

## Dr.N.Madhu Sankar

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### QUALIFICATIONS:

<b>Degree</b>	<b>University</b>	<b>Year</b>
MBBS	Madurai Kamaraj University	1984
M.S.(General Surgery)	Madurai Kamaraj University	1987
Ph.D (Cardiovascular Surgery)	National Research Centre of Surgery, Moscow	1990
Dip.N.B (Cardiothoracic Surgery)	National Board of Examinations	1995

### EXPERIENCE:

<b>Position</b>	<b>Dept.</b>	<b>Institution</b>	<b>Year</b>
Fellow	Cardiothoracic Surgery	National Research Centre of Surgery, Moscow, USSR	1987-1991
Staff Surgeon	Cardiothoracic Surgery	Institute of Cardiovascular Diseases, Madras, India	1992-96 Jan
Clinical Fellow	Cardiopulmonary Transplant Surgery	St.Vincent's Hospital, Sydney, Australia	1996Feb- 97 Jan
Clinical Fellow	Cardiothoracic Surgery	Westmead Hospital, Westmead, Australia	1997Jan-98 Jan
Consultant	Cardiothoracic Surgery	Madras Medical Mission, Chennai	1998Feb-2004Feb
Consultant	Cardiothoracic Surgery	Frontier Lifeline Hospital, Chennai	2004Feb- 2010 Feb
Chief Surgeon	Cardiothoracic Surgery	Global Hospital, Chennai	2010Mar -2012 Aug
Chief Surgeon	Cardiothoracic Surgery	Apollo Hospital, Ayanambakkam	2012Aug-2014 May
Chief Surgeon	Cardiothoracic surgery	Meenakshi Mission Hospital, Madurai	2014 June - Oct 2014
Consultant	Cardiothoracic Surgery	Frontier lifeline Hospital, Chennai	2014 Nov to till date

**MERITS**

1. First prize in the Physiology Prize Examination - 1979.
2. First prize in the Biochemistry Prize Examination -1979.
3. Submitted dissertation on Anatomy of Sclero Corneal Junction to the association of Anatomists, Tamil Nadu, 1980.
4. Submitted dissertation on Anatomy of Lumbo Sacral Junction to the association of Anatomists, Tamil Nadu, 1981.
5. First rank in the University Examination in Pathology - Dec 1981.
6. Dr. P. Vadamalayan Endowment medal - Pathology in Dec 1981 by Madurai Kamaraj University.
7. Dr. C.K.P.Menon Prize in Pathology, Dec 1981, by Madurai Kamaraj University.
8. Second Prize in the Microbiology Prize Examination - 1981.
9. Short term Research Studentship in Microbiology by Indian Council of Medical Research ' Bacteriological Study of Pus ' April - May 1980.
10. Short term Research Studentship in Microbiology by Indian Council of Medical Research 'Serological grouping of Streptococci'. April - May 1981.
11. Second in the University Examination in Ophthalmology - Dec 1981.
12. First in the University Examination in Forensic Medicine - 1981.
13. First in the University Examination in Social and Preventive Medicine - April 1982.
14. First in the University Examination in Medicine - Dec 1982.
15. Second in the University Examination in Surgery - Dec 1982.
16. Second rank in Madurai Kamaraj University at the Final M.B.B.S Degree Examination Dec - 1982.

## PUBLICATIONS

### *INTERNATIONAL JOURNALS.*

1. Yu. V.Tarichko, N.Madhu Sankar: Rupture of Posterior Wall of Left Ventricle after mitral valve replacement. *J Cardiovasc Surg.* 32: 265-267, 1991.
2. Petrovski P.V. ,Yu.V.Belov, M.N.Selesnev, Yu.V.Kochkin, A.P.Gens, N.Madhu Sankar. Repeat resection of cardiac aneurysm with plication of aneurysm of interventricular septum and aortocoronary bypass.*Khirurgia (in Russian)* 9: 135-136, 1989.
3. Madhu Sankar N., Premanand Ponothe, Shivaprakash K, Jacob JBK, Bashi V.V. , Cherian K.M. Combined mitral valve replacement and pericardiectomy in a patient with mitral regurgitation and constrictive pericarditis. *Asian Cardiovasc Thorac Ann.* 1994: 2; 109-110.
4. Sarasa Bharathi A, Madhu Sankar N., Cherian K.M. ; Osseous metaplasia with functioning marrow in a calcified aortic valve. (Letter to the editor). *J Card Surg*1995; 10: 608-612.
5. Premanand Ponothe, Bashi V.V, Madhu Sankar N, Cherian T.J, Cherian K.M; Congenital esophagobronchial fistula in an adult - a case report. *Asian Cardiovasc Thorac Ann* 1995; 3: 78-80.
6. Das S.K, Madhu Sankar N, Satyaprasad V, Bashi V.V, Cherian K.M; Experience with bilateral internal mammary artery graft for myocardial revascularisation in Asian patients. *Asian Cardiovasc Thorac Ann*1995; 3: 123-127.
7. Madhu Sankar N, V.Satyaprasad, S.Rajan, V.V.Bashi and K.M.Cherian. Extensive endarterectomy, onlay patch and internal mammary bypass of the left anterior descending artery. *J Card Surg*1996; 11: 56-60.
8. Cherian K.M, H.S.Pannu, N.Madhu Sankar, S.K.Agarwal. Sunil Basavaraj, S.G.Rao, S.Rajan, V.S.Prasad, R.K.Kalyan Singh; Thoracotomy approach for congenital and acquired heart defects; its possible applications in the current era. *J Card Surg* 1996; 11: 37-45.
9. Madhu Sankar N, Munene J, Arumugam S.B, Bashi V.V, Cherian K.M; Benign carotid body tumor presenting with Horner's syndrome. A case report. *Texas Heart Journal*1996; 23: 2; 180-183.
10. Madhu Sankar N, Subtaweessin T, Horton M, Farnsworth A E : Successful repair of delayed rupture of left ventricle after valve surgery. *Asian Cardiovasc Thorac Annals.* 1997 :5; 174 -176.
11. Madhu Sankar N, Thiruchelvam T, Thirunavukkarasu K, Ki Pang, W Meldrum Hanna. Symptomatic Lipoma in the Right Atrial Free Wall : A case report. *Texas Heart Journal.*1998; 25 : 152 -154.
12. Madhu Sankar N, Lai K, Harrison K, Klineberg P, Meldrum Hanna W : Intraoperative dissection of aorta and successful repair. *Asian Cardiovasc Thorac Annals.* 1998 : 6; 66-67.

