

# Adil Sadiq

Contact :92 KHB colony, 5<sup>th</sup> Block  
Koramangala, Bangalore 560095  
India  
Telephone :91-9900516748  
Email :adil\_s29@hotmail.com

## Current Titles & affiliations

Senior Consultant and Head,  
Department of Cardiothoracic and Vascular surgery,  
Sakra World Hospital, Bangalore, India

## Licensure/ Boards

Karnataka Medical Council, India  
(License no.53632)

Educational Commission for Foreign Medical Graduates certification  
(License no. 0-745-321-0)

Georgia Medical Board: Resident physician  
(License no. 003521)

## Education

**Apr 09- Mar 2012 Emory Univeristy School of Medicine Atlanta, USA**

### **Fellowship: Cardiovascular & Thoracic Surgery**

American Graduate Medical Education accredited three-year specialized training in cardiothoracic surgery with Emory university, a pioneer not only in Off-pump CABGs, but also in transcatheter Aortic valve replacements, Robotic CABGs, and a leader in complex redo-aortic surgery, and surgery for heart failure.

**May-Oct 2010 Children's Hospital Of Atlanta, Egleston Atlanta, USA**

### **Fellowship: Pediatric Congenital Cardiac Surgery**

I have successfully completed a six-month fellowship with the Children's Hospital, Atlanta, rated as one of the top 5 pediatric heart surgical centers in the US for 5 consecutive years. The fellowship concentrated on complex surgical repairs, pediatric heart assist devices and transplantation.

**2004-06 Sree Chitra Tirunal Institute for Medical sciences & Technology Trivandrum, India**

### **Magister Chirurgiae (MCh): Cardiovascular & Thoracic Surgery**

I have successfully completed a three year specialized residency & training in cardiothoracic & vascular surgery from the prestigious Sree Chitra Institute, an institute of National importance, under the Government of India; well known for engineering & developing India's only commercially available prosthetic heart valve and membrane oxygenator.

**Jan 2003 The Royal college of Surgeons Edinburgh, UK**

### **Membership Of the Royal College of Surgeons (Edinburgh) – Part 1**

I have successfully completed section A & B (Part 1) of the MRCS(E) Examination held by The Royal College of Surgeons, Edinburgh

**2000-03      Kasturba Medical College      Manipal, India**

**Master of Surgery (M.S.): General Surgery**

Three years of training in the principles & practices of general surgery, including a year of rotation in the sub-specialties of neurosurgery, plastic surgery, urology, gastroenterology, cardiac surgery & trauma care.

**1993- 98      Bangalore Medical College      Bangalore,India**

**Bachelor of Medicine, Bachelor of Surgery (M.B.B.S.)**

- Completed with an overall first class
- First class with distinction in anatomy, physiology, biochemistry, microbiology, pharmacology, E.N.T. & ophthalmology

**1991-93      St. Joseph's College      Bangalore, India**

**Pre- University Certificate Examination (P.U.C)**

- Overall first class with distinction in all elective subjects
- Rank holder for the college

**Professional Experience**

**Jan'14- Present      Sakra World Hospital      Bangalore, India**

**Senior Consultant Cardiothoracic Surgeon & Head**

Have taken over as head of the department, of a state-of-the art facility, the first joint venture between Toyota & Secom (Japan) and the Kirloskar group with a focus on Minimally invasive cardiac surgeries, complex aortic surgery, Pediatric cardiac surgery, redo cardiac surgeries and VATS.

**Jun'12- Jan'14      Apollo Hospital      Bangalore, India**

Worked as the Senior Consultant on the department of cardiothoracic surgery, performing the entire spectrum of cardiac and thoracic operations, including Minimally invasive valvular surgery and CABG, Off-pump CABG, aortic surgery and pediatric cardiac surgery along with VATS.

