

Curriculum Vitae
ARUN K. SINGH, M.D.

EDUCATION

Undergraduate:

Patna University, Bihar, India, 06/01/1958 – 05/31/1960
I.Sc. (Intermediate in Science), 03/1961

Medical School:

Darbhanga Medical School, Bihar University, Bihar, India
Class Assistant in Medicine and Pathology
M.B.B.S., with honors, 05/31/1967

POSTGRADUATE TRAINING

Worcester City Hospital, Worcester, MA
Straight Surgical Internship, 08/15/1967 - 06/30/1968

Harlem Hospital, Francis Delafield, Columbia Presbyterian Medical Center, New York City
(Columbia University College of Physicians & Surgeons Affiliated Hospitals)
Surgical Residency, 07/01/1968 - 06/30/1972

Rhode Island Hospital, Providence, RI
(Brown University School of Medicine Affiliated Hospital)
Thoracic & Cardiovascular Residency 07/01/1972 - 06/ /1974

Hospital for Sick Children, GOSH, London, England
Pediatric Cardiac Surgery
Senior Registrar in Thoracic & Cardiovascular Surgery, 07/01/1974 – 06/30/1975

PROFESSIONAL LICENSES

Massachusetts, 2009
New York, 08/01/1972
Rhode Island, 08/20/1975

BOARD CERTIFICATIONS

American Board of Surgery, 05/22/1973
Royal College of Surgeons of Canada, Certification in Surgery (C.R.C.S.), 11/07/1973
American Board of Thoracic Surgery, 03/15/1975

ACADEMIC APPOINTMENTS

Clinical Tutor, Institute of child Health, University of London, England, 07/1974 - 06/1975

Clinical Assistant Professor of Surgery, Division of Biology and Medicine
Brown University School of Medicine, 07/1978 – 06/1983

Clinical Associate Professor of Surgery, Division of Biology and Medicine
Brown University School of Medicine, 07/1983 – 06/1991

Professor of Surgery, Clinical, Division of Biology and Medicine
Brown University School of Medicine, 07/01/1991 -2016

**Emeritus, Professor of surgery (clinical). Albert Medical School at
Brown University, 2016**

HOSPITAL APPOINTMENTS

Surgeon, Active Staff, Division of Cardio-Thoracic Surgery
Department of Surgery, Division of Surgical Research
Rhode Island Hospital
08/22/1975 - present

Consulting Staff, Division of Cardiovascular and Thoracic Surgery
Department of Surgery
Women and Infants Hospital
04/27/1976 – 07/31/2011

Clinical Director of Cardiac Surgery
Rhode Island Hospital
1984 - 1992

Director, Cardiac Intensive Care Unit
Rhode Island Hospital
1989 - 1992

Surgeon-in-Charge, Division of Cardiothoracic Surgery
Brown University School of Medicine
1989 - 1992

Cardiovascular Surgical Consultant
Malhotra Heart Institute
New Delhi, India
1996 - Present

COMMITTEE ASSIGNMENTS

Arun K. Singh
Curriculum Vitae

Brown University Surgical Residency Review Committee
1990-1996

Operating Room Coordinating Committee
Rhode Island Hospital
1990-1995

Credentials Committee
Rhode Island Hospital
1991-2001

Heart Task Force
Rhode Island Hospital

Board of Directors
Rhode Island Cardiac Children
1980-present

Member, Clinical Advisory Group of the Search for Chair of Surgery
Brown University School of Medicine
1994-2000

Member, Search Committee for Chief of Cardiac Surgery at Brown University
Rhode Island Hospital and Brown University
1995

RESEARCH GRANTS

“Effect of pulsatile blood flow on tissue perfusion”, 1981. Extracorporeal Corp., \$8,000.00.

“Release of ADH following pulsatile blood flow on cardiopulmonary bypass”, 1982.
Extracorporeal Corp., \$3,000.00.

“TIMI-1” NIH, multicenter trial (as Rhode Island Hospital Cardiac Consultant).

“Bypass angioplasty revascularization investigation (BARI)”. NIH, multicenter trial (surgical participant).

“RESTOR-MV Trial – Coapsys Annuloplasty System”, Myocor[®], MN (\$180,000).

