

Date of Preparation: August 15, 2008

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EDUCATION

Maulana Azad Medical College
University of Delhi, New Delhi, India
MBBS, 1984

Maulana Azad Medical College
University of Delhi, New Delhi, India
MD (Pediatrics), 1989

School of Public Health
University of Michigan, Ann Arbor
MSc (Clinical Research Design and Statistical Analysis), 2005
GPA 3.92

ECFMG CERTIFICATION

January 1990 (No. 419-027-8)
Score 90, 90

TRAINING

Rotating Internship
Maulana Azad Medical College & Associated Hospitals
New Delhi, India
January- December 1985

Resident in Radiodiagnosis

All India Institute of Medical Sciences
January - March 1986

Vacation: April - June 1986

Pediatric Resident
Maulana Azad Medical College & Associated LNJP Hospital
New Delhi, India
July 1986- January 1990

Vacation: February 1990

Pediatric Senior House Officer
Barnsley District General Hospital, Barnsley, Princess Margaret Hospital, Swindon &
Southmead Hospital, Bristol
England, U.K.
March 1990- June 1991

Pediatric Resident
Children's Hospital of Michigan
Wayne State University
Detroit, MI
July 1991- June 1993

Fellow, Pediatric Cardiology
Children's Hospital of Michigan
Wayne State University School of Medicine
July 1993-June 1996

Research/Senior Fellow, Pediatric Cardiology with emphasis on Cardiac PET Imaging, Exercise
Physiology and Cardiac Transplantation. Transplant electives at Loma Linda University
Children's Hospital (2 months), Children's Hospital of Pittsburgh (one month) and Columbia
University Babies' Hospital (one month)
Children's Hospital of Michigan
Wayne State University School of Medicine
July 1996-December 1997

FACULTY APPOINTMENTS

Assistant Professor
Department of Pediatrics
Wayne State University School of Medicine
1998-2004

Associate Professor
Department of Pediatrics

Wayne State University School of Medicine
August 2004-September 2005

Assistant Professor
Department of Pediatrics
Harvard Medical School
March 2006-

HOSPITAL OR OTHER PROFESSIONAL POSITIONS/APPOINTMENTS

Medical Director, Pediatric Cardiac Transplant Program
Children's Hospital of Michigan
January 1998- September 2005

Director
Cardiopulmonary Exercise Laboratory
Children's Hospital of Michigan
July 1999-September 2005

Associate Pediatric Cardiologist
Children's Hospital of Michigan
January 1998-September 2005

Associate, Department of Cardiology
Heart Failure/Transplant Service
Children's Hospital Boston
October 2005- present

MEMBER- MAJOR PROFESSIONAL SOCIETIES

American Academy of Pediatrics (FAAP)
American Heart Association (Council on Cardio Vascular Disease in the Young and Council on
Arteriosclerosis, Thrombosis and Vascular Biology)
American College of Cardiology (FACC)
International Society for Heart and Lung Transplantation

LICENSURE AND BOARD CERTIFICATION

Michigan License No. 57942, 1991
Massachusetts License No. 226394, 2005

Diplomate, American Board of Pediatrics, 1993
Score: 700 (98th centile)
Re-certification 2000-2007

Diplomate, American Board of Pediatrics, 1996
Subboard: Pediatric Cardiology
Score: 670 (96th centile)
Re-certification 2003-2010

HONORS/AWARDS

Finalist, Young Investigator Award
Cardiology Section
American Academy of Pediatrics, 1997

American College of Cardiology/Bristol-Myers Squibb Affiliate
Research Travel Award, 1997

Finalist, Children's Hospital of Michigan Wolf W. Zuelger Research Award
1994 and 1995

First Position, National Mathematics Olympiad Contest (among 100,000 participating High School Seniors), India, 1980

Second position, Delhi Senior School Certificate Examination (among 30,000 High School Seniors), Central Board of Secondary Education, India, 1980

First position (perfect score) in Mathematics, Delhi Senior School Certificate Examination (among 30,000 High School seniors), Central Board of Secondary Education, India, 1980