**Apr 09- Mar 12      Emory University Hospital      Atlanta, GA**

**Chief Resident / Fellow – Dept. of Cardio-Thoracic Surgery**

Had been appointed Chief resident, Cardio-thoracic surgery, Emory university, from July 2011 to March 2011. Full time surgical fellow concentrating on the operative management of the surgical patient, focusing on the acquisition of new surgical skills as well as the fine-tuning of existing skills. Have performed more than 650 cases over a three-year period as primary surgeon. These

cases spanned the entire spectrum of cardiovascular and thoracic surgery and included off-pump coronary artery bypass grafting, total arterial revascularization, simple & complex heart valve replacement, minimally invasive mitral and aortic valve procedures, complex aortic surgery including root replacements, valve sparing root replacements, stentless valve implantation, ascending aortic & total arch replacements, elephant trunk procedures (stage I & II), repair of thoraco-abdominal aortic aneurysms. Other procedures performed include Ventricular assist device placement (Heart Mate II & Heart Ware), Heart transplantation, Minimally invasive Hybrid revascularization using the DaVinci robotic system. Have extensive experience in redo- cardiac surgery. Have been involved in the trans-catheter delivery of aortic valve both trans-apically and by the trans-femoral route (PARTER trial), and in the off pump apico-aortic conduit operation. Have also acquired skills in Video-Assisted Throacoscopic surgery and have performed a wide variety of general thoracic procedures including lobectomies, segmental resection, and foregut surgery. Have also performed more than 30 lung transplants. Have been actively involved in audit, research, and in the pre- and post-operative patient management. Teaching opportunities have been directed at junior fellows, physician assistants, general surgical residents, and medical students associated with the department of Cardiothoracic surgery.

**Nov10- Feb 11    Veterans Affairs Medical Centre                      Atlanta, USA**

**Chief Resident- Department of Cardiovascular & Thoracic Surgery**

Have performed all surgical procedures as primary surgeon during this four-month tenure, including CABGs, Valve surgery and Aortic surgery. Duties included day-to-day management of the ICU, surgical clinics, operative schedule, relegation of tasks to other team members, and participation in audit.

**May-Oct 2010    Children's Hospital Of Atlanta, Eggleston    Atlanta, USA**

**Fellowship: Pediatric Congenital Cardiac Surgery**

This six-month fellowship with the Children's Hospital concentrated on complex surgical repairs, pediatric heart assist devices and transplantation. During this period I have performed more than 80 procedures as primary surgeon including closure of Ventricular septal defects, repair of AV canal defects, Repair of Tetralogy of Fallot, surgery for Single ventricle physiology-Bidirectional Glenn and modified Fontan procedures, the Ross procedure, pediatric heart transplants and use of extra corporeal membrane oxygenation support. I have performed, in part, procedures like the arterial switch and the Norwood operation. The curriculum included active involvement in interpretation of congenital echocardiographs, surgical decision-making and post-operative care of patients.

**Jan 07 – Apr 09    Sree Chitra Tirunal Institute for                      Trivandrum, India  
Medical sciences & Technology**

**Assistant Professor - Department of Cardiovascular & Thoracic Surgery**

This was a full time post with this Federal government institute and have independently performed over two hundred & fifty cases, including aortic & mitral valve replacements, On-pump Coronary artery bypass grafting, surgery for tetralogy of Fallot, & closure of all varieties of atrial and ventricular septal defects. I have also been trained in endoscopic vein harvesting and closing atrial septal defects via a minimally-invasive approach.

My duties included assessment of new referrals, overseeing the day-to-day post-operative management of the patients, attendance at weekly review meetings and participation in surgical audit. I was actively involved in teaching the resident doctors, nurses and the perfusionists.

**Jan 04 – Dec 06      Sree Chitra Tirunal Institute for      Trivandrum, India  
Medical sciences & Technology**

**Surgical Resident - Department of Cardiovascular & Thoracic Surgery**

Surgical resident as part of post graduate program. Exposed to the entire spectrum of congenital heart disease, adult cardiac surgery, thoracic and vascular surgery. Part of surgical decision making team, actively involved in post-operative management. Have participated in surgical audit. Experience in teaching nursing & perfusion technology students. Involved in animal experiments and testing of indigenously developed ultra-filter.

