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Great Ormond Street Hospital, London UK

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QUALIFICATIONS

UK

FRCS (CTH) 2008 Royal College of Surgeons of Edinburgh

MRCS 2001 Royal College of Surgeons of Edinburgh

Golden Retriever award for a difficult and mobile ECMO cannulation

Overseas

Diplomate in Cardiothoracic & Vascular Surgery (National Board) 2003 New Delhi

Master of Surgery (M.S. General) 1994 Bangalore University, India

Diplomate in General Surgery (National Board) 1996 New Delhi

M.B.B.S 1991 Stanley Medical College, University of Madras, India

Prizes and Awards

Clinical excellence award 2018 at GOSH

Nominated for Staff awards 2013 at GOSH in the category of Child and Parent awards

Golden Retriever award for a difficult and mobile ECMO cannulation, GOSH, 2012

Gold Medal in Cardiothoracic Surgery (National Board), New Delhi, 2003

Gold Medal in General Surgery, Bangalore University, 1994

Price Memorial prize for highest mark in Medicine MBBS

K.C. Nambiar Gold Medal in Surgery, MBBS,

Gold Medal in Ophthalmology, MBBS

Gold Medal in Chest Medicine, MBBS

Gold Medal in Pathology, MBBS

Research

Current Research Undertakings:

1. Risk stratification and scoring for tracheal surgery: GOSH serves as the largest centre for the management of severe tracheal diseases in children in the world. We have now performed a large volume of complex tracheal intervention, and this project aims to stratify the risks, and score them using mathematical model. With this, we propose we will be in a position to assess and grade the severity of the complex pathology, in relevance also to co-morbidities and extent of intervention.
2. **GosGene Project:** This is a Gosgene funded project to study the molecular basis of congenital long segment tracheal stenosis. This study aims to define the genetic causes of congenital long segment tracheal stenosis with complete tracheal rings. I am one of the co-Investigators for this study, and the current status is at acquiring samples for the study, and funds were granted for the project for genetic analysis.
3. **Change in lung volume following thoracic wall reconstruction** – computerized risk model evaluating chest wall changes and consequent lung volume changes following reconstructive surgery in chest wall defects and Jeune syndrome.
4. **Differential evaluation of pulmonary function following surgical repair of pulmonary artery sling** including anatomical and functional evaluation from embryological point of view. A grant application is in submitted, and is under evaluation.

BOOK CHAPTERS

1. **Muthialu N**, Burch M, Hsia TY. Heart Transplantation: in **Paediatric Surgery, Springer 2014.**
2. **Muthialu N.** Cardiac Transplantation: in **Oxford Specialist Handbook of Paediatric Surgery 2nd Edition, Oxford University Press, 2018.**
3. **Muthialu N**, Kanani M. Chest wall reconstruction: congenital deformities: in **Plastic & Reconstructive Surgery: Principles & Approaches, Elsevier 2018.**
4. Elliott MJ, **Muthialu N**, Hewitt RJ, Roebuck D, Wallis C. Teamwork in Airway surgery. In **Airway Surgery in Children, Frontiers in Pediatrics** (section Pediatric Pulmonology) 2019.
5. De Coppi P, Hewitt R, **Muthialu N.** Pediatric surgical diseases of the larynx, trachea and mediastinum, in '**Pearls and Tricks in Pediatric Surgery**'. **Springer 2019.**

PUBLICATIONS

1. Martens T, Robertson R, Crook R, Saini R, **Muthialu N**, Brown K. Deep hypothermic Extracorporeal membrane oxygenation cannula exchange in a child with necrotic pneumonia. **Perfusion. 2019 (in print).**
2. Swaminathan A, Calder A, McHugh K, Taylor K, Ramaswamy M, **Muthialu N**, Mok Q. Life-threatening mesenchymas hamartoma of the chest wall in a neonate. **B J Radiol Case Reports 2019 (in print).**
3. Kanakis M, Martens T, **Muthialu N**. Postoperative saline administration following cardiac surgery: Impact of high versus low-volume administration on acute kidney injury (Editorial). **J Thor Dis 2019 (in print).**
4. Ramaswamy M, Khushnood A, Kostolny M, Reinhardt Z, Chila T, De Rita F, Burch M, Hasan A, **Muthialu N**. Explantation of mechanical circulatory support devices to recovery is possible and should be considered in selected conditions in children. **J Heart Lung Transpl 2019;38(4):S482.**
5. Martens T, Kanakis M, Spencer H, **Muthialu N**. Pediatric lung transplantation: fit for split? **J Heart Lung Transpl 2019;38(4):S59-60.**
6. Pavlushkov E, **Muthialu N**, Spencer H, Ellis C, Davis B, Claydon S, Berman M. Lung donation at the age of 6 weeks – challenges and lessons learned. **Paediatric transplantation. 2019 Apr 23:e13419. Doi: 10.1111/petr.13419.**
7. Shelmerdine S, Ashworth M, Calder A, **Muthialu N**, Arthurs O. Micro-CT of tracheal stenosis in trisomy 21. **Thorax 2019; DOI: 10.1136/thoraxjnl-2018-212966.**
8. Thakkar HS, Hewitt R, Cross K, Hannon E, De Bie F, Blackburn S, Eaton S, McLaren CA, Roebuck DJ, Elliott MJ, Curry JI, **Muthialu N**, De Coppi P. The multi-disciplinary management of complex congenital and acquired trachea-oesophageal fistulae. **Paediatric Surgery International 2018.**
[https://doi.org/10.1007/s00383-018-4380-8.](https://doi.org/10.1007/s00383-018-4380-8)