INVITED REVIEWS FOR JOURNALS

Annals for Thoracic Surgery
Chest
Circulation

MEMBERSHIP IN SOCIETIES

American Association for Thoracic Surgery
American Association for Vascular Surgery
American Association of Physicians of Indian Origin
American College of Cardiology (Fellow)
American College of Chest Physicians (Fellow)
American College of Surgeons (Fellow)
American Heart Association (Fellow)
American Medical Association
American Folk Art Society
Council of Cardiovascular Surgery, AHA.
European Association for Cardio-thoracic Surgery
Friday Night Club, Providence, RI (2nd oldest medical club in USA)
International Cardiovascular Society
New England Surgical Society
New York Academy of Science
New York-Presbyterian/Columbia Society of the Alumni
Providence Medical Society
Rhode Island Medical Society
Royal College of Surgeons (Fellow)
Society of Thoracic Surgeons
RI Commodores
University Club, Providence

HONORS

“Best Scientific Paper”, for “Clinical and electron-microscopic comparison of electrolyte and blood cardioplegia”, American College of Chest Physicians, 46th Annual Scientific Assembly, Boston, MA, 1980.

Voted “Best Cardiac Surgeon in RI” by physicians in 1990 since then every year

Mended Hearts, Merit Award 1995

Listed in “The Best Doctors in America”, 1996-1997.

Voted first “The Milton Hamolsky MD Outstanding Physician of the Year 2001” (from 2500 physicians at Rhode Island Hospital). This award was given in honor of Dr. Hamolsky for contributions, dedication, research and leadership in medicine.

Voted “American’s Top Doctor – Thoracic Surgeon”, a Castle Connolly Guide, 2003.

Listed in “Best Physicians & Hospital for treatment of atrial fibrillation” in Money Magazine, November, 2003.

Awarded the “Dr. Charles L. Hill Award” by the Rhode Island Medical Society, 2004. This award was given for dedication, research and contributions in medicine in State.

Voted “Rhode Island Monthly – Top Doctors” in May 2000, since then every year. Best Cardiac surgeon

In RI

India association of RI, honored the community service 2002.

India association of RI, distinguished Indian in RI in 2005

American Heart association—Hero at Heart, 2006

Akhil Vishwa Hindi Samiti, New York City, honored for valuable Services to the community 2007

India museum and Heritage society – honored for over a decade for community Service At the Rhode Island state House 2014.

India association of RI, honored for decades of service in community 2015.

Lifetime Achievement Award – Rhode Island Hospital, 2014 Lifespan, First Physician to receive the honor.

Cardio logical Society of India, Bihar Chapter, honored lecture, Journey through heart-2017

Inducted in Rhode Island Heritage Hall of Fame in 2017

PUBLICATIONS

PAPERS PRESENTED IN SCIENTIFIC MEETINGS

1. The relationship between central venous and left atrial pressure after cardiac surgery. 18th Annual Scientific Assembly at Rhode Island Hospital, 1973.
2. Closed heart operations in neonates and young infants. British Council Course on Neonatal Surgery, London, England, 1975.
3. Mustard operation in the first week of life. British Post-Graduate Cardiac Course, London, England, 1975.
4. The surgical treatment of truncus arteriosus in infants. Society of Thoracic Surgeons of England, Edinburgh, 1975.
5. Early versus late mustard operation for "simple" transposition of the great arteries. Ontario Heart Association Meeting, Canada, 1975.
6. Pulmonary artery banding for truncus arteriosus in the first year of life. American Heart Association Scientific Session, Anaheim, CA, 1975.
7. Surgical treatment of congenital heart disease. RI. Chapter of American Academy of Pediatrics, Providence, RI, 1976.
8. Experience with patent ductus arteriosus in infants and childhood. Malaysia-Singapore Congress of Medicine, 1976.
9. Hypothermic cardioplegic arrest for the repair of complex congenital heart disease: experimental and clinical experience. 44th Annual Scientific Assembly, American College of Chest Physicians, Washington, DC, 1978.
10. Hypothermic cardioplegic arrest (HCA) for repair of congenital heart disease. 48th Annual Meeting, American Academy of Pediatrics, 1979.
11. The surgical correction of complex congenital heart disease using hypothermic cardioplegic arrest (HCA) - its results and electronmicroscopic study of the heart. 45th Annual Scientific Assembly, American College of Chest Physicians, 1979.
12. Management of thoracic surgical emergencies. RI. Chapter of the American College of Emergency Physicians, Newport, RI, 1979.
13. Surgery for complex congenital heart defects. New England Chapter, American College of Chest Physicians, Providence, RI, 1979.