First position (perfect score) in Mathematics, Delhi Secondary School Certificate Examination (among 30,000 High School sophomores), Central Board of Secondary Education, India, 1978

PUBLICATIONS

Original Scientific Observations in Refereed Journals

1. Khalil A., **Singh TP**, Arora R, Puri RK. Pediatric hypertension: Clinical profile and etiology. *Indian Pediatrics* 1991; 28:141-146.
2. Muzik O, Paridon SM, **Singh TP**, Morrow WR, Dayanikli F, Di Carli MF. Quantification of myocardial blood flow and flow reserve in children with a history of Kawasaki disease and normal coronary arteries using positron emission tomography. *J Am Coll Card* 1996;28:757-62.

3. **Singh TP**, Morrow WR, Walters HL, Vitale NA, Hakimi M. Coil occlusion versus conventional surgical closure of patent ductus arteriosus. *Am J Cardiol* 1997; 79:1283:1285.
4. **Singh TP**, Di Carli MF, Sullivan NM, Leonen MF, Morrow WR. Myocardial flow reserve in long-term survivors of repair of anomalous left coronary artery from pulmonary artery. *J Am Coll Card* 1998; 31:437-43.
5. Prabhu AS, **Singh TP**, Morrow WR, Muzik O, Di Carli MF. Safety and efficacy of intravenous adenosine for pharmacologic stress testing in children with aortic valve disease or Kawasaki disease. *Am J Cardiol* 1999; 83:284-87
6. Di Carli MF, Prcevski P, **Singh TP**, Leonen M, Muzik O, Vander Heide R. Myocardial blood flow, function, and metabolism in repetitive stunning. *J Nucl Med* 2000; 41:1227-1234.
7. **Singh TP**, Wolfe RR, Sullivan NM, McCool P, Neish SR. Assessment of progressive changes in exercise performance in patients with a systemic right ventricle. *Pediatric Cardiol* 2001;22:210-214.
8. **Singh TP**, Greer K, Muzik O, Hammond RL, Stephenson LW, Di Carli MF. Assessment of skeletal muscle ventricle tissue blood flow using positron emission tomography. *Artificial Organs* 2001;25(4):306-312.
9. **Singh TP**, Humes RA, Muzik O, Kattamasu S, Karpawich PP, Di Carli MF. Myocardial flow reserve in patients with a systemic right ventricle after atrial switch repair. *J Am Coll Card* 2001; 37:2120-5.
10. Horenstein MS, Ross RD, **Singh TP**, Epstein ML. Carvedilol reverses elevated pulmonary resistance in a child with dilated cardiomyopathy. *Pediatric Cardiol* 2002; 23:100-102.
11. **Singh TP**, Forbes TF, Walters HL. Timing of heart transplantation after a recent pulmonary embolism. *J Heart Lung Transplant* 2003;22:98-101.
12. **Singh TP**, Muzik O, Forbes TF, Di Carli MF. Positron emission tomography myocardial perfusion imaging in children with suspected coronary abnormalities. *Pediatric Cardiol* 2003;24:138-44.
13. **Singh TP**. Groehn H, Kazmers A. Vascular function and carotid intimal-medial thickness in children with insulin-dependent diabetes mellitus. *J Am Coll Card* 2003;41:661-5.
14. Chin C, Naftel DC, **Singh TP**, Blume ED, Luikart H, Bernstein D, Gamberg P, Kirklin JK, Morrow WR, and for the Pediatric Heart Transplant Study Group. Risk factors for