9. **Muthialu N**, Robertson A, Mortensen K, Khambadkone S. Case report on surgical repair of unusual dissection of arterial duct involving main pulmonary artery in a child with vein of Galen malformation. **Eur Heart J Case reports 2018 (in print)**.
10. Ramaswamy M, Anton-Martin P, Garcia Martinez L, **Muthialu N**. Tailored management of airway abnormalities in children with congenital single functional lung. **J Ped Surg 2018;54(4):696-700**.
11. Martens T, Saini R, Thiruchelvam T, Karimova A, del Olmo NL, **Muthialu N**, Brown K. The successful use of VA, VAV and VV ECMO for lung rest in hypercarbic respiratory failure secondary to bronchopleural fistulae. **2018**.
12. Martens T, Kostolny M, Spencer H, **Muthialu N**. Technical challenges of lung transplantation in children after arterial switch operation. **Interact Card Vasc Thorac 2018 (in print)**.
13. **Muthialu N**, McIntyre D, McIntosh N, Plumridge J, Elliot MJ. Disturbingly high fracture rate of STRATOS bar in Pectus corrections. **Eur J Cardiothorac Surg 2018 (in print)**.
14. Ramaswamy M, Beeman A, Henwood S, Hawkyard A, Robertson A, Ridout D, Walker A, Patel R, Simmonds J, **Muthialu N**. Supplemental use of blood cardioplegia before graft implantation in paediatric heart transplantation. **The J Heart Lung Transplant 2018;37(4):S399-S400**.
15. Shkurka E, Spencer H, **Muthialu N**. Airway clearance following lung transplant: Current UK practice. **The J Heart Lung Transplant 2018;37(4):S296-S297**.
16. **Muthialu N**. Orthotopic heart transplantation in children. **Asian Cardiovasc Thorac Annals 2018;26(4):277-84**.
17. Kanakis M, **Muthialu N**, Kostolny M. Staged surgery for an unusual combination of cardiac and tracheal anomalies. **Interact Card Vasc Thorac Surg 2018 (in print)**.
18. **Muthialu N**. Risk factors and outcome of acute kidney injury after congenital heart surgery. **Ind J Crit Care Med. 2018 (print)**.

19. Stewart A, Butler CR, Muthialu N, Sell D, Hewitt RJ, Elliott MJ. Swallowing outcomes in children after slide tracheoplasty. **Int J Pediatric Otorhinolaryng** 2018 DOI: **10.1016/j.ijporl.2018.02.029**.
20. Rijnberg FM, Butler CR, Bieli C, Kumar S, Nouraei R, Asto J, McKavanagh E, de Coppi P, **Muthialu N**, Elliott MJ, Hewitt RJ. Aortopexy for the treatment of tracheobronchomalacia in 100 children: a 10-year single-centre experience. **Eur J Cardiothorac Surg** 2018;DOI:10.1093/ejcts/ezy076.
21. **Muthialu N**, McHugh K, Slater O. Anterior mediastinal mass in a child – known but rare entity. **Ind J Surg** 2018 (in print).
22. **Muthialu N**, Balakrishnan S, Sundar R. Single patch closure of multiple ventricular septal defects through right atrial approach. **Ind Heart J** 2018 (in print).
23. **Muthialu N**. Respiratory distress in a preterm child. **Ind J Cardiovasc Thorac Surg** 2018 (in print) DOI: **10.1007/s12055-017-0636-5**.
24. **Muthialu N**. Normalising the position of mediastinum in children post-pneumonectomy. **Ind J Cardiovasc Thorac Surg** 2018 (in print) DOI: **10.1007/s12055-017-0633-8**.
25. Asadi N, Butler C, McIntyre D, McIntosh N, Roebuck D, McLaren C, Wallis C, **Muthialu N**, Hewitt R, Elliott MJ. Slide tracheoplasty for tracheal stenosis in children: experience from 20 years in a national referral centre. **Interactive Cardiovasc Thorac Surg** 2017;25(suppl_1): DOI: **10.1093/icvts/ivx280.074**
26. Asadi N, Butler C, Bieli C, McIntyre D, McIntosh N, Wallis C, Roebuck D, McLaren C, **Muthialu N**, Hewitt R, Elliott MJ. Slide tracheoplasty for congenital tracheal stenosis in children: operative technique. **Interactive Cardiovasc Thorac Surg** 2017;25(suppl_1): DOI: **10.1093/icvts/ivx280.038**.
27. Selby L, Curry J, Hewitt R, **Muthialu N**, Wallis C. The presentation of an oesophageal button battery is a paediatric emergency. **Arch Dis Childhood** 2017;102(suppl 1):A144. DOI: **10.1136/archdischild-2017-313087.359**.
28. Elliott MJ, Butler CR, Varanou-Jenkins A, Partington L, Carvalho C, Samuel E, Crowley C, Lange P, Hamilton NJ, Hynds RE, Ansari T, Sibbons P, Fierens A,

- McLaren C, Roebuck D, Wallis C, **Muthialu N**, Hewitt R, Crabbe D, Janes SM, De Coppi P, Lowdell mW, Birchall MA. Tracheal replacement therapy with a stem cell-seeded graft: lessons from compassionate use application of a GMP-compliant tissue-engineered medicine. **Stem Cells Transl Med** 2017;6:1458-64.
29. Beeman A, **Muthialu N**. Pushing boundaries for organ acceptance in paediatric heart and lung transplantation. **Ind J thorac Cardiovasc Surg** 2017;33(1):74-101.
30. Beeman A, **Muthialu N**. Primary airway tumours in children. **Ind J thorac Cardiovasc Surg** 2017;33(1):74-101.
31. Tran PK, Tsang VT, Cornejo PR, Torii R, Dominguez T, Tran-Lundmark K, Hsia TY, Hughes M, **Muthialu N**, Kostolny M. Midterm results of the Ross procedure in children: an appraisal of the subannular implantation with interrupted sutures technique. **Eur J Cardiothoracic Surg** 2017;28: DOI:10.1093/ejcts/ezx113.
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33. Pabary R, Aurora P, Curry J, Hulsker C, **Muthialu N**, Spencer H. Nissen's fundoplication is safe and prevents decrease in forced expiratory volume in one second (FEV1) in paediatric lung transplant patients. **J Heart Lung Transpl** 2017; DOI: 10.1016/j.healun.2017.01.740.
34. **Muthialu N**. Morphological dilemma: anomalous pulmonary venous confluence or cor triatriatum – does it matter? **J Saud Heart Assn** 2017: DOI:10.1016/j.jsha.2017.04.003.
35. **Muthialu N**, Nakao M, Bezuska L, Marek J, Sullivan I, Kostolny M, Tsang V. Evaluation and risk stratification of concomitant cardiovascular procedures with slide tracheoplasty for combined cardiac and airway defects. **World J Paed Cong Heart Surg** 2016;7(4):534.

