

Curriculum Vitae

Name - **Dr. Sarju Ralhan**

Date of Birth - 29 Oct., 1966

Place of Birth - New Delhi

Martial Status - Married

Nationality - Indian

Qualifications - **M.B.B.S.**
- **M.S. *General Surgery***
- **M.Ch *Cardiovascular Thoracic Surgery***

Designation - ***Senior Consultant Cardiac Surgeon***
Hero DMC Heart Institute
Ludhiana
Tagore Nagar
Ludhiana City (India).

Address - C- 30 rajguru nagar
(Present)
Ludhiana
Telephone: (91)-161-2453660 *Residence*
-09876606731 *Mobile*
(91)-0161-2304288 Ext 384 Office
E-mail sarjuralhan@yahoo.com

Languages Spoken: English, Hindi, Gujrati, Punjabi

Educational & Professional Qualifications :

1. Undergraduate Medical Education :

Obtained Undergraduate Medical Education (M.B.B.S.) Including One year compulsory Rotational Internship) from Govt. Medical College, Patiala in the year 1984-1990 with a first class rank.

2. Post-graduate Medical Education:

Ranked 2nd in M.S. (Gen. Surgery) from Maharaja Sayaji Rao Gaekwad University, in the year 1993.

3. Superspecialisation:

M.Ch. Specialization in Cardiovascular & Thoracic Surgery obtained from PGIMER, Chandigarh and ranked first In June 1996.

CLINICAL EXPERIENCE :

During my tenure as a Resident in General Surgery and Cardiovascular & Thoracic Surgery, I have gained clinical experience in these fields at the following institutions during the period mentioned below.

| Position | Institute | Year |
|---|--|--------------------------------|
| Junior Resident <i>Internal Medicine</i> | Govt. Medical College, Patiala | Jan. 1991 to June 1991 |
| Junior Resident <i>General Surgery</i> | SSGH Baroda | June 1991 to July 1993 |
| Senior Resident <i>Cardiothoracic and Vascular Surgery</i> | Escorts Heart Institute And Research Centre New Delhi | Aug. 1993 to Mar. 1994 |
| Senior Resident <i>General Surgery</i> | Govt. Medical college Chandigarh | Mar. 1994 to June 1994 |
| Senior Resident <i>Cardiothoracic and vascular Surgery</i> | P.G.I. Chandigarh | July 1994 to June 1996 |
| Attending Cardiac Surgeon | Tagore Heart care and Research Centre Jalandhar | July 1996 to Aug. 1997 |
| Consultant cardiac Surgeon | BBC Heart Care Jalandhar | Sept.1997 to Sept. 2001 |

| | | |
|----------------------------------|-------------------------------------|-----------------------------|
| Senior Cardiac Surgeon | <i>BBC Heart care Jalandhar</i> | <i>Oct.2001 to dec 2002</i> |
| Senior Consultant surgeon | <i>Hero DMC Heart Institute</i> | <i>Dec 2002 till date</i> |

PROFESSIONAL EXPERIENCE :

General Surgery Experience

In my three years tenure of General Surgery I have done two years of House Surgeon ship & one year of registrar ship at SSGH hospital, Baroda (Gujarat).

As a house surgeon I was involved in management of ward, ward rounds and operating upon minor surgical procedures. As a registrar I held the responsible post of teaching my juniors and general surgery students, operating upon major general surgery ailments and looking after the trauma ward. I performed all common general surgery operations.

During my tenure of general surgery I did one year of rotating house surgeon ship in the clinical faculties of Cardiothoracic & Vascular Surgery, Orthopedics, Plastic Surgery, Trauma and Urology and gained basic experience in these field

Cardiac Surgery Experience:

As a **Junior Resident** in SSGH Hospital, I have assisted more than 150 open heart surgeries either as first or second assistant.

I have been first assistant in 1500 open heart surgeries for CABG; Valve replacements and Congenital heart Surgeries. We are primarily doing total arterial revascularization & I have done more than 400 radial artery, 300 Left Internal Thoracic Artery , 50 Right Internal Thoracic Artery, 2 Endoscopic Internal Thoracic Artery harvesting.

I have been first assistant in **Endo CABG** done for the first time in our hospital here in India. I have been first assistant in **MICAS** (*Minimally Invasive Coronary Artery Surgery*) & valve replacements by *Minimally Invasive Technique*.

As a Consultant and Senior Cardiac Surgeon , I have been doing independent Surgeries more than 5000 cases including valve replacement, CABG, OPCAB (3500),Aortic root replacement & congenital heart disease.

Thoracic Experience

I have assisted in all 200 lung surgeries comprising of lobectomy, pneumonectomy & decortications.

Vascular Experience

In vascular surgery I have assisted about 50 cases and including Aortobiliac, Aortobifemoral, Aorto Aortic; Femoro femoral bypass and Aneurysm surgeries.

TEACHING EXPERIENCE :

1. General Surgery to undergraduate students at SSGH Hospital.
2. Cardiothoracic surgery as registrar at PGIMER, Chandigarh.
3. Cardiothoracic surgery to postgraduate students as registrar at PGIMER, Chandigarh.

