

# **CURRICULUM VITAE**

**Vipin Zamvar**

**MBBS, MS, DNB(CTh), FRCS (CTh)**

**Dec 2018**

### Personal Details

Name	Vipin Zamvar
Date of Birth	8 May 1965
Address for Correspondence	Available on Email Request
Current Post	Consultant Cardiothoracic Surgeon Department of Cardiothoracic Surgery Royal Infirmary of Edinburgh Edinburgh EH16 4SU
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### Higher Education

1) MBBS	Grant Medical College Bombay, 1988
2) MS	Bombay University, 1991
3) FRCS	Royal College of Physicians and Surgeons of Glasgow, 1992
4) DNB (CTh)	National Board of Examinations, New Delhi, 1994
4) FRCS (CTh)	Intercollegiate Board, Royal College of Physicians and Surgeons of Glasgow (1998)

5) FRCS (Eng)  
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Royal College of Surgeons of England  
(2012)

**Membership of Professional Societies:**

- 1) **World Society for Cardiothoracic Surgery (WSCTS)** (Chairman WSCTS 2015: 25<sup>th</sup> Anniversary Annual Meeting in Edinburgh, Sept 2015.  
**President of the WSCTS** 2015 - 2016)  
(Secretary-General, 2016 to date)
- 2) **Society of Cardiothoracic Surgeons of Great Britain and Ireland (SCTS).** (Publishing Secretary 2010 - 2017).
- 3) **Indian Association of Cardiothoracic Surgeons (IACTS).** Nominated as Honorary Fellow in 2017 in appreciation of services rendered to the field of cardiac surgery
- 4) **European Association of Cardiothoracic Surgery (EACTS)**
- 5) **International Society for Minimally Invasive Cardiac Surgery (ISMICS)**
- 6) **Society of Thoracic Surgeons (STS)**
- 7) **Scottish Cardiac Society**

**Other Appointments:**

1) **Visiting Professor** in Department of Cardiothoracic Surgery, at Kasturba Medical College, Manipal, India. (Dec 2016 to date). Adjunct Faculty.

**Work Experience**

Consultant	Cardiothoracic Surgery Royal Infirmary of Edinburgh Edinburgh May 2002 to present
Locum Consultant	Cardiothoracic Surgery University Hospital of Wales Cardiff Dec 1999 to April 2002
Specialist Registrar	Cardiothoracic Surgery University Hospital of Wales Cardiff August 1997 to December 1999
Specialist Registrar	Cardiothoracic Surgery Wythenshawe Hospital Manchester

	December 1994 to August 1997
Registrar	Cardiothoracic Surgery Southampton General Hospital Southampton July 1993 to December 1994
SHO	Cardiothoracic Surgery Southampton General Hospital Southampton February 1992 to June 1993
Registrar	General Surgery Sir JJ Hospital, Bombay February 1989 to January 1991
SHO	Urology Sir JJ Hospital, Bombay August 1988 to January 1989
SHO	General Surgery Sir JJ Hospital, Bombay Feb 1988 to July 1988

### **Consultant Post (Edinburgh)**

I have been working as a Consultant Cardiothoracic Surgeon at the Royal Infirmary of Edinburgh since May 2002.

My role includes providing a comprehensive adult cardiac and thoracic surgical service, taking part in audit, and supervision and training of junior doctors.

### **Surgical Experience and Results**

#### **Results of all Cardiac and Thoracic Surgical procedures performed since appointed as Consultant in 1999.**

**(Results updated March 2017)**

I have worked in the capacity of Consultant in Cardiothoracic Surgery in the NHS for 18 years. During this time, I have performed a wide variety of cardiac and thoracic surgical procedures, including CABG, Re-Do CABG, Aortic, and Mitral Repair and Replacement Surgery with or without concomitant CABG, Double Valve Surgery, Surgery for Aortic Dissection, and Aortic Aneurysms, Post-MI VSD Repair, ASD Closure, Transection of Aorta Repair, and Surgical TAVI.

Our unit submits surgeon-specific data to the CCAD, and the SCTS. My results have always been within the range of expected mortality.