36. Simmonds JD, Mustafa M, Fajardo Jaramillo DP, Bellsham-Revell HR, Marek J, Burch M, Tsang VT, **Muthialu N**. Successful orthotopic heart transplantation using a donor heart with ALCAPA. **Pediatric Transplantation** 2016;20:859-65.
37. Ramaswamy M, Vriesendorp M, McLaren C, Roebuck D, Hewitt R, **Muthialu N**, Elliott M. Complications of elective flexible bronchoscopy in children with tracheal abnormalities. **Eur Resp J** 2016;48: DOI: 10.1183/13993003.congress-2016.PA3150.
38. Kavaliunaite E, Harris KA, Aurora P, Dixon G, Shingadia D, **Muthialu N**, Spencer H. Poor outcome following lung transplantation in CF patients infected with mycobacterium abscessus appears to be associated with two genetic clusters of mycobacterium abscessus subspecies abscessus. **Eur Resp J** 2016;48: DOI: 10.1183/13993003.congress-2016.PA4872.
39. **Muthialu N**, Joshi S, Hoskote A, Bhole V. Rare cause of central cyanosis: Fistula between right pulmonary artery and left atrium. **Interact Cardio Vasc Thorac Surg** 2016 (in print) DOI: 10.1093/icvts/ivw204.
40. **Muthialu N**. Large vegetation secondary to native mitral valve infective endocarditis in child. **Asian Cardiovasc Thorac Annals** 2016 (in print).
41. Elliott MJ, Hewitt R, **Muthialu N**, McIntyre D, McIntosh N, McLaren C, Wallis C, Roebuck D, Calder A, Wray J, Stewart A, Dunne C, Butler C. The management of long segment tracheal stenosis in children. **J Jap Society of Paed Surg.** 2016 (in print).
42. **Muthialu N**, Fajardo D, Sullivan ID, Tsang VT. Repair of persistent left superior vena cava to unroofed coronary sinus defect by retro-aortic implantation (modified Warden type procedure). **J Card Surg** 2016;31:103-5.
43. Giudici V, Kanani M, **Muthialu N**, Carr M, Calder AD, Owens CM, Cook AC, Marek J. Duplicated left pulmonary artery: an unknown disease? Three case reports and review of the literature. **Cardiol Young.** 2016;26:340-6.
44. **Muthialu N**, Balakrishnan S, Sundar R, Muralidharan S. Efficacy of tranexamic acid as compared to aprotinin in open heart surgery in children. **Ann Card Anaesth** 2015;18:23-6.

45. Giudici V, Kanani M, **Muthialu N**, Calder AD, Marek J. Association of pulmonary sling and atypical tracheal tree arrangement in a young girl. **Eur Heart J: Cardiovasc Imaging** 2015;16:226.
46. **Muthialu N**, Bulstrode N, Elliott MJ. Intrathoracic saline-filled prosthesis in the treatment of postpneumonectomy syndrome. **Asian Cardiovasc Thorac Annals** 2015;23:78-81.
47. **Muthialu N**, Bezuska L, Nakao M, Elliott MJ, Tsang V. Pulmonary artery sling repair: Single-centre experience with analysis of risk factors. **Interact Cardiovasc Thorac Surg** 2014;19(Suppl 1):S34. DOI: 10.1093/icvts/ivu276.110.
48. **Muthialu N**, Mussa S, Owens CM, Bulstrode N, Elliott MJ. One-stage sequential bilateral thoracic expansion for asphyxiating thoracic dystrophy (Jeune syndrome). **Eur J Cardiothor Surg** 2014;46:643-7.
49. Lloyd MS, Wallis C, **Muthialu N**, Elliott M, Bulstrode N. Treatment of postpneumonectomy syndrome with tissue expanders: The Great Ormond Street Hospital experience. **J Plastic Recons Aesthetic Surgery** 2014;67:725-8.
50. Abelardo E, **Muthialu N**. Ultra-short segment tracheal stenosis at juxtacarinal location – is it congenital absence of just the single cartilage or a part of spectrum of anomalous growth? **Ann Thorac Surg** 2014;98:1106-9.
51. Jenson H, **Muthialu N**, Furci B, Yates R, Kostolny M, Tsang V. Direct Implantation of scimitar vein to the left atrium via sternotomy: a reappraisal. **Eur J Cardiothorac Surg** 2014;45:1066-9. (DOI: 10.1093/ejcts/ezt540).
52. Abelardo E, Roebuck D, McLaren C, Elliott MJ, **Muthialu N**. Right pulmonary artery sling in a single-lung with bronchial isomerism. **J Card Surg** 2014;29:256-8. (DOI: 10.1111/jocs.12240)
53. Butler CR, Speggorin S, Rijnberg FM, Roebuck D, **Muthialu N**, Hewitt RJ, Elliott MJ. Outcomes of slide tracheoplasty in 101 children: a 17-year single-centre experience. **J Thorac Cardiovasc Surg** 2014;147:1783-9.
54. Watson TA, Arthurs OJ, **Muthialu N**, Calder AD. Multi-detector thoracic CT findings in Cerebro-costo-mandibular syndrome: rib gaps and failure of costo-