14. Hypothermic cardioplegic arrest (HCA) for repair of complex congenital heart disease -- its result and ultrastructural study of the myocardium. World Congress of Pediatric Cardiology, London, England, 1980.
15. Clinical and electronmicroscopic comparison of electrolyte and blood cardioplegia. 46th Annual Scientific Assembly, American College of Chest Physicians, Boston, MA, 1980.
16. Electrolyte versus blood cardioplegia - randomized clinical and myocardial ultrastructural study. 53rd Scientific Sessions, American Heart Association, Miami, FL, 1980.
17. Clinical experience with percutaneous versus surgical placement of intra aortic balloon (IAB). 47th Annual Scientific Assembly of the American College of Chest Physicians, San Francisco, CA, 1981.
18. Early detection of bronchogenic carcinoma. New Jersey Association of Cytology, Atlantic City, New Jersey, 1982.
19. Long-term changes in canine vein graft following infusion of cardioplegic solution. American Heart Association, Dallas, TX, 1982.
20. Early myocardial revascularization for postinfarction angina -- its results and long-term follow-up. American Heart Association, Anaheim, CA, 1983.
21. Early and late results following surgical correction of partial A V canal. World Congress of International Cardiovascular Society, Rio de Janeiro, 1983.
22. Coronary artery bypass surgery in 100 consecutive patients for postinfarction angina. IX European Congress of Cardiology, Dusseldorf, Germany, 1984.
23. Experience with the St. Jude heart valve prosthesis in the small aortic annulus. World Congress of International Cardiovascular Society, Monte Carlo, Monaco, 1985.
24. Initial clinical experience with a more efficient hollow fiber oxygenator of unique design. World Congress of International Cardiovascular Society, Monte Carlo, Monaco, 1985.
25. Selecting the "right" prosthetic valve. American College of Cardiology, Boca Raton, FL, 1986.
26. St. Jude heart valve prosthesis (SJV) in the small aortic annulus. 52nd Annual Scientific Assembly of the American College of Chest Physicians, San Francisco, CA, 1986.
27. Experience with flat pyrolytic carbon disc Bjork-Shiley versus S1'. Jude valves for mitral valve replacement. American College of Cardiology, Atlanta, GA, 1988.
28. Swan-Ganz catheter induced hemoptysis and pulmonary artery false aneurysm. The Society of Thoracic Surgeons, Baltimore, MD, 1989.