My personal results for the years 2013-2016 are available on the internet at the healthcare commission website. (<http://heartsurgery.healthcommission.org.uk/index.aspx>)

My main areas of interests are Off-Pump CABG, Total Arterial Revascularisation, Minimally Invasive Coronary Artery Surgery, Minimally Invasive Aortic Valve Surgery, TAVI, Minimally Invasive Thoracic Surgery, and Lung Cancer Surgery.

I have participated in off-pump CABG and Minimally Invasive Surgery workshops, and have demonstrated these procedures for a surgical audience (Cardiff 2001; Bhopal 2007) I have also demonstrated off-pump and minimally invasive surgery to visiting consultant surgeons from other UK units. I continue to train and mentor surgeons from my unit as well as from other units.

### Research

The following are some of the research projects I have been involved with:

- 1) **CORONARY: CABG Off or On Pump Revascularization Study. Principal Investigator.** This is an international multicentre trial comparing off-pump versus on-pump coronary artery surgery. The primary endpoint is survival at 5 years. Funded by NIH and MRC. Recruitment completed. Follow-up Ongoing. (Initial Results published in NEJM)
- 2) **Arterial Revascularisation Trial (ART): Principal Investigator.** This is a BHF/MRC funded international, multicentre, randomised trial comparing bilateral versus single internal mammary artery grafting in coronary revascularisation. The primary endpoint is survival at 10 years. I have recruited (and operated on) 213 patients for this trial. Details of the trial and recruitment are available at [www.cteu.org/projects/ART/main.htm](http://www.cteu.org/projects/ART/main.htm).
- 3) **Neurocognitive impairment after CABG: Randomised controlled trial: (Principal Investigator)** Assessment of serum cerebral injury markers (S100b and NSE) and neurocognitive impairment in patients undergoing CABG for multi-vessel disease: comparison of off-pump and on-pump techniques.  
Funding obtained from Welsh Office for Research and Development.  
We randomized 60 patients with 3 vessel disease to off-pump or on-pump CABG surgery. Neurocognitive assessment was performed preoperatively, and at 1 week and 6 weeks after surgery. S-100b and NSE were also measured at various time frames in the perioperative period. We found significantly less neurocognitive impairment after off-pump CABG. The levels of serum cerebral injury markers were also lower in the off-pump CABG group. This study was published in the BMJ in November 2002.
- 4) **TITRE2: Randomised trial comparing two transfusion threshold in post-CABG patients. Principal investigator.**
- 5) **EMPIRE** This was a single-centre, randomized Phase III trial comparing Elafin vs placebo. Recruitment (target 80 patients) completed in Sept 2013. Published in Heart (2015). **Co-investigator.**

- 6) **EVARREST Trial: Principal Investigator**, European Coordinator. This was an Industry-sponsored Randomised Comparative Phase III Study evaluating the safety and effectiveness of EVARREST Fibrin sealant patch as an adjunct to hemostasis during cardiovascular surgery.
- 7) **Mini-Mitral Trial: Principal Investigator**. This is a randomized trial comparing two surgical approaches (conventional sternotomy versus mini-thoracotomy) for mitral valve repair. Funded by NIHR.
- 8) **VIOLET Trial: Principal Investigator** This is a randomized trial comparing thoracotomy versus VATS approach for lobectomy for lung cancer.

#### **Miscellaneous Academic Roles:**

- 1) Member of the Guideline Writing Group: SIGN Guideline : “Management of Stable Angina”. Published by the Scottish Inter-Collegiate Guidelines Network, March 2018
- 1) REQUEST Registry: Independent Assessor for adjudication of Serious Adverse Events (2018).
- 2) PROMPT2 Study: Member of the Trial Steering Committee. (2018)
- 3) Member of Data Safety Monitoring Board for RCT comparing a new haemostat versus Floseal. (2015-16)
- 4) Member of Biomedcentral Editorial Advisory Group (2011 to 2013)

#### **Supervision of Medical Students (SSC4 projects)**

I have supervised 4<sup>th</sup> year medical students for the following SSC4 projects:

- a) “Comparison of the use of blood products in patients undergoing off-pump versus on-pump coronary artery bypass surgery”. 2006
- b) “Assessment of QOL in patients who have undergone coronary artery surgery: Assessment of the impact of using the Radial artery” 2007 (Published)
- c) “Medium to Long term follow-up of patients who have undergone CABG Surgery: Comparison of the off-pump vs on-pump approach” 2008
- d) “Long term follow-up of QOL and clinical outcomes of patients who have undergone Aortic valve Replacement. Comparison of biological versus mechanical prosthesis”. 2009
- e) “Assessment of EuroSCORE in patients undergoing Aortic Valve Replacement” (2010) (Published)
- f) “In-hospital outcomes in patients undergoing CABG Surgery: Comparison of off-pump vs On-Pump surgery. A study of 4000 patients over a period of 8 years” (2012)
- g) “In-hospital outcomes in patients undergoing CABG Surgery: Comparison of Double vs Single Mammary Artery. A study of 4000 patients over a period of 8 years” (2012)
- h) “Value of VATS Lung Biopsy in patients with Interstitial Lung Disease” (2013) (Published)
- i) “Outcomes in patients undergoing MIDCAB” (2013)
- j) “Role of Pre-op CT Scan in assessing pericardial adhesions in patients undergoing Re-Do Cardiac Surgery” (2014) (Published)

**Supervision of School Students (S4 and S5) :** Over the last 8 years, I have supervised dozens of school students, who have attended our department, as part of Work Experience. These students wish

to study Medicine, and use the time in our department to get a feel of Medicine. Many of the students have gone on to be selected for Medical studies at University.

### **Books and Book Chapters**

1) Book: Cardiology in a Heart Beat: (2015) A Vaswani, HJ Khaw, S Dougherty, V Zamvar, CC Lang. Published by Scion Publishing. This is a textbook for Undergraduate students, and is on the preferred reading list for Medical Students of Edinburgh University. It is available for sale on Amazon, and all major medical booksellers in the UK.

2) Book Chapters:

Panvascular Medicine (2<sup>nd</sup> Edition) Published 2014. Section Editor : Coronary Artery Disease: Surgical Management.

Author of following book chapters

- 1) Anatomy of Coronary Arteries: M Yates, V Zamvar
- 2) Indications of Coronary Artery Bypass Surgery : K Shaikhrezai, M Khorsandi, V Zamvar
- 3) Conduits used in Coronary Artery Surgery : J Smelt, V Zamvar
- 4) Operative Techniques: Coronary Artery Bypass Graft Surgery : S Papaspyros, V Zamvar
- 5) Complications of Coronary Artery Bypass Grafting Surgery : M Khorsandi, K Shaikhrezai, V Zamvar

3) Section Editor for “Technical Aspects of CABG” section in “Textbook of CABG Surgery”. Being prepared for publication in 2019.

### **Lectures**

I have delivered a number of lectures on cardiothoracic surgical topics, at National and International meetings, over the last 10 years.

This is a partial list.

- 1) “Zamvar Pericardial Stitch” Athens Crossroads Cardiothoracic Surgery Meeting. Athens, November 2018.
- 2) “Stabilisation and Positioning of the Heart during Off-Pump CABG Surgery” Second Edition of Masterclass in OPCAB Surgery, Oxford, UK. (June 2018).
- 3) “VATS Lobectomy in the UK” Russian Association of Cardiothoracic Surgeons Meeting, St Petersburg, Russia. (June 2018).
- 4) Operative Tips and Tricks: Off-Pump CABG Set-Up and Grafting. Society for Cardiothoracic Surgery in Great Britain and Ireland, Annual Meeting, Glasgow. 18 March 2018)
- 5) YOLO: You Only Live Once. (Lecture delivered to Medical Undergraduate students in Manipal. On the occasion of the International Quiz for Medical Undergraduates 2018) (7 March 2018)
- 6) VATS Lobectomy: Department of Cardiothoracic Surgery, Kasturba Medical College, Manipal (8 March 2018)

