

**CURRICULUM VITAE**

**Name** Pradeep Narayan

**Education**

1993 MBBS Calcutta National Medical College,  
University of Calcutta, India

2001 FRCS, Royal college of Surgeons & Physicians of Glasgow

2001 FRCS, Royal college of Surgeons of Edinburgh

2009 FRCS[CTh]; Intercollegiate Specialty Board Exams,  
United Kingdom

2014 MD [Doctor of Medicine]- Research Degree  
University of Bristol, UK

2015 DHM [Diploma in Hospital Management]  
National Institute of Health and Family Welfare. India

**Post-Doctoral Training****Internship and Residencies**

## IN INDIA

1992-1993 Intern in General Surgery and Medicine, Calcutta National Medical  
College & Hospital

1993-1994 Resident General Surgery, Calcutta National Medical College &  
Hospital

1994-1995 Resident Cardiothoracic Surgery, Calcutta National Medical College &  
Hospital

1995-1997 Resident General and Upper GI Surgery, Woodlands Hospital

## IN THE UNITED KINGDOM

1998-1999 Resident, Accident and Emergency, Barnet General Hospital AND Kufns  
Lynn Hospital

1999-2000 Resident, Trauma and Orthopedics, Wycombe General Hospital

2000 Resident, Cardio Thoracic Surgery, Guys and St Thomas' Hospital

2001 Resident, Cardio Thoracic Surgery, Bristol Royal Infirmary

2001-2003 Clinical Fellow, Bristol Royal Hospital for Children and Bristol Heart  
Institute

2003-2007 Resident, Cardio Thoracic Surgery, Bristol Royal Infirmary

2008-2009 Senior Resident, Cardio Thoracic Surgery, Bristol Heart Institute

2010-2011 Post Residency Fellow [Aortic Surgery and OPCAB] Bristol Heart  
Institute

**Licensure and Certification:**

1994 West Bengal Medical Council Registration (India)51260

1998 General Medical Council Registration (UK) 4734598

2011 CCST [Certificate of Completion of Specialist raining] (UK)  
Postgraduate Medical Education and Training Board (PMETB), UK

**Membership of Professional Bodies**

2020	American Association of Thoracic Surgeons Membership no: 28363-2020
<b>2019</b>	<b>European Association for Cardio-Thoracic Surgery</b> <b>Membership No: 11081</b>
2016	Society of Thoracic Surgeons Membership no: 260278
2013	Indian Association of Cardiovascular-Thoracic Surgeons L 20132035

**Academic Appointments**

2001-2003	Clinical Fellow; Bristol Royal Infirmary
2007-2010	Research Fellow; Bristol Heart Institute; University of Bristol [Enrollment number 0546204]
2019	Faculty Masters of Hospital Administration (MHA)
2020	Head of Clinical Research, Narayana Health, Bengaluru

**Hospital Appointments**

2011-	Senior Consultant Cardiac Surgeon
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**Other clinical responsibilities**

2018	Transplant program
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**Major Administrative Responsibilities**

2017	Member Secretary, Institutional Review Board
2018	Chairman, Audit committee
2019	Programme Director, Cardiothoracic Residency Program
2020	Member Research Advisory Board

**Committee Assignments:**

## Hospital

2012	Clinical Advisor, Infection Control Board
2016	Member, Scientific Review Committee
2017	Lead, Committee for drafting Standard Operating Procedures
2018	Member; Quality Improvement committee

## National

2010	Program Committee- Indian Association for Cardio-vascular and Thoracic Surgeons
2014	National Database Formulation Committee
2015	National Faculty; 61 <sup>st</sup> Annual conference Indian Association for Cardio-vascular and Thoracic Surgeons
2017	Assessor; "Accreditation Program for Institutional Review Boards"
2017	Course Director; Eastern India Cardiac Conclave 2017
2018	Writing committee for drafting coronary revascularization guidelines for India
2018	National Faculty; 64 <sup>th</sup> Annual conference Indian Association for Cardio-vascular and Thoracic Surgeons

## International

2018	Committee representative for IQIC Quality Improvement; Boston Children's Hospital
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2017 Local representative for Quality team Children's Heart Link, Minnesota.

