

Ramesh Singh, M.D.

Education

Royal College of Surgeons of Ireland
Dublin, Ireland
MB, BCh, BaO, LRCP & LRCSI (Hons) August 1994 – May 2000

Residency

James Connolly Memorial Hospital
Dublin, Ireland
Internship (Surgery/Medicine) July 2000 – June 2001

Beaumont Hospital
Dublin, Ireland
Dublin Surgical Training Program
(Membership to the Royal College of Surgeons) July 2001 – June 2003

University of Virginia
Charlottesville, VA
General Surgery Residency and Chief Residency July 2003 – June 2008

Fellowship

University of Colorado Health Sciences Center
Aurora, CO
Cardiothoracic Surgery Residency July 2008 – June 2011

Academic Appointments

Assistant Professor of Surgery
Division of Thoracic and Cardiovascular Surgery
University of Louisville
Louisville, KY July 2011 – Jan 2014

Other Positions/Employment

Cardiac Surgeon January 2014-present

Cardiac, Vascular & Thoracic Surgery Associates, P.C.
2921 Telestar Court, Suite 140
Falls Church, VA 22042

Cardiac Surgeon
University Cardiothoracic Surgical Associates
201 Abraham Flexner Way
Suite 1200
Louisville, KY

July 2011 –Jan 2014

Associate Director
Heart Transplant Program
Jewish Hospital/University of Louisville
Louisville, KY

July 2011 – Jan 2014

Assistant Program Director
Residency Program
Division of Thoracic and Cardiovascular Surgery
University of Louisville
Louisville, KY

July 2011 –Jan 2014

Board Certification/Licensure

Examinations

USMLE Step 3	June 2005
USMLE CSA (Clinical Skills Examination)	January 2003
USMLE Step 2 CK (Clinical Knowledge)	September 2002
USMLE Step 1	March 2002
ECFMG – TOEFL	October 2002
American Board of Thoracic Surgery Cert# 7893	2012
American Board of Surgery, Cert #54415	May 2009
Kentucky Medical License #44294	2010
Indiana Medical License #01069260A	2010
Colorado Medical License #47432	2009

Honors and Awards

<i>AATS Leadership Academy</i>	2012
<i>James Ernest Kindred Award</i> <i>University of Virginia School of Medicine</i> <i>(Resident who has most influenced the graduating</i> <i>Medical school class)</i>	2009 & 2010
American College of Surgeons National Resident Award for Exemplary Teaching	2008

All University Teach Award University of Virginia	2008
Arnold P. Gold Foundation Humanism and Excellence in Teaching Award Alpha Omega Alpha Resident Inductee	2007 & 2008
Resident Teaching Award University of Virginia Medical School	2007
Arnold P. Gold Foundation Humanism and Excellence in Teaching Award	2007
University of Virginia Surgery Residents' Day Abstract Competition Award (2 nd Place)	2005
Intern of the Year Award and Medal James Connolly Memorial Hospital Dublin, Ireland	2001

Committee Assignments and Administrative Services

Co-Director, Blood Conservation Committee Kentucky One Health	2012 – Present
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Pulse of Surgery	2011 – Present
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Mentor

Heather Moody, APRN	2012 - Present
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Professional Memberships

The Society of Thoracic Surgeons	2014 - present
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American College of Surgeons, Fellow	2013 - present
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American Red Cross Medical Advisory Committee	2013 – Present
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American Heart Association (AHA) Cardiovascular Surgery and Anesthesia Council	2012 – Present
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American Society for Artificial Internal Organs (ASAIO) Planning Committee	2012 - Present
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The Society of Thoracic Surgeons	2010 - Present
Cardiac and Vascular Quality and Patient Safety Council	2010 – 2011
Joint Council for Thoracic Surgery Education (JCTSE) University of Colorado Health Sciences Center	2010 – 2011
Executive Committee Member of the North American Thoracic Surgery Residents' Association	2009 – 2011
Information Technology Committee James Connolly Memorial Hospital, Dublin, Ireland	2002
Colorectal Cancer Database Creator and Administrator Division of Colorectal Surgery Beaumont Hospital, Dublin, Ireland	2001 - 2002
Annual Research Day Technical Supervisor The Royal College of Surgeons in Ireland	1999
Medical School Students' Union Vice President (elected) The Royal College of Surgeons in Ireland	1998 – 1999