- 7) Off-Pump CABG: An Overview. Department of Cardiothoracic Surgery, Kasturba Medical College, Manipal (8 March 2018)
- 8) Technical Tips for VATS Lobectomy: Indian Association of Cardiovascular and Thoracic Surgeons Conference, Visakhapatnam, February 2018
- 9) Technical Tips for Off-Pump CABG: Indian Association of Cardiovascular and Thoracic Surgeons Conference, Visakhapatnam, February 2018
- 10) WSCTS Eponymous Lecture: The Zamvar Pericardial Fold (World Society of Cardiothoracic Surgeons, Astana, Kazakhstan, September 2017)
- 11) Technical Tips in Off-Pump CABG: WSCTS Meeting Astana, Kazakhstan, Sept 2017
- 12) Technical manoeuvres to facilitate Off-Pump CABG: International Coronary Congress, New York, August 2017
- 13) Surgical treatment in Acute MI (Indian Association of CVT Surgeons, Bangalore, India Feb 2017)
- 14) Extending the use of Bilateral Internal Mammary Arteries (Indian Association of CVT Surgeons, Bangalore, India Feb 2017)
- 15) An Update on Chest Wall Reconstruction (Indian Association of CVT Surgeons, Bangalore, India Feb 2017)
- 16) Increasing application of Bilateral Internal Mammary Arteries (Society of Cardiothoracic Surgeons, Belfast, March 2017)
- 17) Deterrents to BIMA Grafting and how to address them: Nov 2016: International Coronary Congress, New Delhi.
- 18) Surgery for N2 Disease: Lung Cancer. SCAN Meeting, Edinburgh. October 2016.
- 19) Presidential Address: World Society of Cardiothoracic Surgeons, Cape Town, South Africa, Sept 2016
- 20) Improving Quality in Cardiac Surgery: A case for Arterial Revascularisation, Cape Town, South Africa, Sept 2016
- 21) Arterial Revascularisation in CABG Surgery: The view from Scotland. SCTS Meeting, Birmingham March 2016
- 22) CABG Surgery: The case for arterial revascularization. IACTS Meeting, Lucknow, India. Feb 2016
- 23) Quality Improvement in CABG Surgery: The use of arterial revascularization. WSCTS Meeting, Edinburgh. September 2015.
- 24) Technical Tips for Off-Pump Coronary Artery Surgery. WSCTS Meeting, Geneva, September 2014.
- 25) Use of Transit Time Flow measurement in Coronary Artery Surgery. SCTS Meeting, Manchester, March 2014

### Publications

<https://www.ncbi.nlm.nih.gov/pubmed/?term=zamvar>

- 1) Incidence and Clinical Implications of Intraoperative bilateral internal thoracic graft conversion: Insights from the Arterial Revascularisation Trial. Benedetto U, Altman DG, Flather M, ..... Arterial Revascularization Trial Investigators. J Thorac Cardiovasc Surg 2018; 155(6):2346-55
- 2) Safety of Perioperative Aprotinin Administration During Coronary Artery Bypass Graft Surgery: Insights from the ART (Arterial Revascularization Trial) Benedetto U, Altmann DG, Gerry S, ....., Arterial Revascularization Trial Investigators. J Am Heart Assoc. 2018 Mar 3;7(5).
- 3) Myocardial Inflammation, injury and infarction during on-pump coronary artery bypass graft surgery. Alam SR, Stirrat C, Spath N, **Zamvar V**, Pessotto R, Dweck M, ....., Henriksen PA. Journal of