- recurrent rejection in Pediatric Heart Transplantation: A Multicenter Experience. *J Heart Lung Transplant* 2004; 23:178-185.
15. **Singh TP**, Rabah R, Cooper LT, Walters HL. Total lymphoid irradiation: new therapeutic option for refractory giant cell myocarditis. *J Heart Lung Transplant* 2004;23:492-95
 16. Kulkarni A, **Singh TP**, Sarnaik A, Walters HL, Delius R. Sildenafil for pulmonary hypertension following heart transplantation. *J Heart Lung Transplant* 2004; 12: 1441-44.
 17. Horenstein MS, Karpawich PP, Epstein ML, **Singh TP**. Transthoracic echocardiography for pre-cardioversion screening during atrial flutter/fibrillation in young patients. *Clin Cardiology* 2004; 27:413-6.
 18. Chitlur M, Abella E, **Singh TP**, Savasan S. Severe neutropenia and thrombocytopenia following cardiac transplantation in a child. *Pediatric Transplantation*. 2005; 9:94-6.
 19. **Singh TP**, Vasquez JC, Delius R, Walters HL. Neonatal heart transplantation to a physiologic single lung. *J Heart Lung Transplant* 2006; 25:362-4.
 20. Stone DM, Banerjee M, Dupuis J, Leleszi J, Allasio D, **Singh TP**. Association of parental pre-transplant psychosocial assessment with post-transplant morbidity in pediatric transplant recipients. *Pediatric Transplantation* 2006; 10:602-607.
 21. **Singh TP**, Naftel DC, Webber S, Dupuis J, Chin C, Spicer R, Schowengerdt KO, Ring WS, Morrow WR for the Pediatric Heart Transplant Study Group (PHTS). Hyperlipidemia in children after heart transplantation. *J Heart Lung Transplant* 2006; 25:1199-1205.
 22. **Singh TP**, Curran T, Rhodes J. Cardiac rehabilitation improves heart rate recovery following peak exercise in children with repaired congenital heart disease. *Pediatric Cardiology* 2007; 28:276-79.
 23. **Singh TP**. Editorial Letter. *Contemporary Clinical Trials* 2007; 27:493
 24. **Singh TP**, Gauvreau, K, Rhodes, J, Blume, ED. Longitudinal Changes in Heart Rate Recovery Following Maximal Exercise in Pediatric Heart Transplant Recipients ? Evidence of Autonomic Re-innervation. *J Heart Lung Transplant* 2007;26:1306-12
 25. Chintala K, Epstein ML, **Singh TP**. Longitudinal changes in heart rate-corrected measures of exercise performance in children. *Pediatric Cardiology* 2008; 29(1):60-4.
 26. **Singh TP**, Rhodes J, Gauvreau, K. Determinants of heart rate recovery following exercise in children. *Medicine and Science in Sports and Exercise* 2008; 40:601-605.

Review Articles/Guidelines

1. Rosenthal D, Chrisant M, Edens E, Mahony L, Canter C, Colan S, Dubin A, Lamour J, Ross R, Shaddy R, Addonizio L, Beerman L, Berger S, Bernstein D, Blume E, Boucek M, Checchia P, Dipchand A, Drummond-Webb J, Fricker J, Friedman R, Hallowell S, Jacquiss R, Mital S, Pahl E, Pearce B, Rhodes L, Rotondo K, Rusconi P, Scheel J, **Singh TP**, Towbin J. International Society for Heart Lung Transplant: Practice Guidelines for Management of Heart Failure in Children. *J Heart Lung Transplant* 2004; 12:1313-33.

Chapters

1. Di Carli MF, Gerbaudo VH , **Singh TP**, Treves ST. Cardiopulmonary studies in pediatric nuclear medicine. In: Sandler MP, Coleman RE, Patton JA, Wackers FJTh, Gotschalk A. editors. *Diagnostic Nuclear Medicine*. 4th Ed. Philadelphia: Lippincott Williams & Wilkins, Company, 2003: 1161-1177.
2. **Singh TP**. Long-term morbidities in Pediatric Heart Transplant Recipients – Hypertension, Lipids, Renal Dysfunction and Arrhythmias. In: Canter C, Kirklin J editors. *Pediatric Heart Transplantation –ISHLT monograph*. Elsevier 2008
3. Tierny ESS, **Singh TP**. Vascular ultrasound imaging in children. In *Echocardiography in Pediatric and Congenital Heart Disease: From Fetus to Adult*. 2008 (In press)

