

Curriculum Vitae

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PART 1: General Information:

Name: Ravi Ram Thiagarajan
Office Address: CICU office, FA-105, Children's Hospital, 300 Longwood Ave,
Boston, MA 02115.
Tel: (617) 355 7866; FAX: (617) 713 3808
E-mail Address: ravi.thiagarajan@cardio.chboston.org
Place of Birth: Coimbatore, Tamil Nadu, INDIA

Education:

1987 M.B., B.S, University of Madras, Coimbatore Medical College,
Coimbatore, India.
2005 MPH (Quantitative Methods), Harvard School of Public Health, Harvard
University, Boston, MA.

Postdoctoral training:

Internships & Residencies

1985-1986 Intern, Medicine, Obstetrics & Gynecology, Pediatrics, Surgery &
Community Medicine, Coimbatore Medical College, Coimbatore, India.
1986-1987 Special Trainee (Internal Medicine), Coimbatore Medical College,
Coimbatore, India
1987-1988 Junior resident, Pediatrics, Masonic Medical Center for Children,
Coimbatore, India
1989-1990 Senior House Officer, Pediatrics, Hinchingsbrooke Hospital, Huntington,
UK
1990-1991 Senior House Officer, Pediatrics, Royal Devon & Exeter Hospital, Exeter,
UK
1991-Aug 91 Senior House Officer, Pediatric Cardiology, Royal Liverpool Children's
Hospital, Liverpool, UK
Sept 1991-93 Registrar, Pediatrics, Royal Victoria Infirmary & Newcastle General
Hospital, Newcastle upon Tyne, UK
1993-1994: Resident, Pediatrics, University Medical Center, SUNY, Stonybrook, NY
Jan – June 95: Chief Resident, Pediatrics, University Medical Center, SUNY,
Stonybrook, NY

Fellowships:

1995-1998: Fellow, Pediatric Critical Care, University of Washington, Children's
Hospital & Regional Medical Center, Seattle, WA
1998-2000: Clinical Fellow, Cardiology, Children's Hospital, Boston, MA
2000-2001: Chief Cardiology Fellow, Children's Hospital, Boston, MA

Licensure and Certification:

Medical Licensure:

- 1987- TamilNadu State Medical Licensure
- 1989-1993 General Medical Council, UK (limited)
- 1995-1997 Washington State License (limited)
- 1997- Washington State Licensure (full)
- 1998- 2001 Massachusetts License registration (limited)
- 2001- Massachusetts Full License (#209708)

Board Certification:

- 1991- Member Royal College of Physicians, UK (Pediatrics)
- 1995- American Board of Pediatrics (Re-certification: 2003 - 2009)
- 1998- American Board of Pediatrics, Sub-board of Pediatric Critical Care (Re-certification: 2004 – 2012)
- 2000- American Board of Pediatrics, Sub-board of Pediatric Cardiology (Re-certification: 2007 – 2014)

Academic Appointments:

- 1995-1998 Clinical Fellow in Pediatrics, University of Washington, Seattle, WA
- 1998-2001 Clinical Fellow in Pediatrics, Harvard Medical School, Boston, MA
- 2001-2003 Instructor in Pediatrics, Harvard Medical School, Boston, MA
- 2003- Assistant Professor in Pediatrics, Harvard Medical School, Boston, MA

Hospital or Affiliated Institution Appointments:

- 2001 – 2003 Assistant in Cardiology, Children’s Hospital Boston
- 2003- Associate in Cardiology, Children's Hospital, Boston
- 2001 – 2004 Staff Physician, Heart Transplant Program, Children’s Hospital Boston
- 2001 – Staff Physician, Cardiac Intensive Care Unit, Children’s Hospital Boston

Hospital and Health Care Organization Clinical Service Responsibilities:

- 2001- Attending Physician in Cardiology
- 2003- Associate Director CICU, Children’s Hospital Boston
- 2003- Associate Director, Cardiac ECMO program, Children’s Hospital Boston
- 2004- Co-Director, CICU Crisis Resource Management Training Program

Major Committee Assignments:

Children’s Hospital Boston:

- 2003- Clinical Practice Guideline Committee, Department of Cardiology and Cardiac surgery for developing standardized post-operative care practices for improving patient outcomes and to improve cost effectiveness
- 2003- Resuscitation Review committee, Department of Cardiology
- 2006- CICU Practice Committee
- 2006- Ethics Advisory Committee, Children’s Hospital Boston
- 2006- Ventricular Assist Device Operating Committee, Department of Cardiology & Cardiac Surgery, Multidisciplinary committee for selection of new mechanical cardiac assist devices and guiding their clinical use at

- 2004- Children's Hospital Boston
Fellowship Program in Cardiology, Fellow Selection Committee, CICU Representative
- 2006- Fellowship Program MSICU, Department of Anesthesia, Fellow Selection Committee, CICU Representative
- 2007- CICU committee to review Sedation and Analgesia Practices in the CICU

Other:

- 2007 - Extracorporeal Life Support Organization (ELSO) Guidelines Committee:
For developing both center structure and clinical guidelines for institutions using this ECMO to support failed cardiopulmonary resuscitation (E-CPR) for use internationally.

Professional Societies:

- 1993- American Academy of Pediatrics
- 1994- Society of Critical Care Medicine
- 1999- American College of Cardiology
- 2001- American Thoracic Society
- 2002- Pediatric Cardiac Intensive Care Society
- 2003- Massachusetts Medical Society
- 2004- Society for Pediatric Research
- 2005- American Heart Association

Editorial board

Ad Hoc reviewer:

- 2000- Critical Care medicine
- 2001- Pediatric Critical Care Medicine
- 2004- Pediatrics
- 2005- Circulation
- 2005- American Heart Journal
- 2007- American Journal of Cardiology
- 2007- Journal of Thoracic and Cardiovascular Surgery

Abstract reviewer:

- 2006: American College of Cardiology Annual meeting
- 2007: Society of Critical Care Medicine Annual Meeting

Awards & Honors:

- 1986 M.N. Menon Gold Medal, Best-Outgoing Graduate, Coimbatore Medical College, University of Madras, Coimbatore, India
- 1998 Outstanding Fellow Award, Department of Pediatrics, Children's Hospital and Regional Medical Center, Seattle, WA
- 2006 Listed Best Doctors in America, Boston Magazine
- 2007 Listed Best Doctors in America, Boston Magazine

PART III: Bibliography:

a. Original Articles:

1. **R.R.Thiagarajan**, C.Ramamoorthy, T.Gettman, S.L.Bratton. Survey of the use of peripherally inserted central venous catheters in children. *Pediatrics*, 1997, 99 (2): <http://www.pediatrics.org/cgi/content/full/99/2/e4>.
2. P.I.Chuang, B.A.Young, **R.R.Thiagarajan**, C.Cornejo, R.K.Winn, J.M.Harlan. Cytoplasmic Domain of E-selectin contains a non-tyrosine endocytosis signal. *Journal of Biological Chemistry*, 1997. 272(40): 24813-24818.
3. **R.R.Thiagarajan**, S.L.Bratton, C.Ramamoorthy, T.Gettman. Efficacy of peripherally inserted central venous catheters placed in non-central veins. *Archives of Pediatrics and Adolescent Medicine*, 1998. 152: 436-439.
4. **R.R.Thiagarajan**, S.L.Bratton, L.D.Martin, T.V.Brogan, D.Taylor. Predictors of successful extubation in children. *American Journal of Respiratory and Critical Care Medicine*, 1999. 160 (5): 1562-1566.
5. H.T Keenan, **R.R.Thiagarajan**, K.E. Stephens, G. Williams, C. Ramamoorthy, F.M. Lupinetti. Pulmonary Function following Modified Veno-venous Ultrafiltration in Infants. *Journal of Thoracic & Cardiovascular Surgery*, 2000. 119(3): 501 – 505.
6. Brandt J, Wong C, Mihm S, Roberts J, Smith J, Brewer E, **Thiagarajan R**, Warady B. Invasive Pneumococcal Disease and Hemolytic Uremic Syndrome. *Pediatrics*, 2002. 110 (2) 371-376.
7. K.K.Collins, **R.R.Thiagarajan**, C.Chin, A.M.Dubin, G.F.Van Hare, R.Robbins, J.E.Mayer, D.Bernstein, C.I.Berul, E.D.Blume. Atrial tachyarrhythmias and permanent pacing following pediatric heart transplantation. *Journal of Heart and Lung Transplantation*. 2003. 22 (10): 1126 - 1133.
8. K.L.Booth, S.J.Roth, **R.R.Thiagarajan**, M.C.Almodovar, P.J.del Nido, P.C.Laussen. Extracorporeal membrane oxygenation support of the Fontan and Bidirectional Glenn Circulations. *Annals of Thoracic Surgery* 2004. 77: 1341-1348.
9. **R.R.Thiagarajan**, D.M.Coleman, S.L.Bratton, R.S.Watson, L.D.Martin. Inspiratory work of breathing is not decreased by flow triggered sensing during spontaneous breathing in children receiving mechanical ventilation: A preliminary report. *Pediatric Critical Care Medicine* 2004. 5: 375-378.
10. C.L.Cua MD, **R.R.Thiagarajan MD**, R.Taeed MD, T.M.Hoffman MD, L.Lai MD, J.Hayes PhD, P.C.Laussen MBBS, T.F.Feltes MD. Improved Inter-Stage Mortality with the Modified Norwood Procedure, a Meta-Analysis. *Annals of Thoracic Surgery* 2005. 80: 44 - 49.
11. C.L.Hancock Friesen, D.Zurakowski, **R.R.Thiagarajan**, J.M.Forbess, P.J. delNido, J.E.Mayer, R.A.Jonas. Total Anomalous Pulmonary Venous Connection: An analysis of current management strategies in a single institution. *Annals of Thoracic Surgery* 2005. 79: 596 – 606.
12. B.D.Kussman, D.R.Madril, **R.R.Thiagarajan**, E.P.Walsh, P.C. Laussen. Anesthetic Management of the Neonate with Congenital Complete Heart Block: A 16-Year Review. *Pediatric Anesthesia* 2005. 15(12): 1059 - 1068.