Cardiothoracic Surgery 2017; 12: 115

- 4) The Zamvar Pericardial Fold. **Zamvar V**. Journal of Cardiothoracic Surgery 2017; 12(1):84
- 5) Extra-Corporeal Membrane Oxygenation for Refractory Cardiogenic Shock after Adult Cardiac Surgery: A systematic Review and Meta-Analysis” Khorsandi M, Dougherty S, Bouamra O, ....., **Zamvar V**. Journal of Cardiothoracic Surgery 2017;12(1):55
- 6) Sudden Death in a Diver: A Diagnostic Conundrum” Dougherty S, Khorsandi M, Adelbai M, **Zamvar V**, Francis M. Wilderness and Environmental Medicine 2017;28(3):225-9
- 7) Randomized Trial for Bilateral versus Single Internal Thoracic Artery Grafts. Taggart DP, Altman DG, Gray AM, ....., **ART Investigators**. N Engl J Med 2016;375(26): 2540-9.
- 8) Extracorporeal Life Support for Refractory Cardiac Arrest from Accidental Hypothermia: A 10-year Experience in Edinburgh. Khorsandi M, Dougherty S, ....., **Zamvar V**. J Emerg Med. 2016;52(2):160-8
- 9) Five-Year Outcomes after Off-Pump or On-Pump Coronary Artery Bypass Grafting. Lamy A, Lanas Z, ....., **CORONARY Investigators**. N Engl J Med. 2016 Dec 15; 375(24);2359-2368.
- 10) A 20-year multicenter outcome analysis of salvage mechanical circulatory support for refractory cardiogenic shock after cardiac surgery. Khorsandi M, Dougherty S, Sinclair A, **Zamvar V**, ... J Cardiothorac Surg, 2016; 11 (1): 151.
- 11) Are lower levels of red blood cell transfusion more cost-effective than liberal levels after cardiac surgery? Findings from the TITRE2 randomised controlled trial. Stokes EA, Wordsworth S, et al; **TITRE2 Investigators**. BMJ Open 2016 Aug 1; 6(8) e011311.
- 12) Advanced mechanical circulatory support for post-cardiotomy cardiogenic shock: a 20-year outcome analysis in a non-transplant unit. Khorsandi M, Shaikhrezai K, Prasad S, Pessotto R, Walker W, Berg G, **Zamvar V**. J Cardiothorac Surg 2016 Feb 18; 11(2) : 29
- 13) ISMICS Consensus Conference and Statements of Randomized Controlled Trials Off-Pump Versus Conventional Coronary Artery Bypass Surgery. Puskas JD, Martin J, ....., **Zamvar V**. Innovations 2015; Jul-Aug;10(4): 219-29.
- 14) Perioperative elafin for ischaemia-reperfusion injury during coronary artery bypass graft surgery: a randomized-controlled trial. Alam SR, Lewis SC, **Zamvar V**, ....., Henriksen PA. Heart 2015;101(20):1639-45.
- 15) Liberal or restrictive transfusion after cardiac surgery. Murphy GJ, Pike K, Roger CA, **Titre2 Investigators**. N Engl J Med 2015; 372(11) 997-1008.
- 16) How to make an aortic root simulator at home. Shaikhrezai K, Khorsandi M, Brackenbury ET, Prasad S, **Zamvar V**, Butler J, Berg G. J Cardiothorac Surg 2015; 10:18.
- 17) The Utility of Additive EuroSCORE, RIFLE and AKIN Staging scores in the prediction and Diagnosis of Acute Kidney Injury after Cardiac Surgery. Duthie FA, McGeehan P, Hill S, Phelps R, Kluth DC, **Zamvar V**, Hughes J, Ferenback DA. Nephron Clin Pract 2014; 128(1-2): 29-38.
- 18) Left Ventricular Hypertrophy with strain and aortic stenosis. Shah AS, Chin CW, Vassiliou V, Cowell SJ, Doris M, Kwok TC, Semple S, **Zamvar V**, White AC, McKillop G, Boon NA, Prasad SK, Mills NL, Newby DE, Dweck MR. Circulation 2014; 130(18):1607-16.

