

Curriculum Vitae  
**ARUN K. SINGH, M.D.**

**EDUCATION**

**Undergraduate:**

Patna University, Bihar, India, 1958  
I.Sc. (Intermediate in Science), Pre-Medical, 1961

**Medical School:**

Darbhanga Medical School, Bihar University, Bihar, India  
Class Assistant in Medicine and Pathology  
M.B.B.S., with honors, 1967 (summa cum laude equivalent)

**POSTGRADUATE TRAINING**

Worcester City Hospital, Worcester, MA  
Straight Surgical Internship, 1967-1968

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

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

Hospital for Sick Children, London, England  
Pediatric Cardiac Surgery  
Senior Registrar in Thoracic & Cardiovascular Surgery, 1974-1975

**PROFESSIONAL LICENSES**

New York, 1972  
Rhode Island, 1975

**BOARD CERTIFICATIONS**

American Board of Surgery, 1973  
Royal College of Surgeons of Canada, Certification in Surgery (C.R.C.S.), 1974  
American Board of Thoracic Surgery, 1975

**ACADEMIC APPOINTMENTS**

Clinical Tutor, Institute of child Health, University of London, England, 1974

Clinical Assistant Professor of Surgery, Division of Biology and Medicine  
Brown University School of Medicine, 1978-1983

Clinical Associate Professor of Surgery, Division of Biology and Medicine  
Brown University School of Medicine, 1983-1991

Clinical Professor of Surgery, Division of Biology and Medicine  
Brown University School of Medicine, 1991-present

### **HOSPITAL APPOINTMENTS**

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

Consulting Staff, Division of Cardiovascular and Thoracic Surgery  
Department of Surgery  
Women and Infants Hospital  
1976-present

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**

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<sup>®</sup>, 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  
American Medical Association  
Council of Cardiovascular Surgery

European Association for Cardio-thoracic Surgery  
Friday Night Club, Providence, RI (2<sup>nd</sup> oldest medical club in USA)  
International Cardiovascular Society  
New England Surgical Society  
New York Academy of Science  
Providence Medical Society  
Rhode Island Medical Society  
Royal College of Surgeons (Fellow)  
Society of Thoracic Surgeons

## **HONORS**

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

Voted “Best Cardiac Surgeon in RI” by physicians in 1990 & 2000.

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.

## **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. 53<sup>rd</sup> 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

## **ABSTRACTS**

1. Singh AK, de Laval M, Pincott 1, Stark 1: 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, tow 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. *1 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 AS 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.

## **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, 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, 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 artery hemodynamics and myocardial metabolism after percutaneous transluminal coronary angioplasty. *Circ* 62:3, 653-656, 1980.
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, Gerwirth 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, 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, 911-916, 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* 35:6:687, 1983.
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, 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 (PICA): 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 postinfarction 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;c26, 1984.
53. Holland CL, Singh AK, Caster PRB, 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, 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 (PICA). *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.
60. Singh AK, Corwin RD, Cooper ON, Karlson KE: Early and late results following repair of partial atrioventricular (A-V) canal. *Thoracic & Cardiovasc Surg* 32:89-91, 1984.
61. Burchard KW, Slotman OJ, Jed E, Singh AK, Gann DS: Positive pressure applications (PDR) and pneumatic anti-shock garment (PASO) application: hemodynamic response. *J Trauma* 25:83-9, 1985.
62. Hodgson 1M, Williams DO, Drew TM, Riley RS, Singh AK: Blood flow in sequential internal mammary artery grafts sufficient to normalize coronary flow reserve. *Circulation III*, 72:292, 1985.
63. Singh AK, Rivera R, Cooper GN Jr, Karlson KE: Early myocardial revascularization for postinfarction angina: results and long-term follow-up. *J Am Col Cardiol* 6: 1121-5, 1985.
64. Hodgson JM, Singh AK, Drew TM, Riley RS, Williams DO: Coronary flow reserve provided by sequential internal mammary artery grafts. *J Am Col Cardiol* 7:32-7, 1986.
65. Singh AK: Discussion of Cosgrove et al., Rankin et al. - Row pattern in sequential internal mammary artery bypass. *J Thorac & Cardiovasc Surg* 92:5:843, 1986.
66. Karlson KE, Massimino RJ, Singh AK, Cooper GN Jr, Moran JM: Initial clinical experience with a more efficient hollow fiber oxygenator of unique design. *J Cardiovasc Surg* 1986.
67. Macina G, Singh AK, Drew TM, Moran 1M, Most AS: Asymmetric myocardial hypertrophy left ventricular aneurysm, mural thrombus and sudden death. *Am Heart J III*: 175-78, 1986.
68. Pricolo VE, Burchard KW, Singh AK, Moran 1M, Gann DS: Trendelenburg versus PASO application hemodynamic response in man. *J Trauma* 26(8):718-726, 1986.
69. Singh AK, Cooper GN Jr, Moran JM, Karlson KE: St. Jude heart valve prosthesis in the small aortic annulus. *Chest* 89:6:4675, 1986.
70. Kurzok S, Singh AK, Most AS, Williams DO. Thrombolytic therapy for prosthetic cardiac valve thrombosis. *J Am Col Cardiol* 9:592-598, 1987.
71. Karlson KE, Singh AK: Repair of ostium primum atrial septal defects. *Int Pediat* 2:336-7, 1987.
72. Rajacich N, Burchard KW, Hasan F, Singh AK: Esophageal pressure monitoring: a practical adjuvant to hemodynamic monitoring with positive end-expiratory pressure. *Heart & Lung* 17:5:483-488, 1988.

