
24/7 NEWS

First non-invasive aortic valve replacement performed at government hospital

c)



প্রথম প্রাপ্তি

For the first time in the country, a new valve was replaced in an old valve without cutting the chest.

d)



আজকের পত্রিকা

Second heart valve replacement in the country without chest surgery

e)



Heart valve surgery without cutting the chest | Dr. Pradeep Kumar Karmakar

f)



Bangladesh Cardiovascular Research Foundation's Post

## Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media

### 2. Transcatheter Valve in Valve – 1st Time in Bangladesh



**DHAKA POST**

Replacing a new valve inside the aortic valve without cutting open the chest



**আজকের পত্রিকা**

For the first time in the country, a new valve was replaced with an old one without cutting the chest.



**dailyobserver**

First ever heart valve surgery in Bangladesh without cracking chest



**আমার সংবাদ**

For the first time in the country, a new valve was replaced with an old one without cutting the chest.



**DESH™**

New valve replacement inside the aortic valve for the first time in the country | Aortic\_Valve | Valve\_Replacement



**ATN NEWS**  
বাংলাদেশ ২৪ ঘণ্টা

Heart valve replacement is being done in the country without cutting the chest | ATN News Exclusive



**প্রতিদিন**  
www.pratikarprothidin.com

Dr. Pradeep Karmakar replaces heart valves in 2 more patients in Bangladesh without cutting open the chest



**প্রথম আলো**

For the second time, a successful valve replacement without a chest incision was performed in the country.

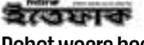
### Covid-19 Awareness Talk



What to do for patients with heart disease and respiratory problems during Corona || Health Talk  
- DBC NEW

**Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media**

**3. Robotic Angioplasty – Robotic Assisted Angioplasty – 1st Time in Bangladesh**

- a)   Treatment that cost 2.5 lakh taka in India and 1 lakh taka in Singapore is now available in Bangladesh for 20 thousand taka
- b)   For the first time in the country, a heart ring was fitted using a robot | ATN News
- c)   Robotic Assisted Heart Ring Placement | Somoy TV
- d)   Robots will put heart rings in the country for just 20,000 taka!
- e)   Bangladesh in the era of robot-assisted cardiac arrest
- f)   Azam and Morshed smile after having their heart rings put on by a robot
- g)   Robot wears heart ring for the first time in the country
- h)   Robotic Surgery: Save Time and Money | Dr. Pradeep Kumar Karmakar | Medivoice News
- i)   A ring was placed in the patient's heart artery using a remote-controlled robot || Robotic Surgery
- j)   Bangladesh achieves milestone with first robotic heart ring procedure
- k)   Robotic Angioplasty in NICVD. 1st time in Bangladesh
- l)   Robotic Angioplasty in NICVD. 1st time in Bangladesh

**Covid-19 Awareness Talk**



Heart disease during Corona |  
Connecting Bangladesh  
- ATN News | June 23, 2020

## Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media

### 4. Robotic Angioplasty Presentations in France, Paris in Euro PCR 2024



**সুপ্রভা**

Bangladesh's Dr. Pradeep's triumph in Paris



**কালবেলা**

Dr. Pradeep shared his experience of putting on a heart ring through a robot in Paris



**আমাদেরসময়**

Bangladesh praised for wearing the ring via remote-controlled robot in Paris



**প্রথমআলো**

Bangladeshi doctor shares experience of inserting stents into heart using a robot



**DHAKA POST**

Bangladesh praised in Paris for putting on the ring by a robot



**দেশ রূপান্তর**

Bangladesh praised in Paris for wearing rings through robots



Health Program - Boishakhi Health - Ep 49 | Health Program - Boishakhi Health - Ep 49

### 5. Alcohol Septal Ablation – Advanced Treatment in Hypertrophic Obstructive Cardiomyopathy – 1<sup>st</sup> Time in Bangladesh



**সুপ্রভা**

Artificial 'heart attack' in the treatment of heart disease



**DBC**  
24/7NEWS

Treating heart disease by inducing a controlled heart attack | DBC NEWS



**প্রথমআলো**

Treating heart disease by causing a 'heart attack', putting a smile on the patient's face

## Covid-19 Awareness Talk



Heart disease during Corona |  
Connecting Bangladesh  
- ATN News | June 10, 2020

## Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media

- d)    
Dr. Pradeep's leadership in surgical treatment of complex HOCM disease has led to astonishing success
- e)    
Treatment of heart disease HOCM is possible in the country
- f)    
HOCM# Hypertrophic obstructive Cardiomyopathy# Alcohol Septal Ablation in Bangladesh #