- 19) Coronary Artery Bypass Grafting in high-Risk patients randomized to off- or on-Pump surgery: a randomized controlled trial (the CRISP trial). Rogers CA, Pike K, Campbell H, Reeves BC, Angelini GD, Gray A, Altman DG, Miller H, **CRISP Investigators**. *Health Technol Assess* 2014; 18(44): 1-157.
- 20) Kidney Function after off-pump or on-pump coronary artery bypass graft surgery: a randomized clinical trial. Garg AX, Devereaux PJ, Yusuf S, ...Lamy A, **CORONARY Investigators**. *JAMA* 2014;311(21):2191-8.
- 21) The efficacy of video-assisted thoracoscopic surgery lung biopsies in patients with Interstitial Lung Disease: a retrospective study of 66 patients. Morris D, **Zamvar V**. *J Cardiothorac Surg* 2014;9:45.
- 22) Transcatheter Aortic Valve Implantation: from fantasy to reality. Shaikhrezai K, McWilliams B, Brackenbury ET, Prasad S, Yan TD, Pessotto R, **Zamvar V**, Berg G. *J Cardiothoracic Surg* 2014;9:43.
- 23) Forced Expiratory Volume in One Second predicts length of stay and in-hospital mortality in patients undergoing cardiac surgery: A Retrospective cohort study. *PLOS ONE*. 2013 May 28;8(5):e64565
- 24) Effects of off-pump and on-pump coronary artery bypass grafting at 1 year. *N Engl J Med* 2013; 368(13):1179-88. Lamy A, Devereaux PJ, et al, **CORONARY Investigators**
- 25) Middle Lobe syndrome associated with major haemoptysis. Shaikhrezai K, Khorsandi M, **Zamvar V**. *J Cardiothorac Surg* 2013, Apr15; 8(1) 84.
- 26) “Radial Artery versus Saphenous Vein as conduits in coronary artery surgery: Comparison of intermediate to long-term outcomes” Rajdeep Bilkhu, Anne Ewing, **Vipin Zamvar**. *Physician Nov* 2012; Vol11; Issue 1.
- 27) Off-pump or On-pump coronary artery bypass grafting at 30 days. *N Engl J Med* 2012;366:1489-97 Lamy A et al, **CORONARY Investigators**.
- 28) Perioperative and long-term outcomes following aortic valve replacement: a population cohort study of 4124 consecutive patients. McLean RC, et al. *Eur J Cardiothorac Surg* 2011;40: 1508-14.
- 29) Hazards of tube thoracostomy in patients on a ventilator. Shaikhrezai, K, **Zamvar V**. *J Cardiothorac Surg* 2011;6:39
- 30) Assessment of EuroSCORE in patients undergoing Aortic Valve Replacement. Skipper NC, Matingal J, Zamvar V. *J Card Surg* 2011;26(2): 124-9.
- 31) Randomised trial to compare bilateral vs single internal mammary coronary artery bypass grafting: 1 year results of the Arterial Revascularisation Trial (ART) Taggart DP et al, ART Investigators. *Eur Heart J* 2010;20:2470-81
- 32) Extraskelatal Ewing’s Sarcoma presenting as mediastinal mass. Halliday J, Soon SY, Monaghan H, Walker W, Zamvar V. *Ann Thorac Surg* 2010; 90(3):1016-7.
- 33) They also serve who only stand and wait. Zamvar V. *J Thorac Cardiovasc Surg*. 2010;139:798-9.
- 34) Editorial: Social deprivation and poor prognosis after cardiac surgery. Denvir MA, Zamvar V. *BMJ* 2009;338:721-2.