**Aug 03- Dec 03      Kasturba Medical College      Manipal, India**

**Clinical observer - Department of Cardiovascular & Thoracic Surgery**

This was a clinical post of short-duration till I pursued my masters in cardiac surgery. I was involved with the day-to-day management of patients under supervision of my consultant. I used this period to familiarize myself with the basic surgical principles and practices of cardiovascular & thoracic surgery.

**Aug 2000- Jul 03      Kasturba Medical College      Manipal, India**

**Surgical Resident - Department of General Surgery**

Three year training period with basic surgical skills. I was exposed to all the surgical sub-specialties as part of a rotation program. I was actively involved in teaching under-graduate medical and nursing students. Actively involved in research work, post-operative patient management and surgical audit.

**1998-99      Victoria & Vani Vilas Hospitals      Bangalore, India**

**Resident Intern**

A One-year residency program in Surgery, Medicine, Obstetrics & other sub-specialties. Part of WHO sponsored program to assess and treat blindness in the under-five age group in the villages of Nelmangala, Bangalore district, India.

**Memberships** Life membership with the Karnataka Medical Council, India  
Member of the Indian Medical Council, India  
Life Member of the Indian Medical Association, India  
Life Membership with the Indian Association of Cardiovascular Surgeons  
Member of the Pulmonary Vascular Research Institute, Indian Chapter  
Membership of the American Medical Association ( in process)

**Research Experience** **Clinical Research Unit, Cardiothoracic Surgery**

Emory university Hospital, Atlanta GA  
September 2009

Part of the animal experimental trial evaluating the use of a novel combination device of an endovascular stent graft and an aortic valve (Patent application No: PCT/US2008/054133) for the treatment of Type A Aortic dissections.

**Co-Investigator- CLARINET study**

Sree Chitra Tirunal Institute for Medical Sciences, Trivandrum, India  
Jan 2008

The Clopidogrel to Lower Arterial thrombotic Risk In NEonates and infants Trial (CLARINET) is a multicenter, randomized, controlled trial that will assess efficacy and safety of the presently established dose of clopidogrel 0.2 mg·kg<sup>1</sup>·d<sup>-1</sup> in neonates and infants with cyanotic congenital heart disease palliated with a systemic-to-pulmonary artery shunt.

**Co-Investigator- Hemofilter study**

Sree Chitra Tirunal Institute for Medical Sciences, Trivandrum, India  
December 2007

Actively involved in animal experimental surgery, studying the efficacy of the use of an indigenously developed hemofilter, by the Biomedical Technology wing of the Sree Chitra Tirunal Institute for Medical Sciences, for use with cardiopulmonary bypass in the porcine animal model.

**Member - LVAD study**

Sree Chitra Tirunal Institute for Medical Sciences, Trivandrum, India  
January 2009

Member of the team carrying out animal experiments in pigs, evaluating the safety and efficacy of an indigenously developed Left Ventricular Assist Device by the Biomedical Technology wing of the Sree Chitra Tirunal Institute for Medical Sciences

**Member – CHITRA valve study**

Sree Chitra Tirunal Institute for Medical Sciences, Trivandrum, India  
May 2006- January 2007

Assisted the PI in animal experimental surgery outlining the safety of the new modifications of the existing CHITRA tilting disc heart valve in the sheep model. Subsequent to the results of this study, the improvements in valve design are undergoing clinical trials.

**Awards**

Best Post-graduate research paper award at KASICON 2003, Mysore, India for the paper titled 'Lymphatic mapping of the sentinel lymph node in breast cancer'

Indian National General Surgery Quiz competition, CME 2003, KMC, Manipal, India: second prize

Indian National Cardiothoracic and Vascular Surgery Quiz competition, CTCME 2006, GKNM hospital, Coimbatore, India: second prize

**Miscellaneous Exams**

- **USMLE** : have passed the Step1 CK and step 2 CK of the examination, with scores of the 99<sup>th</sup> centile in both the parts. Have acquired **ECFMG** certification (# 0-745-321-0)
- **IELTS** examination: have secured an overall **8.5** Band score, with individual scores of 9 in speaking, 8.5 each in reading and listening skills and 7 in writing skills.