Published Abstracts

1. **Singh TP**, Morrow WR, Hakimi M, Walters HL, Vitale NA. Clinical and medical economics of transcatheter coil occlusion of patent ductus arteriosus. *Circulation* 1995; 92 (Supplement I): I-309.
2. **Singh TP**, Di Carli MF, Joshi VM, Sullivan NM, Muzik O, Morrow WR. Exercise performance in survivors of repair of anomalous left coronary artery from pulmonary artery. *Circulation* 1996;94 (Supplement I):I-653.
3. **Singh TP**, Di Carli MF, Muzik O, Sullivan NM, Farooki Z, Morrow WR. Myocardial flow reserve and glucose metabolism in survivors of repair of anomalous left coronary artery from pulmonary artery. *Pediatrics* 1996 (Supplement): 532.
4. **Singh TP**, Joshi VM, Sullivan NM, Perry BL. A comparison of methodologies to detect ventilatory anaerobic threshold in children. *Pediatr Exerc Sci* 1997, 9(1): 93.
5. Di Carli, M., Prcevski P., Leonen M, **Singh TP**, Muzik O, Vander Heide R. Relation between perfusion, metabolism, and contractile reserve in repetitive myocardial stunning. *J Am Coll Cardiol* 1997 (Supplement): 441 A.

6. **Singh TP**, Wolfe RR, Sullivan NM, McCool P, Neish SR. Assessment of longitudinal changes in systemic right ventricular performance during exercise. *Pediatrics* 1997 (Supplement): 431.
7. **Singh TP**, Di Carli MF, Muzik O. Assessment of myocardial glucose metabolism in children with normal cardiac anatomy and function. *Pediatrics* 1997 (Supplement): 435.
8. **Singh TP**, Humes RA, Muzik O, Karpawich PP, Di Carli MF. Myocardial flow reserve in patients with a systemic right ventricle. *Circulation* 1998;98:I-618.
9. **Singh TP**, Humes RA, Muzik O, Sullivan NM, Karpawich PP, Di Carli MF. Does myocardial flow reserve limit exercise performance in patients with a systemic right ventricle ? *J Am Coll Cardiol* 2000 (Supplement); 35 (2);512A.
10. Chin C, Naftel DC , **Singh TP**, Blume ED, Luikart H, Bernstein D, Morrow WR, and the Pediatric Heart Transplant Study Group. Risk factors for recurrent rejection in pediatric heart transplantation: a multi center experience. *J Heart Lung Transplant* 2000 (Supplement), 19 (1): 71.
11. **Singh TP**, Di Carli MF. PET myocardial perfusion imaging: Role in clinical decision-making in children with suspected coronary abnormalities. *Circulation* 2000 (Supplement II), 102, 18, II-772.
12. Chinnock R, Naftel D, **Singh TP**, Canter C, Pietra B, Kirklin J, Morrow WR and the Pediatric Heart Transplant Study Group (PHTS): Death after cardiac transplantation in low birth weight neonates. *J Heart Lung Transplant* 2001 (Supplement).
13. Chinthala K, Epstein ML, **Singh TP**. Progressive changes in heart-rate corrected measures of exercise performance in children. *Pediatric Cardiol* 2001, 22 (5): 448.
14. **Singh TP**, Groehn H, Kazmers. Vascular reactivity and carotid intimal-medial thickness in children with Insulin-dependent Diabetes mellitus. *J Am Coll Cardiol* 2002 (supplement);39(5): 223A.
15. **Singh TP**, Morrow WR, Naftel DC, Dupuis JC, Spicer R, Schowengerdt K, Ring S, for the Pediatric Heart Transplant Study Group (PHTS). Hyperlipidemia in children after cardiac transplantation. *J Heart Lung Transplant* 2002;21(1):172-173.