- vertebral separation. **Skeletal Radiol** 2014;43:263-6. (DOI: 10.1007/s00256-013-1732-2).
55. Bezuska L, Mussa S, **Muthialu N**. Complex chest wall reconstruction in Marfan's syndrome following previous valve-sparing aortic root replacement. **Asian Cardiovasc Thorac Annals** 2014;22:872-4.
56. **Muthialu N**. Unusual presentation of pericardial effusion. **Ind J Crit Care Med** 2014;18:49.
57. Christov G, Burch M, Andrews R, Hurst J, Ashworth M, Mustafa M, **Muthialu N**. Thoracoscopic pericardiectomy for constrictive pericarditis in a paediatric patient with Mulibrey nanism. **World J Pediatr Cong Heart Surg** 2013;4:442-3.
58. Saleemi MS, McLaren C, Sharma BK, **Muthialu N**, Roebuck D, Ng C. Bronchopleural fistula in newborn on ECMO – Transbronchial closure. **J Perinatol** 2013;33:659-60.
59. **Muthialu N**, Rao M, Balakrishnan S. Unusual combination of unroofed coronary sinus in a setting of atrioventricular septal defect with tetralogy of Fallot – a case report. **Ind J Cardiovasc Thorac Surg** 2013 (in print).
60. Crowe S, Brown KL, Pagel C, **Muthialu N**, Cunningham D, Gibbs J, Bull C, Franklin R, Utley M, Tsang VT. Development of a diagnosis- and procedure-based risk model for 30-day outcome after pediatric cardiac surgery. **J Thorac Cardiovasc Surg** 2013;145:1270-8. (DOI:10.1016/j.jtcvs.2012.06.023).
61. Abelardo E, Hewitt R, Elliott MJ, **Muthialu N**. Successful surgical repair of complex Christmas-tree pattern trachea-bronchial anatomy with stenosis. **Eur Arch Otorhinolaryng** 2013;270:2161-3 (DOI 10.1007/s00405-013-2540-y).
62. **Muthialu N**. Complex foregut malformation in unusual location in chest – a case report. **Ind J Cardiovasc Thorac Surg** 2013;29:128-30. (DOI: 10.1007/s12055-013-0198-0).
63. **Muthialu N**. Primary repair of sternal cleft in infancy using combined periosteal flap and sliding osteochondroplasty. **Interact Cardio Vasc Thorac Surg** 2013;16(6):923-5 (DOI: 10.1093/icvts/ivt060).

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66. Jenson H, **Muthialu N**, Furci B, Yates R, Kostolny M, Hsia TY, de Leval M, Tsang V. Contemporary surgical approach to scimitar syndrome using direct right pulmonary vein-to-left atrial anastomosis via sternotomy. **Cardiovasc J Afr** 2013;24:60.
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73. **Muthialu N.** Inflammatory myofibroblastic tumour occluding left main bronchus in a young boy. **Ind J Thorac Cardiovasc Surg** 2012;28:196-8.
74. **Muthialu N.** Ruptured pulmonary artery aneurysm: questions about management. **Asian Cardiovasc Thorac Annals** 2012;20:362
75. **Muthialu N.** Learning from Mistakes: Femoral vein cannulation – Need for basic clinical guidelines. **Ind J Surg** 2012;74(6):494. (DOI: 10.1007/s12262-012-0470-3).
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81. **N Muthialu.** Minimally Invasive Approach for Congenital Cardiac Defects. **Asian Cardiovasc Thorac Ann** 2010;18:404.
82. **N Muthialu.** Patient Communication in ICU – Application in Paediatric population. **Ind J Crit Care Med** 2010;14:162-3.
83. Giardini A, Khambadkone S, Rizzo N, Riley G, Pace Napolene C, **Muthialu N**, Picchio FM, Derrick G. Determinants of exercise capacity after arterial switch

- operation for transposition of great arteries. **Am J Cardiol** 2009;104(7):1007-12.
84. M Kostolny, C Salih, **N Muthialu**, V Tsang. Pulmonary Autograft Root Replacement. **Interact Cardio Vasc Thorac Surg** 2007;6:S248.
85. **N Muthialu**. Edge to Edge technique for residual mitral valve regurgitation. **Ann Thorac Surg** 2007;83:724.
86. **N Muthialu** India and the management of road crashes. **Ind J Surg** 2006;68:286.
87. **M Nagarajan**. Right axillary incision – is it really superior to anterolateral thoracotomy?. **J Thorac Cardiovasc Surg** 2006;131:762.
88. **N Muthialu**. Direct Complications of Sternal Re-entry. **Asian Cardiovasc Thorac Annals** 2006;14:90.
89. **M Nagarajan**, S Sumati, S Muralidharan. Role of myocardial perfusion single photon emission CT (SPECT) in predicting improvement of myocardial function following revascularisation in patients with poor left ventricular function. **Ind J Thorac Cardiovasc Surg** 2005;21:212-215.
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93. Srinivasan Muralidharan, Vishwanathan Anup Krishnan, Shashi Kumar Varma, **Muthialu Nagarajan**. Atrial Septal Defect Closure in young females by an anterolateral thoracotomy. **Ind J Thorac Cardiovasc Surg** 2004;20:129-131.
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96. P Chandrasekar, S Muralidharan, K M Rao, R Sundar, S K Varma, **M Nagarajan**, A Datta, S Ilango. Cox Maze III procedure for atrial fibrillation associated with mitral valve replacement. **Ind J Thorac Cardiovasc Surg 2004**;20:29.
97. **M Nagarajan**, S K Varma, R Sundar, P Chandrasekar, K M Rao, S Muralidharan. Our experience with aortic root replacement using hand-sewn composite valve graft. **Ind J Thorac Cardiovasc Surg 2004**;20:37.
98. **M Nagarajan**, M Manickavasaman, R Sundar, S Muralidharan. Cold agglutination in open heart surgery. **Ind J Thorac Cardiovasc Surg 2002**;18:121-122.
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101. **M. Nagarajan**, S. Muralidharan. Ebsteins' Anomaly of the Tricuspid valve – A single centre experience. **Ind J Thorac Cardiovasc Surg 2001**;17:30.
102. R Iyer, **M Nagarajan**, P Chandrasekhar, R Sundar, S Muralidharan. Surgical correction of coarctation of the aorta – A retrospective study. **Ind J Thorac Cardiovasc Surg 2001**;17:86-89.
103. **M Nagarajan**, S Muralidharan, P Chandrasekar. The TTK Chitra Heart Valve - A single centre experience with midterm results. **Ind J Thorac Cardiovasc Surg 2000**;16:85-9.
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coronary artery bypass surgery in a South Indian hospital. **Cardiology Today**
1999;IV-No.3:165-7.