- 35) Platypnoea-orthodeoxia syndrome: A rare complication following right pneumonectomy. K Bhattacharya, R Birla, D Northridge, V Zamvar. *Annals of Thoracic Surgery* 2009;88:2018-9.
- 36) Mechanical prosthetic valve dysfunction causing pulsus alternans leading to intermittent electromechanical dissociation: a case report and literature review. V Kaur, MN Robertson, V **Zamvar**. *Journal of Cardiac Surgery* 2007;22(6):528-32.
- 37) Welcome to *Journal of Cardiothoracic Surgery*. V **Zamvar**, D Taggart. *Journal of Cardiothoracic Surgery* 2006;1:1.
- 38) Off-Pump versus Conventional Coronary Artery Bypass Grafting: A Meta-Analysis and Consensus statement from the 2004 ISMICS Consensus. John Puskas, Davy Cheng, .....V **Zamvar**. *Innovations* 2005;1:1-27.
- 39) Management of blunt thoracic aortic injury. O Nzewi, R Slight, V **Zamvar**. *Eur J Endovasc Surg* 2005; 1: 18-27.
- 40) “Off-pump” repair of a postangioplasty coronary artery bleed. L Devey, T Shaw, V **Zamvar**. *J Card Surg* 2005;20(3): 281-3.
- 41) Editorial: Reporting Systems for Cardiac Surgery. V **Zamvar**. *BMJ*. 2004 Aug 21;329(7463):413-4.
- 42) Editorial: Patency in Off-Pump Coronary Artery Bypass Graft Surgery. V **Zamvar**. *Heart Surgery Forum* 2004;7(3):214-5.
- 43) No time to train the surgeons: Choosing trainees carefully may be the solution. (Letter) V **Zamvar**. *BMJ* 2004;328(7448):1134-5.
- 44) Recommendations for the proper placement of the deep pericardial retraction suture in off-pump coronary artery surgery. V **Zamvar**. *Annals of Thoracic Surgery*. *Ann Thorac Surg*. 2004 Sep;78(3):1130-1.
- 45) Off-pump Coronary Artery Bypass (OPCAB) surgery reduces morbidity and risk-stratified mortality. Local and national comparisons: Initial UK multi-centre analysis of early clinical outcomes. S Al-Ruzzeh, G Asimakopoulus, ..... V **Zamvar**,..... et al. *Circulation* 2003;108 Suppl 1:II 1-8.
- 46) The Left Anterior Descending Artery is the best recipient. V **Zamvar**, R Sivaprakasam. *J Thorac Cardiovasc Surg* 2003;126(3):923.
- 47) Validation of four different risk stratification systems in patients undergoing Off-Pump Coronary Bypass Surgery (OPCAB): A UK multi-centre analysis of 2,223 patients. S Al-Ruzzeh, G Asimakopoulus, .....V **Zamvar**, .....et al. *Heart* 2003; 89(4): 432-5
- 48) Neurocognitive Impairment after Cardiac Surgery. V **Zamvar**. *Biomedicine and Pharmacotherapy* 2003;57(3): 452.
- 49) Proximal Coronary Stenoses following antegrade cardioplegia administration via the coronary ostia. (Follow On Comment). V **Zamvar**, A Madhavan, ENP Kulatilake. *European Journal of Cardiothoracic Surgery*. 2003; Vol 23
- 50) Neurocognitive outcome in Coronary Artery Bypass Graft Surgery: Comparison of the off-pump and the on-pump techniques: A prospective randomized study. V **Zamvar**, J Hall, D Williams, C Cann, K Young, N Payne, S Karthikeyan, J Dunne. *BMJ* 2002; Vol 325(7375): 1268 - 71.

- 51) Clinical Outcomes after Coronary Artery Bypass Graft Surgery: Comparison of Off-Pump and On-Pump Techniques.  
**V Zamvar**, A Madhavan, ENP Kulatilake, EG Butchart. Heart Surgery Forum 2002; Vol 5(2): 109-13.
- 52) Blood Use in Cardiac Surgery.  
**V Zamvar**, N Payne. BMJ 2002; 325(7365): 655.
- 53) Traumatic Aortic Transection: Images in Vascular Medicine.  
**V Zamvar**, L Devey. Vascular Medicine 2002; Volume 7(3): 247-8.
- 54) Pulmonary Blastoma: Medium Term Results from a Regional Centre.  
A Zaidi, **V Zamvar**, A Gibbs, F Macbeth, ENP Kulatilake, EG Butchart Annals of Thoracic Surgery, 2002; Vol 73(5): 1572-5.
- 55) Iatrogenic Candidal Infection of a Mediastinal Foregut Cyst following EUS-FNA.  
A Ryan, **V Zamvar**, S Roberts. Endoscopy 2002; Vol 34(10): 838-41.
- 56) Coronary Sinus Injury after Internal Cardiac Massage.  
**V Zamvar**, A Zaidi, A Madhavan. The Internet Journal of Thoracic and Cardiovascular Surgery. 2002; Vol 5(1).
- 57) Proximal Coronary Stenoses following antegrade cardioplegia administration via the coronary ostia.  
**V Zamvar**, A Madhavan, ENP Kulatilake. European Journal of Cardiothoracic Surgery. 2002; Vol 22(1): 143.
- 58) Neurocognitive impairment after Aortic Valve Replacement.  
**V Zamvar**, B Falase, S Webster. European Journal of Cardiothoracic Surgery 2001; Vol 20(4): 889-90.
- 59) Juxtacardiac Costal Osteochondroma presenting as a haemothorax.  
K Buchan, **V Zamvar**, KM Mandana, ENP Kulatilake. European Journal of Cardiothoracic Surgery 2001; Vol 20(1): 208-10.
- 60) Bleeding from the Lung Surface: A unique complication of off-pump CABG.  
**V Zamvar**, I Deglurkar, F Abdullah, NU Khan. The Heart Surgery Forum 2001; Vol 4(2): 172-3.
- 61) Techniques for finding the Intramyocardial Left Anterior Descending Coronary Artery.  
**V Zamvar**, RAM Lawson. Annals of Thoracic Surgery 1995; Vol 60(5): 1457.
- 62) Techniques for finding the Intramyocardial Left Anterior Descending Coronary Artery. (Follow On Comment)  
**V Zamvar**, RAM Lawson. Annals of Thoracic Surgery 1996; Vol 62.
- 63) Use of Large Sized Aortic Homograft Conduits in Right Ventricular Outflow Tract Reconstruction.  
M Tolan, **V Zamvar**, JL Monroe, et al. Journal of Heart Valve Disease. 1995; Vol 4(6): 660.