13. Madhu Sankar N, Pang K S, Thiruchelvam T, Meldrum Hanna W G: Metastasis from atypical fibroxanthoma of skin. ( Letter to the Editor ). *The Med J Australia*. 1998 :168; 418 -419.
14. Madhu Sankar N, A.E.Farnsworth : Left Atrial Reduction for Chronic Atrial Fibrillation Associated with Mitral Valve Disease. *The Ann Thorac Surg*66: 254 -256, 1998.
15. Cherian K M, Ravi Agarwal, N.Madhu Sankar: Transmyocardial Laser Revascularisation. Chapter in *Advances in Cardiac Surgery, vol 11, 55 -68, 1999, Mosby , Inc., USA*
16. Madhu Sankar N, MK Odayan, M Morris, H Paterson, W Meldrum Hanna : Cardiac Valvular Papillary Fibroelastoma : A Report of 2 cases. *Texas Heart Journal* 26 (4): 298-9, 1999.
17. Madhu Sankar N, S Rajan, R K Kalyan Singh, K M Cherian : Enlargement of small aortic annulus by modified Manoguian's technique. *Asian Cardiovasc Thorac Annals*. 1999 :7; 282-6.
18. Pankaj Goel, Madhu Sankar N, Rajan S, KM Cherian : Use of direct laryngoscope for better exposure in minimally invasive saphenous vein harvesting. *Eur J Cardiothorac Surg* 2000 ; 17: 182 - 183.
19. Ravi Agarwal, Madhu Sankar N, Mullaseri Ajit, K M Cherian : TMR and CABG: the best way to obtain a complete and a more lasting revascularisation ? (Reply). *Ann Thorac Surg* 2000;69: 1995.
20. Pankaj Goel, Madhu Sankar N, Rajan S, K M Cherian : Biatrial approach for bicameral myxoma with mitral regurgitation. *Asian Cardiovasc Thorac Ann*. 2000;8 : 166- 8.
21. Ravi Agarwal, Madhu Sankar N, Rajan S, Kalyan Singh RK, K M Cherian : Aortic Valve Replacement with Continuous Suture. *Asian Cardiovasc Thorac Ann*. 2000;8 : 189 - 91.
22. Cherian SM, Bobryshev YV, Liang H, N Madhu Sankar, Inder SJ, Wang AY, Lord RS, Cherian KM. Ultrastructural and immunohistochemical analysis of early myocardial changes following transmyocardial revascularisation. *J Card Surg* 2000 ;15(5):341-6.
23. Goel P, Madhu Sankar N, Rajan S, K M Cherian: Coarctation of the aorta, Aortic valvar stenosis, and supraavalvar aortic stenosis with left coronary ostial stenosis: Management using a staged hybrid approach. *Pediatric Cardiology*22:83-84, 2001.
24. Cherian KM, Mullasari Ajit, and N Madhu Sankar. The role of endarterectomy and TMR in diffuse coronary artery disease. (letter to Editor) *Ann Thorac Surg* 2001:72:977.
25. Shah S, N Madhu Sankar, Cherian KM. Left atrial reduction and mitral valve replacement in a 5 year old girl with severe mitral regurgitation and giant left atrium. *Pediatric Cardiology*2001; 22(5):417-8.
26. Cherian SM, Keshavamurthy S, Madhu Sankar N, Kurian VM, Sivaraman A, Verghese S, Cherian KM. Invasive pulmonary aspergillosis with intraspinal extension in a non immunocompromised host. A case report. *J Cardiovasc Surg*2002:43; 291

