

BACKGROUND:

- Born in India. Came to Canada in 1967 and grew up in Fredericton, New Brunswick, Canada
- Married to Mitra Kumari Singh, have two sons- Shailin and Ishaan 1 daughter -Vrushali
- Graduated in the top 10 in 1987 from Dalhousie Medical School , Halifax, Nova Scotia
- Completed Internal Medicine and Cardiology residency training at the University of Toronto
- Completed Cardiology Clinical Research Fellowship at St. Michael's Hospital, Univ of Toronto, 1994
- Staff Cardiologist, Rouge Valley Health System, Centenary site, Toronto, ON, 1994-2002
- Relocated to Atlanta, GA, June 2002, Cardiologist, Northside Cardiology PC 2002-10, Atlanta Heart Specialists LLC -2010-present



KEY CURRENT POSITIONS:

- Staff cardiologist, Northside, St Joseph's, Emory Johns Creek, Dekalb Medical Hospitals
- Clinical Assistant Professor – Emory University, Div of Cardiology, Atlanta, Georgia
- American College of Cardiology – Atlanta representative on Georgia ACC Council
- Atlanta Heart Specialists, LLC – Director, Clinical Research Program

KEY PAST POSITIONS:

- Chair, Section of Cardiology, Northside Hospital (main campus and Forsyth)
- Vice Chair- St Josephs Research Institute, Board Member SJTRI
- Secretary and National Executive Council Member, Canadian Cardiovascular Society (CCS)
- Lecturer, Division of Cardiology, Department of Medicine, University of Toronto
- Chair and founding member, Greater Toronto Area Community Cardiologists (GTACC)
- President of the Medical Staff Society, RVHS- Centenary Health Centre
- Board of Governors, Medical Staff Society Rep, RVHS-Centenary Health Centre
- Board of Directors, Physician Representative, RVHS-Centenary Health Centre Foundation
- Medical Director, Pacemaker/ICD Program and Cath Lab, RVHS-Centenary Health Centre

KEY PROFESSIONAL MEMBERSHIPS:

- Fellow of the American College of Cardiology (FACC), American Heart Association (FAHA)
- Board Certified in Cardiology and Internal Medicine both in Canada and the United States.
- Member of many other professional organizations both in Canada and the United States.

RESEARCH EXPERIENCE:

- Published 16 articles and 26 abstracts on a wide range of topics in cardiology
- Principal site investigator on over 80 key national and international clinical trials.
- Actively designs and conducts independent clinical research
- Former Member St Joseph's Hospital IRB, SJRI, SJTRI and Northside Cardiac Research group

AWARDS AND SCHOLARSHIPS:

- Recipient of numerous awards and scholarships throughout high school, undergraduate and postgraduate training for academic merit and leadership skills
- Recipient of many awards of recognition for hospital and community service in Toronto
- Recipient of multiple research awards and grants for ongoing projects; focus on East Indian and other ethnic heart disease, health outcomes research and heart failure.

MISCELLANEOUS INFORMATION:

- Enjoys teaching medical students and post-graduate trainees
- Invited to deliver lectures on various topics within the field of cardiovascular medicine.
- Outside interests include live theatre, movies, music, travel, team sports, skiing and golf

Curriculum Vitae–Narendra Singh

PERSONAL DATA

Date of Birth June 10, 1963
Marital Status Married
Place of Birth Saraiya, India
Children 2 sons, 1 daughter
Citizenship American
Languages English, some Hindi



HOME ADDRESS

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OFFICE ADDRESS

Atlanta Heart Specialists, LLC. – 1505 Northside Blvd, Suite 2500, Cumming, GA 30041
(P) 678-679-6800 (F) 678-679-6804 E-mail DrSingh@ahsmed.com
Main office – 1468 Montreal Rd, Tucker, GA 30084 for more info www.ahsmed.com

HOSPITAL AFFILIATIONS

Northside Hospital Forsyth, 1200 Northside Blvd, Cumming, GA, 30041 (P) 770-844-3200
Also Northside-Sandy Spring, St Josephs, Dekalb General, and Emory Johns Creek Hospital

BRIEF CHRONOLOGY

2002 – Present – Clinical Assistant Professor, Emory University, Div of Cardiology, Atlanta, GA

2010 – Present – Cardiologist, Atlanta Heart Specialists LLC, Atlanta, Georgia.

2002-2010- Cardiologist, Northside Cardiology, PC, Atlanta, Georgia

2004 – 2006 – Chair. Section of Cardiology, Northside Hospital, Atlanta, Georgia

1994 -2002 - Staff Cardiologist, Dept. of Medicine, RVHS - Centenary site, Toronto, Ontario

1994 -2002 - Lecturer, Department of Medicine, University of Toronto, Toronto, Ontario

1993-1994 - Completed Cardiology Research Fellowship at St. Michael's Hospital, Toronto.

1991-1993 - Completed residency training in Adult Cardiology at the University of Toronto

1988-1991 - Completed residency training in Internal Medicine at the University of Toronto

1987-1988 - Completed rotating internship at St. Michael's Hospital, University of Toronto.

1983-1987 - Graduated from Dalhousie University Medical School, Halifax, Nova Scotia.

1981-1983 - Completed 2 yrs of a Bachelor of Science degree, Dalhousie Univ, Halifax, N.S.

1978-1981 - Graduated from Fredericton High School, Fredericton, New Brunswick.

1975-1978 - Graduated from Nashwaaksis Junior High School, Fredericton, New Brunswick.

1969-1975 - Completed elementary school training in Fredericton, N.B. and Ottawa, Ontario.