29. Chest wound infection following myocardial revascularization using internal mammary artery in diabetic versus non-diabetic patients. World Congress of Chest Physicians, Boston, MA, 1989.
30. Warm body, cold heart surgery: clinical experience in 2817 patients. The European Association for Cardiothoracic Surgery, Geneva, Switzerland, 1992.
31. Results of mitral valve replacement for mitral regurgitation with preservation of the posterior leaflet World Congress on Diseases of the Chest, Amsterdam, The Netherlands, 1993.
32. Neurological complications during myocardial revascularization using warm body, cold heart surgery. European Association for Cardiothoracic Surgery, Barcelona, Spain, 1993.
33. Long-term follow-up of the St. Jude mechanical valve in small aortic root (SAR). The European Association for Cardiothoracic Surgery, Prague, Czechoslovakian Republic, 1996.
34. Does Coronary Artery Bypass Surgery Combined With Aortic Valve Replacement Increase The Risk of Surgery in Patients > 80 Years Old? Andrew Maslow, William Feng, Carl Schwartz, Paula Casey, Suzanne Dahlberg, George Cooper, **Arun Singh**. Rhode Island Hospital, Providence, RI
35. Feng J, Chu LM, Liu YH, Singh AK, Dobrilovic N, Sellke FW: Impaired contractile response to thromboxane A2 of peripheral arterioles from patients with uncontrolled diabetes. *Circulation* 2011; 124(s): A13351. Presented at the American Heart Association Scientific Sessions, Orlando FL, November 12-16. 2011.
36. Feng J, Liu YH, Singh AK, Dobrilovic N, Chu LM, Clements RM, Bianchi C, Sellke FW. Changes in microvascular reactivity after cardiopulmonary bypass in patients with uncontrolled Versus controlled diabetes. *Circulation* 2011 (s): A13684, Presented at the American Heart Association Scientific Sessions, Orlando FL. November 12-16. 2011,
37. Feng J, Liu YH, Dobrilovic N, Singh AK, Chu Lm, Sellke FW. Changes in coronary microvascular reactivity after cardiologic arrest in patients with uncontrolled versus controlled diabetes. *Journal of Surgical Research* 2012;172:279. Presented at the 7th Academic surgical Congress, Las Vegas NV, February 14-16, 2012
38. Feng J, Liu, Y, Dobrilovic, N, **Singh, AK**, Fingleton, J, and Sellke, F. Altered apoptosis-related signaling after cardioplegic arrest in patients with type-2 uncontrolled diabetes. AHA Scientific Session, CA, 2012. , *Circulation* 2012;
37. Dobrilovic N, **Singh AK**, Fingleton JG, Machan J, Vognar LA, Feng W, Coady M, Casey P, Sellke FW. Surgical outcomes for type-A aortic dissection in septuagenarians and octogenarians. (Abstract presented, *Journal of Surgical Research* 2012;172:278, Presented at the 7th Academic Surgical Congress, Las Vegas, NV: Feb 14-16 2012.

- 38 Feng J, Liu YH, Dobrilovic N, Singh AK, Bianchi C, Sellke FW, Altered expression and activation Of mitogen-activated protein kinases in diabetic heart during cardiologic arrest and cardio-Pulmonary bypass, Journal of Surgical Research 2013: 179:185, Presented at the American Surgical Congress New Orleans LA February 5-7 2013.
- 39 Feng J, Liu Y, Dobrilovic N, Singh AK, Bianchi C, Sellke FW. Differential impairment of adheres junction expression/phosphorylation of human myocardium in the setting of diabetes after cardioplegia 2013:128 (Suppl) 17960 (abstract). Presented at the American heart Association Scientific Sessions, Nov 16-20 .2013. Dallas TX.
- 40 Feng J, Liu YH, Singh AK, Ehsan A, Sellke FW, Decreased relaxation response of coronary arterioles to calcium- activated-potassium-channel activators in diabetic patients. Circulation, 2014: 130 (Suppl 2): A17342.
- 41 Liu YH, Xie A, Singh AK, Ehsan A, Choudhury G, Dudley S, Sellke FW, Feng J, Inactivation Of endothelial SK ca/IKca contributes to coronary arteriolar dysfunction in diabetes patients. Presented at 2015 RI NIH De A Symposium, Brown Medical School, Providence, RI , April 2 2015.
- 42 Feng J, Anderson K, Mitchell H, Singh AK, Liu YH, Sellke FW, Differential expression of COX-2 in diabetic and non –diabetic patients undergoing cardiac surgery, Circulation 2015 132: A 15652, Presented at AHA Scientific Session. Nov 7-11 2015, Orlando, FL
- 43 Feng J, Singh AK, Liang J, Liu Y, Sellke FW: Effects of diabetes and CPB on adheres Junction-protein expression of human peripheral tissue. Presented at the 11th Academic Surgical Congress, Feb 2-4, 2016, Jacksonville. Florida. ASC20161237.
- 44 Dobrilovic N, Raman J, Fingleton J, Maslow A, Singh AK
Long term outcome of External Repair as a rescue operation for atrioventricular disruption: Presented at World Congress of International Cardiovascular Society, Liverpool, UK- 2015
- 45 Anderson K, Feng J, Liu Y, Singh AK, EshanA, Sellke FW: Role of COX-2 in microvascular reactivity of peripheral Arterioles in Diabetic Patients after CPB: 12 th Academic Surgical congress, Las Vegas, Feb. 7-9 ,2017
- 46 Arun K. Singh, Journey of Cardiac Surgery, Guest speaker Cardiological Society of India, AIMS, Patna. Bihar. February 16th 2017