Local

2012 Executive committee member; Association of Thoracic and Cardiovascular surgeons of West Bengal

2012 Editor; "Cardiothoracic News" Quarterly journal of Association of Thoracic and Cardiovascular surgeons of West Bengal

2014 Chairman; State Database Committee

### Professional Society Involvement

2020 American Association for Thoracic Surgery

2019 European Association for Cardio-Thoracic Surgery

2016 Society of Thoracic Surgeons

2013 Indian Association of Cardio-Thoracic Surgeons

2011 Association of Thoracic and Cardiovascular surgeons of West Bengal

2000 Royal College of Surgeons of Edinburgh

2000 Royal College of Surgeons and Physicians of Glasgow

### Editorial Boards:

Associate Editor

2019- Indian Journal of Thoracic and Cardiovascular Surgery

Editorial Board Member

2019- Journal of Cardiac Surgery

Guest Reviewer

2004 European Journal of Cardiothoracic Surgery

2004 Interactive journal of Cardio-thoracic and Vascular Surgery

2014 Frontiers in Surgery

2014 Frontiers in Cardiovascular Medicine

2015 Journal of Interventional Cardiology

2016 Indian Journal of Thoracic and Cardiovascular Surgery

2016 Perfusion

2016 International Journal of Cardiology

2017 International Journal of Surgery

2019 Indian Journal of Medical Research

2019 World Journal of Surgical Oncology

2020 World Journal for Pediatric and Congenital Heart Surgery

2020 Springer Nature Scientific Reports

2021 Journal of Thoracic and Cardiovascular Surgery

2022 Journal of Cardiothoracic Surgery

Past Editor

2014-16 "Cardiothoracic News" Quarterly journal of Association of Thoracic and Cardiovascular surgeons of West Bengal

2019- NH-Quality and Patient safety Newsletter (Circulated in 23 hospitals)

### Advisory Boards

2017 St. Jude Medical Inc., Clinical Advisory Board

2018 Novartis India Ltd. Clinical Advisory Board

### Awards and Honours

- 2010 Hans G Borst award; European Association for Cardio-thoracic Surgery
- 2017 Best Reviewer of the year [Indian Journal of Thoracic and Cardiovascular Surgery]
- 2017 Outstanding contribution in reviewing [International Journal of Cardiology]
- 2017 Best Presentation [Annual Meeting of Association of Cardio-Thoracic and Vascular Surgeons of West Bengal, India]
- 2018 Outstanding contribution in reviewing [International Journal of Surgery]

### Report of Research

#### Major Research Interests

Cardiopulmonary bypass and cardioplegic arrest  
 Aortic surgery with focus on Aortic Dissection  
 Diabetes and Coronary Artery Bypass Grafting  
 Ischemic Mitral Regurgitation  
 Tricuspid Valve repair

#### Narrative Description of Research:

##### Cardiopulmonary bypass and cardioplegic arrest

I have been interested in understanding the pathophysiology of cardiopulmonary bypass and cardioplegic arrest in the clinical setting. I have been part of two major trials on the subject. CAIAS (cardiopulmonary-bypass against ischemic arrest study) was to investigate the independent contribution of cardiopulmonary bypass (CPB) and cardioplegic arrest (CA) on sub-system organ function patients undergoing multi-vessel coronary artery bypass surgery. The primary outcome measures were cerebral, renal, and myocardial injury, and inflammatory activation. The secondary outcome measures included in-hospital morbidity. I was the principal investigator in this study.

The study data was presented at the “European Cardiology Meeting” and “Society of Thoracic Surgeons Meeting” and the complete trial findings were published in the European Journal of Cardiothoracic Surgery. Based on this study I was awarded the postgraduate research degree of Doctor of Medicine (MD) by the University of Bristol, UK. Grant: This trial was supported by the British Heart Foundation (BHF) and the Garfield Weston Trust.

I am also a collaborator in a randomized multicenter trial on the subject. Shortening cardioplegic arrest time in patients undergoing combined coronary and valve surgery: the SCAT trial.

##### Surgery of Thoracic Aorta

I have continued to be interested in Aortic surgery research especially Acute Aortic dissections. I have pursued this interest from my resident days which has seen me publish 11 original articles on aortic surgery over the years and been the principal investigator in all of them. I have been awarded the Hans G Borst award at the annual conference of the European Association for Cardio-Thoracic Surgery (EACTS) in 2010 for the presentation of our work on the thoracic aorta.

##### Diabetes and Coronary Artery Bypass Grafting

This is another area of significant research interest for me. I carried out a large study to assess the impact of HbA1c on predicting outcomes after CABG. The study findings were presented at the AATS annual meeting and was subsequently published in the Annals of Thoracic Surgery.

I have also been part of another multicenter randomized trial where the effects of Preoperative Volume Replacement in Diabetic Patients Undergoing Coronary Artery Bypass Grafting Surgery is being assessed. The study findings have been accepted for publication in the Interactive Cardio-Vascular and Thoracic Surgery.