Summary of Public School and Undergraduate Training (1975-1987)

1. **Academic Performance**

1983-1987-DalhousieUniversity, Faculty of Medicine, Graduated with M.D.degree, ranking 10th out of 98 students

- Distinctions were obtained in 14 courses and the following clerkship rotations:
Medicine, Pediatrics, Surgery

- Clerkship Electives were done at:

- *TorontoGeneralHospital*, Toronto, Ontario, *Emergency Medicine*
Supervisors: Dr. B. Rowat , Dr. L. Greenspan

- *Brigham and Women's Hospital*, Boston, Massachusetts, *Cardiology*
Supervisors: Dr. B. Lown , Dr. T. Graboys

- Please note ; University Transcripts are available upon request.

1981-1983- Dalhousie University, 2yrs of a Bachelor of Science, Biochemistry Major, Overall G.P.A.= 3.7 = Aobtained early admission to medical school

1978-1981- Graduated from FrederictonHigh School with second highest academic standing.

1975-1978- Graduated from NashwaaksisJunior High School with highest academic standing.

2. **Extra-Curricular Involvement**

- Selected student rep on the Admissions Committee for the Faculty of Medicine -1986
- Dalhousie Medical Student Society (DMSS), representative on the Professional Assoc. of Residents and Interns for the Maritime Provinces (PARI-MP) Council - 1987
- Chairperson of the DMSS constitutional committee.-1987
- Course representative for my class in - Pharmacology (2nd year); Human Sexuality, Pediatrics, Medicine, Surgery, Family Medicine (3rd year)-1986-87
- Organizing Committee for the DMSS annual charity auction and book sale -1985-86
- Lab Instructor for Biology 1000 course. 1984-85
- Treasurer of the Dalhousie Science Society (DSS)-1984
- DSS Representative for the Dalhousie Association of Biology Students-1983
- Student rep on the Dalhousie undergraduate scholarship committee.1982-83
- Student representative on the Dalhousie undergraduate curriculum committee.1982
- President of one of the houses in the Howe Hall Men's Residence Complex and House representative on residence council -1982-83
- Treasurer of the high school Student Council -1981
- Managing Editor of the High School Paper-1980-81
- Chairperson of the high school's first Annual Year End Activities Banquet -1981
- Model Parliament treasurer and participant- 1979-81
- Student Council Class Representative-1979-80
- Member of the stage crew for the high school's annual musical production-1980-81
- Active in many intramural sports activities eg. hockey, soccer, baseball, and football.

3. **Major Awards/Scholarships**

- Selected to the Alpha Omega Alpha (ΑΩΑ) Honour Medical Society recognizing "Academic Achievements as well as Outstanding Personal Qualities, Contributions, and Achievements"-1987
- Awarded \$1000 Proctor and Gamble Award of Excellence at Dalhousie Univ in recognition of "Outstanding Academic Achievement and Extra-Curricular Involvement"-1986
- Awarded \$500 scholarship for 3rd highest academic standing in 2nd year med -1985
- Awarded CV Mosby Book Prize for Scholastic Excellence in 2nd year medicine-1985
- Awarded conference trip-"Research Frontiers in Diabetes Mellitus" in Toronto-1984
- Awarded \$250 scholarship for fifth highest academic standing in 1st yr medicine-1984
- Awarded \$3000 summer research studentship, funding by the Nova Scotia branch of the Canadian Diabetic Association-1984
- Awarded \$1000 entrance scholarship into the Faculty of Medicine-1983
- Awarded \$600 in-course scholarship by the Faculty of Science-1983
- Presented the Howe Hall Outstanding Leadership Award in recognition of accomplishments achieved as president of Studley House-1983
- Presented appreciation plaque by residents of Studley House, Men's Residence-'83
- Awarded \$1300 in-course scholarship by the Faculty of Science -1982
- Awarded \$2000 Dalhousie University's top entrance scholarship - 1981
- Awarded \$1000 Regent Mall Scholarship -based on student involvement and high academic standing-1981
- Awarded Birk's Medal for Leadership in Student Activities at F'ton High School-1981
- Presented the Citizenship Award for "Highest Contribution to the extra-curricular program at Fredericton High School"-1981
- Awarded Victoria Lodge Prize for the second highest academic standing at high school graduation (94%)-1981
- Presented three black "F" awards for academic excellence and outstanding extra-curricular involvement over 3 years of high school-1981
- Awarded C.W. Hall's Bookstore prize for highest standing in Grade 12 History –1981

Summary of Undergraduate Research Experience (1982-1987)

Summer 1984

Dalhousie University - Studied the effects of oral hypoglycemics on skeletal muscle insulin sensitivity and responsiveness.

Reference - Dr. M.H.Tan, Chief of Medicine, Halifax Infirmary Hospital (902) 421-7510

Summer 1982, 1983

Agriculture Canada - Research into the effects of abiotic and agronomic factors on population dynamics of aphid predators in potato fields.

Reference - Dr. G. Boiteau, Division of Plant Pathology, Fredericton, N.B. (506) 452-3260

1982-1983

Dalhousie University - Research into the Alcohol Expectancy Effect and its influence on motor skills performance.

Reference - Dr. P. Dunham, Department of Psychology, Halifax, N.S. (902) 424 -2211

1. Postgraduate Training

- 1993 -'94 -** (PGY-7) Clinical Research Fellowship, University of Toronto, Ontario
Supervisor - Dr. Anatoly Langer, St. Michael's Hospital
Projects - Post MI Outcomes and Resource Utilization Analysis, Heart - Rate Variability Post MI, ST Shift in Unstable Angina, Time to Treatment
Also did diagnostic cardiac catheterizations 1/2 day /week at SMH/TGH.
- 1991 -'93 -** (PGY- 5,6) Adult Cardiology at the University of Toronto, Ontario
base hospitals - St. Michael's Hospital, and The Toronto Hospital, Toronto General and Western divisions
electives done -pediatric cardiology, adult congenital heart disease, pre - cardiac transplantation, diagnostic cardiac catheterization
- 1988 -'91-** (PGY-2,3,4) Core Internal Medicine at the University of Toronto, Ontario
base hospitals - St. Michael's Hospital, and The Toronto Hospital, Toronto General and Western divisions
- 1987 -'88 -** (PGY-1) Rotating Internship at St.MichaelsHospital / Hospital for Sick Children , University of Toronto, Ontario. Rotations as follows:
8 weeks; pediatrics, medicine, ob/gyn, psychiatry, emergency medicine.
4 weeks; medical/surgical ICU, orthopedics, radiology