27. Faizal A, Madhu Sankar N, Murthy KS and Cherian KM. Right pulmonary artery to left atrial fistula. *Asian Cardiovasc Thorac Ann* 2002;10: 80 – 2.
28. Mwambu TP, Cherian VK, Madhu Sankar N, Sumithran G, Coelho R, Snehal K and Cherian KM. Reimplantation of the two coronary ostia as a single button in Ross procedure. *J Heart Valve Disease* 2002; 11: 624 –626.
29. Madhu Sankar N, Keshavamurthy S, Agarwal R, KM Cherian. Pulmonary vein isolation and left atrial reduction for chronic atrial fibrillation secondary to mitral valve disease. (letter to Editor) *Ann Thorac Surg* 2003; 75: 1680.
30. Cherian SM., Varghese R., Madhu Sankar N., Barbero Marcial M., Cherian K.M. De Vega's tricuspid annuloplasty for Ebstein's anomaly. *The Journal of Cardiovascular Surgery* 2003; Vol 44 (2) :213-4.
31. Keshavamurthy S., Kurian VM, Madhu Sankar N., Joseph PK, Cherian KM. Repair of tuberculous aneurysm of distal aortic arch. *Asian cardiovasc Thorac Ann* 2003;11; 346-348.
32. Manmohan, , Madhu Sankar N., Prasanth Shah, Joseph PK, Cherian KM. Allograft Aortic Valve Replacement in Patients with contra indication for Anticoagulation.. *J Cardiovasc Dis Ann* 2004;2(1); 27-29.
33. Murala JSK, N Madhu Sankar, Ravi Agarwal, Prasad GN, Pradeep Nair, KM Cherian. Anomalous origin of left coronary artery from pulmonary artery in adults. *Asian Cardiovasc Thorac Ann* 2006;14: 38 -42.
34. Karthik R Vaidyanathan, Thyagarajamurthy S. Jagannath.B.R., Ganapathy.S.K. Madhu Sankar.N, Cherian S.M. K.M.Cherian. Lower extremity compartment Syndrome after off-pump aorta coronary bypass. *J Thorac Cardiovascular Surg* 2006; 131:1173-4.
35. Karthik R Vaidyanathan, Jagannath B.R., Thyagarajamurthy S., Madhu Sankar.N., Joy M Thomas, Alagu M and K.M.Cherian. Rapidly progressive coronary ostial stenosis after aortic valve replacement in relapsing chondritis. *J Thorac Cardiovasc Surg* 2006; 131:1395-1396.
36. Madhu Sankar N, Karthik R Vaidyanathan, G N Prasad and K.M.Cherian. Left atrial myxoma presenting as acute inferior wall infarction. *J Card Surg* 2006; 21 478 -480.
37. Theodore S, Madhu Sankar N, Jagannath BR, K M Cherian. Importance of ostial coronary stenosis in non infectious aortitis. (Letter to the Editor ) *Asian Cardiovasc Thorac Ann* 2007; 15: 82.
38. Karthik R V, Sanjay AC T, N Madhu Sankar, K M Cherian. Coronary artery to pulmonary artery fistula with dual origin – embryological, clinical and surgical significance. *Eur J Cardiothoracic Surg* 2007; 31: 318-9.
39. Karthik R V, Sanjay AC T, N Madhu Sankar, K M Cherian. Simple Wiring For Sternal Fracture. (Letter to the Editor ) *Asian Cardiovasc Thorac Ann* 2007; 15: 182.

40. Madhu Sankar N. Karthik R V, Sridhar KS, Srivathsava PK, K M Cherian. Emergency combined right atrial and pulmonary thromboembolectomy. *Chirurgia* 2007;20:93 – 95.
41. Sanjay Theodore, Karthik R Vaidyanathan, Jagannath B.R., Madhu Sankar.N., Jai Shankar K and K.M.Cherian. Takayasu's Arteritis Mimicking Acute Aortic Dissection. *Ann Thorac Surg* 2007; 83:1876 – 1878.
42. Karthik RV, Agarwal R, Madhu Sankar N and K M Cherian. Ascending aortic pseudoaneurysm following open heart surgery – Images in cardio thoracic surgery. *Eur J Cardiothoracic Surg* 2008; 33:739.
43. Karthik RV, N Madhu Sankar and K M Cherian. Endoscopic vs Conventional Vein Harvesting: a prospective analysis. *Asian Cardiovasc Thorac Ann* 2008;16: 134 -138.
44. Karthik RV,Rajesh V, N Madhu Sankar and KM Cherian . Endomyocardial Fibrosis in an adult mimicking left ventricular mass . *Ann Thorac Surg* 2008; 86:1004 – 1006.
45. Karthik Vaidyanathan, Ravi Agarwal, Anto Sahayaraj, N.Madhu Sankar, Cherian KM . Endomyocardial fibrosis mimicking Ebstein's anomaly . *Tex Heart Inst J.* 2009; 36(3):250-1.
46. Rajesh Venkatraman, Karthik Vaidyanathan, Madhu Sankar N, Cherian KM. Late Dissection of Pulmonary autograft treated by valve sparing aortic root replacement. *J Card Surg.* 2009 Jul-Aug; 24(4):443-5.
47. Soma Guhathakurta, Usha R S, Balasundari R, Das CK, Madhu Sankar N and KM Cherian. Stem cell experiments and initial results of cellular cardiomyoplasty. *Asian Cardiovasc Thorac Ann* 2009;17:581 -6.
48. Karthik Vaidyanathan, Madhu Sankar.N, Cherian KM Double barrel reconstruction of the right ventricular outflow tract. *J Card Surg* 2010;25 :235.
49. Raja saravanan E, Kirtivasan V, Madhu Sankar. N, Govini Balasubramaniam, Susan George. Aneurysm of Sinus of Valsalva : Uncommon presentation. *Asian cardiovasc Thorac Ann* 2011;19.422-426.
50. Raja saravanan E, Kirtivasan V, Madhu Sankar. N, Karthik V Govini Balasubramaniam, Susan George. Concomitant aortoplasty with septal myectomy for supra valvar aortic stenosis in an adult. *World Journal of Cardiovascular surgery.* 2012;2;5-6.
51. Raja saravanan E, Kirtivasan V, Madhu Sankar. N, Govini Balasubramaniam. Left main disease associated with an anomalous left anterior descending artery. *J Card Surg.* 2012 .27:170-173.
52. Vaidyanathan K and N Madhu Sankar. How to reduce learning curve of Endoscopic vein harvesting. (letter to Editor) *Ann Thorac Surg* 2013;95:382 –383.
53. Kesavamurthy S, N Madhu Sankar. and K M Cherian. Extensive left anterior descending artery endarterectomy and reconstruction. (letter to Editor) *J Thorac Cardiovasc Surg* 2013; 145:314.