**Presentations**

- Long-term results after classical repair in patients with Corrected Transposition of Great arteries, Annual national conference of cardiovascular & thoracic surgeons, CTCON 2006, Bangalore; Feb 2006
- Outcomes of trans-annular patching in adults with tetralogy of Fallot. Annual national conference of cardiovascular & thoracic surgeons, CTCON 2006, Bangalore; Feb 2006
- Surgical management of cardiovascular anomalies in PHACES syndrome. Annual national conference of cardiovascular & thoracic surgeons, CTCON 2005, Kochi; Feb 2005
- Seven years experiences with repair of abdominal aortic aneurysm at Sree Chitra Institute. Annual national conference of cardiovascular & thoracic surgeons, CTCON 2005, Kochi; Feb 2005

- Extraction of inferior vena caval tumor extension from renal cell carcinoma without cardiopulmonary bypass. Vascular Society of India annual national conference, VSICON 2005, Trivandrum, India; Oct 2005
- Aneurysms of extra-cranial carotid arteries- The Chitra Experience. Vascular Society of India annual national conference, VSICON 2005, Trivandrum, India; Oct 2005
- Results of TMT after surgical correction of tetralogy in adulthood (poster). Annual national conference of cardiovascular & thoracic surgeons, CTCON 2005, Kochi, India; Feb 2005
- Anomalous origin of LPA from Aorta in tetralogy (poster) Annual national conference of cardiovascular & thoracic surgeons, CTCON 2005, Kochi, India; Feb 2005
- Ten-year follow up of Blaisdells' procedure for critical limb following thrombosed aorto-femoral graft (poster). Vascular Society of India annual national conference, VSICON 2005, Trivandrum, India; Oct 2005
- Lymphatic mapping of the sentinel lymph node in breast cancer. Karnataka state Annual surgical conference, Mysore, India; Feb 2003

## **Conferences**

- Society of Thoracic Surgeons' 48<sup>th</sup> Annual Meeting, Ft. Lauderdale, FL, USA; Jan 2012
- The Ross Summit IV, Atlanta, GA, USA; Sep 2011
- American Association for Thoracic Surgery's 91st Annual Meeting, Philadelphia, PA, USA; May 2011
- Edwards Lifesciences Heart valve summit, Irvine, California; Nov 2010,
- Joint Session of the Denton A. Cooley Cardiovascular Surgical Society, 17th Symposium , and the Michael E. DeBakey International Surgical Society, 18th Congress, Austin, Texas; June 2010
- Annual national conference of cardiovascular & thoracic surgeons, CTCON 2006, Bangalore; Feb 2006
- Vascular Society of India annual national conference, VSICON 2005, Trivandrum; Oct 2005
- Annual national conference of cardiovascular & thoracic surgeons, CTCON 2005, Kochi; Feb 2005
- Karnataka state Annual surgical conference, Mysore; Feb 2003
- Kerala Associations of Surgeons of India conference, Kochi; May 2001