### 6. Other Electronic and Print Media Cardiological Talk – Public Awareness

- a)    
35 million children have dangerous levels of lead in their blood, reducing their memory and intelligence | Bangladesh Pratidin
- b)    
Why are heart attacks increasing at a young age? | Young Heart Disease | Independent TV
- c)    
Doctors advise to be careful to avoid heat-related illnesses | DBC NEWS
- d)    
30 percent of heart attack victims in the country are young | DBC NEWS
- e)    
Colleagues are also happy about Eid.
- f)    
Advice on eating red meat 'in moderation' during Eid
- g)    
Heart Block | Health related programs | Nexus Television

### Covid-19 Awareness Talk



Beacon Corona Info

## Outstanding Works in the Cardiovascular Field and People's Awareness in Electronic and Print Media

- h)   Doctors are concerned that young people are suffering from heart disease | Heart Foundation | Dhaka Post
- i)   Beacon body stories and mind news from across the country
- j)   First Aid - Dr. Pradeep Kumar Karmakar, Cardiologist - January 18, 2020
- k)   Overall dengue situation during the Eid holidays
- l)   Sastha Prohor | SA TV
- m)   Drinkit Sasthokotha | Desh TV
- n)   Live TV program about Heart Attack and its Treatment

## Participation in International Seminars

1. American College of Cardiology (ACC) - 2010, Atlanta, USA
2. American College of Cardiology (ACC) - 2012, Chicago, USA
3. European Society of Cardiology (ESC) Congress - 2008, Munich, Germany
4. European Society of Cardiology (ESC) Congress - 2010, Stockholm, Sweden
5. European Society of Cardiology (ESC) Congress - 2011, Paris, France
6. World Congress of Cardiology - 2010, Beijing, China
7. World Congress of Cardiology - 2012, Dubai, UAE
8. Japan Circulation Society - 2009, Osaka, Japan
9. Malaysia Live - 2011, Kuala Lumpur, Malaysia
10. Sing Live - 2010, Singapore
11. Sing Live - 2012, Singapore
12. Cardiological Society of India (CSI) - 2008, India
13. Cardiological Society of India (CSI) - 2011, India
14. World Congress of Cardiology - 2014, Melbourne, Australia
15. Sing Live - 2016, Singapore

## Participation in National Seminars

Actively participated in more than **100 national scientific seminars** across Bangladesh, contributing to discussions on advancements in cardiology and related fields.

## Participation in International Seminars

16. Cardiological Society of India (CSI) - 2016, India
17. Society for Cardiovascular Angiography and Interventions (SCAI) - 2016 Scientific Sessions, Orlando, Florida, USA
18. CTO Club - 2016, Nagoya, Japan
19. CTO, LM, Bifurcation Training - 2016, Seoul, Korea
20. EuroPCR - 2017, France
21. Transcatheter Cardiovascular Therapeutics (TCT) - 2018, San Diego, USA
22. Heart Failure Proctorship Program - 2018, Thailand
23. American College of Cardiology (ACC) - 2019, New Orleans, USA
24. CHIP CTO - 2020, Delhi, India
25. JIM (Joint Interventional Meeting) - 2020, Italy
26. 3<sup>rd</sup> CHIP CTO - 2022, Delhi, India
27. 4<sup>th</sup> CHIP CTO - 2023, Delhi, India
28. Hyderabad Valve - 2022, Hyderabad, India
29. Complex Cardiovascular Therapeutics (CCT) - 2023, Japan
30. Sentient Summit - 2023, India
31. 4<sup>th</sup> Bangladesh Intervention C3 Conference - 2024, Dhaka, Bangladesh
32. PHA Global Summit - 2024
33. EuroPCR - 2024, Paris, France
34. Complex Cardiovascular Therapeutics (CCT) - 2024, Japan

## Participated as International Faculty/Chairperson/Judge/ Discussant.

1. Asian International Cardiovascular Therapeutics (AICT)-2015
2. Bangla Interventional Therapeutics (BIT)-2015,
3. Bangla Interventional Therapeutics (BIT)-2016
4. LWSIC 2015 & 4<sup>th</sup>NATIONAL HEART FAILURE SUMMIT" 2015
5. SCAI-2016SCIENTIFIC SESSIONS IN ORLANDO,FLORIDA,USA FROM MAY 4-7,2016
6. Complex Cardiovascular Therapeutics, Kobe, Japan, 2017
7. Asia Pcr, Singapore, 2018.
8. Bangladesh Radial Interventional Course (BRIC) 2019, Dhaka.
9. 3<sup>rd</sup> International Conference On Cardiac Intervention, 2020, Dhaka
10. 3<sup>rd</sup> CHIP CTO- 2022-Delhi, India.
11. 4<sup>th</sup> CHIP CTO- 2023-Delhi, India.
12. Hyderabad Valve-2022
13. CCT Japan-2023.
14. Sentient Summit-2023
15. 4<sup>th</sup> Bangladesh Intervention C3 Conference-2024
16. PHA Global Summit-2024
17. Euro Pcr- France, Paris-2024
18. Complex cardiovascular Therapeutics- Japan-2024

### Declaration

I hereby declare that the above information is true and correct to the best of my knowledge.

Signature:



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