54. Raja Saravanan E, Madhu Sankar. N, Kirtivasan V, Ganesh S, Govini Balasubramaniam. Congenital complete heart block in Klippel Feil syndrome. presentation. *Asian cardiovasc Thorac Ann* 2011;21:199-201.
55. Kesavamurthy S, N Madhu Sankar, and K M Cherian. Extensive endarterectomy, onlay patch and internal mammary bypass of the left anterior descending artery. (letter to Editor) *Ann Thorac Surg* 2013; 95:1136.
56. Madhu Sankar N, Kumar S, Natarajan S et al. Intralobar sequestration with situs inversus totalis. *Asian Cardiovascular and Thorac Ann* 2015;23(6):729-731.
57. Venkataraman R, Vaidyanathan K and Madhu Sankar N. Aorto-right atrial tunnel: imaging and correlation. (Images In Cardio-Thoracic Surgery) *European J of Cardio-Thorac Surg* 2015 ;47:390.
58. Srimurugan.B, Madhu Sankar N, Ramanan S et al. Use of Indigenous Decellularized Valved Xenograft Conduit for Double-Barrel Right Ventricular Outflow Tract Reconstruction. Nine-Year Follow-Up. [World J Pediatr Congenit Heart Surg.](#) 2016 Jul;7(4):520-2.
59. Madhu Sankar N, Salla Sweta Ramani, Rajaram Anantharaman and Kotturathu Mammen Cherian. MitraClip and mitral annuloplasty device as a bridge to transplantation. *Asian Cardiovasc and Thorac Ann* 2017;26(1):57-59.
60. Balaji Srimurugan, Matthias Sigler, Madhu Sankar N and Kotturathu Mammen Cherian. In-stent restenosis: surgical and histopathological perspective. *Asian Cardiovasc and Thorac Ann* 2018;26(2): 114-119.

#### **NATIONAL JOURNALS**

1. Madhu Sankar N, Ganesan, Ganapathy Sundaram: Serological grouping of streptococci. *The Clinician*47; 7: 1983.
2. Madhu Sankar N, G. A. Pillai, Yu. V. Kochkin, Yu. V. Belov: Postinfarction left ventricular aneurysmectomy in an young man - A case report. *Indian Heart Journal*42; 2: 129-130:1990.
3. Yu. V. Belov, Madhu Sankar N. Use of autologous pericardium for repair of left ventricular aneurysms. *Indian Journal of Thorac Cardiovasc Surg.* 1989-1990; 6: 37-39.
4. Svirschevski EB, A.A.Martinov, S.V.Yusova, N.Madhu Sankar, A.A.Kirchenko and S.K.Smirnov: Assessment of myocardial perfusion using thallium scintigraphy in patients with ischemic heart disease after coronary artery bypass grafting. *Indian Journal of Thorac Cardiovasc Surg.* 1991; 7(2); 55-58.