13. J.M.Costello, **R.R. Thiagarajan**, R.E.Dionne, C.K.Allan, K.L.Booth, M. Burmester, D.L.Wessel, P.C.Laussen. Initial experience with fenoldopam following cardiac surgery in neonates with an insufficient response to conventional diuretics. *Pediatric Critical Care Medicine* 2006. 7(1) 28 -33.
14. D.B.McElhinney, J.W.Salvin, S.D.Colan, **R.Thiagarajan**, E.C.Crawford, E.N.Marcus, P.J.del Nido, W. Tworetzky. Improving Outcomes In Fetuses and Neonates with Congenital Displacement (Ebstein's Malformation) or Dysplasia of the Tricuspid Valve. *American Journal of Cardiology* 2005. 96: 582 – 586.
15. C.K.Allan, **R.R.Thiagarajan**, L.R.Armsby, P.J.del Nido, P.C.Laussen. Emergent use of Extracorporeal Membrane Oxygenation During Pediatric Cardiac Catheterization. *Pediatric Critical Care Medicine* 2006. 7(3): 212 - 219.
16. C.L.Cua, **R.R.Thiagarajan**, K. Gauvreau, L. Lai, J.M.Costello, D.L. Wessel, P.J.del Nido, J.E. Mayer Jr, J.W. Newburger, P.C. Laussen. Post-operative outcomes in a concurrent series of infants with hypoplastic left heart syndrome undergoing stage I palliation operation with either modified Blalock-Taussig shunt or right ventricle to pulmonary artery conduit. *Pediatric Critical Care Medicine* 2006. 7(3): 238 - 244.
17. K.J.Guleserian, L.B.Armsby, **R.R. Thiagarajan**, P.J.del Nido, J.E. Mayer, Jr. Natural History of Pulmonary Atresia With Intact Ventricular Septum And Right Ventricle Dependent Coronary Circulation Managed By The Single Ventricle Approach. *Annals of Thoracic Surgery* 2006. 81: 2250 -2258.
18. S.B.Yeager, J.D. Horbar, K.M.Greco, J. Duff, **R.R. Thiagarajan**, P.C. Laussen. Pre and Post transport Characteristics and Outcomes of Neonates Admitted to a Cardiac Intensive Care Unit. *Pediatrics* 2006. 118 (3): 1070 - 1077.
19. C.K. Allan, M.D, **R. R. Thiagarajan**, P. J. del Nido, S. J. Roth, M. C. Almodovar, P. C. Laussen. Indication for Cannulation Impacts Survival for Infants with Shunted Single Ventricle Circulation Supported with Extracorporeal Membrane Oxygenation. *Journal of Thoracic and Cardiovascular Surgery* 2007. 133: 660 -667.
20. L. Lai, P.C. Laussen, C. L. Cua, D. L. Wessel, J.M. Costello MD, P.J. del Nido, J.E. Mayer, **R.R. Thiagarajan**. Outcomes after Bidirectional Glenn operation: Blalock-Taussig Shunt versus Right Ventricle to Pulmonary Artery Conduit. *Annals of Thoracic Surgery* 2007. 83(5): 1768 – 1773.
21. K.J. Millar, **R. R. Thiagarajan**, P.C.Laussen. Glucocorticoid therapy for hypotension in critically ill children with cardiac disease. *Pediatric Cardiology* 2007. 28(3): 176 – 182.
22. K.C. Odegard, J.A. DiNardo, B.D. Kussman, A. Shukla, J. Harrington, A. Casta, F.X. McGowan, Jr., P.R. Hickey, E.A. Bacha, **R.R Thiagarajan**, P.C. Laussen. Frequency of anesthesia-related cardiac arrests in patients with congenital heart disease undergoing cardiac surgery. *Anesthesia & Analgesia* 2007. 105(2):335 – 343.
23. C.S.D.Almond, J.E. Mayer, **R.R.Thiagarajan**, E.D.Blume, P.J. del Nido, D.B. McElhinney. Outcomes after Fontan Failure and Takedown to an Intermediate Palliative Circulation. *Annals of Thoracic Surgery*. Accepted Feb 2007.
24. V.L.Vida, E.A.Bacha, L.A.Larrazabal, K. Gauvreau, **R.Thiagaragan**, F. Fynn-Thompson, F.A.Pigula, J.E. Mayer Jr, P.J del Nido, W. Tworetzky, J.E. Lock,

- A.C.Marshall. Hypoplastic left heart syndrome with intact or highly restrictive atrial septum: Surgical experience from a single center. *Annals of Thoracic Surgery* 2007.84: 581 – 586.
25. **R.R.Thiagarajan**, P.C. Laussen, P.T.Rycus, R.H. Bartlett, S.L.Bratton. Extracorporeal Membrane Oxygenation to aid Cardiopulmonary Resuscitation in Children. *Circulation* 2007, 116: 1693 - 1700.
 26. M.K.Burmester, R. Dionne, **R.R.Thiagarajan**, P.C. Laussen. Assessing Medication Prescribing Errors in a Pediatric Cardiac Intensive Care Unit. *Intensive Care Medicine*, Accepted Feb 2008.
 27. T. Chan, **R.R.Thiagarajan**, D. Frank, S.L. Bratton. Survival after extracorporeal cardiopulmonary resuscitation in infants and children with heart disease. *Journal of Thoracic and Cardiovascular Surgery*, accepted March 2008.
 28. M. A Scheurer, J.W. Salvin, V.L Vida, F. Fynn-Thompson, E.A.. Bacha, F.A. Pigula, J.E. Mayer Jr., P.J del Nido, D.L Wessel, P.C. Laussen, **R. R. Thiagarajan**. Survival and clinical course at Fontan after stage one palliation with either a modified Blalock-Taussig shunt or a right ventricle to pulmonary artery conduit. *JACC*, Accepted March 2008.
 29. J.W.Salvin, M.A.Scheurer, P.C.Laussen, J.E.Meyer, P.J. del Nido, F.A.Pigula, E.A.Bacha, **R.R.Thiagarajan**. Factors Associated with Prolonged Recovery Following the Fontan Operation. *Circulation (suppl)*: Accepted March 2008.