### **Tricuspid Valve Repair**

We are studying the outcome of a self-constructed felt tricuspid ring (patent applied for). The ring has been implanted in almost 30 patients so far. The early results were presented at the AATS Mitral Conclave in 2017. I also presented our results of concomitant tricuspid valve repairs using flexible and rigid rings in rheumatic mitral valve pathologies in the same meet.

### **Research Funding:**

- 2006 National Institute for Health Research's Bristol Cardiovascular Biomedical Research Unit and the British Heart Foundation
- 2007 Imperial College of Science and Medicine [Collaborator for RIME trial]
- 2010 British Heart Foundation (BHF) and the Garfield Weston Trust.
- 2014 Teaching Grant- Edwards Lifesciences Corporation
- 2016 Teaching Grant- St. Jude Medical Inc.,

### **Report of Teaching**

- Local** [last 2 years only]
- 2018 Basic statistics for clinicians
- 2018 Cannulation techniques- pitfalls- delivered to the perfusionists
- 2018 Review of coronary trials
- 2018 Research Methodology
- 2018 Porcine Valves current status
- 2019 Sternal Dehiscence
- 2019 Heart Failure – Current management(24<sup>th</sup> August)
- 2019 Trial registration
- 2019 Publication of Research
- 2019 Informed consent in Clinical Research
- 2019 Novel Oral Anti-Coagulants
- 2019 Review of PARTNER trial
- 2019 Interpretation of angiograms
- 2020 Practice of OSCE

### **Continuing Medical Education Courses**

- 2019 Faculty- Workshop on Clinical Research Methodologies (26-27th July 2019)- Talks given on “Trial Registration” and “Publication of research”
- 2019 Faculty- 2<sup>nd</sup> East India MICS Conclave (9<sup>th</sup> -10<sup>th</sup> August)
- 2019 Faculty and Organizer: Monthly Meeting of Association of Thoracic and Cardio vascular Surgeons of West Bengal (31<sup>st</sup> August RTIICS)
- 2019 Faculty ECMO- Awareness Course RTIICS
- 2019 Faculty Good Clinical Practice in Clinical Research at NSH (24<sup>th</sup> September)
- 2019 Panel Discussant- VYMADA in Heart Failure Patients, Mumbai

### **Mentoring Responsibilities:**

- 2011- I have been continuously involved in mentoring the junior residents/fellows and have helped them to develop not only their skills but a passion and love for the specialty and the profession
- 2013- I am currently supervising 4 post-doctoral fellows in different stages of training
- 2019- I have been appointed as the Cardiothoracic Residency Program Director.

### **Webinars**

- 2020 Cardiac Surgery Webinar Series (24<sup>th</sup> April)-Covid 19 and Cardiac Surgery
- 2020 Best Practices in Cardiac Anaesthesia in the Covid-19 pandemic scenario ( 2<sup>nd</sup> May)
- 2020 Important recent clinical trials in cardiac surgery-ISCHEMIA Trial(31<sup>st</sup> May)
- 2020 CABG with Concomitant Carotid Artery Disease, WBACTVA, (25<sup>th</sup> July)
- 2020 Good Clinical Practice-An online certificate course, Inovocare, 6<sup>th</sup> September
- 2021 CTVS National Meet- Organized by Novartis, supported by IACTS( 11<sup>th</sup> Sep)

### **National Meetings**

- 2022 Are saphenous grafts superior to stents? Presented at the Society of Coronary Surgeons, India. (9-10<sup>th</sup> July 2022)

## **BIBLIOGRAPHY**

### **INVITED EDITORIALS AND REVIEWS**

1. **Narayan P**, Sarkar K, Trehan N, Chandra P, Chouhan NC, Puskas JD, Taggart DP, Yadava OP. Key updates from international coronary congress 2016—a review. *Indian Journal of Thoracic and Cardiovascular Surgery*(2017)33:289: 10.1007/s12055-019-00833-y
2. **Narayan P**. Bilateral internal mammary arteries—are they really enough? *Indian Journal of Thoracic and Cardiovascular Surgery*. (2017) 33: 289
3. **Narayan P**. Has Arterial Revascularization Trial [ART] burst the BITA bubble? *Indian Journal of Thoracic and Cardiovascular Surgery*. 2019-06-06
4. **Narayan P** Evidence from the placement of aortic transcatheter valve (PARTNER) Trial—can we just dismiss it? *Indian Journal of Thoracic and Cardiovascular Surgery*. 2019-06-06 DOI: 10.1007/s12055-019-00835-w
5. **Narayan P** Occult renal disease in patients undergoing coronary artery bypass grafting: does it really matter?*Indian Journal of Thoracic and Cardiovascular Surgery*,2019-04-04 DOI: 10.1007/s12055-018-0766-4