2. Post-Grad Awards/Scholarships

- Offered Heart and Stroke Foundation of Canada Research Fellowship Award (\$42,585) for 1994-'95 (declined)
- Awarded second prize in Annual Higgins' Resident Research Day competition - 1994
- Awarded Univ of Toronto Pettit Research Fellowship, Dept of Medicine (\$41,295)-1993
- Awarded 1st prize in the U.B. Cardiology Resident Research Day competition - 1993
- Awarded second prize in Annual Higgins' Resident Research Day competition - 1992
- Awarded third prize in Annual Higgins' Resident Research Day competition - 1990

3. Other Post-Grad Activities

- Cardiology Resident rep, Div of Cardiology Postgraduate Training Committee 1991-93
- Resident co-ordinator for the Royal College Oral Exams at the TorontoHospital -1991
- R3 rep on the Residency Training Committee for the TorontoHospital - 1990- '91
- Representative on Dept. of Medicine On-Site Evaluation committee ; 1988- 1991
- Representative on the Interns Education and Liason Committee for 1987-88.

4. Graduate Courses

- Introduction to Clinical Epidemiology Univ of Toronto Jan 1994
- Accepted in U of T Masters Program in Clinical Epidemiology (declined) Jul 1994

1. Hospital Appointments

- **Currently;** Staff Cardiologist, NorthsideHospital July 2002-**present**
Staff Cardiologist, St. Joseph's Hospital, July 2002-**present**
Staff Cardiologist, EmoryJohnsCreekHospital, Jan 2007-**present**
Staff Cardiologist, Dekalb Medical, Jul 2010 -**present**
- **Previous;** Staff Cardiologist, RVHS-Centenary site, July 1994 to June 2002

2. Current Medical Licenses

- Province of Ontario CPSO Registration # 58438
- State of Georgia Medical License # 37905 DEA# BS7629782

3. Major Licensing Exam Results

- ABIM Recertification Exam in Cardiovascular Disease **Passed May 2004**
- NASPE-Special Competency Cardiac Pacing & Cardioverter/Defib **Passed Sept 1999**
- Certification Board of Nuclear Cardiology Exam **Passed Oct 1998, Dec 2007**
- ABIM Certifying Exam in Cardiovascular Disease **Passed Nov 1995**
- RoyalCollege Exams for Certificate of Competence in Cardiology **Passed Nov 1993**
- RoyalCollege Oral Exams in Internal Medicine - F.R.C.P.(C) **Passed June 1992**
- American Board of Internal Medicine (ABIM) Certifying Exam **Passed Sept 1991**
- RoyalCollege Written Exams in Internal Medicine **Passed Sept 1990**
- FLEX Components I and II (Michigan) **Passed June 1988**
- Licensing Exam -Medical Council of Canada -LMCC **Passed May 1987**

4. Key Professional Memberships

- Fellow, American Heart Association (FAHA)
- Fellow, AmericanCollege of Cardiology (FACC)
- Fellow, RoyalCollege of Physicians of Canada, (FRCP(C))
- Member, Canadian Cardiovascular Society (CCS)
- Member, Medical Association of Georgia (MAG),
- Member, Canadian Medical Association (CMA)
- Member, College of Physicians and Surgeons of Ontario (CPSO)

5. Other Interests

- Active in the organization of South Asian multicultural events
- Enjoy reading/audiobooks, live theatre, movies, music, travel, dining, skiing, golf

Summary of Committee Memberships/Panels/Working Groups (1994 - present)

Hospital: Current Positions:

none

Hospital: Past Positions – Atlanta, Georgia:

Chief, Section of Cardiology, Northside Hospital (main campus and Forsyth) **2004-2006**
Northside Hospital Cardiac Research Subcommittee –**2003-2010**
Northside Forsyth PCI Subcommittee-**2009-2010**
Northside Hospital Cardiology Executive Committee – **2005- 2006**
St. Joseph’s Hospital Women and Heart Disease Board – **2006-2008**
Clinical Methods Coordinator for Emory Univ Medical Students – NSH –**2002- 2008**
St. Joseph’s Hospital Research Institute – Vice Chair – **2008 – 2009**
St. Josephs Hospital CV Partners LLC- Operations and QA committee **2009**
St. Josephs Hospital Heart Failure Advisory Board- **2005-2009**
St. Josephs Hospital Translational Research Institute- Board Member- **2009**
St. Josephs Hospital Institutional Review Board- member -**2008-2009**

Hospital: Past Positions in Toronto, Canada:

Medical Director – Scarborough Cardiology Research Organization, 1999 - 2002
Medical Director - Pacemaker /ICD Programme, 1995-2002
Medical Director – Cardiac Cath Lab , 1999-2001
Chairperson - Cardiac Care Educational Rounds, 1995-2002
Chairperson- Data Mgmt and Advisory Committee, C.A.R.E. Clinic, 2000- 2002
Chairperson, MAC Education Committee, 1997-1999
Chairperson, Cardiac Care Program Quality Assurance, 1995-1998
Chairperson – Cardiac Program Endowment Fund Committee, 1999-2001
Board Member, Physician Rep - Board of Directors, CHC Foundation, 1997-2001
Physician Rep-Major Gifts Committee CHC Foundation, 1997-1999
President, Medical Staff Society (MSS), 1996-1997
Vice-President, Medical Staff Society, 1995-1996
Secretary - Medical Staff Society, 1994-1995
MSS Rep, Board of Governors, 1995-1997
MSS Rep-Strategic Planning committee, 1996-1997, Credentials committee, 1996-1997
MSS Rep- Medical Advisory Committee (MAC), 1995-1997, Finance Committee, 1995-1996
Secretary, Dept of Medicine Business Meetings, 1994-1995
Member - MAC Research Committee, 1995-1999
Cardiologist Rep, Medical Program Clinical Management Committee, 1997-1999
Dept of Medicine Rep - Cardiac Arrest Committee, 1994-1999
Cardiac Program Rep on MAC Quality Assurance Committee - 1996-1997
Cardiologist Rep, Cardiac Care Community Advisory Committee - 1996-2002
Member-Annual Cardiology Day of Excellence Planning Committee, 1998-2002
Cardiologist Rep, Cardiac Care Teaching Committee, 1994-1997
Medical Program Representative - MAC Quality Assurance Committee, 1994-1995.
Member- Annual Clinic Update Day organization committee, 1994-1996
Physician Representative, Medical Program Utilization Committee, 1995-1996
Member- Cardiac Rehabilitation Development Committee, 1994-1996
Member - Cardiac Program Management Committee, 1996-2002
Member - Cardiac Diagnostics , Clinical Cardiac Care , Pacemaker/ICD Committee, 1994-2002

Summary of Committee Memberships/Panels/Working Groups (1994 - present)

Regional- Current Positions in Georgia

Atlanta Representative – GA chapter ACC Council – 2008-present

Regional- Past Positions in Georgia

Member - Kaiser Permanente CHF/CAD Working Group **2002-2006**

Member – AHA board of directors, Metro Atlanta Division **2005-2008**

Chair ACC-Georgia – Annual Scientific Sessions CME Planning Committee 2005-**2010**

Regional- Past Positions in Ontario, Canada:

Member, GTACC/Uof T Steering Committee 1999-2000

Chair, GTACC Informatics Committee, 1999 -2001

Chair - GTACC (Greater Toronto Area Community Cardiologists Association) 1996-1999

Executive Committee Member - GTACC, 1995- 2001

Medical Advisor - Scarborough Heart Health Network, 1995 - 1998

Co-Chair, GTACC Summer Retreat 1997

Co-Chair, GTACC/Univ of Toronto Summer Retreat 1998

Chair, Medtronic Ontario Physician's Pacemaker Symposium, 1998

Chair, Bayer Cardiology Weekend Retreat, 1999

Planning Committee, St Michael's Annual Cardiology for the Practitioner Day –1998

Planning Committee, GTACC/Univ of Toronto Summer Retreat 1999, 2000,2001, 2002

Planning Committee, GTACC Fall Retreat 1999,2000,2001,2002

Planning Committee, GTACC Clinical Research Symposium, 2000,2001

Member – Advanced Cardiac Services Task Force 1997-2002

National/International – Current Positions in USA:

None

National/International – Past Positions in Canada:

Panelist- Risk stratification in a Multicultural Society, CCS Scientific Sessions, 2010

Panelist - Coronary Heart Disease in South Asians, AHA Scientific Sessions, 2005

Panelist - Coronary Heart Disease in South Asians, CCS Scientific Sessions, 2006

Member – Am College of Cardiology, Assessment Working Group, 2007-2010

National/International – Past Positions in Canada:

Secretary, Canadian Cardiovascular Society (CCS) 2000- 2002

Executive Committee, Canadian Cardiovascular Society (CCS) 2000- 2002

Executive Committee, Canadian Cardiovascular Academy, 2000 –2002

Council Member, Canadian Cardiovascular Society (CCS) 1999- 2002

Chairperson, Membership Committee CCS, 2000-2002

Member, CCS Sponsorship Working Group, 1999

Member, CCS Nominating Committee, 1999, 2000, 2001

Co-Chair, St. Judes Medical 1st Annual Canadian Arrhythmia Symposium, 1998

Co-Chair, St. Judes Medical 2nd Annual Canadian Arrhythmia Symposium, 1999

Co-Chair, St. Judes Medical 3rd Annual Canadian Arrhythmia Symposium, 2000

Co-Chair, St. Judes Medical 4th Annual Canadian Arrhythmia Symposium, 2001

Primary panel, CCS Consensus Conference on Cardiac Transplantation, 2001

Co-chair, CCS Satellite Symposium – Metabolic syndrome - 2002

Co-chair, CCS Community Cardiologist Forum – 2001

Summary of University Clinical Teaching Experience (1994- present)

Atlanta Teaching;

- Mercer PA students- cardiology electives
- PCOM osteopathic students- Suwanee Campus- cardiology electives
- 2nd yr Emory Medical students – Clinical Methods Course
- Emory Cardiology Fellows – Grady Memorial Hospital Cardiology Clinic
- Emory PA students doing community cardiology electives
- 3rd and 4th yr medical students doing community cardiology electives

University of Toronto Teaching;

- Clinical Clerk Seminars - “Congestive Heart Failure”, St. Michael’s Hospital, 1995-1996
- Ambulatory Clinic Experience for cardiology fellows, 1994-2002
- Community Cardiology Elective for cardiology fellows, 1994-2002
- Community Cardiology Elective for 3rd and 4th yr medical students, 1994-2002
- “Health in the Community” Elective preceptor –1999-2000

Summary of Special Training /Certification (1994 - present)