5. B.A.Konstantinov, Yu. V.Tarichko, I.I.Shevelev, V.E.Yakovlev, N.Madhu Sankar: Mitral valve replacement preserving the posterior leaflet and its subvalvular structures. *Indian Journal of Thorac Cardiovasc Surg.* 1991;7(1): 33-35.
6. Premanand Ponoth, N.Madhu Sankar, S.Rajan, Punitha Swami, Satyaprasad, V.V.Bashi, R.Venugopal and K.M.Chерian; Efficacy and usefulness of retrograde cardioplegia. *Indian Journal of Extracorporeal Technology.* 1993;4(1):14-18.
7. N.Madhu Sankar, Premanand Ponoth , Aju Jacob, R.Venugopal, V.V.Bashi, K.M.Chерian; Myocardial revascularisation combined with aortic and mitral valve replacement. *Indian Journal of Extracorporeal Technology* 1993; 4(1): 26-29.
8. Madhu Sankar N, K.M.Chерian: Surgical management of mechanical complications of acute myocardial infarction. *Bulletin of the Cardiological Society of India, Madras, chapter, vol 1, no1, 1993.*
9. Madhu Sankar N., Premanand Ponoth, Rajan S., Chерian K.M.: Reoperation for residual defects following intracardiac repair for Tetralogy of Fallot. *Indian Journal of Thorac and Cardiovasc Surg.*1994: 10(1); 57-60.
10. Madhu Sankar N. , Nahar R. , Rajan S. , Agarwal S. , Venugopal R. , Bashi V.V. and Chерian K.M. : Aortic valve replacement with allograft in a patient with bleeding esophageal varices. *Indian Journal of Extracorporeal Technology.* 1994; 5: 1; 17-19.
11. Premanand Ponoth, N.Madhu Sankar, R.Nahar, R.Venugopal, S.Rajan, Satyaprasad, V.V.Bashi, and K.M.Chерian: Effect of extracorporeal circulation using centrifugal / roller pump. A comparative analysis. *The Indian Journal of Extracorporeal Technology.* 1994; 5: 30-35.
12. V.S.Prasad, N.Madhu Sankar, S.B.Arumugam, R.K.Kalyansingh, K.M.Chерian: Transmyocardial Laser revascularisation. A new concept in the treatment of coronary artery disease. *Indian Heart Journal.*1995; 47: 49-51.
13. Madhu Sankar N, Premanand Ponoth, VV Bashi, KM Chерian : Early results of combined valve replacement and coronary revascularisation. *Ind J Thorac Cardiovasc Surg* 1995:11;32-37.
14. Madhu Sankar N, Rajendra Nahar, S.Basavaraj, VV Bashi, KM Chерian: Intralobar sequestration presenting as a coin lesion in an adult. *Ind J Thorac Cardiovasc Surg* 1995:11;57- 59.
15. Chерian KM, N.Madhu Sankar: Cardiac transplantation in developing countries. *Cardiology Today* 1999; 4:171-177.
16. Madhu Sankar N, AR Baruah, Benjamin Ninan, S Rajan, KM Chерian. Batista procedure as a bridge to cardiac transplantation. *Indian Heart J.* 2001; 53: 93 - 94.
17. Madhu Sankar N, Pankaj Goel, Hemant Agarwal, Sharda Srinivas. Ross procedure in an infant. *Indian Heart J*2001; 53:346 –7.



18. Madhu Sankar N, V M Kurian, S Rajan, Benjamin Ninan, Mullasari Ajit, K M Cherian. Heart Lung Transplantation in India : Initial experience. *Indian Heart J*.2003;55:185-187.
19. Madhu Sankar N, K M Cherian . Current status of heart transplant in India. Chapter in *API Postgraduate Medicine*, Vol 17, 572 –580,2003.
20. Kanagarajan N, N. Madhu Sankar, Benjamin Ninan, K.M.Cherian. Anaesthetic management and preservation of donor heart lung for transplantation. *Indian J, Anaesth*, 2004; 48(2): 142 – 144.
21. Prasad, GN, Ramasamy S, Joy Thomas, P G Nair, N.Madhu Sankar,N Sivakadaksham and K M Cherian. Enhanced External Counterpulsation Therapy : Current evidence for clinical practice and who will benefit. *Indian Heart J*. 2010;62:296-302.
22. Betigeri A.M. Madhu Sankar N, K.M.Cherian. Isolated left ventricular noncompaction : a rare indication of heart transplantation in an young girl. *Indian J transplant* 2009;1; 13 – 16.
23. Raja Saravanan E, Madhu Sankar. N, Ganesh Somasundaram, Kirtivasan V, Rajesh Venkatraman,,Vijil Ragulan. Single lung Transplantation in India - Initial experience. *Indian J Chest Dis Allied Sci*2013;55:101-103.
24. Madhu Sankar N, Yogesh Jawale, Sweta Ramani, Subbaiyan Kumar. Giant papillary fibroelastoma of the left atrium—a case report. *Indian J Thorac Cardiovasc Surg* 2015;31(3):263–265.
25. Madhu Sankar N , Sweta Ramani , Haritha Parikisetty, Aarimuthu Swamy, Ajeet A Kumar, K M Cherian. Rescue Pulmonary Thromboembolism In A Case Of Aborted Thrombolytic Therapy. *Indian J Thorac Cardiovasc Surg* (2016) 32: 142.
26. Madhu Sankar N, Salla SR, Aarimuthu Swamy, Desai P, KM Cherian. Mitral valve replacement and coronary artery bypass grafting in a patient with a destroyed lung. *Indian J Thorac Cardiovasc Surg* (2016) 32: 194.
27. Madhu Sankar N, Salla Sweta Ramani, Kirthivasan Vaidyanathan K, ,Kotturathu Mammen Cherian. Anaesthetic and perioperative management of lungtransplantation. *Indian J of Anaesth* 2017;61(2): 173-5.
28. N Madhu Sankar, Salla Sweta Ramani and Rajaram Anantharaman. Coronary artery disease in women - A Letter to the editor. *Indian heart J* 2017;69(6):807-8.