ABSTRACTS

1. **Singh AK**, de Laval M, Pincott I, Stark I: Pulmonary artery banding of truncus arteriosus in the first year of life. *Circ.* 51: 100, 1975.
2. **Singh AK**, Karlson KE, Farrugia R, Teplitz C, Corwin RD. Hypothermic cardioplegic arrest for repair of complex congenital heart disease. World Congress of Pediatric Cardiology, London, 1980.
3. **Singh AK**, et al. Pulsatile flow from Interpulse oxygenator versus nonpulsatile flow during cardiopulmonary bypass - its effect on plasma vasopressin, rennin, urinary output. *ASAIO*, 1983.
4. **Singh AK**, Calasanto L., et al. N2O; oxygen, low dose fentanyl anesthesia during cardiopulmonary bypass. *ASAIO*, 1983.
5. Burchard KW, **Singh AK**, led EH, Slotman GI, Gann DS: Positive pressure respirations (PPR) and pneumatic anti-shock garment (PASG) application: hemodynamic response. *J Trauma* 23(7):630, 1983.
6. Bert AA, Reinert S, **Singh AK** A beta-blocker, not magnesium, is effective prophylaxis for atrial tachyarrhythmias following coronary bypass surgery. *7th International Congress of Cardiothoracic & Vascular Anesthesia*, Quebec City, PQ; Canada, 2000.

BOOKS

1. Cooper GN, Karlson KE, Jaron D, **Singh AK**, Prfcee D; Capone R: The intra-aortic balloon pump in cardiogenic shock, as a preoperative adjunct in high risk myocardial revascularization. In: Coronary Artery Medical and Surgical Concepts and Controversies, John Norman (Ed.), Appleton-Century-Crofts, NY, 393-400, 1975.
2. Stark J, **Singh AK**, deLaval M, Taylor 1: Early versus late mustard operation for simple transposition of the great arteries. In: The Child with Congenital Heart Disease After Surgery, 1976, p. 187.
3. Williams DO, Riley RS, **Singh AK**, Korr KS, Most AS: Salutary effects of percutaneous transluminal coronary angioplasty on coronary circulatory dynamics. In: Coronary Heart Disease (M. Kaltenbach, Ed.), Heidelberg, Springer-Verlag, 1982.
4. Williams DO, Riley RS, **Singh AK**, Most AS: Unsuccessful percutaneous transluminal coronary angioplasty: identification of remedial causes. In: Coronary Heart Disease (M. Kaltenbach, Ed.), Heidelberg, Springer-Verlag, 1982.
5. Moran JM, **Singh AK**: Cardiogenic shock. In: Current Therapy in Cardiothoracic Surgery, B.C. Decker, Inc., Burlington, Ontario, 1989, pp. 432-435.
6. Sawant D, **Singh AK**, Feng WC, et al: St Jude Medical cardiac valves in small aortic roots: follow up to sixteen years. In: Year Book of Thoracic & Cardiovascular Surgery, Mosby, 1998, pp. 181-182.
7. Sawant D, **Singh AK**, Feng WC, et al: Nineteen-millimeter aortic St Jude Medical heart valve prosthesis: up to sixteen years' follow-up. In: Year Book of Thoracic & Cardiovascular Surgery, Mosby, 1998, p.182.

Your Heart, My Hands, by Arun K Singh, MD, forwarded by Dr. Cosgrove, will be published in April 2019 by Hachette book group.

Awe-inspiring life stories from one of the most preeminent surgeons in America

Leaving a life marked by crippling setbacks and his father's doubt, in 1967 a twenty-something doctor from India arrived in America with only five dollars and the desire to claim his American dream. The journey still awaiting Dr. Arun K.

Singh would be unparalleled. Faced with an entirely new culture, racism, and the lasting effects of disabling childhood injuries, through hard work and perseverance he overcame all odds. Now having performed over 15,000 open heart surgeries—more than nearly every surgeon in history—Dr. Singh reflects upon his most memorable patients and his incredible personal life. Shared for the first time, these intimate and uplifting accounts, along with photos, will have you cheering for the underdog and appreciating the enduring determination of the human spirit.