6. **Narayan P** Five-year clinical outcomes of diabetic patients in the Randomized On/Off Bypass Follow-up (ROOBY-FS) trial—is the evidence enough to change the practice? *Indian Journal of Thoracic and Cardiovascular Surgery*,2019-04-12,DOI: 10.1007/s12055-018-00781-z
7. **Narayan P** Transcatheter aortic valve replacement in low-risk patients: superiority or shifting goalposts and statistical crystal-gazing? *Indian Journal of Thoracic and Cardiovascular Surgery*,2019-06-06 DOI: 10.1007/s12055-019-00835-w
8. **Narayan P, Rupert E** Skin Testing before Antibiotic Administration – Is there a scientific basis? *Journal of The Association of Physicians of India*; Vol. 67; August 2019
9. **Narayan P** Commentary on “Use of endoscopic vein harvesting (EVH) during coronary artery bypass grafting in United Kingdom: The EVH survey?” *International Journal of Surgery, Int J Surg.* 2019 Oct;70:33-34. doi: 10.1016/j.ijisu.2019.08.016
10. **Narayan P** Durability or avoiding Valve Related Adverse Events – What is more Important in Elderly Patients undergoing Aortic Root Replacement? *International Journal of Cardiology, Int J Cardiol.* 2019 Dec 1;296:51-52. doi: 10.1016/j.ijcard.2019.08.028
11. **Narayan P.** NOBLE trial-is it time to revise the guidelines?. *Indian J Thorac Cardiovasc Surg.* 2020 Sep;36(5):541-543.
12. **Narayan P** International Study of Comparative Health Effectiveness with Medical and Invasive Approaches (ISCHEMIA) trial and the appropriateness of revascularization. *Indian J Thorac Cardiovasc Surg.* 2020 Nov;36(6):664-667
13. Narayan P. PROMOTE patency-does it have the answers?. *Indian J Thorac Cardiovasc Surg.* 2020 Mar;36(2):91-92. doi: 10.1007/s12055-019-00881-4. Epub 2019 Nov 15. PubMed PMID: 33061106; PubMed Central PMCID: PMC7528419.
14. Narayan P. Off-pump versus on-pump bypass surgery for left main coronary artery disease (EXCEL study) - is experience the unknown variable?. *Indian J Thorac Cardiovasc Surg.* 2020 May;36(3):253-255. doi: 10.1007/s12055-019-00914-y. Epub 2020 Jan 2. PubMed PMID: 33061136; PubMed Central PMCID: PMC7525569.
15. Narayan P, Chakrabarthi S. An invited commentary on "Health-Related Quality of Life after Heart Surgery - Identification of high-risk patients: A cohort study" [*Int. J. Surg.* 76 (2020) 171-177]. *Int J Surg.* 2020 May;77:130-131
16. Narayan P, Shales S. Commentary on "Ten-year improved survival in patients with multi-vessel coronary disease and poor left ventricular function following surgery: A retrospective cohort study". *Int J Surg.* 2020 May;77:136-137.
17. Narayan P, Angelini GD. Mitral valve-Innocent bystander or master of its own destiny?. *J Card Surg.* 2021 Jan;36(1):244-246.
18. Narayan P, Bryan AJ. "Turn downs" in aortic emergencies: Reassurance or uncertainty?. *J Card Surg.* 2021 Jan;36(1):203-205.
19. Narayan P, Angelini GD. Warm blood or cold cardioplegia- Is this the final answer?. *Int J Cardiol.* 2021 Jan 1;322:99-100.