- **1995-1996** -Completed CMA- Physician Management Institute (PMI) program (courses I-IV)
- **1994-1997**- Advanced Pacemaker Function Courses with Medtronic and St.Judes Medical
- **1995**- HP - Stress Echo techniques, interpretation and utilization course
- **1996**- ICD Training courses with CPI, Medtronic and Telectronics
- **1997**-IndianaUniversity, Interpretive Stress Echo Course
- **1998**- Am Soc Nuclear Cardiology, 3rd Annual Tutorial In Nuclear Cardiology
- **2001**- certification with Datascope on IABP insertion
- **2002**- certification with St Judes Medical on Angioseal closure device
- **2003**- certification with Duett vascular closure device
- **2003**- certification with St Judes Medical, Pacemaker Implantation Course
- **2006**- HRS –ICD/CRT Device Implantation and follow up course
- **2007**- Am Soc Nuclear Cardiology, 7th Annual Tutorial In Nuclear Cardiology
- **2008**- CTA Course, Denver, Level II certification

Summary of Group Practice Involvement (2002 - present)

- Physician Manager of Diagnostic Lab, Northside Cardiology PC – 2002-2005
- Director of Cardiac Research, Northside Cardiology PC- 2003-2010
- Physician Manager of Website, Northside Cardiology PC, 2004-2008
- Director of Cardiac Research, Atlanta Heart Specialists LLC- 2010-present

Summary of Other Professional Involvement (1994 - present)

1998 Cardiology Preceptorship Experience – Searle Canada

- 1999 Cardiology Preceptorship Experience – Searle Canada
- 1999 Contributor, Canadian Journal of CME
- 1998 Regional Lipid Advisory Board, Merck Canada
- 1999 Cardiology Consultant, Drug Intelligence Inc, Toronto
- 1999 National Standard Order Advisory Panel, Sanofi Canada
- 2000 National CAD Advisory Board, Pfizer Canada
- 2001 National CAD Advisory Board, Pfizer Canada
- 2002 National Cardiac Advisory Board, Biovail Canada
- 2003 National CAD Advisory Board, Pfizer Canada
- 2004 Cardiology Preceptorship Experience – Guidant, USA

Ongoing – very active within pharma/device industry and professional medical organizations as a speaker, facilitator and CME organizer.

Current Speakers Bureau;

Glaxo Smith Kline, Pfizer, Novartis, Abbott, Sanofi-Aventis, Boheringer Ingelheim

<i>Summary of Internal Hospital Publications (1994 - present)</i>

Contributing Author

- 1994 Cardiac Care Program Strategic Plan
- 1995 Cardiac Care Program Strategic Plan Update
- 1995 3M Quality Healthcare Award - Your Heart is in Good Hands
- 1995 A Proposal to Establish A Cardiac Rehabilitation Program
- 1996 Cardiac Care Program Strategic Plan Update
- 1996 Regional Cardiac Care Center Proposal
- 1997 Cardiac Care Program-Strategic Plan
- 1997 Cardiac Care Hospital Accreditation Document
- 1998 Regional Advanced Cardiac Services Proposal
- 1998 Cardiac Care Program Strategic Plan
- 1999 High Risk Cardiac Intervention Service Proposal
- 1999 Response to CCNO on PM/ICD Services at CHC

Principal Author

- 1995 Dept of Medicine Annual QA Report
- 1996 Dept of Medicine Annual QA Report
- 1996 Effect of Early Ambulation on Hematoma Formation and Vascular Complications Study
- 1996 Cardiac Care Program Annual QA Report
- 1996 Implantable Cardioverter Defibrillator Follow-up Proposal
- 1997 Differential Effects of ACEI on QOL and exercise in Cardiac Rehabilitation Study
- 1998 Your Heart Is In Good Hands - Cardiac Care Program Brochure
- 1998 Cardiac Care Program Annual QA Report
- 1998 Dept of Medicine – CME Maintenance of Competency Policy

Summary of Clinical Research Trials Participation (1994- present)

Principal Site Investigator- USA

IRIS- rosuvastatinvsatorvastatin in South Asians, one of the top enrolling US sites
ACCOMPLISH- outcomes trial using combination antihypertensives
EVEREST-tolvaptan in acutely decompensated CHF
OPTIMIZE-HF registry- in hospital CHF registry
LIFE- Guidant pacemaker trial
AWARE- Guidant pacemaker trial
Affects Registry- outpt atrial fibrillation registry
ULTRA- Guidant pacemaker trial
RELY-dabigatranvs warfarin in atrial fibrillation
TIMI 42 IMPROVE IT-ezetemibe on top of simvastatin in acute coronary syndrome
RED-HF-darbopoeitin in CHF pts
LTAP- Pfizer lipid management registry
CLEAR-Biotronik pacemaker trial
TIMI 46 ATLAS-rivaroxaban dosing study in acute coronary syndromes
CURRENT OASIS 7- high dose clopidogrel and ASA in ACS, 4th highest enroller in the USA
OMACOR-AFIB- high dose omega 3's in atrial fib- top enrolling site in the study
RATE REGISTRY- St Judes pacemaker trial, one of the top enrolling US sites
ASCEND HF-neseritide in acutely decompensated CHF
TRILOGY-ACS-prasugrelvs clopidogrel in medically managed ACS
TIMI 50 TRA-2P-vorapaxar in stable atherosclerotic disease, top enrolling site in the USA
NATURE-Sorin pacemaker trial, tied for highest enrolling USA site
Dal outcomes trial-dalcetrapib in ACS
TIMI 48 ENGAGE–AF-edoxaban in atrial fib, one of the top ten enrolling sites in the USA
ALTITUDE- aliskiren outcomes trial in diabetic hypertensives
TIMI 52 SOLID – LpPLA2 inhibitor darapladib in ACS pts
BRADY-CARE- St Judes pacemaker trial
EMERALD- Sorin pacemaker trial
TIMI 53 PEGASUS-ticagrelor in chronic CAD
PALLUS-dronedarone in permanent atrial fibrillation
ASPECT-apadenosinvs adenosine in nuclear imaging

Co-Investigator- USA

Adenosine Nuclear Stress - role of exercise during adenosine infusion, helped design study
FUSION II-outptneseritide infusions for CHF
Ranolazine Dosing Trial-inpt high dose ranolazine trial
TOPCAT-aldactone in diastolic heart failure
CARDIOMEMS-wireless PA sensor for CHF monitoring