## **Workshops**

- The Ross Summit IV, Atlanta, GA, USA; Sep 2011
- Da Vinci robotic system: Simulation exercises in surgery, Atlanta, GA. June 2011
- '3 F' heart valve implantation. Medtronic, Atlanta, GA. Feb 2011
- Edwards Lifesciences Heart valve summit, Irvine, California; Nov 2010
- Da Vinci robotic system: experimental hands-on training session, , Atlanta, GA. Oct 2010
- Ross summit III- towards a pulmonary autograft renaissance, Atlanta, GA. Sep 2010
- Cryopreserved homografts in cardiac surgery. Cryolife, Atlanta, GA, April 2010
- Use of the Talent™ Thoracic Stent Graft in the Minimally-Invasive Treatment of Aortic dissections. Medtronic , Atlanta, GA. Sep 2009
- Use of the Epicor™ Cardiac Ablation System for the treatment of Atrial Fibrillation. Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India. Sep 2008
- Endoscopic Vein Harvesting- hands-on skills and training. Frontier Lifelines, Chennai, India; May 2007
- Staplers in Cardiovascular & Thoracic surgery, Johnson & Johnson Ethicon institute, Chennai, India; May 2006
- Hands-on training in coronary surgery, Malabar Institute of medical sciences, Calicut, India; Feb 2006
- Ross procedure workshop, Frontier Lifelines, Chennai, India; Dec 2005
- Hands-on Surgical Stapler Workshop, Christian Medical College, Vellore, India; Jan 2003
- Surgical techniques workshop, Kerala state ASI, Kochi, India; May 2001

## **Academic Programs**

- Cardiothoracic Medical Education Program CTCME, GKNM hospital, Coimbatore, India; August 2006
- Continuing Medical Education Program at the annual Cardiothoracic conference CTCON 2006, Bangalore, India; Feb 2006
- Continuing Medical Education Program in Pediatric cardiac surgery, Frontier-lifeline, Chennai, India; Dec 2005

- Continuing Medical Education Program at Vascular Society of India annual conference, Trivandrum, India; Oct 2005
- Continuing Medical Education Program at the annual Cardiothoracic conference CTCON 2005, Kochi, India; Feb 2005
- Cardiothoracic Continuing Medical Education Program at SCTIMST, Trivandrum, India; Jan 2004
- Surgical Continuing Medical Education Program, Kasturba Medical College, Manipal, India; May 2003
- Continuing Medical Education Program at Christian Medical College, Vellore, India; Jan 2003
- S.S.B.A.S.I.C. Continuing Medical Education Program at Bangalore, India; Nov 2002
- S.S.B.A.S.I.C. Continuing Medical Education Program at Bangalore, India; Nov 2001
- Kerala state ASI Continuing Medical Education Program, Kochi, India; May 2001
- St. John's Ambulance's ABC of trauma, Bangalore, India; Dec 1996

## **Bibliography:**

### **Published Peer reviewed research articles**

- Puskas JD, Sadiq A, Vassiliades TA, Kilgo PD, Lattouf OM. Bilateral Internal Thoracic Artery Grafting Is Associated with Significantly Improved Long-Term Survival, Even Among Diabetic Patients. *Ann Thorac Surg* 2012 Sep;94(3):710-5; discussion 715-6 [Original article]
- Sadiq A, Shyamkrishnan KG, Theodore S, *et al.* Long-term functional assessment after correction of Tetralogy of Fallot in adulthood. *Ann Thorac Surg* 2007; 83: 1790-1795. [Original article]
- Sadiq, A. and Mansour, K. A. Esophageal Cancer: Recent advances. *Thoracic Cancer* 2011, 2: 75–83. [ Review Article]
- Bhuyan RR, Sadiq A, Theodore S, *et al.* Outcomes of surgical management of ruptured abdominal aortic aneurysm. *IJTCVS* 2006; 22: 132–136. [Original article]
- Mishra M, Sadiq A, Namboodiri N, Karunakaran J. The Aortic rim recount: embolisation of atrial septal occluder. *Interact CardioVasc Thorac Surg* 2007;6:384-386. [Negative results]
- Gadhinglajkar SV, Sreedhar R, Jacob D, Jayakumar K, Sadiq A, Nagi GS, Skubas NJ, Chaney MA. Retrocardiac sponge-induced hemodynamic instability after cardiac

surgery. *J Cardiothorac Vasc Anesth.* 2009 Feb;23(1):102-9 [ Case conference]