b. Review Articles:

1. **R.R.Thiagarajan**, R.K.Winn, J.M.Harlan. The role of leukocyte and endothelial adhesion molecules in ischemia-reperfusion injury. *Thrombosis and Hemostasis*, 1997. 78(1): 310-314.
2. **R.R.Thiagarajan**, P.C.Laussen. Negative Pressure Pulmonary Edema in Children. Pathogenesis and Clinical Management. *Pediatric Anesthesia* 2007. 17(4): 307 – 310.
3. J.A.Connor, **R.Thiagarajan**. Hypoplastic Left heart Syndrome. Orphanet Journal of Rare Diseases 2007. 2: 23. <http://www.OJRD.com/content/2/1/23>.
4. **R.R.Thiagarajan**, G.L.Bird, K.Harrington, J.R.Charpie, R.C.Ohye, J.M. Steven, M. Epstein, P.C. Laussen. Improving Safety for Children with Heart Disease. *Cardiol Young* 2007, 17 (Suppl. 2): 127 -132.
5. S.B. Peddy, M.F. Hazinski, P.C.Laussen, **R.R.Thiagarajan**, G.M.Hoffman, V. Nadkarni, S. Tabbutt. Cardiopulmonary resuscitation: special considerations for infants and children with cardiac disease. *Cardiol Young* 2007, 17 (Suppl. 2): 116 -126.
6. D.S.Cooper, J.P.Jacobs, L. Moore, A. Stock, J.W. Gaynor, T. Chancy, M. Parpard, D.A. Griffin, T. Owens, P.A. Checcia, **R.R.Thiagarajan**, T.L. Spray, C. Ravishankar. Cardiac extracorporeal life support: State of the art in 2007. *Cardiol Young*, 17 (Suppl. 2): 104 -115.
7. S. Teele, S. Emani, **R.R. Thiagarajan**, R. Teele. Catheters, wires, tubes and drains on post-operative radiographs of pediatric cardiac patients: The whys and whereofs. *Pediatric Radiology*. Accepted January 2008.

c. Case Reports and Clinical Communications:

1. **R.Thiagarajan**, E.La Gamma, S.Dey, S.Blethen, T.A.Wilson. Hyponatremia due to reset osmostat in a neonate with cleft lip & palate and hypopituitarism. *Journal of Pediatrics*, 1996.128 (4) 561 – 562.
2. **R.R.Thiagarajan**, S.J.Roth, S.Margossian, A.S.Mackie, E.J.Neufeld, J.M.Forbess, E.D.Blume. Extracorporeal membrane oxygenation in a patient with dilated cardiomyopathy and hemophilia A. *Intensive Care Medicine* 2003. 29: 985 – 988.
3. **R.R.Thiagarajan**, R.A Polin, S.L. Bratton. Inhaled Nitric oxide for vaso-occlusion in sickle cell disease. *AAP Grand Rounds*, 2003. 9: 50 –51.
4. **R.R.Thiagarajan**, D.P.Nelson. Should we be satisfied with the current outcomes for cardiac extracorporeal life support? *Pediatric Critical Care Medicine* 2005. 1: 89-90.
5. M. Nathan, C. Baird, F. Fynn-Thompson, C. Almond, **R. Thiagarajan**, P.Laussen, E. Blume, F. Pigula. Successful implantation of a Berlin heart Biventricular Assist Device in a failing Single Ventricle. *Journal of Thoracic & Cardiovascular Surgery*, 2006. 131(6): 1407 – 1408.
6. C.S.D.Almond, J. Harrington MD, **R.R.Thiagarajan**, C.N.Duncan, R. LaPierre, D. Halwick, E.D.Blume, P.J.delNido, E.J. Neufeld, F.X.McGowan. Successful use of Bivalirudin for cardiac transplantation in a child with heparin-induced thrombocytopenia. *Journal of Heart & Lung Transplantation*, 2006. 25(11): 1371 –1375.
7. **R.R. Thiagarajan**, S.L.Bratton, R.A.Polin. Neuro-developmental outcomes after surgery for hypoplastic left heart syndrome. *AAP Grandrounds July 2008*.