16. Kulkarni A, Tantengco MV, Pettersen M, **Singh TP**, Humes RA. Low cost tele-echocardiography in an urban/suburban environment. *J Am Coll Cardiol* 2002 (supplement);39(5):448A.
17. **Singh TP**, Humes RA, Muzik O, Kattamasu S, Karpawich PP, Di Carli MF. Myocardial flow reserve in patients with a systemic right ventricle after atrial switch repair. *J Am Coll Card* 2001;37:2120-5. In Schlant RC, editor. *Year Book of Cardiology* 2002. Mosby. 127-129.
18. Horenstein MS, **Singh TP**, Epstein ML, Karpawich PP. Diagnostic efficacy of transthoracic echocardiography as pre-cardioversion screening for thrombi in young congenital heart patients with atrial flutter/fibrillation. *Pediatric Research* 2002 (Suppl) 37A-38A.
19. Stone DM, Dupuis J, Leleszi J, Allasio D, **Singh TP**. Pre-transplant parental psychosocial assessment predicts medical outcome in children after orthotopic heart transplantation. *J Heart Lung Transplant* 2005 (supple) S135.
20. Stone DM, Dupuis J, Leleszi J, Allasio D, **Singh TP**. Pre-transplant parental psychosocial assessment strongly predicts late rejection (>6 months) in children after orthotopic heart transplantation. *Circulation* 2005 (supplement).
21. Stone DM, **Singh TP**, Du W, Aranda JV. Correlation of trough mycophenolic acid levels to mycophenolate mofetil dose based on patient height in pediatric patients following orthotopic heart transplantation. *Pediatric Research* 2006 (supplement).
22. **Singh TP**, Rhodes J. Determinants of heart rate recovery following cessation of maximum-effort exercise in normal children. *Circulation* 2007;115:e224.
23. **Singh TP**, Gauvreau K, Rhodes J, Blume ED. Longitudinal changes in chronotropic response to exercise and heart rate recovery in pediatric heart transplant recipients. *J Am Coll Cardiol* 2007; 49:265.
24. **Singh TP**, Rhodes J, Bastardi HJ, Blume ED. Heart rate recovery from maximal exercise one-year after heart transplantation – effect of autonomic denervation. *J Heart Lung Transplant* 2007;26:S244.
25. **Singh TP**, Rhodes J, Gauvreau K, Blume ED. Longitudinal changes in chronotropic response to exercise and heart rate recovery in pediatric heart transplant recipients. *J Heart Lung Transplant* 2007;26:S122.

26. **Singh TP.** Association of socioeconomic status with heart rate recovery following maximal exercise in children. *Circulation* 2008;117:e265
27. **Singh TP,** Gauvreau K, Blume ED, Bastardi H, Mayer JE. Socioeconomic position is a predictor of graft failure in pediatric heart transplant recipients. *J Am Coll Cardiol* 2008 (supplement)
28. **Singh TP,** Gauvreau K, Blume ED, Bastardi H, Mayer JE. Socioeconomic position and graft failure in pediatric heart transplant recipients. *J Heart Lung Transplant* 2008,27:S129
29. Almond CS, McEhinney DB, Piercey GE, **Singh TP,** Wood I, Bastardi H, Fynn-Thompson F, Milford EI, Blume ED. Class I and class II HLA sensitization pre-transplant by solid phase assay and early outcome after pediatric heart transplantation. *J Heart Lung Transplant* 2008,27:S173
30. Fynn-Thompson F, Almond CS, Bastardi H, Gauvreau K, **Singh TP,** Smoot LB, Bacha E, Pigula F, Mayer JE, Del Nido P, Blume ED. Heart transplantation for failed fontan circulation. *J Heart Lung Transplant* 2008,27:S242
31. **Singh TP,** Sleeper LA, Lipshultz S, Cinar A, Canter C, Webber SA, Bernstein D, Pahl E, Alvarez J, Towbin JA, Colan SA. Association of left ventricular dilation at listing for heart transplant with post-listing and early post-transplant survival in pediatric dilated cardiomyopathy. *J Heart Lung Transplant* 2008,27:S255
32. Almond CS TR, Gauvreau K, Piercey GE, **Singh TP.** Risk Factors for Mortality Among Children Awaiting Heart Transplantation in the United States: Analysis of Data from the United Network for Organ Sharing (UNOS). *Pediatric Academic Society.* Honolulu, Hawaii (e-publication) 2008.
33. Pieris V, **Singh TP,** Tworetzky W, Gauvreau K, Brown D. Socioeconomic Position and Insurance are Strong Predictors of Fetal Diagnosis of Severe Congenital Heart Disease. *American Academy of Pediatrics* 2008 (e-publication).
34. Mah D, **Singh TP,** Thiagarajan RR, Gauvreau K, Piercy GE, Fynn-Thompson F, Almond CS. Waitlist mortality for infants awaiting heart transplantation in the United States in the current era. *Circulation* 2008 (supplement).