FIELDS OF INTEREST :

- OPCAB
- Endo CABG *Endoscopic Bypass Grafting*
- MICAS
- Valve replacement by Minimally Invasive Technique.
- Aortic Surgery (Ascending and descending aorta)
- Endovascular repair of Aorta (TEVAR)

RESEARCH WORK :

- 'Clinico Pathological Correlation of Thyroid Nodule as dissertation for M.S. (General Surgery).
- 'Study of Magnesium Sulphate Infusion as a prophylaxis for ventricular arrhythmias & its role in myocardial preservation for M.Ch. (C.V.T.S).
- EACA Eamino *Caproic / acid* Infusion as a prophylaxis for control of post operative bleeding.
- Haemodynamic changes during beating heart surgery
- Bad ventricle and OPCAB

- Co-investigator in Indo US collaboration in Genomic Trial in Diabetics with Principal Investigator Dr. Dharambir K. Sanghera, PhD, Associate Professor of Human Genetics, Department of Pediatrics, Section of Genetics, University of Oklahoma Health Sciences Center 975 NE 10th, BRC-211B Oklahoma City, OK-73104

Publications:

1. 'Study of Magnesium Sulphate Infusion as a prophylaxis for ventricular arrhythmias & its role in myocardial preservation.
2. EACA Eamino *Caproicacid* Infusion as a prophylaxis for control of post operative bleeding.
3. Role of pulse oximeter in radial artery harvest in Indian Heart Journal.
4. Physiotherapy in cardiac patient Physiotherapy Journal DAV College 1997.
5. S Sanghera DK, Nath S, Ortega L, Gambarelli M, Kim-Howard X, Singh JR, Ralhan SK, Wander GS, Mehra NK, Mulvihill J and Kamboh MI (2008) TCF7L2 polymorphisms are associated with type 2 diabetes susceptibility in Khatri Sikhs from India: genetic variation affects lipid levels. *Ann Hum Genet* 72 (4):499-509. PMID: 18598350
6. Sanghera DK, Ortega L, Han S, Singh, JR, Ralhan SK, Wander GS, Mehra, NK, Nath S and Kamboh MI (2008) Impact of Common Type 2 Diabetes Risk Polymorphisms in Asian Indian Sikhs: *BMC Med Genet* 9: doi: 10.1186/1471-2350-9-59. PMID: 18397358
7. Sanghera, DK, Been L, Ortega L, Wander GS, Mehra, NK, Aston, CE, Mulvihill, JJ and Ralhan SK (2009) Testing the Association of Novel Meta-analysis-derived Diabetes Risk Genes with Type 2 Diabetes and Related Metabolic Traits in Asian Indian Sikhs (2009). *J Hum Genet*: 1–7. PMID: 19247373
8. Sanghera DK, Demirci, Y, Been L, Ortega L, Ralhan SK, Wander GS, Mehra, NK, Singh, JR, Mulvihill, JJ and Kamboh MI (2008) Novel polymorphisms in *PPARG1*, *PPARG2*, and *ADIPOQ* genes increase type 2 diabetes risk in Asian Indian Sikhs. (*under review*)
9. Nath, SK, Been, L, H Deshmukh, Ralhan SK, Wander GS, Mehra, NK, Singh, JR, Mulvihill, JJ and Sanghera, DK (2008) Replication of association between a

common variant near melanocortin-4 receptor gene and obesity-related traits in a Sikh population from Northern India. (*under review*)

10. Dharambir K. Sanghera, Latonya Been, Lyda Ortega, Gurpreet S. Wander, Narinder K Mehra, Christopher E Aston, John J Mulvihill and Sarju Ralhan : Testing the association of novel meta analysis derived diabetes risk genes with type II diabetes and related metabolic traits in Asian Indian Sikhs : Journal of Human Genetics 2009; 0, *J Hum Genet*: 1–7. PMID: 19247373

PRESENTATIONS :

1. 'Study of Magnesium Sulphate Infusion as a prophylaxis for ventricular arrhythmias & its role in myocardial preservation, presented in 42nd Annual Conference of IACTS at New Delhi,
2. EACA *Eamino Caproicacid* Infusion as a prophylaxis for control of post operative bleeding presented in 42nd Annual Conference of IACTS at New Delhi,.
3. Poster presentation of coronary pulmonary artery fistula in 42nd Annual Conference.
4. Endo CABG *Endoscopic Bypass Surgery* read at 50th Annual Conference of Cardiological Society of India held in December 1998, Mumbai.
5. MICAS Minimally Invasive valve replacement.
6. Endo CABG - Press conference held in Chandigarh, June 1998.
7. Heart Disease in Pregnancy Panel discussion on Television presentation, Jalandhar Doordarshan on 30 January, 1999.

CONFERENCES AND WORKSHOPS :

- 8.
1. Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) in Feb'1996 at New Delhi.
2. Indian Association of Cardiovascular & Thoracic Surgeons (IACTS) in Feb' 2003 at Bangalore.
3. First Conference of Cardiological Society of North India at Jalandhar.

4. Annual Conference by American Association of Thoracic Surgery 86th at Pennsylvania Convention Center, Philadelphia, PA
5. Annual Conference by American Association of Thoracic Surgery 87th at Washington DC, USA
6. Annual Conference by American Association of Thoracic Surgery 88th at San diego
7. Annual Conference by American Association of Thoracic Surgery 89th at Boston Massachusetts
8. 7th Current trends in aortic and cardiothoracic Surgery at Houston Texas.
9. 9th Aortic symposium 2008 At New York.
10. As an Observer for Aortic Surgery at Baylor College of Medicine, Division of Cardiotrhoracic Surgery Michael E. DeBakey Department of Surgery, Texas Heart Institute at St. Luke's Episcopal Hospital under Dr. Joseph S. Coselli.
11. Aortic Symposium 2010 at New York City, New York USA
12. 30th Anniversary meeting and scientific sessions at Hilton Chicago