73. Singh AK, Michaelson S, Moran JM, Cooper GN Jr., Karlson KE: Experience with flat pyrolytic carbon disc Bjork-Shiley versus S1. Jude valves for mitral valve replacement. JACC 2:86A, 1988.
74. Singh AK, Feng We: Chest wound infection following myocardial revascularization (MRV) using the internal mammary artery in diabetic vs. non-diabetic patients. Chest 96:Suppl., 1989. (Abstract)
75. Moran JM, Singh AK: Cardiogenic shock. In: Current Therapy in Cardiothoracic Surgery, B.C. Decker, Inc., Burlington, Ontario, 1989, pp. 432-435.
76. Rajacich N, Burchard KW, Hasan FM, Singh AK: Central venous pressure and pulmonary capillary wedge pressure as estimates of left atrial pressure: effects of positive end-expiratory pressure and catheter tip malposition. Critical Care Medicine 17: 1:7-11, 1989.
77. Cross JS, Gruber DP, Burchard KW, Singh AK, Moran 1M, Gann DS: Hypertonic saline fluid therapy following surgery: a prospective study. J Trauma 29(6):817-25, 1989.
78. Cross JS, Gruber DP, Burchard KW, Singh AK, Moran JM, Gann DS: Hypertonic saline attenuates the hormonal response to injury. Ann of Surg 209:684-692, 1989.
79. Singh AK, Bailey L, Williams DO: Percutaneous balloon catheter occlusion of Potts shunt - an adjunct during surgical closure. J Thoracic & Cardiovasc Surg 98:4:633-634, 1989.
80. Singh AK, Corwin RE: Intracardiac rhabdomyoma in infancy. Thorac & Cardiovasc Surg 37:6:832-384, 1989.
81. Singh AK, Feng WC: Chest wound infection following myocardial revascularization (MRV) using the internal mammary artery in diabetic vs. non-diabetic patients. Chest 96 (Suppl.), 1989.
82. Feng WC, Singh AK, Moran 1M: Tricuspid regurgitation with postinfarction ventricular septal defect. Ann Thorac Surg 49:659-660, 1990.
83. Feng WC, Singh AK, Drew T, Donat W: Swan-Ganz catheter-induced massive hemoptysis and pulmonary artery false aneurysm. Ann Thorac Surg 50:644, 1990.
84. Massimino RJ, Stearns GT, Gough JD, Martin 1 and Singh AK: Moderate hypothermic versus normothermic total cardiopulmonary bypass for coronary artery surgery: a retrospective study. J Extracorporeal Technology 23 5-8;J991.
85. Bergus BO, Feng WC, Bert AA, Singh AK: Aortic valve replacement (A VR): influence of age on operative morbidity and mortality. Eur 1 Cardio-Thoracic Surg 1992;6:118-121.
86. Singh AK, Feng WC, Sanofsky SJ: Long-term results of St. Jude Medical valve in the tricuspid position. Ann. Thorac. Surg. 1992;54:538-540.

87. Bert AA, Feng WC and Singh AK. The role of erythropoietin in Jehovah's witnesses requiring cardiac surgery. *J Cardiothoracic & Vascular Anesthesia* 1993;7:95-102.
88. Singh AK, Dissly CA, Singh AK II, Feng WC. Results of mitral valve replacement for mitral regurgitation with preservation of the posterior leaflet. *Chest* 1993;103:3:276S.
89. Singh AK, Feng WC, Bert AA, Rotenberg FD: Warm body, cold heart surgery: clinical experience in 2817 patients. *Eur. J. Cardio-Thoracic Surg.* 1993;7:225-30.
90. Singh AK. Warm retrograde cardioplegia: protection of the right ventricle in mitral valve operations. *J Thorac Cardiovasc Surg.* 1993;106(2):370.
91. Bert AA, Singh AK: Right ventricular function following normothermic vs. hypothermic cardiopulmonary bypass. *J. Thorac & Cardiovasc Surg.* 1993;106:988-96.
92. Feng WC, Singh AK, Bert AA, Sanofsky SJ, Crowley JP: Perioperative paraplegia and multi-organ failure from heparin-induced thrombocytopenia. *Ann. Thorac. Surg.* 1993 ;55: 1555-7.
93. Singh AK, Feng WC. Sternal wound infection after myocardial revascularization (MRV) with internal mammary artery (IMA). *Indian Heart Journal* 1993;45(1):29-31.
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