## ABSTRACT ISSUES

1. N.Madhu Sankar, Yu.V.Belov: Diagnosis of septal involvement in postinfarction left ventricular aneurysms. *J Cardiovasc Surg(abstract)* 31:4 (supplement) 26, 1990.

2. Yu.V.Belov, N.Madhu Sankar: Revascularisation of LAD artery in patients undergoing left ventricular aneurysmectomy. *J Cardiovasc Surg(abstract) 31:4 (supplement) 3, 1990.*
3. Yu.V.Belov, N.Madhu Sankar: Septal reconstruction during postinfarction left ventricular aneurysmectomy. *Indian Heart Journal (abstract) 41:318; 1989.*
4. Yu.V.Belov, B.V.Shabalkin, N.Madhu Sankar: Reconstruction and revascularisation of interventricular septum in patients undergoing left ventricular aneurysmectomy. In: *International Congress of Cardiovascular and Thoracic Surgery, 1990.by Baltic Society of Thoracic and Cardiovascular Surgery, p 44.*
5. Madhu Sankar N, Yu.V.Belov: Resection of left ventricular aneurysms with multiple coronary artery bypass grafting. In: *Diagnosis and treatment of cardiovascular diseases. Ed. by Bakulev Institute of Cardiovascular Surgery (in Russian) Moscow, p 60, 1990.*
6. Madhu Sankar N, Yu.V.Belov: Diagnosis of septal involvement in postinfarction cardiac aneurysms. In: *Diagnosis and treatment of cardiovascular diseases. Ed.by Bakulev Institute of Cardiovascular Surgery (in Russian) Moscow, p 61. 1990.*
7. Yu.V.Belov, N.Madhu Sankar: Current trends in the management of left ventricular aneurysms. In: *Abstract book of fourth annual conference of the Association of Thoracic and Cardiovascular Surgeons of India jointly with Second World conference on Open Heart Surgery, p 53-54, 1991.*
8. B.V.Shabalkin, I.V.Zschbanov, N.Madhu Sankar: Recurrence of angina pectoris after coronary artery bypass grafting. In: *Abstract book of fourth annual conference of the Association of Thoracic and Cardiovascular Surgeons of India jointly with Second World Conference on Open Heart Surgery, p 62-63, 1991.*
9. B.A.Konstantinov, Yu.V.Tarichko, N.Madhu Sankar; Cardiac Valves Plastic Surgery , *Indian Heart Journal (abstract) 41: 320, 1989.*
10. B.A.Konstantinov, Yu.V.Tarichko,I.I.Shevelev, V.F.Yakovlev, Madhu Sankar N : Mitral valve replacement with disc type prosthesis with preservation of subvalvular structures in patients with mitral valve incompetence. In: *I International Congress of Cardiovascular and Thoracic Surgery, 1990. Ed. by Baltic Society of Thoracic and Cardiovascular Surgery, p61.*
11. Yu.V.Belov, N.Madhu Sankar: Surgical management of patients with combined lesions of coronary, cerebral and lower limb vessels. *Indian Heart Journal (abstract) 41: 319,1989.*
12. Yu.V.Belov, Kosenkov A.N, Gavrilenko AV, Bayandin N.L, Madhu Sankar N: Late long term results of reconstructive procedures on renal arteries in patients with renovascular hypertension. In: *I International Congress of Cardiovascular Thoracic Surgery, 1990. Ed. by Baltic Society of Thoracic and Cardiovascular Surgery, p 114.*
13. Cherian K.M, Madhu Sankar N, Bashi V.V,Satyaprasad V: Experience with coronary artery disease in Asian population. In : *Abstract book of 11th Biennial Asian Congress of Thoracic and Cardiovascular Surgery , p172 ,1993.*