SCIENTIFIC PUBLICATIONS

1. Karlson KE, **Singh AK**, Cooper GN; The relationship-of left atrial pressure and central venous pressure after cardiac surgery. *J Cardiovasc Surg* 707-710, 1975.
2. **Singh AK**, Letsky E, Stark J: Hemolysis following correction of double outlet right ventricle. *J Thor & Cardiovasc Surg* 71:2,226-229, 1976.
3. **Singh AK**, deLaval M; Stark J: Total correction of truncus arteriosus in a 6-month old infant. *British Heart Journal*, 71:2, 226-229, 1976.
4. **Singh AK**, deLaval M, Pincott J, Stark J: Pulmonary artery banding in treatment of truncus arteriosus in the first year of life. *Circ* 54:6 (Suppl 3): 17-19, 1976.
5. **Singh AK**, Taylor JFN; Stark J: Left ventricle pulmonary artery conduit in the treatment of transposition of the great arteries, restrictive ventricular septal defect and acquired pulmonary atresia. *British Heart Journal* 38:11, 1213-1217, 1976.
6. **Singh AK**, Kothawale LK, Karlson KE: Trachea-esophageal and aorta-esophageal fistulae complication corrosive esophagitis. *Chest* 70:549-551, 1976.
7. Cooper ON, **Singh AK**, Vargas LL, Karlson KE: Pre-operative intra aortic balloon assist in high risk revascularization patients. *Circ.* 54: 143, 1976.
8. Williams DO, Cooper ON, Karlson KE, **Singh AK**, Capone RJ, Most AS: Intra-aortic balloon counterpulsation: appropriate management for acute unstable coronary ischemic syndromes. *Clin. Res.* 24:261A, 1976.
9. **Singh AK**, Corwin RD, Cooper ON, Vargas LL, and Karlson KE: Open heart surgery in infancy. *RI Medical J* 59:6:273-275, 1976.
10. Cooper ON, **Singh AK**, Christian FC, Cashman C, Vargas LL: Preoperative intra-aortic balloon support in surgery for left main coronary stenosis. *Ann Surg* 185:2:242-246, 1977.
11. Karlson KE, Massimino RJ, Cooper ON, **Singh AK**, Vargas LL: Respiratory characteristics of a microporous membrane oxygenator. *Ann Surg* 185:4:397-401, 1977.
12. Cooper ON, **Singh AK**, Vargas LL, Karlson KE: Preoperative intra-aortic balloon assist in high risk revascularization patients. *Am J Surg* 133:463-468, 1977.
13. **Singh AK**, Dillon M, Stark J: Mustard operation for transposition of the great arteries in a 3-day-old infant, complicated by acute renal failure. *J Cardiovasc Surg* 18:4:387-390, 1977.
14. **Singh AK**, deLaval MR, Stark J: Left ventriculotomy for closure of muscular ventricular septal defects-treatment of choice. *Ann of Surg* 186:5, 577-580, 1977.