PRESENTATIONS

(STATE/NATIONAL/INTERNATIONAL LEVEL CONFERENCES INCLUDED)

1. **Thoracoscopic aortopexy for symptomatic tracheobronchomalacia**, Annual meeting of British Association of Paediatric Surgeons, East Midlands, July 2019.
2. Pulmonary artery sling repair: single centre experience with analysis of risk factors. 53rd Annual meeting of the Association for European Paediatric and Congenital Cardiology, Seville, Spain, May 2019.
3. **Late complications and management after Ross operation.** 18th annual meeting of Turkish Congress of Pediatric Cardiology and Cardiac Surgery, Antalya, Turkey, April 2019
4. **CPB related lung injury.** 18th annual meeting of Turkish Congress of Pediatric Cardiology and Cardiac Surgery, Antalya, Turkey, April 2019
5. **Computational Fluid Dynamics simulation for Fontan surgery.** 18th annual meeting of Turkish Congress of Pediatric Cardiology and Cardiac Surgery, Antalya, Turkey, April 2019
6. **Surgery for vascular rings, slings and airway abnormalities in CHD.** 18th annual meeting of Turkish Congress of Pediatric Cardiology and Cardiac Surgery, Antalya, Turkey, April 2019
7. **Outcomes of Explantation of EXCOR Berlin Heart Mechanical Circulatory support devices (UK National Data),** Annual meeting of International Society of Heart Lung Transplantation, Orlando, USA, April 2019.
8. **Paediatric lung transplant – fit for split,** Annual meeting of International Society of Heart Lung Transplantation, Orlando, USA, April 2019.
9. **Airway comorbidities and implications in CHD,** Annual meeting of Society of Cardiothoracic Surgeons of Great Britain and Ireland, London UK, March 2019
10. **Thoracoscopic lung resection Workshop,** Morgan Stanley Children Hospital, NY Presbyterian Hospital, New York, USA, February 2019.

11. **Staging of surgical repairs in children with co-morbid long segment tracheal stenosis and congenital cardiovascular abnormalities.** Society of Thoracic Surgeons (STS) 55th Annual meeting, San Diego, California USA, January 2019.
12. **Fit for split? – in paediatric lung transplantation.** Belgium Association of Cardiothoracic Surgeons, Brussels, Belgium, November 2018.
13. **Pulmonary artery sling – single centre experience with analysis of risk factors.** Belgium Association of Cardiothoracic Surgeons, Brussels, Belgium, November 2018.
14. **Empyema – indication for surgical intervention; How to do a VATS procedure (invited lecture).** 6th PESPOS conference, Frankfurt, Germany, October 2018.
15. **Chest Tumours (invited lecture).** 6th PESPOS conference, Frankfurt, Germany, October 2018.
16. **Salvage of large tracheal defects in children using autologous pedicled pericardial patch (scientific paper).** 32nd Annual meeting of European Association of CardioThoracic Surgeons, Milan, Italy, October 2018.
17. **Intrathoracic prosthesis in children: role in both congenital single lung and for post-pneumonectomy syndrome (scientific paper).** 32nd Annual meeting of European Association of CardioThoracic Surgeons, Milan, Italy, October 2018.
18. **Assessment and surgical interventions in the patient with complex airway disease (invited lecture).** 32nd Paediatric Intensive care conference 2018, Bristol, UK, September 2018.
19. **Slide tracheoplasty: Indication and Techniques. (invited lecture and workshop).** 1st International Hands-on workshop on Tracheal reconstruction, Heart and Lung transplantation, Chennai, India, September 2018
20. **Pushing boundaries in paediatric lung transplantation. (invited lecture & workshop)** 1st International Hands-on workshop on Tracheal

- reconstruction, Heart and Lung transplantation, Chennai, India, September 2018
21. **The successful use of VA, VAV and VV ECMO for lung rest in hypercarbic respiratory failure secondary to broncho-pleural fistulae (scientific paper).** 7th EuroELSO Congress on ECMO-ECLS, Prague, May 2018.
 22. **Airway clearance following lung transplant: Current UK practice (scientific paper).** Annual meeting of International Society of Heart lung transplantation (ISHLT), Nice, France, April 2018.
 23. **Strategies for myocardial preservation in paediatric heart transplantation (scientific paper).** Annual meeting of International Society of Heart lung transplantation (ISHLT), Nice, France, April 2018.
 24. **Single center experience on congenital tracheal stenosis: outcome analysis on slide tracheoplasty (scientific paper),** IACTSCON 2018 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Visakhapatnam, India, February 2018.
 25. **Evaluation and risk stratification of concomitant cardiovascular procedures with slide tracheoplasty for combined cardiac and airway defects (scientific paper),** IACTSCON 2018 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Visakhapatnam, India, February 2018.
 26. **Paediatric heart and lung transplant - invited lecture.** IACTSCON 2018 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Visakhapatnam, India, February 2018.
 27. **Early primary repair of Tetralogy of Fallot Vs palliation - invited lecture.** IACTSCON 2018 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Visakhapatnam, India, February 2018.
 28. **Technical challenges in paediatric pulmonary segmentectomy - invited lecture.** IACTSCON 2018 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Visakhapatnam, India, February 2018.
 29. **Neonatal Airway Surgery - invited lecture.** Beds and Herts Neonatal Network meeting, Lister Hospital, Stevenage, January 2018.