Principal Site Investigator- Canada

CARS- low dose ASA and warfarin in ACS, one of the top enrolling sites in North America
ESSENCE- enoxaparin in ACS, one of the top enrolling sites in North America
TRILOGY DR+- St Judes PM trial
PROTECT-perindopril in CAD pts
TIMI 11B- enoxaparin in ACS pts, one of the top enrolling sites in North America
MIRACL ACS- atorvastatin in ACS pts, one of the top enrolling sites in North America

OPUS-TIMI-16-sirofiban in ACS, one of the top enrolling sites in North America

Summary of Clinical Research Trials Participation (1994- present)

RASTAF- Medtronic PM trial
PRINCESS-cerivastatin in ACS
OPUS-Angiographic-sirofiban angiographic sub study
Practice Patterns in Atrial Fib- Canadian atrial fib registry, was part of the steering committee
OVERTURE-omapatrilatvsenalapril in CHF
OCTAVE- omapatrilat in hypertension
Tirofiban Evaluation Study- hospital based comparative trial vseptifibitide
CHARM- candesartan in CHF
MERCURY II- high dose rosouvastatin in CAD pts
INTERACT- enoxaparin in ACS, top enrolling site worldwide
SPORTIF-V-ximelgatrobans warfarin in atrial fibrillation
ADONIS-dronedarone in atrial fibrillation
AF CHF- rate vs rhythm control in CHF pts with atrial fib
OAT- open artery trial

Co-Investigator- Canada

GUSTO – tpavs streptokinase, one of the top enrolling sites in North America
CAMIAT-amiodarone post myocardial infarction
HOPE-ramipril in stable CAD, one of the top enrolling sites in North America
CAPRIE-clopidogrel in atherosclerotic disease, one of the top enrolling sites in North America
C-TOPP-dual vs single chamber pacing, one of the top enrolling sites in North America
GUSTO II &IIb-hirudinvs heparin in ACS
GUSTO III-tpavsretaplastase
ACHIEVE-accupril in CHF
DIG- digoxin in CHF, one of the top enrolling sites in North America
RESOLVD-candesartan in CHF
SPICE-candesartan in CHF
CTAF-anti arrhythmic therapy in atrial fibrillation
CONVINCE-verapamil vsatenolol in CAD
CARDIZEM CD- diltazem effect on exercise tolerance
ACTION-nifedipine XL in CAD pts
ASSENT II-tenecteplasevsalteplase
COPERNICUS-carvedilol in acutely decompensated CHF
CORE-ReothRx infusion in ACS pts
VALIANT-valsartan vs captopril post myocardial infarction
CURE-carvedilol in acute coronary syndromes, one of the top enrolling sites in North America
GUSTO IV-ACS-Reopro in ACS
GUSTO V-retaplastasevsReopro in ACS
HOPE 2- vitamin E vs placebo, one of the top enrolling sites in North America
NICE-3-enoxaparin vsIIbIIIa inhibitors in ACS
PROVE-IT-atorvastatin vs pravastatin in ACS, one of the top enrolling sites in North America
SYNERGY-enoxaparin vsIIbIIIa inhibitors in ACS
ON TARGET-temilsartanvsramipril in CAD

Self designed Research

- have designed and conducted multiple research studies that have focused on access to care, acute coronary syndromes, health outcomes, processes of care, and heart disease in South Asians- PLEASE SEE PUBLICATION LIST FOR FURTHER DETAILS

Summary of Honors, Awards, Grants

(1994 - present)

1996- \$ 4000 Physicians Services Inc.(PSI) Foundation Grant for the Effect of Early Ambulation on Hematoma Formation and Vascular Complications Study

1998- \$ 8000 Bristol-Myers-Squibb Research Grant to evaluate the presentation of Myocardial Infarctions in South Asians versus European Canadians

1999- \$ 12000 Bristol-Myers Squibb Research Grant – continue to evaluate the presentation of Myocardial Infarctions in South Asians versus European Canadians

1999- \$ 12000 Parke-Davis Research Grant – to evaluate the compliance of South Asians versus European Canadians patients with a diagnosis of CAD in the office setting

1999- HCPRA 2nd place award for Excellence in Health Care Communication, Special Purpose Publication-General Category

2000- \$ 12000 Parke-Davis Research Grant – to evaluate the burden of CAD in South Asians vs European Canadians presenting to the cath lab

2000- \$ 12000 Roche Research Grant – to evaluate the presentation of South Asians versus European Canadians patients with CHF in the hospital

2000- \$ 12000 Key-Schering Research Grant – to evaluate the outcomes and compliance of South Asians versus European Canadians patients participating in cardiac rehabilitation

2001- Awarded plaque of recognition for 6 years of contribution to the GTACC organization as the founding chair and then executive committee member

2001- Presented letter of appreciation from the Prime Minister of Canada for volunteer efforts in conjunction with the Canadian Cardiovascular Society

2002- Awarded plaque from CCC advisory group “in appreciation of your guidance and support for the cardiac care of the people in our community”

2002- Awarded plaque from Rouge Valley Health System Foundation acknowledging “outstanding commitment and generosity of donations, time, and leadership” to RVHS Cardiac Care Program

2002- Awarded plaque from RVHS Cardiologists - “ in recognition of outstanding clinical skills and leadership in promoting high quality care” to RVHS

2002- Awarded plaque from Canadian Cardiovascular Society – in appreciation of contributions as Secretary 2000-2002

2007- Awarded plaque from NorthsideHospital – in appreciation of contributions as Section Chair, Cardiology

2010- Awarded \$148,000 investigator-initiated research grant from Gilead Sciences to look at the effect of ranolazine on CAD pts with metabolic syndrome and varying ethnicities