35. **Singh TP**, Givertz M, Semigran M, Costantino F, DeNofrio D, Gauvreau K. Association of race and socioeconomic position with graft failure in heart transplant recipients. *Circulation 2008 (supplement)*
36. **Singh TP**, Gauvreau K, Thiagarajan RR, Piercy GE, Almond CS. Racial differences in waitlist mortality in children listed for heart transplant in the United States in the current era. *Circulation 2008 (supplement)*.
37. Turner D, Muzik O, Forbes T, Sullivan N, **Singh TP**. Assessment of coronary artery size and vasodilator function in children following arterial switch operation. *Circulation 2008 (supplement)*.

Summaries/ Editorial Commentaries for Synopsis

1. The Registry of the International Society of Heart and Lung Transplantation: Third official pediatric report- 1999. Boucek MM, Faro A, Novick RJ, Bennett LE, Fiol B, Keck BM, Hosenpud JD. *The Journal of Heart and Lung Transplantation 1999;18:1151-1172. Synopsis, 2000; 2 (3), 31-32.*
2. Repair of tetralogy of fallot in neonates and young infants. Pigula FA, Khalil PN, Meyer JE, del Nido PJ, Jonas RA. *Circulation 1999;100(suppl II): 157-161. Synopsis 2000; No. 2.*
3. Cholesterol and arterial distensibility in the first decade of life- A population-based study. Leeson CPM, Whincup PH, Cook DG, Mullen MJ, Donald AE, Seymour CA, Deanfield JE. *Circulation. 2000;101:1533-1538. Synopsis, 2001, 3 (1) 26*
4. Impaired endothelial function and increased carotid stiffness in 9-year-old children with low birthweight. Martin H, Hu J, Gennser G, Norman M. *Circulation. 2000;102:2739-2744. Synopsis, 2001, 3 (1) 27-28*
5. Cardiac dysfunction and mortality in HIV-infected children. The prospective P²C² HIV multi-center study. Lipshultz SE, Easley KA, Orav EJ, Kaplan S, Starc TJ, Bricker JT, Lai WW, Moodie DS, Sopko G, Colan SD, for the Pediatric pulmonary and cardiac complications of vertically transmitted HIV infection (P²C² HIV) study group. *Circulation. 2000;102:1542-1548. Synopsis 2001, 3 (2) 18-19.*
6. Survival after reconstructive surgery for hypoplastic left heart syndrome. A 15-year experience from a single institution. Mahle WT, Spray TL, Wernovsky G, Gaynor JW, Clark BJ. *Circulation. 2000;102 (suppl III): III 136- III 141. Synopsis 2001, 3 (2) 19-20.*