30. **Thoracic Surgery in Ciliopathies – invited lecture.** Autumn Meeting of Skeletal dysplasia Group on ‘Ciliopathy and skeleton’ at Royal Society of Medicine, London, UK, November 2017.
31. **VATS assisted recanalization of supracardiac central venous occlusion – invited lecture.** 5th International Meeting of Society for Paediatric Interventional Radiology, Colorado, Denver, USA, October 2017.
32. **Tailored management of airway abnormalities in children with congenital single functional lung** (scientific paper), 31st Annual meeting of European Association of Cardiothoracic Surgeons, Vienna Austria, October 2017.
33. **Congenital Pulmonary malformations,** Invited Lecture, Lister Hospital, Stevenage, August 2017.
34. **The presentation of oesophageal button battery is a paediatric emergency** (scientific paper), Annual Conference of Royal College of Paediatrics and Child Health, Birmingham UK, May 2017.
35. **The safety and efficacy of total lymphoid irradiation in paediatric patients with progressive chronic lung allograft dysfunction** (scientific paper), Annual meeting of International Society of Heart lung transplantation (ISHLT), San Diego, April 2017
36. **Nissen’s fundoplication is safe and prevents decrease in forced expiratory volume in one second (FEV1) in paediatric lung transplant patients** (scientific paper), Annual meeting of International Society of Heart Lung Transplantation (ISHLT), San Diego, April 2017.
37. **Management of paediatric tracheal stenosis – invited lecture.** IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.
38. **Age related outcome variability after complete atrio-ventricular septal defect repair in small children** (scientific paper), IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.

39. **Primary airway tumours in children** (scientific paper), IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.
40. **Risk categorization for surgical repair of double aortic arch – data from a 10-year cohort** (scientific paper), IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.
41. **Pushing boundaries for organ acceptance in paediatric heart and lung transplantation – invited lecture.** IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.
42. **Pediatric heart transplant – current concepts – invited lecture,** IACTSCON 2017 (Annual meeting of Indian Association of Thoracic and Cardiovascular Surgeons), Bangalore, India, February 2017.
43. **Persistent symptoms in children after vascular ring repair** (Poster presentation), Annual meeting of Society of Thoracic Surgeons (STS), Houston, Texas, January 2017.
44. **Poor outcome following lung transplantation in CF patients infected with mycobacterium abscessus appears to be associated with two genetic clusters of mycobacterium abscessus subspecies abscessus.** (Late breaking abstract as scientific paper), International congress of European Respiratory Society (ERS), London, September 2016.
45. **Bronchoscopic surveillance in children following slide tracheoplasty** (Poster presentation), International Congress of European Respiratory Society (ERS), London, September 2016.
46. **Acquired and recurrent trachea-oesophageal fistula – repair utilizing cardiopulmonary bypass and an MDT approach** (scientific paper), 63rd Annual meeting of British Association of Paediatric Surgeons, Amsterdam, The Netherlands, July 2016.
47. **Evaluation and risk stratification of concomitant cardiovascular procedures with slide tracheoplasty for combined cardiac and airway**

- defects** (scientific paper), 4th Joint meeting of ECHSA and CHSS, Venice, Italy, June 2016.
48. **Tracheal Surgery in Children.** Invited Lecture, 42nd Annual meeting of GNPI (neonatology and Perinatology society of Germany), Frankfurt, June 2016.
 49. **Status of Operative Techniques on tracheal surgery in children with congenital heart diseases - invited lecture,** Cardiology in the Young - 2016, London, UK, March 2016.
 50. **Tracheal surgery in children.** Invited Lecture, Children Heart Institute, Kokilaben Dhirubhai Ambani Hospital, Mumbai, India, Feb 2016.
 51. **Mid-term results of the Ross procedure in children: a reappraisal of the subannular implantation technique (Poster presentation).** Annual meeting of American Heart Association, Orlando, USA, Nov 2015.
 52. **Surgical aspects of empyema management in children - invited lecture,** Annual conference of Society of Paediatric Interventional Radiologist (SPIR), London, 2015
 53. **Thoracoscopic approach for complex venous access in children - invited lecture,** Annual conference of Society of Paediatric Interventional Radiologist (SPIR), London, 2015
 54. **Thoracic surgery for skeletal dysplasias - invited lecture.** Skeletal dysplasia group spring meeting, Birmingham, 2015
 55. **The management of long segment tracheal stenosis in children - invited lecture.** Presented in the 52nd annual meeting of Japanese Society of Paediatric Surgeons, Kobe, Japan, May 2015.
 56. **Airway-related complications and interventions - invited lecture,** IACTSCON 2015 (Annual Conference of Indian Association of Cardiothoracic Surgeons), Hyderabad, India 2015
 57. **Surgery to aortic root in ventricular imbalance - invited lecture.** IACTSCON 2015 (Annual Conference of Indian Association of Cardiothoracic Surgeons), Hyderabad, India 2015