Abstracts and Presentations

Oral Presentations – National/International Meetings

1. **Singh R**, Farrar D. Marriage Between the Medical Community & Industry.
Moderator: Cardiac Abstract Session, ASAIO 59th Annual Conference, June 2013
2. Combs PS, Sobieski ME, Trivedi JR, Creamer EF, McCants KC, Birks EJ, **Singh R**, Slaughter MS. Educational Level and Insurance Do Not Impact Mid-term Survival After Left Ventricular Assist Device Omplantation. 33rd International Society of Heart and Lung Transplantation Annual Meeting, Montreal CAN, April 24-27, 2013. (Abstract accepted January, 2013) (Oral)
3. “Preoperative Anemia and Low Body Mass Index but Not Female Gender as Risk Factors for Increased Transfusion Following Isolated Coronary Artery Bypass Grafting.” Keeling WB, Trivedi J, Williamitis C, **Singh R**, Slaughter MS, Williams, ML. Preoperative Anemia and Low Body Mass Index but Not Female Gender as Risk Factors for Increased Transfusion Following Isolated Coronary Artery Bypass Grafting. AHA Scientific Sessions, Los Angeles, CA, November 3-7, 2012.
4. “Pre-emptive Stenting of the Distal Aortic Arch and Proximal Descending Thoracic Aorta in Type A Dissection.” Bell MT, **Singh R**, Gupta R, Jazaeri O, Rochon P, Reece TB. Presentation on Demand System, AATS Aortic Symposium, New York, NY, April 2012.
5. “Creating a Platform for Endovascular Exclusion of the Distal Arch In Type A Dissection.” Bell MT, Gupta R, Jazaeri O, **Singh R**, Reece TB. Presentation on Demand System, AATS Aortic Symposium, New York, NY, April 2012.

6. "Endovascular Management of a Complicated Type B Aortic Dissection." **Singh RR**, Fullerton DA, Gupta R, Nehler M, Reece TB, Presentation On Demand System, AATS Aortic Symposium, New York, NY, April, 2010.
7. "Simultaneous Hybrid Repair of Blunt Ascending and Descending Aortic Injuries." Babu A, Gupta R, **Singh RR**, Reece TB, Presentation On Demand System, AATS Aortic Symposium, New York, NY, April, 2010.
8. "Early repair of atrioventricular canal defect is safe and effective." **Singh RR**, Southern Thoracic Surgical Association; Orlando, FL, November, 2005.
9. "Lung reperfusion injury can be modified by ventilation and perfusion techniques." **Singh RR**, Southern Thoracic Surgical Association; Orlando, FL, November, 2005.
10. "Current diagnosis and management of blunt internal carotid artery injury." **Singh RR**, Trauma Conference; Dublin, Ireland, February, 2002.
11. "Management options of venous thromboembolism." **Singh RR**, Surgical Research Symposium; Dublin, Ireland, October 2001.
12. "Neuronal ectopia in temporal lobe epilepsy." **Singh RR**, The Royal College of Surgeons in Ireland Research Day; Dublin, Ireland, March, 1998.

Oral Presentations – Local/Regional Meetings

1. Does Left Ventricular Assist Device Support Improve Survival on the Heart Transplant Waiting List? STSA 60th Annual Meeting, October 2013.
2. "Ventricular Assist Devices for the General Surgeon." University of Louisville, Department of Surgery, Grand Rounds, Louisville, KY, March 22, 2013.
3. "Utility of Spinal Drawn Thoracic Stent Graft Lines." CVIC Nurses, Jewish Hospital, Louisville, KY, November 20, 2012.
4. "ICU Care for the Post Cardiectomy Patient." CVICU Nurses, University of Louisville Hospital, Louisville, KY, October 2012.
5. "Ventricular Assist Devices." Jewish Hospital Cath Lab Symposium, Louisville, KY, September 29, 2012.
6. "Postoperative Management of Left Ventricular Assist Devices (LVADs)." Jewish Hospital VAD Super User Course, Louisville, KY October 3, 2012.
7. "Management of Post Cardiectomy Patients." Cardiology Fellows and Internal Medicine Residents, University of Louisville, Louisville, KY, December 8, 2011.

8. "Spinal Cord Protection in Aortic Surgery." Department of Surgery Grand Rounds, Louisville, KY, November 4, 2011.
9. "Post-Operative Care of the Cardiac Surgery Patient." In-Service, University of Louisville Hospital OR Staff, Louisville, KY, September 26, 2011.
10. Elective hypothermic circulatory arrest does not adversely affect outcomes in elderly patients, **Singh RR**, Virginia Surgical Society; Williamsburg, Virginia, April 2006.