20. Narayan P. Second best conduit-is it the tag or patency that counts?. *Indian J Thorac Cardiovasc Surg.* 2021 Mar;37(2):222-224
21. Narayan P. Asymptomatic patients with very severe aortic stenosis-operate or watch?. *Indian J Thorac Cardiovasc Surg.* 2021 May;37(3):364
22. Narayan P, Angelini GD. Hybrid coronary revascularization-back to the future. *Eur J Cardiothorac Surg.* 2021 Jun 22;. doi: 10.1093/ejcts/ezab207.
23. Narayan P. Peri-procedural myocardial infarction: what is in a definition?. *Indian J Thorac Cardiovasc Surg.* 2021 Jul;37(4):473-475
24. Narayan P, Angelini GD. Vascular emergencies-The new COVID-19 crisis?. *J Card Surg.* 2021 Aug;36(8):2913-2915
25. Narayan P. Structural valve degeneration in the transcatheter mitral valve implantation era. *J Card Surg.* 2021 Aug 9
26. Narayan P. Role of peri-operative exercise in patients undergoing coronary artery bypass grafting. *J Card Surg.* 2021 Sep;36(9):3174-3176
27. Narayan P. Concomitant left atrial appendage occlusion in patients undergoing cardiac surgery. *Indian J Thorac Cardiovasc Surg.* 2021 Sep;37(5):605-607
28. Narayan P. Fractional flow reserve-guided PCI as compared with coronary bypass surgery (FAME III)- another brick in the wall!. *Indian J Thorac Cardiovasc Surg.* 2022;38(3):336-338. doi:10.1007/s12055-022-01346-x
29. Narayan P, Angelini GD. Robotic hybrid coronary revascularization-A need for strategy specific data. *J Card Surg.* 2022;37(3):512-514. doi:10.1111/jocs.16150
30. Narayan P. Posterior left pericardiotomy for the prevention of atrial fibrillation: evidence from the PALACS trial. *Indian J Thorac Cardiovasc Surg.* 2022;38(2):226-228. doi:10.1007/s12055-021-01318-7
31. Narayan P, Angelini GD. Robotically assisted hybrid coronary revascularization-Masterly technique but is it for the masses?. *J Card Surg.* 2022;37(4):906-908. doi:10.1111/jocs.16241
32. Narayan P, Doddamane AN, Bryan AJ. Moderately dilated ascending aorta-The right wrap?. *J Card Surg.* 2022;37(4):927-929. doi:10.1111/jocs.16274
33. Narayan P, Dimagli A, Angelini GD. Octogenarians needing reoperative aortic valve surgery-Does one size fit all?. *J Card Surg.* 2022;37(5):1272-1274. doi:10.1111/jocs.16343
34. Narayan P, Angelini GD. Routine preoperative CT: Ready to roll or a step too far?. *J Card Surg.* 2022;37(6):1730-1732. doi:10.1111/jocs.16397
35. Shetty V, Shales S, Narayan P. Lactate levels: A reliable tool to predict mortality in acute type A aortic dissections?. *J Card Surg.* 2022;37(5):1212-1214. doi:10.1111/jocs.16322



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37. Narayan P. Management of severe aortic stenosis in asymptomatic patients in the new AVATAR. *Indian J Thorac Cardiovasc Surg.* 2022;38(4):454-456. doi:10.1007/s12055-022-01382-7
38. Narayan P. Commentary: Negative pressure wound therapy: Not so negative! [published online ahead of print, 2022 Jan 31]. *J Thorac Cardiovasc Surg.* 2022;S0022-5223(22)00098-8. doi:10.1016/j.jtcvs.2022.01.026
39. Narayan P. Sutureless valves-are we there yet? Evidence from the PERSIST-AVR trial. *Indian J Thorac Cardiovasc Surg.* 2022;38(1):108-110. doi:10.1007/s12055-021-01289-9
40. Narayan P. Vancomycin: Does it Independently Influence Deep Sternal Wound Infection Rates? [published online ahead of print, 2021 Dec 10]. *Ann Thorac Surg.* 2021;S0003-4975(21)02047-6. doi:10.1016/j.athoracsur.2021.11.019

#### PEER REVIEWED PUBLICATIONS IN SCHOLARLY JOURNALS

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45. Ghosh A, **Narayan P**, Morgan JA, Ascione R. Successful multiple stage management of giant malignant endo-thoracic nerve. *European journal of Cardio-thoracic Surgery.* 2003; 24: 165-167
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52. **Narayan P**, Caputo M, Jones J, Al Tai S, Angelini GD, Wilde P. Post-operative chest X-ray changes after on and off-pump coronary Surgery: a prospective randomized study. *Clinical Radiology*;2005; 60(6):693-9
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54. **Narayan P**, Rogers CA, Caputo M, Angelini GD, Bryan AJ. Ascending aorta or arch surgery: is previous cardiac surgery a risk factor? *Asian Cardiovascular & Thoracic Annals*. 2006; 14(1):14-9
55. Akowuah E, **Narayan P**, Angelini GD, Bryan AJ. Management of prosthetic graft infection after surgery of the thoracic aorta; is removal of the prosthetic graft always necessary? *Journal of Thoracic and Cardiovascular Surgery*. 2007 ;134(4):1051-2
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Thoracic endovascular repair versus open surgical repair - which is the more cost-effective intervention for descending thoracic aortic pathologies? *European journal of Cardio-thoracic Surgery* 2011 Oct;40(4):869-74. doi: 10.1016/j.ejcts.2011.01.010
  
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Coronary artery bypass surgery with or without mitral valve annuloplasty in moderate functional ischemic mitral regurgitation: final results of the Randomized Ischemic Mitral Evaluation (RIME) trial. *Circulation*. 2012;126(21):2502-10
  
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Angiography for management of perioperative myocardial ischemia: does it have any role? *Innovations (Phila)*. 2014;9(5):375-8; discussion 378
  
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Iatrogenic intraoperative type A aortic dissection following cardiac surgery. *Asian Cardiovascular & Thoracic Annals* 2015; 23(1):31-5
  
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## HOW TO DO IT?