PRESENTATIONS

Presentation of original research at refereed international or national meetings

1. Clinical and medical economics of transcatheter coil occlusion of patent ductus arteriosus. Poster presentation during *68th Scientific Sessions, American Heart Association, Anaheim CA; Nov 15, 1995.*
2. A comparison of methodologies to detect ventilatory anaerobic threshold in children. Oral presentation during *10th Annual Scientific Meeting, North American Society of Pediatric Exercise Medicine. Park City, Utah; August 23, 1996.*
3. Myocardial flow reserve and glucose metabolism in survivors of repair of anomalous left coronary artery from pulmonary artery. Oral presentation during *Cardiology Scientific Sessions of American Academy of Pediatrics. Boston, MA; October 27, 1996.*
4. Exercise performance in survivors of repair of anomalous left coronary artery from pulmonary artery. Oral presentation during *69th Scientific Sessions, American Heart Association. New Orleans, LA, Nov 13, 1996.*
5. Assessment of longitudinal changes in systemic right ventricular performance during exercise. Oral presentation at *Cardiology Scientific Sessions of American Academy of Pediatrics, New Orleans, LA, Oct 31, 1997.*
6. Assessment of myocardial glucose metabolism in children with normal cardiac anatomy and function. Oral presentation at *Cardiology Scientific Sessions of American Academy of Pediatrics, New Orleans, LA, Nov 2, 1997.*
7. Myocardial flow reserve in patients with a systemic right ventricle. Oral presentation during *71st Scientific Sessions, American Heart Association, Dallas, TX, Nov11, 1998.*
8. Does myocardial flow reserve limit exercise performance in patients with a systemic right ventricle? Moderated poster presentation during *49th Scientific Session, American College of Cardiology, Anaheim, CA, March 14, 2000.*
9. PET myocardial perfusion imaging: Role in clinical decision-making in children with suspected coronary abnormalities Oral presentation during *73rd Scientific Sessions, American Heart Association, New Orleans, LA, Nov15, 2000.*
10. Vascular reactivity and carotid intimal-medial thickness in children with insulin-dependent diabetes mellitus. Poster presentation at the *51st annual Scientific Sessions, American College of Cardiology, Atlanta, GA, March 18, 2002.*

11. Hyperlipidemia in children after cardiac transplantation. Oral presentation at the 22nd annual Scientific Sessions, International Society for Heart and Lung Transplantation, Washington, DC, April, 13, 2002.
12. Determinants of heart rate recovery following cessation of maximum-effort exercise in normal children. Poster presentation at the Scientific Sessions of the 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Orlando, FL, March 1, 2007
13. Longitudinal Changes in Chronotropic Response to Exercise and Heart Rate Recovery in Pediatric Heart Transplant Recipients. Poster presentation at the 56th annual Scientific Sessions, American College of Cardiology, New Orleans, LA, March 26, 2007
14. Heart Rate Recovery from Maximal Exercise in Children One-Year after Heart Transplantation- Effect of Autonomic Denervation. Poster presentation, 27th annual Scientific Sessions, International Society for Heart and Lung Transplantation, San Francisco, CA, April 2, 2007.
15. Longitudinal Changes in Chronotropic Response to Exercise and Heart Rate Recovery in Pediatric Heart Transplant Recipients. Mini oral presentation, 27th annual Scientific Sessions, International Society for Heart and Lung Transplantation, San Francisco, CA, April 26, 2007.
16. Association of socioeconomic status with heart rate recovery following maximal exercise in children. Poster presentation at the Scientific Sessions of the 47th Annual Conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association, Colorado Springs, CO, March 13, 2008
17. Socioeconomic position is a predictor of graft failure in pediatric heart transplant recipients. Poster presentation at the 57th annual Scientific Sessions, American College of Cardiology, Chicago, IL, March 30, 2008
18. Socioeconomic position and graft failure in pediatric heart transplant recipients. Oral presentation, 28th annual Scientific Sessions, International Society for Heart and Lung Transplantation, Boston, MA, April, 2008
19. Association of left ventricular dilation at listing for heart transplant with post-listing and early post-transplant survival in pediatric dilated cardiomyopathy. Oral presentation, 28th annual Scientific Sessions, International Society for Heart and Lung Transplantation, Boston, MA, April, 2008

Presentation of original research refereed local/regional meetings

1. Myocardial flow reserve and glucose metabolism in survivors of repair of anomalous left coronary artery from pulmonary Artery. Poster presentation during 26th Annual

American Heart Association(Michigan) Cardiovascular Research Forum. East Lansing, MI; September 6, 1996.