14. Cherian K.M, Rao S.G, Rajan S, Madhu Sankar N, Shivaprakash K: Current status of pediatric cardiac surgery in India. *In : Abstract book of 11th Biennial Asian Congress of Thoracic and Cardiovascular Surgery. p 300, 1993.*
15. Madhu Sankar N, P.K.Asokan, S.M.Agarwal, K.M.Cherien :A study of ECG changes after coronary artery bypass grafting. *Indian Heart Journal (abstract) 45(5):218; 1993.*
16. Madhu Sankar N, V.V.Bashi, K.M.Cherien : Coronary endarterectomy and bypass grafting for diffuse coronary artery disease. *Indian Heart Journal (abstract) 45 (5): 134, 1993.*
17. Madhu Sankar N, S.Rajan, S.M.Agarwal, K.M.Cherien : Results of combined valve replacement and myocardial revascularisation. *Indian Heart Journal (abstract) 45 (5): 135, 1993.*
18. Premanand Ponoth, Madhu Sankar N, Prasad S, Bashi V.V, Cherian K.M : Surgical management of mechanical complications of acute myocardial infarction. *In: Abstract book of 40th Annual Conference - Indian Association of Cardiovascular and Thoracic Surgeons. p 14,1994.*
19. Madhu Sankar N, Premanand Ponoth, V.V.Bashi, K.M.Cherien : Experience with endarterectomy of the left anterior descending artery - A report of 125 cases. *In : Abstract book of 40th Annual Conference - Indian Association of Cardiovascular and Thoracic Surgeons. p 15, 1994.*
20. Madhu Sankar N, S.Rajan, V.V.Bashi, K.M.Cherien : Coronary endarterectomy and bypass grafting for diffuse coronary artery disease : *Abstract book of 40th Annual Conference - Indian Association of Cardiovascular and Thoracic Surgeons. p 15, 1994.*
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172. Salla Sweta Ramani, N Madhu Sankar, Shabana Shabnam , Ajeet A. Kumar and K M Cherian. Double Valve replacement – comparison of bioprosthetic valves with mechanical valves. *Indian J Thorac Cardiovasc Surg* 2018;34(2):324.

#### **INTERNATIONAL CONFERENCES ATTENDED WITH PAPER PRESENTATION**

1. International Congress of Cardiovascular and Thoracic Surgery - Baltic Society of Thoracic and Cardiovascular Surgery, Riga, USSR, 1990.
2. Small Aortic Root - Conference organised by ESC working group on Valvular Heart Diseases and Cardiac Surgery, 7 -9 December, 1995 at the Royal Society of Medicine, London.
3. 13th Biennial Asian Congress on Thoracic and Cardiovascular Surgery, 12 - 15 Oct 1997, Sydney, Australia.



4. 14th Biennial Asian Congress on Thoracic and Cardiovascular Surgery, 1 - 5th Dec 1999, Lahore, Pakistan.
5. Delivered a lecture on Heart Lung Transplantation: what we have achieved in Asia in the 8th Annual meeting of the Asian Society for Cardiovascular Surgery, held in Fukuoka, Japan from 6 - 8 September, 2000.
6. Presented 2 papers at the Third Biennial International conference of Pakistan Society Cardiovascular and Thoracic Surgeons at Peshawar, Pakistan during November 2000
7. Presented 2 posters at the 5<sup>th</sup> International Congress on Lung transplantation held in Paris, France September 19 – 20, 2002.
8. Attended the 16<sup>th</sup> Biennial Congress of Association of Thoracic and Cardiovascular Surgeons of Asia held in Bangkok, Thailand, Nov 2003.
9. Presented 2 papers at the 59<sup>th</sup> Annual scientific meeting of Japanese Association of Thoracic Surgery held in Tokyo, Japan, Oct 1- 4,2006.
10. Attended the International Conference on Stem cell Therapy for the failing Heart held in Bangkok, Thailand, Dec 1-3, 2006.
11. Attended the American Association of Thoracic Surgeons Annual meeting held in San Francisco, USA, May 2012.
12. Attended the 28<sup>th</sup> Annual Conference of European Association of Cardiothoracic Surgeons held in Milan ,Italy,October 2014.
13. Attended the 30<sup>th</sup> Annual Conference of European Association of Cardiothoracic Surgeons held in Barcelona , Spain, October 2016.
14. Attended the 30<sup>th</sup> Annual Conference of International Society of Heart and Lung Transplantation held in San Diego , USA , April 2017.
15. Attended the 30<sup>th</sup> Annual Conference of International Society of Heart and Lung Transplantation held in Nice, France, April 2018.
16. Attended the 30<sup>th</sup> Annual Conference of International Society of Heart and Lung Transplantation held in Orlando,, USA , April 2019.

#### **NATIONAL CONFERENCES ATTENDED:**

1. Joint Annual Conference of Cardiological Society of India and Indian Association of Cardiovascular Thoracic Surgeons, Madras, 1989.
2. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Bombay, 1991.

3. Annual Conference of Cardiological Society of India, Madras, 1993.
4. Continuing Medical Education Programme on "Paediatric Cardiac Surgery and Cardiology - Update" jointly organised by The Tamilnadu Dr.M.G.R. Medical University and The Institute of Cardiovascular Diseases, Madras, October 29-31, 1993.
5. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Agra, 1994.
6. The Live Demonstration and Workshop on Paediatric Cardiology and Fetal Intervention - by The Institute of Cardiovascular Diseases, Madras, Feb 22,1995.
7. The Live Demonstration course on Transmyocardial Laser Revascularisation, organised by The Institute of Cardiovascular Diseases, Madras, Feb 23, 1995.
8. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Bangalore, 1995.
9. Seminar in Basic Cardiac Sciences and Live Demonstration in Cardiac Surgery, organised by The Tamilnadu Dr.M.G.R.Medical University and The Institute of Cardiovascular Diseases, Madras, Feb 27-28, 1995.
10. Delivered guest lecture on Transmyocardial Laser Revascularisation at XX Annual Conference of Kerala State Branch of Indian Society of Anaesthetists, Thiruvalla, Oct 14 - 15, 1995.
11. Global Congress on Cardiac Sciences, Second Millennium - Here and Now and A Satellite Symposium on myocardial preservation and cellular adaptation,13 -16 December, 1995 organised by The Institute of Cardiovascular Diseases, Madras.
12. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Bhopal, 1999.
13. 50 th Annual conference of The Cardiological Society of India, Mumbai
14. XI annual conference of Indian Society of Organ Transplantation, January 29 - 31,1999, Calcutta.
15. Workshop on aortic aneurysms, homograft mitral valve replacement and Ross procedure, February 19 -21, 2000,organised by The Institute of Cardiovascular Diseases, Chennai, India.
16. Delivered a lecture on Transmyocardial Laser Revascularisation in the International Conference on Lasers and their applications , organised by St. Joseph's College , Tiruchi, 1 - 4, March 2000.
17. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Mumbai, 5 - 8 March, 2000.