123. Kapoor L, Gayen R, Topno, Kumar D, Narayan P. Simple Extra-Corporeal Knot tying technique in Minimal Access Surgery. *Ann Thorac Surg*. 2019 May 10. pii: S0003-4975(19)30681-2. doi: 10.1016/j.athoracsur.2019.04.011
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## BOOK CHAPTER

Published in *Cardiology Update 2017: RELX India, 2017, pp. 193-199* In: Chandra KS and Bansal M (eds).  
 Authors **Narayan P**, Sarkar K.



Chapter Title      Surgery in Acute Coronary Syndrome: Technical Considerations and Clinical Outcomes.

## VIDEO PUBLICATIONS

- 1            Das D, Dutta N, Das P, Narayan P. Repair of Complete Atrioventricular Septal Defect by Two Patch Technique. August 2020. doi:10.25373/ctsnet.12867356
- 2            Das D, Dutta N, Narayan P. Repair of Truncus Arteriosus by Bovine Jugular Xenograft in Right Ventricular Outflow Tract. July 2020. doi:10.25373/ctsnet.12636482
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## Abstracts

- 1    **Narayan P**, Caputo M, Mahesh B, Alwair H, Angelini GD, Bryan AJ  
Early outcome of surgery of the Ascending Aorta/Arch: Is there a relationship with caseload? Presented at the European Association for Cardio-thoracic Surgery 2003 – Vienna.
- 2    **Narayan P**, Rogers CA, Caputo M, Angelini GD, Bryan AJ. A 15 year audit of acute type a aortic dissection- have the outcomes changed with time? Presented at the British Cardiovascular Society Annual Scientific Conference, Glasgow, 4 - 7 June 2007
- 3    **Narayan P**, Rogers CA, Caputo M, Angelini GD, Bryan AJ. A 15 year audit of acute type a aortic dissection – have the outcomes changed with time? *Heart*. 2007;93:A5-A105
- 5    Miceli A, Bruno VD, Fiorani B, Mokhtari A, Bogdan C, Capoun R, **Narayan P**, Romeo F, Angelini GD, Caputo M A clinical score to identify high risk patients undergoing CABG who may benefit from the elective use of IABP. *European Surgical Research* 2009; 43:77-197
- 6    Miceli A, Zahir F, Fino C, **Narayan P**, Bryan AJ, Angelini GD, Caputo M The effect of Angiotensin- Converting Enzyme therapy on early outcomes inpatients undergoing coronary artery bypass grafting surgery. *Journal of American College of Cardiology*. 2009 53: A333
- 7    **Narayan P**, Rogers CA, Rahaman NC, Panayiotou N, Angelini GD, Ascione R The effects of on-pump beating heart coronary surgery on cerebral and renal subsystem organ function: A Prospective Randomised Controlled Trial. Presented at the 45th Annual Meeting of The Society of Thoracic Surgeons Society of Thoracic Surgeons meeting, San Francisco 24th-28th January. 2009
- 8    **Narayan P**, GJ Murphy, I Davies, GD Angelini, AJ Bryan. Multimodality Quality Improvement Programmes Lead To Increased Surgical Activity And Improved Outcomes For Patients With Aortic Dissection/aortic Diseases. *Aortic Symposium 2010*, New York April 29-30th 2010.(POD)
- 9    **Narayan P**, Wong A, Davies I, Angelini GD, Wilde P, Bryan A, Murphy G. Thoracic endovascular repair versus open surgical repair: which is the more cost-effective intervention for descending thoracic aortic pathologies? *Interactive CardioVascular and Thoracic Surgery*, Volume 11, Issue Supplement\_2, September 2010, Pages iv–xxxvi, <https://doi.org/10.1510/icvts.2010.0000S8>