2. Regional myocardial blood flow and glucose metabolism in survivors of repair of anomalous left coronary artery from pulmonary artery. Oral presentation during *20th Scientific Meeting of Midwest Pediatric Cardiology Society. Pittsburgh, PA; September 20, 1996.*
3. Assessment of submaximal exercise performance in children: A comparison of methods. Oral Presentation during *20th Scientific Meeting of Midwest Pediatric Cardiology Society. Pittsburgh, PA; September 20, 1996.*
4. Myocardial flow reserve and exercise performance in patients with a systemic right ventricle. Oral presentation during *23rd Scientific Meeting of Midwest Pediatric Cardiology Society. Ann Arbor, MI; September 24, 1999*
5. Role of PET myocardial perfusion imaging in clinical decision-making in children with suspected coronary abnormalities. Oral presentation during *24th Scientific Meeting of Midwest Pediatric Cardiology Society. Milwaukee, Wisconsin; September 14, 2000*
6. Vascular reactivity and carotid intimal-medial thickness in children with insulin-dependent diabetes mellitus. Poster presentation during *Children's Hospital of Michigan 43rd Annual Clinic Days, May10, 2002.*

Invited seminars or lectures

1. *Cardiac Development.* Presentation to Wayne State University neonatal nurse practitioners and nurse practitioners-in-training. Detroit, MI November 1993, November 1994 and November 1995.
2. *Cardiac Development.* Presentation to Division of Cardiology, Henry Ford Hospital, Detroit, MI, February 1997.
3. *Cardiac PET Imaging.* Presentation to Division of Pediatric Cardiology, Children's Hospital of Pittsburgh, PA, August 1, 1997.
4. *Pediatric Cardiac Transplantation.* Presentation to Department of Pediatrics, Henry Ford Hospital, Detroit and St. Joseph Mercy Hospital, Oakland, MI, April 24, 1998.
5. *The Cardiac Transplant Patient.* Presentation to Intensive Care Unit nurses, Children's Hospital of Michigan, May 12, 1998 and November 18, 1998.
7. *Heart Transplantation in Children.* Pediatric Grand Rounds at St. Joseph Mercy Hospital, Oakland, MI, April 7, 1999.

8. *Clinical and Research Applications of Cardiac Positron Emission Tomography (PET)*. Presentation during the symposium “Pediatric Cardiology and Congenital Heart Surgery in the New Millenium” at Hilton Ballroom, Istanbul, Turkey on May 27, 2000.
9. *Pediatric Cardiac Transplantation*. Presentation during the symposium “Pediatric Cardiology and Congenital Heart Surgery in the New Millenium” at Hilton Ballroom, Istanbul, Turkey on May 27, 2000.
10. *Clinical and Research Applications of Cardiac PET Imaging*. Presentation at Dana Children’s Hospital, Tel-Aviv, Israel on May 31, 2000.
11. *Pediatric Cardiac Transplantation*. Presentation at Dana Children’s Hospital, Tel-Aviv, Israel on May 31, 2000.
12. *The Beat Goes on: Pediatric Heart Transplantation – Medical and Surgical aspects*. Presentation during the symposium “Pediatrics at the Cutting Edge” in Children’s Hospital of Michigan 43rd Annual Clinic Days, June 2, 2000.
13. *Emergency Department Presentation of a Pediatric Cardiac Transplant Patient*. Presentation in Emergency Medicine Conference series at Children’s Hospital of MI, September 27, 2000.
14. *Cardiovascular Physiology in Long-term Survivors of Atrial Switch Repair*. Presentation at Cardiovascular Grand Rounds, Department of Cardiology, Henry Ford Hospital, Detroit, MI, October 11, 2000.
15. *Pediatric Heart Transplant Study: What have we learned?* Pediatric Grand Rounds at Children’s Hospital of MI. September 20, 2002.
16. *Cardiac PET Imaging: Clinical and Research Applications*. Presentation to Division of Cardiology, Hospital for Sick Children, Toronto, Canada, November 4, 2002.
17. Expert panel member during pediatric grand rounds *Spirituality and Medicine* presented by Sara Pendelton, MD at Children’s Hospital of MI, January 30, 2004.
18. *Assessment of Coronary Vascular Physiology in Children using PET Imaging*. Presentation to Department of Cardiology, Children’s Hospital, Boston, March 11, 2005.

19. Pediatric Heart Transplantation Frontiers 2007 at Frontiers in Pediatric Cardiology and Cardiovascular Surgery at Children's Hospital Boston. October 5th 2007.