15. **Singh AK**, Karlson KE, Corwin RD, Cooper ON, Vargas LL: Hypothermic cardioplegic arrest for the repair of complex congenital heart diseases - experimental and clinical experience. *Chest* 74:350, 1978.
16. Cooper ON, **Singh AK**, Vargas LL, Karlson KE: A surgical view of stable angina pectoris. *RI Medical J* 61: 1, 27-29, 1978.
17. **Singh AK**, Cooper ON, Corwin RD, Vargas LL, Karlson KE: A central aorto-pulmonary shunt for cyanotic neonates. *RI Medical J* 61:1, 9-11, 1978.
18. **Singh AK**, Corwin RD, Karlson KE: Successful correction of type C complete atria-ventricular (A-V) canal in infancy. *J Cardiovasc Surg* 19:4,397-400, 1978.
19. **Singh AK**, Dykuizan DL, Vargas LL: Acute superior vena cava obstruction with intracavitary thrombosis: a complication of central venous catheterization. *Cardiovasc Diseases Bull* 6:3,308-312, 1979.
20. **Singh AK**, Corwin RD, Teplitz C: The surgical correction of complex congenital heart diseases using hypothermic cardioplegic arrest: its results and electronmicroscopic study of the heart. *Chest* 76:367, 1979:
21. **Singh AK**, Teplitz C, and Corwin RD: Myocardial ultra structural changes after hypothermic cardioplegic arrest (HCA). *Circ.* 60 (Suppl 2):43, 1979.
22. Koa C, Ohley W, **Singh AK**, Radovsky A, Jaron D: Experimental determination of the arterial system impulse response: preliminary results. *Proceedings of the 7th New England Bioengineering Conference*, 110-113; 1979:
23. Adebo OA, **Singh AK**: Digitalis in pneumonectomy and its implication. *J National Medical Assoc* 71:7,669-670, 1979.
24. **Singh AK**, Corwin RD: Hypothermic cardioplegic arrest for the repair of congenital heart disease. *Pediatric Cardiol* 1:2, 175-176, 1979.
25. Corwin RD, **Singh AK**: Report of the New England Regional Infant Cardiac Program. *Pediatrics* 65:2 (Suppl), 375-461, 1980.
26. **Singh AK**, Farrugia R, Teplitz C: Clinical and electronmicroscopic comparison of electrolyte and blood cardioplegia. *Chest* 78:540, 1980.
27. **Singh AK**, Farrugia R, Teplitz C, Karlson KE: Electrolyte versus blood cardioplegia – randomized clinical and myocardial ultrastructural study. *Circ.* 62 (Suppl 3):324, 1980.
28. Williams DO, Riley RS, **Singh AK**, Gerwitz H, Most AD: Coronary angioplasty for unstable angina: effects on coronary pathoanatomy, regional blood flow, myocardial metabolism and clinical course. *Circ.* 62 (Suppl 3):160; 1980.

29. Williams DO, Riley RS, **Singh AK**, Most AS: Restoration of normal coronary hemodynamics and myocardial metabolism after percutaneous transluminal coronary angioplasty. *Circ* 1980;62:3, 653-656.
30. **Singh AK**, Cooper ON, Williams DO, Riley R, Karlson KE: Clinical experience with percutaneous versus surgical placement of intra aortic balloon. *Chest* 80:369, 1981.
31. Williams DO, Riley RS, **Singh AK**, Gerwartz H, Most AS: Evaluation of the role of coronary angioplasty in patients with unstable angina pectoris. *Am Heart J* 102: 1, 1981.
32. Corwin RD, **Singh AK**, Karlson KE: Balloon dilatation of ductus arteriosus in a newborn with interrupted aortic arch and ventricular septal defect. *Am Heart J* 102:446-447, 1981.
33. **Singh AK**: Transection of the aorta for repair of pulmonary artery branch stenosis after creation of a Waterston shunt. *Cardiovasc Diseases*: 4, 550-555, 1981.
34. Karlson KE, Massimino RJ, Cooper GN, **Singh AK**: Initial clinical experience with a microporous membrane oxygenator utilizing secondary flow in the blood channels. *Tr Amer Soc Artif Int Organs* 17, 1981.
35. **Singh AK**, Farrugia R, Teplitz C, Karlson KE: Electrolyte vs blood cardioplegia - randomized clinical and myocardial ultrastructural study. *Ann Thor Surg* 33:3, 218-227, 1982.
36. Karlson KE, Massimino RJ, **Singh AK**, Cooper GN: Laboratory and clinical evaluation of a membrane oxygenator with secondary flows in the blood channels. *World J Surg* 6:358-361, 1982.
37. **Singh AK**, Williams DO, Cooper GN, Riley RS, Karlson KE: Percutaneous vs surgical placement of intra aortic balloon assist. *Cathet Cardiovasc Diag* 8:519-523, 1982.
38. Weisburst MR, **Singh AK**, and Riley RS: Echocardiographic features of aortic ball valve prosthesis malfunction. *Clin Cardiol* 5, 597-601, 1982.
39. **Singh AK**, Reimer R: Subclavian flap repair after mycotic aneurysm of patch repair of coarctation. *J Thorac Cardiovasc Surg* 84:6, 911-912, 1982.
40. Williams DO, Riley RS, **Singh AK**, Most AS: Coronary circulatory dynamics before and following successful coronary angioplasty. *J Am Col Cardiol* 1 :(5): 1268-1272, 1983.
41. Critz CH, deLuca WP, **Singh AK**: Iatrogenic extracorporeal hemolysis during cardiac surgery in a child. *RI Medical J* 66:5:187-190, 1983.
42. Williams DO, Kurzrok S, Riley R, **Singh AK**, Most AS: Partial revascularization by single vessel coronary angioplasty: efficacious therapy of multi vessel coronary artery disease. *J Am Col Cardiol* 2:655, 1983.