58. **Advances in Paediatric Cardiac Surgery – invited lecture**, IACTSCON 2015 (Annual Conference of Indian Association of Cardiothoracic Surgeons), Hyderabad, India 2015
59. **Recent outcomes and advances in lung transplantation**, Visiting lecture, PGIMER, Chandigarh, India, 2015
60. **Heart Transplantation – invited lecture**, Pedicon 2015 (Annual Conference of Indian Association of Paediatrics), New Delhi, India, 2015
61. **Surgery for complex airway diseases in neonates – invited lecture**, Pedicon 2015 (Annual Conference of Indian Association of Paediatrics), New Delhi, India, 2015
62. **Congenital Lung anomalies – invited lecture**, Respicon 2014, (Annual conference of Paediatric Pulmonologists of IAP), Varanasi, India, 2014.
63. **Airway surgery and interventions, Bronchoscopic workshop and invited lecture**, Respicon 2014 (Annual conference of Paediatric Pulmonologists of IAP), Varanasi , India, 2014.
64. **Pulmonary artery sling repair: Single centre experience with analysis of risk factors.** (scientific paper), European Association of Cardio-Thoracic Surgeons 48th annual meeting, Milan, Italy, 2014.
65. **Outcomes of slide tracheoplasty for long segment congenital tracheal stenosis: A 17 year experience**, (scientific paper), American Association of Thoracic Surgery 93rd Annual Meeting, Minneapolis, USA, May 2013.
66. **The influence of stents on microbial colonization of the airway in children after slide tracheoplasty: a 14-year single centre experience.** (scientific paper), American Association of Thoracic Surgery 93rd Annual Meeting, Minneapolis, USA, May 2013.
67. Jensen H, **Muthialu N**, Furci B, Yates R, Kostolny M, de Leval M, Tsang V. **Anatomic Repair of drainage of Scimitar vein to the inferior vena cava** (Poster presentation). 6th World Congress of Paediatric Cardiology & Cardiac Surgery, Cape Town, South Africa, Feb 2013.

68. **Partial risk adjustment in VLAD for risk adjusted outcomes in paediatric cardiac surgery**, (scientific paper), 6th World Congress of Paediatric Cardiology & Cardiac Surgery, Cape Town, South Africa, Feb 2013.
69. Naqvi N, **Muthialu N**, Babu-Narayan SV, Maiya S, Chandershekar P, Tsang V, Marek J. **Myocardial function following repair of anomalous origin of left coronary artery from the pulmonary artery (ALCAPA) in children** (scientific paper). 6th World Congress of Paediatric Cardiology & Cardiac Surgery, Cape Town, South Africa, Feb 2013.
70. **Meet the experts – Current status of tracheal surgery in children** (Invited Lecture). EUPSA/BAPS annual conference, Rome, Italy, June 2012.
71. **Surgical aspects of heart and lung transplantation**. (Course Teaching), Intensive care unit study day, Great Ormond Street Hospital, London UK, March 2012.
72. **Current status of lung transplantation for pulmonary hypertension in children** (Invited Lecture). Annual meeting of World Society of Cardiothoracic Surgery, Berlin, Germany, June 2011.
73. **Bronchopulmonary Foregut malformations: Surgical Perspectives** (Invited Lecture). International Paediatric Radiology conference, London, UK, May 2011.
74. **Surgical aspects of Extracorporeal Membrane Oxygenation**. (Course Teaching) ECMO Course, Institute of Child Health / Great Ormond Street Hospital, London, UK (three courses per year).
75. **Surgery in Tetralogy of Fallot**. (Course Teaching) Intensive Care unit study day, Great Ormond Street Hospital, London, UK, Feb 2011.
76. **Neonatal cystic lesions of lung – surgical management**: (Invited Speaker) Paediatric symposium, Hillingdon Hospital, London, UK, September 2010.
77. **Aortic Valve Repair is superior to replacement in young patients with ventricular septal defect with aortic regurgitation – our experience**. (Scientific Presentation) Annual conference of Asian Society of Cardiovascular Thoracic Surgeons and Indian Association of Thoracic Cardiovascular Surgeons, New Delhi, India, February 2010.

78. **P.N.Ramasamy Oration: Practical tips for Correctable Cardiac Lesions in Children.** (Invited Lecture) Indian Medical Association Coimbatore Branch, Coimbatore, India. December 2009.
79. **Paediatric Cardiac Surgery – Current status, trends and pitfalls.** (Invited Lecture) Indian Medical Association Udumalpet Branch, Udumalpet, India, October 2009.
80. **Changing Trends in Paediatric Cardiac Surgery.** (Invited Lecture) Indian Medical Association Mettupalayam Branch, Mettupalayam, India. September 2009.
81. **Current Status of Ross Procedure in Children.** (Invited Speaker) Cardiac Surgery Summit, Chennai, India. August 2009.
82. **Pulmonary Autograft Root Replacement.** (Scientific presentation) 21st Annual Conference of European Association of Cardio-Thoracic Surgery, Geneva, Switzerland, September 2007.
83. **Current Role of Cox Maze III in the treatment of Atrial Fibrillation.** (Invited Lecture) Joint Cardiology Meeting, Cardiac Centre, Bahrain Defence Force Hospital, Bahrain. January 2005.
84. **Mitral Valve Repair – Techniques and Results.** (Postgraduate Lecture) Joint Cardiology Meeting, Cardiac Centre, Bahrain Defence Force Hospital, Bahrain. November 2004.
85. **Our experience with aortic root replacement using hand-sewn composite valve graft (Scientific paper)** Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, New Delhi, India, February 2004.
86. **Role of myocardial perfusion single photon emission CT (SPECT) in predicting improvement of myocardial function following revascularisation in patients with poor left ventricular function (Scientific paper)** Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, New Delhi, India, February 2004.
87. **Comparative assessment of Chordal preservation techniques on the outcome of patients undergoing mitral valve replacement (Competitive**

- paper)**, Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Hyderabad, India, February 2003. **(Competitive Section and awarded prize as one of two best papers).**
88. **Redo sternotomy – not an insurmountable problem (Scientific paper)**, Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Chennai, India, February 2002.
89. **Ebsteins’ Anomaly of the Tricuspid valve – A single centre experience (Scientific paper)**, Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Kolkata, India, February 2001.
90. **The TTK Chitra Heart Valve -Intermediate term results (Scientific paper)**, Annual Conference of Indian Association of Cardiovascular and Thoracic Surgeons, Mumbai, India, March 2000.