d. Book Chapters:

1. J. Crosson, **R.R. Thiagarajan**, L.B. Smoot. Device and Alternative Therapies in Pediatric Heart Failure. Taylor & Francis: Treatment of Advanced Heart Disease. Ed: Baughman KL & Baumgartner WA. 653 - 662

e. Non-print and Educational Material:

1. A. Garden, L. Stanley, J. Millar, P. La Fevre, **R. Thiagarajan**, D. Halwick, D. Beke, C.K. Allan. A Curriculum for Crisis Resource Management Training in Pediatric Cardiovascular Care. Department of Cardiology, Cardiac Intensive Care Unit Simulation Program, Children’s Hospital Boston, Ed 2004.
2. C.Allan, L. Kappus, **R.Thiagarajan**, A.Imprescia, A.Garden, D. Beke. A Curriculum for Crisis Resource Management Training in Pediatric Cardiovascular Intensive Care (V.2). Department of Cardiology, Cardiac Intensive Care Unit Simulation Program, Children’s Hospital Boston, Ed 2007.
3. Elaine Meyer. Parent Presence During Invasive Procedures and Resuscitation. Instructional and Teaching Video. A Curriculum to Train Parent Facilitators. www.littlerocket.com/stone

f. Submitted Articles:

1. C.S.D. Almond*, **R.R.Thiagarajan***, G. Piercy. K. Gauvereau, T.P.Singh. Wait list mortality among children listed for cardiac transplantation in the United States. *Pediatrics*, March 2008. (Joint first authors).

2. N.J.Braudis, M.A.Q.Curley, K.Beaupre, K.Thomas, G. Hardiman, P. Laussen, **R.R.Thiagarajan**. Enteral Feeding Algorithm for Infants with Hypoplastic Left Heart Syndrome Post Stage I Palliation. *Pediatric Critical Care Medicine*. April 2008.
3. C.S. Barrett, S.L. Bratton, J.W.Salvin, P.C.Laussen. P.T. Rycus, **R.R.Thiagarajan**. Neurological Injury after Extracorporeal Membrane Oxygenation use to aid Pediatric Cardiopulmonary Resuscitation. *Pediatric Critical Care Medicine*. May 2008.

Selected Abstracts (not yet published in manuscript form):

1. Hemodynamic response to inhaled nitric oxide in congenital heart disease. **R.R.Thiagarajan**, K.Thomas, S.J.Roth, K. Gauvreau, P.C.Laussen, A.M.Atz, I.Adatia, D.L.Wessel. *Pediatric Cardiac Intensive Care Society Meeting, Miami, Fl, Dec 2001*.
2. Utility of the Pediatric Risk of Mortality Score (PRISM III) in the identification of illness severity in children following low mortality risk reparative cardiac surgery. **R.R.Thiagarajan**, D. Wypij, P.C.Laussen, J.W.Newburger, S.J.Roth. *Society of Critical Care Medicine Meeting, Jan 2002*.
3. Outcome of patients listed for heart transplantation on ECMO. **R.R.Thiagarajan**, L.B.Smoot, E.D.Blume, S.J.Roth, P.J. del Nido, J.E. Mayer, P.C.Laussen. *Ped Crit Care Med 2003; Vol 4 (3): A99. World Congress of Pediatric Intensive Care, Jun 2003*.
4. The use of urgent and long term mechanical cardiac support as a bridge to transplantation. Halwick DR, **Thiagarajan R**, Betit P, Thompson JE, Laussen PC. *19th Annual Children's National Medical Center conference on ECMO & advanced therapies for respiratory failure, Feb 2003*.
5. Crisis resource management training with teams from a pediatric cardiac catheterization laboratory. A. Garden, J. Millar, L. Stanley, L. Bergersen, D. Beke, D. Halwick, A. Nugent, A. Simon, **R. Thiagarajan**. *Anesthesia and Analgesia 98 (5): S23: A54, May 2004*.
6. A review of inhaled nitric oxide usage in a children's hospital. N. Craig, P. Betit, **R. Thiagarajan**, D.Wessel. *AARC International Meeting, Dec 2004*.
7. ECMO following cardiac surgery from the KID 2000 database. Salvin JW, Laussen PC, **Thiagarajan RR**. 5th International Symposium on Pediatric Cardiac Intensive Care, Miami, FL December 2004. *Pediatric Critical Care Medicine*. 6(3):398, May 2005.
8. Development and Pilot testing of an Enteral Feeding Algorithm for Children with Hypoplastic Left Heart Syndrome Post Stage 1 Palliation. Braudis NJ, Beaupre K, Hardiman G, Thomas K, Curley MAQ, **Thiagarajan, RR**, Laussen P. *Pediatric Critical Care Medicine* 6(3): 390, May 2005
9. Epidemiology and Outcomes following Pediatric Extracorporeal Membrane Oxygenation. **R.R. Thiagarajan**, K Gauvreau, J.A.Connor, P.C.Laussen. K.J.Jenkins. *Society for Pediatric Research, Washington DC 2005*.
10. Morbidity and Mortality Following ECMO for Cardiac Surgery from the KID 1997 and 2000 Databases. J.W.Salvin, P.C.Laussen, **R.R.Thiagarajan**. *AHA, Nov 2005*.