2010- Awarded “Distinguished Service Award” – from American College of Cardiology- GA Chapter for work as CME chair

Summary of Research Publications

(1993 - present)

PEER-REVIEWED ARTICLES

1. **Singh N**, Thomson L, Goldstein MB, Langer A. ST Segment Shift in Hemodialysis Patients. *Journal of Ambulatory Monitoring* 1993;6;155-162.
2. **Singh N**, Langer A, Freeman MR, Goldstein MB. Myocardial Alterations During Hemodialysis; Insights From New Noninvasive Technology . *American Journal of Nephrology*, 1994;14:173-181
3. Langer A, **Singh N**, Freeman MR, Tibshirani R, Armstrong PW. Detection of silent ischemia adds to prognostic value of coronary anatomy and left ventricular function in predicting outcome in patients with unstable angina. *Canadian Journal of Cardiology*, 1995 II:2; 117-122.
4. **Singh N**, Langer A.. Current status of silent myocardial ischemia. *Canadian Journal of Cardiology*, 1995 II: 4; 286-289.
5. **Singh N**, Mironov D, Goodman S, Morgan CD, Langer A. Treatment of silent ischemia in unstable angina: A randomized comparison of sustained-release verapamil versus metoprolol. *Clinical Cardiology*, 1995; 18 : 653-658.
6. **Singh N**, Daly PA, Gemmell CH, Yeo EL. Assessment of platelet activation in unstable angina: Value of microparticle generation measurements using flow cytometry. *Canadian Journal of Cardiology*, 1995; 11 (11): 1015-1021.
7. **Singh N**, Mironov D, Ross AM, Armstrong PW, Langer A. Heart rate variability assessment early after acute myocardial infarction: Pathophysiologic and prognostic correlates. *Circulation* , 1996;93:1388-1395.
8. **Singh N**, Kuganesan K, Goode E, Ricci AJ. on behalf of the Cardiac Care Program. The Effect of Early Ambulation on Hematoma Formation and Vascular Complications Following 7 French Diagnostic Cardiac Catheterization. *Canadian Journal of Cardiology* 1998 ;14(10):1223-1227.
9. **Singh N**, Gupta M, Fell D, Gangbar E. Impact and Inequity of inpatient waiting times for advanced cardiovascular services in community hospitals across the Greater Toronto Area. *Canadian Journal of Cardiology* 1999 ;15(7):777-782.
10. Gupta M, Doobay A , **Singh N**, Raja F, Mawji F, Karvetian A, Anand S, Yusuf S. A comparison of risk factors for and prognosis after acute myocardial infarction in South Asians and European Canadians. *Can Med Assoc Journal* 2002;166(6),717-722
11. Gillis AM, Philippon F, Cassidy MR, **Singh N**, Dorian P, Love BA, Kerr. Guidelines for implantable cardioverter defibrillator follow-up in Canada: A consensus statement of the

- Canadian Working Group on Cardiac Pacing. *Canadian Journal of Cardiology* 2002 ; 19(1):21-28.
12. Ross H, Hendry P, Dipchand A, Giannetti N, Hirsch G, Issac D, **Singh N**, West L, White M. 2001 Canadian Cardiovascular Society Consensus Conference on Cardiac Transplantation. *Canadian Journal of Cardiology* 2003 ; 19(6):620-635.
 13. **Singh N**, Gupta M. Clinical Characteristics of South Asian patients hospitalized with heart failure. *Ethnicity and Disease*. 2005;15(4):615-619
 14. Gupta M, **Singh N**, Verma S. South Asians and Cardiovascular Risk. What Clinicians Should Know. *Circulation* June 27, 2006.
 15. Banerjee A, Gupta M, **Singh N**. Patient Characteristics, Compliance and Exercise Outcomes of South Asians Enrolled in Cardiac Rehabilitation. *J Cardiopulmonary Rehabilitation and Prevention* 2007;27, 212-218.
 16. Abi-Samra FM, **Singh N**, Assi NA, Rosin BL, Dwyer JV, Miller CD for the CLEAR Investigators. Effect of Rate-Adaptive Pacing on Performance and Physiological Parameters during Activities of Daily Living: Results from the CLEAR (Cyclos Responds with Physiological Rate Changes during Daily Activities) Study *Journal of the American College of Cardiology* 2011 (submitted)

PUBLISHED ABSTRACTS

1. **Singh N**, Thomson L, Goldstein MB, Langer A. Detection of ST Segment Shift in Hemodialysis Patients; A Possible Link to High Cardiovascular Mortality in End-Stage Renal Disease. *Journal of the American College of Cardiology* 1992;19(3): 390A
2. **Singh N**, Langer A, Hsia T, Thomson L, Goldstein MB, Freeman MR. On- Line Assessment of Left Ventricular Function in End Stage Renal Disease: New Evidence for Myocardial Ischemia During Hemodialysis. *Canadian Journal of Cardiology* 1992;8(Suppl. B): 81B
3. **Singh N**, Langer A, Freeman MR, Goldstein MB. Perfusion Defects in Hemodialysis Patients: Correlation with On- line ST-segment Analysis. *Canadian Journal of Cardiology* 1993; 9(Suppl. E): 127E
4. **Singh N**, Daly PA, Gemell C, Yeo EL . Platelet Activation in Acute Coronary Syndromes: Assessment Using Dual Label Flow Cytometry. *Canadian Journal of Cardiology* 1993; 9(Suppl. E): 74E. *Circulation* 1993; 88 (suppl): I-516
5. **Singh N**, Cox JL, Naylor CD, Brophy J, Langer A. Regional Variations in Resource Utilization and Outcomes Post MI *Canadian Journal of Cardiology* 1994; 10(Suppl. C): 87C.
6. **Singh N**, Cox J, Naylor CD, Brophy J, Armstrong PW, Langer A. Outcomes of Acute MI Presenting at University vs Community Hospitals: The GUSTO Canadian Experience. *Canadian Journal of Cardiology* 1994; 10(Suppl. C): 98C. *Circulation* 1994; 90 (suppl): I-325