Teaching Experience

Associate member of Faculty of surgical trainers, Royal College of Surgeons of Edinburgh
I enjoy all aspects of teaching.

I am a faculty in teaching during CICU teaching course for intensive care registrars and a faculty for paediatric symposium in Hillingdon Hospital and UCL for trainees. (Paediatric symposium Oct 2010, May 2011, Oct 2011)

I also teach as a faculty in ECMO course regularly, organized by GOSH/Institute of Child Health and conducted twice a year, and my focus is on the surgical aspect of mechanical support procedures in children.

I also teach surgical registrars informally during surgery.

I serve as the visiting professor to PGIMER, Chandigarh for management of complex lung pathologies, including cystic fibrosis and lung transplantation in children.

WORKING GROUPS AND COMMITTEES

- I function as an advisory member in the panel of workforce committee, for the communications group for International Society for Heart and Lung Transplantation
- Council member, Paediatric sub group of National Organ Donation Committee, NHS BT, UK
- Member, Clinical Trials group, Thoracic organ transplantation, NHS BT, UK
- Panel member for NRAp (UK Wilms' tumour board) for formalizing the protocols for surgical approach to Wilms' tumour in children (with vascular involvement, or chest metastasis).
- Workforce group, Research and communications, CTSNET
- I serve as an active reviewer for various cardiothoracic surgery journals (Annals of Thoracic surgery, Asian Cardiovascular and Thoracic Annals, Indian Journal of Thoracic and Cardiovascular Surgery and Indian Journal of Surgery).
- I have been invited to be a Guest Editor for Current Respiratory Medicine Reviews for the forthcoming issue on chest surgery in children

Management Experience

- I function as an advisory member in the panel of workforce committee, for the communications group for International Society for Heart and Lung Transplantation.
- I chair the weekly tracheal multi-disciplinary meetings. These meetings are weekly, and I have been in this role since Oct 2010 till date. I also maintain and organize various inter-hospital referrals for this.
- I also chair thoracic multi-disciplinary meetings, which are organized in combination with radiology team discussion weekly since Oct 2010.
- I lead for organizing the thoracic service at GOSH, organizing and maintaining various referrals, inter-hospital communications and maintaining the waitlist for thoracic surgical patients.
- I have been awarded the Golden Retriever award for a difficult and mobile ECMO cannulation in a preterm neonate in a distant setting, and now with the concurrence of CATS team and GOSH intensive care team, I am part of the core group to set up the “Mobile ECMO” group and protocols for children under NSCG.
- In the past, I have taken active part in organizing annual cardiac surgical workshop in GKNM Hospital, Coimbatore. My special interest has been hospital economics, helping in focusing on surgical cost containment, and healthcare delivery at low-cost. I was working closely with the audit team to promote and maintain audits very efficiently, and help in focusing on target areas in annual budget for this.

MEDIA EXPERIENCE

I have appeared and participated in the recent GOS programme in BBC, wherein the focus was about the decision making process, multi-disciplinary team discussions, and surgery covering heart transplantation, ventricular assist device insertion, slide tracheoplasty in combination with complex cardiac surgical procedure and tracheal transplantation.

Moreover, I also have had independent appearance in Channel 4 – during the programme “one born every minute” during a surgical correction of sternal cleft in a small child.

PROFESSIONAL ROLES IN SOCIETIES

- Communications workforce committee, Paediatric council, International society of heart and lung transplantation
- Council member, Paediatric sub group of National Organ Donation Committee, NHS BT, UK
- Member, Clinical Trials group, Thoracic organ transplantation, NHS BT, UK
- Workforce group, Research and communications, CTSNET

ASSOCIATION MEMBERSHIPS

- International Society of Heart and Lung Transplantation (Life member)
- World Society of Paediatric and Congenital Heart Surgery (Founder Member)
- Society of Thoracic Surgeons (International Member)
- European Association of Cardiothoracic Surgeons (Life Member)
- British Congenital Cardiac Association (British Cardiovascular Society)
- European Society of Cardiology (Life Member)
- Asian Society of Cardiovascular and Thoracic Surgery (Life Member)
- Indian Association of Cardiovascular and Thoracic Surgeons, India (Life Member)
- Extracorporeal Life Support Organisation (Life Member)
- Scandinavian Society for Research in Cardiothoracic Surgery (Life Member)
- Royal College of Surgeons of Edinburgh, Edinburgh, U.K.
- Associate member of Faculty of surgical trainers, Royal College of Surgeons of Edinburgh
- Royal Society of Medicine (Life Member)
- Cardiothoracic Surgery Network (CTSNET)
- Member, The Ross Community

HOBBIES AND INTERESTS

Taking part in British 10K run, night marathon as part of charity run (Cancer research UK) and trekking.

Part of Charity run surgical group (Healing little hearts) offering surgical correction of congenital heart conditions – travel to India for this on mission regularly.

Charity fund raising – both in UK and in India – to help various causes including education and medical care for children. Focus primarily on cancer care, and cardiac care.

I play badminton regularly both as a hobby and for physical fitness.

My other interests include reading fictional books, cricket, chess and formula 1.

I was an active volunteer in the Grenfell tower fire disaster, London, UK.