11. Hospital Charges and Pediatric ECMO. **R.R.Thiagarajan**, P.C. Laussen. *Society of Critical Care Medicine Meeting, San Francisco, CA, Jan 2006.*
12. Simulation based crisis resource management program in a pediatric cardiac intensive care unit improves participants self-perception of resuscitation skills. C.K. Allan, D. Beke, L.J. Kappus, P.C. Laussen, **R.R. Thiagarajan**. *Harvard Medical School, Medical Education Day, Nov 2006.*
13. PRISM-III Predicts Death among Medical Admissions to a Pediatric Cardiac Intensive Care Unit. L.A.maltz, P.C.laussen, G. J. Parry, K. Gauvreau, K.J.Jenkins, **R.R.Thiagarajan**, *American College of Cardiology, Feb 2007*
14. Simulation based Crisis Resource Management Program in Pediatric Cardiac Intensive Care Improves Participants Self-Perception of Resuscitation Skills. C.K. Allan, D.M.Beke, L.J.Kappus. P.C. Laussen. **R.R. Thiagarajan**. *American College of Cardiology, Feb 2007.*
15. Cardiac Intensive Care Unit Crisis Resource Management. D.M Beke, C.K.Allan, L. Kappus, **R. Thiagarajan**. *World Congress in Pediatric Intensive Care, June 2007, Geneva, Switzerland.*
16. ECMO to aid cardiopulmonary resuscitation in children with heart disease. R.R.Thiagarajan, C.K.Allan, M.A.Scheurer, P.C.Laussen. *World Congress in Pediatric Intensive Care, June 2007, Geneva, Switzerland.*
17. Predictors of Neurological injury after extracorporeal membrane oxygenation use to aid pediatric cardiopulmonary resuscitation. C.S.Barrett, S.L. Bratton, P.C. Laussen, **R.R. Thiagarajan**. *Society of Critical Care Medicine 2008, Honolulu, HI.*
18. Extracorporeal membrane oxygenation to support cardiac arrest in adults. **R.R.Thiagarajan**, T.V.Brogan, M.A.Scheurer, P.C.Laussen, S.L.Bratton. *American Thoracic Society 2008, Toronto, Canada.*
19. Mechanical Circulatory Support for Severe Primary Graft Dysfunction Following Pediatric Cardiac Transplantation. C.S.D. Almond, F. Fynn-Thompson. L.B. Smoot, J.M. Elder, E.D. Blume, J.E. Mayer, **R.R. Thiagarajan**. *International Society of Heart and Lung Transplantation Society Meeting 2008, Boston, MA.*
20. Risk Factors for Mortality Among Children Awaiting Heart Transplantation in the United States: analysis of Data from the United Network for Organ Sharing (UNOS). C.S.D. Almond, **R.R. Thiagarajan**, K. Gauvreau, G.E. Piercey, T.P.Singh. *Society of Pediatric Research 2008, Honolulu, HI.*