#### **Editorial Activities**

- 1) Editor-in-Chief “**Journal of Cardiothoracic Surgery**” (since 2006). This is a peer-reviewed, international cardiothoracic journal, published by Springer. Articles published in this journal are archived in Medline, PubMed and other major databases. (2017 Data: 2 year Impact Factor 1.11; 5 year Impact Factor 1.24; SNIP 0.76; SCImago Journal Rank 0.49)

- 2) Member of the Editorial Board “**Heart Surgery Forum**”. This is a peer reviewed, cardiac surgical journal, indexed in PubMed. ([www.hsforum.com](http://www.hsforum.com))
- 3) Guest Editor of “Physician” Nov 2014, June 2015.

I have reviewed articles for the following journals:

- 1) American Journal of Medicine
- 2) Annals of Thoracic Surgery
- 3) BMC Cardiovascular Disorders
- 4) BMJ
- 5) European Journal of Cardiothoracic Surgery
- 6) Heart
- 7) Heart Surgery Forum
- 8) Journal of Cardiothoracic Surgery

I have reviewed project grant applications for “Chest, Heart and Stroke”.

- 1) I was a member of the Off-Pump CABG Expert Group, sponsored by the ISMICS (International Society of Minimally Invasive Cardiac Surgery). We performed a meta-analysis of 37 randomised controlled trials comparing off-pump and on-pump coronary artery bypass graft surgery, and based on this formulated a consensus statement on off-pump CABG. This consensus statement was published in the inaugural issue of “Innovations” in 2005.  
A second meta-analysis was performed in May 2013, and published in Innovations in 2014.
- 2) Member of programme committee for the ISMICS meeting, New York, 2005; and Boston 2014, Berlin 2015.
- 3) Member of Organising Committee SCTS Annual Meetings (2010 to 2016).
- 4) Member of the Programme Committee of the WSCTS Annual Meetings (Split 2013, Geneva 2014, Cape Town 2016, Astana 2017)
- 5) Chairman of the 25<sup>th</sup> Annual Meeting of the World Society of Cardiothoracic Surgeons, Edinburgh, September 2015.

### **Medicolegal Work**

I have been providing medico-legal reports for the courts, procurator fiscal’s office, and solicitors since 2004.

Percent for Claimant, Defendant, and Joint: (approximately) 70%, 25%, and 5%.

Reports produced: 100+

Court appearances: 3

### **Awards**

- 1) National Talent Search (NTS) Scholarship awarded by the National Council for Education Research and Training (NCERT), Govt. of India 1982
- 2) Honorary Fellowship awarded by the Indian Association of Cardiothoracic Surgeons (IACTS) for services rendered to the speciality of Cardiac Surgery 2017
- 3) Award for Surgical Innovation, Awarded by the British Association of Physicians of Indian Origin (BAPIO), 2017

### **Other interests**

I play chess, and my current FIDE rating is just over 1600.

I am ambassador for “Marketing Edinburgh”. I bid for the WSCTS to come to Edinburgh in 2012, and successfully organized the 25<sup>th</sup> Anniversary Congress of the WSCTS in Edinburgh in 2015. The Congress attracted more than 700 delegates from 64 countries. The economic impact of the Conference for the City of Edinburgh has been estimated at £1.1 million.