- Mishra M, Sadiq A, Krishnamanohar SR, Neelakandhan K. Scimitar syndrome with anomalous connection of left superior pulmonary vein to left innominate vein. *Interact CardioVasc Thorac Surg* 2005;4:606-608 [Brief communication]
- Gadhinglajkar S, Sreedhar R, Gopalakrishnan SK, Sadiq A, Rao M, Gopal K. A left ventricular-to-right atrial shunt in a patient with a perimembranous ventricular septal defect: role of intraoperative transesophageal echocardiography. *J Cardiothorac Vasc Anesth.* 2009 Oct;23(5):675-8 [ Case report]
- Theodore S, Shyamkrishnan KG, Sadiq A, *et al.* Corrective surgery for Tetralogy of Fallot in a human immunodeficiency virus infected child. *IJTCVS* 2005; 21: 216–217 [Case report]
- Iyer AP, Sadiq A, Nagi GS, Krishnamanohar SR. Pseudo-aneurysm following a modified Blalock- Taussig Shunt : A rare presentation. *IJTCVS* 2007;23 :164-165 [case report]
- Iyer AP, Sadiq A, Prashant K, Krishnamanohar SR. Severe left pulmonary artery stenosis with contralateral pulmonary hypertension. *IJTCVS* [case report] (in print # IJTCVS 11-06)

### **Book Chapters**

- Sadiq A, Halkos M. “Complications of heart valve surgery”. In: *Cardiothoracic Surgery Review*. Eds: Franco KL, Thourani VH. Lippincott Williams & Wilkins
- Sadiq A, Fernandez FG. “Pneumonectomy”. In: *Medical Management of the Surgical Patient - A Textbook of Perioperative Medicine*. 5<sup>th</sup> Edition. Eds: Lubin MF, Smith RB, Dodson TF. Cambridge Univ press [In press]
- Sadiq A, Fernandez FG. “Lobectomy”. In: *Medical Management of the Surgical Patient - A Textbook of Perioperative Medicine*. 5<sup>th</sup> Edition. Eds: Lubin MF, Smith RB, Dodson TF. Cambridge Univ press [In press]

### **Manuscript Reviewer**

- Annals of Thoracic Surgery
- European Journal of Cardio-thoracic Surgery
- Interactive Cardiovascular and Thoracic Surgery

**Personal Data**

**Place & Date of birth**

29<sup>th</sup> May 1975, Bangalore, Karnataka, India

**Marital status**

Married

**Languages**

Besides English can speak, read and write Hindi, Urdu, Kannada & Arabic. Can converse in Malayalam & Tamil  
Medium of instruction throughout has been English

**Passport**

Hold an Indian Passport valid for International travel

**Interests**

Have been an active debater, jammer, elocutionist and a quizzer.  
Poetry enthusiast with work published in an international compilation.  
Interested in sketching and cartooning.  
Nature-lover with interests in trekking.  
Social service; part of 'Nehru Bal Sang', an NGO aiming at the welfare and development of children

## **References**

**1. Robert A. Guyton, M.D.**

Chief, Division of Cardiothoracic Surgery, Department of Surgery  
Director, Cardiothoracic Residency Training Program  
Emory University School of Medicine, Atlanta, Georgia  
The Emory Clinic, Inc.  
1365A Clifton Rd., NE, Suite A2223  
Atlanta, GA 30322  
Phone: 404/778-3836  
Fax: 404/778-5039  
e-mail: rguyton@emory.edu

**2. John D. Puskas, M.D., M.Sc.**

Chief of Cardiac Surgery, Emory University Hospital Midtown,  
550 Peachtree St. NE  
6th floor, Medical Office Tower  
Atlanta, GA 30308-2225  
Phone: 404.686.2513  
Fax: 404.686.4959  
e-mail: jpuskas@emory.edu

**3. Kirk Kanter, M.D., Ph. D.**

Chief, Cardiothoracic Surgery,  
Children's Healthcare of Atlanta at Egleston  
Director, Heart and Lung Transplant Programs,  
Children's Healthcare of Atlanta at Egleston  
1405 Clifton Road, NE  
Atlanta, Georgia 30322  
Phone:404.785.6310  
Fax:404.785,6265  
e-mail: kkanter@emory.edu