18. Delivered a lecture on transmyocardial Laser Revascularisation in the Laser CME 2000 of the 14th world congress of the International Society for Laser Surgery and Medicine held in Chennai on 19.8.2000.
19. 53rd Annual Conference of Cardiological Society of India held in Hyderabad, 1-4 December 2001.
20. Delivered a lecture on Experience with Ross Procedure at the 8<sup>th</sup> Annual conference of Indian College of Cardiology held in Bhubaneswar, Orissa from 5<sup>th</sup> to 7<sup>th</sup> Oct. 2002. Also chaired a session on debate on OPCAB versus on pump CABG.
21. Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Chennai, 2002
22. 54<sup>th</sup> Annual Conference of Cardiological Society of India held in Cochin, 1-4 December 2002.
23. XIV Annual conference of Indian Society of Organ Transplantation held in Hyderabad, 7-9 August 2003.
24. 50<sup>th</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, New Delhi, Feb 2004
25. 51<sup>st</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Cochin, 17 – 20 Feb 2005.
26. 52<sup>nd</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Bangalore, 23 – 26 Feb 2006.
27. 53rd Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Jaipur, 8 – 11 Feb 2007.
28. First annual meeting of SCRFI and International conference on Stem Cell Research Forum of India held in Bangalore, Feb 2007.
29. Delivered a lecture on Stem Cell Therapy for use in cardiovascular diseases. During the National Seminar on cord blood stem cells and their potential clinical applications – NRI Academy of Medical Sciences held in Guntur, Nov 2007 .
30. Delivered a lecture on Bone marrow stem cells for cardiac diseases . During the Symposium on Regenerative Medicine conducted by Nichi- In Centre for Regenerative Medicine held in Chennai , Oct 2007 .
31. Delivered the prestigious **Godrej Karai Oration** at 59<sup>th</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Mumbai . Feb 2013.
32. Delivered a talk on Redo tricuspid valve surgeries at 62<sup>nd</sup> Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Lucknow. Feb 2016

## **CARDIOTHORACIC ORGAN TRANSPLANTATION**

- A. Actively involved in organizing Cardiac transplantation programme at the Institute of Cardiovascular Diseases, Chennai from September 1995. Till now, associated with Cardiac Transplantation in 25 patients. Involved in maintenance of potential recipient registry, organ donation awareness programmes, postoperative management and follow up of cardiac transplantation recipients.
- B. The first heart lung transplantation in India was performed in our institution on 3<sup>rd</sup> May 1999 and since then 4 patients have undergone heart lung transplantation. Actively involved in the clinical management and follow up of the three heart lung transplants performed in our institution.
- C. Performed the **first successful single lung transplant in INDIA in December 2011**.

## **TRAINING IN OVERSEAS INSTITUTIONS**

1. Worked as a Registrar in the National Research Centre of Surgery, Moscow, USSR from January 1988 to December 1991.
2. Worked as Clinical Fellow in the Dept. of Cardiothoracic Transplantation St. Vincent's Hospital, Sydney, Australia during 1996.
3. Worked as Clinical Fellow in the Dept. of Cardiac Surgery Westmead Hospital, Westmead, Australia during 1997

## **EXPERIMENTAL WORK**

1. Actively involved in the design concept and evaluation of reversal of pulmonary circulation in an animal model.
2. Actively involved in the design concept and evaluation of Heterotopic Abdominal Heart Transplant in an animal model.

## **AWARDS RECEIVED**

1. Travel Award to attend the 8<sup>th</sup> Asian Society of Cardiovascular Surgeons meeting held in Japan in September 2000.
2. Delivered the prestigious **Godrej Karai Oration** on, " Lung Transplantation in India "during the Annual Conference of Indian association of Cardiothoracic Surgeons, held in Mumbai in Feb 2013.

## **FUTURE PLAN:**

Interested in Valve Repair procedures, Cardiopulmonary Transplantation and stem cell research

## **MEMBERSHIPS:**

1. Life member and fellow of Indian Association of Cardiothoracic Surgeons.
2. Life member of Cardiology Society of India.
3. Executive member - Heart Failure Society of India.