Poster Presentations – National/International Meetings

1. Pagni S, Trivedi JR, Ganzel BL, Slater AD, Keeling WB, **Singh R**, Slaughter MS, Williams ML. Acute Type A Aortic Dissection Repair Surgery: Are the Outcomes in the Modern Era Really Improving? Aortic Symposium 2012, New York, NY, April 26-27, 2012.

Poster Presentations – Local/Regional Meetings

1. "The Risk of Aortic Valve Surgery in the Octogenerian" **Singh RR**, Reece TB, Kern JA, Kron IL, Poster Session, University of Virginia Research Day; Charlottesville, Virginia, April 2008.

Publications

Book Chapters

1. Babu A, **Singh R**. TSRA Review of Cardiothoracic Surgery (2011). C. Merry, J Turek (Eds), *Cardiac Anatomy, Adult Cardiac Surgery*, C 37, (pp. 120-123), Chicago, IL.
2. **Singh R**, Babu A. TSRA Review of Cardiothoracic Surgery (2011). C. Merry, J Turek (Eds), *Cardiopulmonary Bypass, Section II Adult Cardiac Surgery*, C 38, (pp. 124-127), Chicago, IL.
3. **Singh R**, Babu A. TSRA Review of Cardiothoracic Surgery (2011). C. Merry, J Turek (Eds), *Postoperative care and perioperative complications, Section IV Cardiothoracic Trauma and Critical Care*, C 82, (pp. 266-270), Chicago, IL.
4. Minerva Cardioangiol, Surgical treatment of the failing heart, **Singh RR**, Lisle TC, Kron IL, 2005 Aug;53(4):287-97
5. Kron IL, **Singh RR**, Bergin JD, Peeler BB. (2008). Strategies in Surgical Management. In J. Raman (Ed.), *Management of Heart Failure Volume 2* (pp. 23-39). New York: Springer-Verlag.

Articles Published in Peer Reviewed Journals

1. Pagni S, Ganzel BL, Trivedi JR, **Singh R**, Mascio CE, Austin EH, Slaughter MS, Williams ML. Early and Midterm Outcomes Following Surgery for Acute Type A Aortic Dissection. *Journal of Cardiac Surgery* 2013 August 2. (PMID 23909254)
2. Pagni S, Ganzel BL, **Singh R**, Austin EH, Mascio CE, Williams ML, Akella PV, Trivedi JR. Clinical Outcomes after Triple Valve Surgery in the Modern Era: Are Elderly Patients at Increased Surgical Risk? *Annals of Thoracic Surgery*, July 2013.
- 3.
4. Slaughter M, **Singh R**. The Role of Ventricular Assist Devices in Advanced Heart Failure. *Rev Esp Cardiol (Engl Ed)*. 2012 Nov;65(11):982-5. (PMID 23026124)
5. Pagni S, Ganzel BL, Trivedi JR, **Singh R**, Keeling WB, Mascio CE, Austin EH, Slaughter MS, Williams ML. Surgery for Acute Type A Dissection: The Early Mortality Risk Happens in the Hospital. *Ann of Thorac Surg* (Submitted September 2012).
6. Sarkaria I, Carr S, MacIver R, Whitson B, Joyce D, Stulak J, Mery C, Guitron J, **Singh RR**, Mettler B, Turek J. The 2010 Thoracic Surgery Residents Association Workforce Surgery Report: A View From the Trenches. *Annals of Thoracic Surgery* 2011; 92:2062-2071
7. Puskas F, Cleveland JC, **Singh R**, Weitzel NS, Reece TB, Shull R, Salcedo EE, Seres T. Detection of Left Ventricular Apical thrombus with Three-Dimensional Transesophageal Echocardiography. *Semin Cardiothorac Vasc Anesth*. 2011 Aug 29 (epub ahead of print)
8. Girotti M, **Singh RR**, Rodgers B. The Ventriculo-Gallbladder shunt in the treatment of refractory hydrocephalus. *Am Surg* 2009 Aug;75(8):734-7.
9. Reece TB, Tribble CG, Peeler BB, **Singh RR**, Kron IL, Kern JA. Elective hypothermic circulatory arrest to address aortic pathology is safe for the elderly. *J Card Surg* 2009 May-Jun;24(3):240-4,
10. Ellman PI, Reece TB, Law MG, Gazoni LM, **Singh R**, Laubach VM, Linden J, Tribble CG, Kron IL. Adenosine A(2A) Activation Attenuates Nontransplantation Lung Reperfusion Injury. *J Surg Res* 2008 Sep;149(1):3-8. Epub 2007
11. Reece TB, **Singh RR**, Stiles BM, Peeler BB, Kern JA, Tribble CG, Kron IL. Replacement of the proximal aorta adds no further risk to aortic valve procedures. *Ann Thorac Surg*, 2007 Aug;84(2):473-8; discussion 478.
12. **Singh RR**, Laubach VE, Ellman PI, Reece TB, Unger E, Kron IL, Tribble CG. Attenuation of lung reperfusion injury by modified ventilation and reperfusion techniques. *J Heart Lung Transplant* 2006 Dec;25(12):1467-73, Epub 2006 Oct 30.
13. Reece TB, Tribble CG, Smith RL, **Singh RR**, Stiles BM, Peeler BB, Kern JA, Kron IL. Central cannulation is safe in acute aortic dissection repair. *J Thorac Cardiovasc Surg* 2007 Feb;133(2):428-34, Epub 2006 Dec 29.
14. **Singh RR**, Warren PS, Smith P, Wilson W. Paraduodenal Hernia: Image of the month. *Arch Surg* 2006 Jul;141(7):711-2.