- 10 **Narayan P**, Rogers CA, Bogdan C, Murphy GJ, Angelini GD, Bryan AJ . Acute Type A Aortic Dissection - Does Treatment Delay Compromise Outcome? Presented at the Annual meeting of the Society for Cardiothoracic Surgery in Great Britain and Ireland, 2011
- 11 **Narayan P**, Bandopadhyay M, Das D, Saha A, Sarkar K. Early Angiography for Management of Peri-operative Myocardial Ischaemia: An Important Tool or an Overkill? Presented at the Annual meeting of the Society for Cardiothoracic Surgery in Great Britain and Ireland, 2013
- 10 **Narayan P**, Das D, Das M, Sarkar K. On Pump Beating Heart in High risk Coronary Artery Bypass Grafting: A Superior Alternative to OPCAB? Presented at the Annual meeting of the Society for Cardiothoracic Surgery in Great Britain and Ireland, 2013
- 12 **Narayan P**, Khan MW, Das D, Chowdhury SR, Das M, Rupert E. Carotid artery screening at the time of coronary artery bypass: does it influence neurological outcomes? Interactive CardioVascular and Thoracic Surgery, Volume 19, Issue suppl\_1, October 2014, Pages S63–S64
- 13 **Narayan P**, Khan W, Thacker D, Chatterjee D, Das M. “Tricuspid Valve Repair Due To Mitral Valve Pathology - A Single Centre Experience.” Presented at the AATS Mitral Conclave; New York Hilton Midtown, April 23-24, 2015
- 13 **Narayan P**, Chowdhury SR, Das M. Development of a Felt Ring for Concomitant Tricuspid Repair- Early Experience. AATS Mitral Conclave, April 27-28, 2017
- 14 **Narayan P**, Khan W, Thacker D, Chatterjee D, Das M Mid-Term Outcome of Concomitant Tricuspid Valve Repair in Rheumatic Mitral Valve Pathology. AATS Mitral Conclave, April 27-28, 2017
- 15 Clout M, Harris T, Rogers C, Culliford L, Taylor J, Angelini G, **Narayan P**, Reeves B, Hillier J, Ashton K, Sarkar K, Ascione R. The Effects of Preoperative Volume Replacement in Diabetic Patients Undergoing Coronary Artery Bypass Grafting Surgery: Protocol for a Randomized Controlled Trial (VeRDICT Trial) JMIR Research Protocols. 2017,19; 6(6):e119

#### **ORAL PRESENTATIONS IN SCIENTIFIC MEETINGS[International only]**

- |      |  |
|------|--|
| 2003 | Early outcome of surgery of the Ascending Aorta/Arch: Is there a relationship with caseload? Presented at the European Association for Cardio-thoracic Surgery 2003 – Vienna.  |
| 2010 | Thoracic endovascular repair versus open surgical repair- which is the more cost effective intervention for descending thoracic aortic pathologies? 24th Annual Meeting European Association for Cardio-thoracic Surgery (11-15 September; Geneva) |
| 2011 | Does treatment delay affect outcome in management of type A aortic dissections? Society for Cardiothoracic Surgery In Great Britain and Ireland Annual Meeting. (March 20-22, Bournemouth United Kingdom)  |
| 2013 | Early Angiography for Management of Peri-operative Myocardial Ischaemia - An important tool or an overkill? Presented at the Society for Cardiothoracic  |

- Surgery in Great Britain and Ireland Annual Meeting. (17th – 19th March; Brighton Centre, UK)
- 2014 Carotid artery screening at the time of coronary artery bypass- does it influence neurological outcomes? Presented at the 28th Annual Meeting of European Association of Cardiothoracic Surgeons; ,11 - 15 October, Milan
- 2015 Low preoperative haematocrit- is it a risk factor for adverse outcomes after coronary artery bypass grafting? Presented at the 23rd Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery (May 11-14; Hong Kong)
- 2015 Renal Dysfunction and Hemodilution: What Is the Acceptable Hematocrit Threshold on Cardiopulmonary Bypass? Presented at the STS 51st Annual Meeting & STS/AATS TECH-CON 2015; ( 24th- 28th January San Diego)
- 2016 Pre-operative Hyperglycemia - A Risk Factor for Adverse Outcomes in Patients Undergoing Coronary Artery Surgery. Presented at the AATS 96th Annual Meeting (May 14 – 18, Baltimore)
- 2022 Temporal Trends and Outcomes of Re-operative Aortic Valve Surgery in The United Kingdom. Presented at the AATS 102nd Annual Meeting. May 14 - 17, 2022 | Boston