7. **Singh N**, Mironov D, Goodman S, Morgan CD, Langer A. Treatment of Silent Ischemia in Unstable Angina: A Randomized Comparison of Isoptin SR Versus Metoprolol. *Canadian Journal of Cardiology* 1994; 10(Suppl. C): 130C.
Journal of the American College of Cardiology 1995;25 Suppl A: 88A
8. **Singh N**, Mironov D, Ross AM, Armstrong PW, Langer A. Heart-Rate Variability During the First 48 Hours Post Infarction: GUSTO Angiographic and Clinical Correlates. *Canadian Journal of Cardiology* 1994; 10(Suppl. C): 111C.
Circulation 1994; 90 (suppl): I-274.
9. **Singh N**, Ricci AJ for the Cardiac Care Committee, Centenary Health Centre. An Integrated Approach to Optimizing Effectiveness of Acute Myocardial Infarction (AMI) Management in the Community. *Clin Invest Med* 1996; 19(4);S7.
10. **Singh N**, Kuganesan K, Goode E, on behalf of the Cardiac Care Program. The Effect of Early Ambulation on Hematoma Formation and Vascular Complications Following 7 French Diagnostic Cardiac Catheterization. *Canadian Journal of Cardiology* 1997; 13 (suppl C):104C.
11. Gupta M, **Singh N**, Gangbar E, Fell D. Inequity of Access to Inpatient Coronary Angiography in Greater Toronto Area (GTA) Community Hospitals
Canadian Journal of Cardiology 1998;14 (suppl F):132F
12. **Singh N**, Gupta M, Gangbar E, Fell D. Impact of In-Patient Waiting Times for Advanced Cardiovascular (CV) Services in Greater Toronto Area (GTA) Community Hospitals
Canadian Journal of Cardiology 1998;14(suppl F):115F
13. Gupta M, **Singh N**, Raja F, Mawji F, Doobay A, Anand S, Yusuf S. A comparison of risk factors for and prognosis after acute myocardial infarction in South Asians and European Canadians.
Canadian Journal of Cardiology 1999;15(suppl D):105D
14. **Singh N**, Gupta M. Physician Resources and Threshold Caps Key Determinants of Prolonged Waits to see Cardiologists in Greater Toronto Area (GTA).
Canadian Journal of Cardiology 1999;15(suppl D):171D
15. **Singh N**, Gupta M. Temporal trends in in-patient waiting times and outcomes for advanced cardiovascular services in Greater Toronto Area (GTA) community hospitals.
Canadian Journal of Cardiology 2000;16(suppl F):148F
16. **Singh N**, Gupta M, Jain A, Halperin D, Borts D. Differences in presentation and 1 yr outcomes in coronary artery disease(CAD) patients of South asian vs European Ethnicity Treated in an Outpatient Cardiology Practice
Journal of the American College of Cardiology 2001;37(suppl D):171D
17. **Singh N**, Gupta M, Biswas T, Nquyen QM, Ali K. Impact on South Asian Ethnicity On Presentation and Outcomes with Hospitalization for Congestive Heart Failure.
Canadian Journal of Cardiology 2001;17(suppl C):60C.
Journal of the American College of Cardiology 2002;39 (suppl A): 193A
18. Gupta M, **Singh N**, Warsi M, Reiter N, Ali K. Canadian South Asians have more Severe Angiographic Coronary Disease than European Canadians Despite having fewer risk factors

Canadian Journal of Cardiology 2001;17(supp C):68C

19. Gupta M, **Singh N**, Canadian Women of South Asians Origin are twice as likely to have Left Main Or 3-Vessel Coronary Disease as Women of European Origin.
Canadian Journal of Cardiology 2001;17(supp C):71C
20. **Singh N**, Gupta M, Janmohamed A, Dorian P. Who needs and Implantable Defibrillator(ICD), Considerable Inconsistency Among Cardiologists Despite National Consensus Guidelines,
Journal of the American College of Cardiology 2002;39 (suppl B): 212B
21. **Singh N**, Gupta M, Ricci AJ, Bopari S, Malik K, Significant Differences in Risk Factors, Compliance, and Exercise Outcomes Identified In South Asian Cardiac Rehabilitation Patients
Canadian Journal of Cardiology 2002;18(supp B):220B
22. **Singh N**, Santa M, Van Crisco L, Significant time delays in transfer for primary PCI versus on-site thrombolysis for STEMI patients in an urban American community hospital.
Canadian Journal of Cardiology 2004;20 (supp D):123D
23. **Singh N**, Prabakaran K, Crisco LV, Baig F, McCallister T. Low level exercise with adenosine infusion improves image quality, symptom tolerance and arrhythmias during nuclear myocardial perfusion studies
Canadian Journal of Cardiology 2005
24. Prabakaran K, **Singh N**. Effect of Low level Exercise with Adenosine on Septal Perfusion in LBBB.
Journal of Nuclear Medicine 2006;47:5 (may suppl) :535P
25. Gupta M, **Singh N**, Teoh H, Yi Q, Strauss M, Tsigoulis M, Verma S, Eikelboom J. Fibrinolytic Function In South Asians And Europeans With Coronary Heart Disease: Insights From The Practice Registry
Canadian Journal of Cardiology 2010
26. Kaleka P, Patel P, Patel R, Balk M, **Singh N**. Office Based Measurement Of Waist And Hip Circumference By Cardiologists Does Not Translate Into Improved Subsequent Measurements Or Reduced Weight
Journal of the American College of Cardiology 2011 (in press)

NOTE: Publication list does not include multiple papers from multicenter clinical trials where authorship was given "...on behalf of the XXXXX Investigators"