43. Williams DO, **Singh AK**, Most AS: Sustained efficacy of coronary angioplasty documented by stress testing at one year. *J Am Col Cardiol* 2:724, 1983.
44. **Singh AK**: Cardioplegia techniques. *Ann Thor Surg* 1983;35:687.
45. Karlson KE, Massimino RJ; **Singh AK**; Cooper GN Jr: Clinical evaluation of the interpulse low resistance microporous membrane oxygenator. *J Cardiovasc Surg* 24:2, 156-159, 1983.
46. **Singh AK**, Capone RJ, O'Shea P, Karlson KE: Long-term changes in canine vein graft following infusion of cardioplegic solution. *Circ (Suppl II)* 68: 11,113-116, 1983.
47. **Singh AK**, Corwin RD, and Karlson KE: Early and late results following repair of partial atrio-ventricular canal. *J Cardiovasc Surg* 24:4:339, Jul-Aug, 1983.
48. Miller BR, Vohr FH, Christian FV, **Singh AK**: Cardiac valvular replacement in carcinoid heart disease. *Am J Med* 75:896-898, 1983.
49. Williams DO, Riley RS, **Singh AK**; Most AS: Angiographic outcome following successful percutaneous transluminal coronary angioplasty (PTCA): results of a prospective investigation. *Circ (Suppl III)* 68:4, 1983.
50. **Singh AK**, Karlson KE, Rivera R, Cooper ON Jr.: Early myocardial revascularization (MRV) for post infarction angina (PIA) -- its results and long term follow up. *Circ (Suppl III)* 68:4, 1983.
51. Corwin RD, **Singh AK**, Karlson KE: Double-outlet right atrium: a rare endocardial cushion defect. *Am Heart J* 106:5:1156-1157, 1983.
52. **Singh AK**, Corwin RD, Teplitz C, Karlson KE: Consecutive repair of complex congenital heart disease using hypothermic cardioplegic arrest -- its results and ultrastructural study of the myocardium. *Thorac & Cardiovasc Surg* 32:23; 26, 1984.
53. Holland CL, **Singh AK**, Caster PRB, and Fang IW: Adverse reactions to protamine sulfate following cardiac surgery. *Clin Cardiol* 7: 157-162, 1984.
54. Karlson KE, Massimino RJ, Cooper ON Jr, **Singh AK**: Initial clinical experience with a low pressure drop membrane oxygenator for adult cardiopulmonary bypass. *Am J Surg* 147:447-450, 1984.
55. **Singh AK**, Cooper ON Jr., Rivers R, and Karlson KE: Coronary artery bypass surgery in 100 consecutive patients for post-infarction angina. *European Heart J* 5:292, 1984.
56. Williams DO, **Singh AK**, Reinert S, Most AS: Late clinical outcome following percutaneous transluminal coronary angioplasty (PTCA). *European Heart J* 5: 120, 1984.
57. Williams DO, Riley RS, **Singh AK**, Most AS: Angiographic outcome following percutaneous

- transluminal coronary angioplasty (PICA). *European Heart J* 5: 120, 1984.
58. **Singh AK**, Nuric KH: Simultaneous myocardial revascularization and ascending aorta to femoral-artery bypass grafting. *Thoracic & Cardiovasc Surg* 32: 117-118, 1984.
 59. **Singh AK**, Christian FV, Williams DO, Georas CS, Riley RS, Nanian KB, Karlson KE: Follow-up assessment of the St. Jude Medical prosthetic valve in the tricuspid position: clinical and hemodynamic results. *Ann Thor Surg* 37:324-7, 1984.
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