**POSTER PRESENTATIONS IN SCIENTIFIC MEETINGS [International only]**

- 2009 The effects of on-pump beating heart coronary surgery on cerebral and renal subsystem organ function: A Prospective Randomised Controlled Trial. Presented at the 45th Annual Meeting of The Society of Thoracic Surgeons Society of Thoracic Surgeons meeting, 24th-28th January. San Francisco
- 2010 Does TEVAR Provide a Financial Benefit for Management of Descending Thoracic Aortic Pathologies? Aortic Symposium, New York April 29-30th 2010.(POD)
- 2010 Multimodality Quality Improvement Programmes Lead To Increased Surgical Activity And Improved Outcomes For Patients With Aortic Dissection/aortic Diseases. Aortic Symposium April 29-30th 2010, New York
- 2013 On Pump Beating Heart in High risk CABG- A superior alternative to OPCAB? Presented at the Society for Cardiothoracic Surgery in Great Britain and Ireland Annual Meeting. 17th – 19th March 2013; Brighton Centre, UK
- 2015 “Tricuspid Valve Repair Due To Mitral Valve Pathology - A Single Centre Experience.” AATS Mitral Conclave; April 23-24 New York
- 2017 Development of a Felt Ring for Concomitant Tricuspid Repair- Early Experience. AATS Mitral Conclave, April 27-28, New York
- 2017 **Narayan P**, Khan MW, Thacker D, Chatterjee D, Das M. Mid-Term Outcome of Concomitant Tricuspid Valve Repair in Rheumatic Mitral Valve Pathology. AATS Mitral Conclave, April 27-28, New York

**SCIENTIFIC MEETINGS ATTENDED****Regional**

2019 Evolution of Biological Valves- Organized by Edwards Life Sciences (6<sup>th</sup> Sep JW Marriott)

2019 Endovascular repair of major aortic pathologies (29<sup>th</sup> June 2019, SSKM Hospital)

**National**

2012 58th Annual Conference of Indian Association of Cardiovascular and thoracic Surgeons 8-12th Feb, Kolkata

2013 59th Annual Conference of Indian Association of Cardiovascular and thoracic Surgeons 14-17th Feb, Mumbai

2014 60th Annual Conference of Indian Association of Cardiovascular and thoracic Surgeons 20th -23rd Feb, Trivandrum

2015 61st Annual Conference of Indian Association of Cardiovascular and thoracic Surgeons 2015 – 19th -22nd February 2015, Hyderabad

2016 International Coronary Congress 2016, New Delhi, India. November 11th-13th 2016.

2017 63rd Annual Conference of Indian Association of Cardiovascular and thoracic Surgeons IACTS, Bengaluru, 23rd - 26th February 2017

2017 Programme on Implementation of NABH Accreditation of Clinical Trial (Ethics Committees) Kolkata, 14th -15th July 2017

2017 Ethics in Human Health Research and Good Clinical Practice -In association with Forum for Ethics Review Committees in India (FERCI) 18th March , 2017

2017 Eastern India Cardiac Conclave 2017 held in Kolkata, India. 11-12 Nov 2017

2018 Accreditation Program for Clinical Trials (Ethics Committee) 19th-21st January, 2018 at Bangalore

2018 64th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons (IACTS) 1-4 February, 2018, Visakhapatnam

2019 65th Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons (IACTS) 21-24 February, 2019 Chennai

2019 Annual Meeting of Indian Society for Heart and Lung Transplantation

2019 Interactive Workshop on Good Clinical Trial Practices (GCP) in Clinical Research conducted

2020 66<sup>th</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons (IACTS) 6<sup>th</sup> -9<sup>th</sup> February, 2020 Chennai

**International**

- 2003 European Association for Cardio-thoracic Surgery; Vienna.
- 2009 Society for Cardiothoracic Surgery In Great Britain and Ireland Annual Meeting. Bournemouth, United Kingdom
- 2010 American Association for Thoracic Surgery, Aortic Symposium New York
- 2010 24th Annual Meeting European Association for Cardio-thoracic Surgery, Geneva Switzerland
- 2011 Society for Cardiothoracic Surgery In Great Britain and Ireland Annual Meeting. London, United Kingdom
- 2013 Society for Cardiothoracic Surgery in Great Britain and Ireland Annual Meeting. Brighton Centre, UK
- 2014 28th Annual Meeting of European Association of Cardiothoracic Surgeons; Milan, Italy
- 2015 23rd Annual Meeting of Asian Society for Cardiovascular and Thoracic Surgery, Hong Kong
- 2015 51st Annual Meeting OF Society of Thoracic Surgeons San Diego
- 2016 96th Annual Meeting of American Association for Thoracic Surgery Baltimore
- 2017 American Association for Thoracic Surgery, Mitral Conclave, New York
- 2017 97th American Association for Thoracic Surgery (AATS) Centennial, Boston
- 2022 AATS 102nd Annual Meeting. May 14 - 17, 2022, Boston

**Referees**

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