15. **Singh RR**, Warren PS, Reece TB, Ellman PI, Peeler BB, Kron IL. Early repair of complete atrioventricular septal defect is safe and effective. *Ann Thorac Surg*, 2006 Nov;82(5):1598-601; discussion 1602.
16. Ellman PI, Alvis JS, Tache-Leon C, **Singh R**, Reece TB, Kern JA, Tribble CG, Kron IL. Hyperoxic ventilation exacerbates lung reperfusion injury. *J Thorac Cardiovasc Surg*, 2005 Nov;130(5):1440-5.
17. **Singh RR**, Thomas MA, Barry MC, Bouchier-Hayes DJ. Traumatic pseudoaneurysm of the internal carotid artery presenting with oculosympathetic palsy. *Ir J Med Sci*, 2004 Jul;173(3):162-3.
18. **Singh RR**, Barry MC, Ireland A, Bouchier Hayes D. Current diagnosis and management of blunt internal carotid artery injury. *Eur J Vasc Endovasc Surg* 2004 Jun;27(6):577-84.
19. **Singh RR**, Brannigan AE, O'Sullivan MJ, Lane B. Defining small bowel strictures. *Ir J Med Sci* 2002 Apr-Jun;171(2):79-80.
20. Grannell MS, **Singh RR**, Tang R, Mansoor S, Walsh TN. Designing a medical website. *Ir J Med Sci* 2001 Apr;170(2):123-5.

Research Funding

EndoProtech, Inc. Solution to Protect the Myocardium During the Period of Cardiopulmonary Bypass That is Used for Open Heart Surgery NHLBI (Co-Investigator) 11/1/13 – 10/31/14	\$167,317
ROADMAP: Risk Assessment and Comparative Effectiveness Of Left Ventricular Assist Device and Medical Management in Ambulatory Heart Failure Patients Thoratec Corporation (Co-Investigator) 11/14/11 – 1/15/15	\$175,580
Feasibility Testing of Miniaturized Ventricular Assist Device (MVAD), SBIR Phase I HeartWare, Inc. (Co-Investigator) 4/14/2011 – 9/30/12	\$107,288
Remission from Stage D Heart Failure: Multi-Centre Recovery Study Using High Dose Reverse Remodeling Therapy and Regular Testing of Underlying Myocardial Function – RESTAGE-HF Thoratec Corporation 11/1/12 – 11/1/17	\$117,592

Clinical Trials

PARTNER II Trial: **Pl**acement of **AoR**tic **TraN**scathet**ER** Valves Trial with Registries
Edwards Life Sciences, Ramesh Singh, M.D. (Sub PI), Matt Williams, M.D. (PI),
Michael Flaherty, M.D. (P-I) IRB: 12.0060 – 5 year trial

NDA with Biomet Microfixation for Clinical Study of
SternaLock Sternal Closure
Biomet Microfixation
(PI)
10/29/12 – 10/28/13