

Stanford



Stephen J. Roth

Professor of Pediatrics (Cardiology)

Pediatrics - Cardiology

CLINICAL OFFICES

- **Cardiovascular Intensive Care Unit**

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- **Pediatric Heart Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Heidi Delgros - Administrative Associate III

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Bio

CLINICAL FOCUS

- Pediatric Cardiology
- Pediatric Cardiac Intensive Care

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pediatrics - Cardiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director, Betty Irene Moore Children's Heart Center, Lucile Packard Children's Hospital, Stanford University, (2011-2020)
- Chief, Division of Pediatric Cardiology, Stanford University School of Medicine, (2011-2020)
- Interim Chief, Division of Pediatric Critical Care, Stanford University School of Medicine, (2016-2018)

HONORS AND AWARDS

- Gallen Professorship, Children's Hospital of Wisconsin (2019)
- Scholarship for Academic Achievement, Harvard University (1977-1979)
- A.B. magna cum laude with High Honors, Harvard University (1980)
- M.D. cum laude, Yale University (1986)

- Norma Bailey Berniker Prize, Yale University (1986)
- New England Pediatric Society Prize, New England Pediatric Society (1986)
- Clinical Investigator Development Award, National Institutes of Health (1992-1997)
- Faculty Teaching Award, Department of Cardiology, Children's Hospital Boston (1999)
- Listed, Best Doctors in America (2001-present)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Cardiology, American Board of Pediatrics (1994)
- Medical Education: Yale School Of Medicine (1986) CT
- Fellowship: Children's Hospital Boston (1992) MA
- Residency: Children's Hospital Boston (1989) MA
- Internship: Children's Hospital Boston (1987) MA
- M.P.H., Harvard School of Public Health , Tropical Public Health (1986)
- M.D., Yale University School of Medicine (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Randomized Therapeutic Trials in Pediatric Heart Disease, NIH/U01 GrantNo. HL68285 2001-2006.

Heparin and the Reduction of Thrombosis (HART) Study. Pediatric Health Research Fund Award, Stanford Univ Sch of Medicine, 2005-2006.

A Pilot Trial fo B-type Natriuretic Peptide for Promotion of Urine Output in Diuretic-Resistant Infants Following Cardiovascular Surgery.Pediatric Health Research Fund Award, Stanford Univ Sch of Medicine, 2005-2006.

CLINICAL TRIALS

- An Open-label Study of Hydromorphone Oral Solution in Subjects Aged 28 Days to 16 Years for Postoperative Pain, Recruiting
- Aminophylline to Prevent Acute Kidney Injury in Children After Cardiac Surgery, Not Recruiting
- Heparin and the Reduction of Thrombosis (HART) Trial, Not Recruiting

Publications

PUBLICATIONS

- **Establishing Entrustable Professional Activities in Pediatric Cardiac Critical Care.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Werho, D. K., DeWitt, A. G., Owens, S. T., McBride, M. E., van Schaik, S., Roth, S. J.
2021
- **Standardized Training for Physicians Practicing Pediatric Cardiac Critical Care.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Tabbutt, S., Krawczeski, C., McBride, M., Amirnovin, R., Owens, G., Smith, A., Wolf, M., Rhodes, L., Hehir, D., Asija, R., Teele, S. A., Ghanayem, N., Zyblewski, et al
2021
- **"Echo pause" for postoperative transthoracic echocardiographic surveillance.** *Echocardiography (Mount Kisco, N.Y.)*
Cox, K., Arunamata, A., Krawczeski, C. D., Reddy, C., Kipps, A. K., Long, J., Roth, S. J., Axelrod, D. M., Hanley, F., Shin, A., Selamet Tierney, E. S.
2019
- **ESTABLISHING ENTRUSTABLE PROFESSIONAL ACTIVITIES IN PEDIATRIC CARDIAC CRITICAL CARE**
Werho, D., DeWitt, A., Owens, S., McBride, M., Van Schaik, S., Roth, S.
LIPPINCOTT WILLIAMS & WILKINS.2019

- **Surgical algorithm and results for repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Mainwaring, R. D., Patrick, W. L., Roth, S. J., Kamra, K., Wise-Faberowski, L., Palmon, M., Hanley, F. L.
2018; 156 (3): 1194–1204
- **The Impact of Massage and Reading on Children's Pain and Anxiety After Cardiovascular Surgery: A Pilot Study*** *PEDIATRIC CRITICAL CARE MEDICINE*
Staveski, S. L., Boulanger, K., Erman, L., Lin, L., Almgren, C., Journel, C., Roth, S. J., Golianu, B.
2018; 19 (8): 725–32
- **Diagnostic errors in paediatric cardiac intensive care** *CARDIOLOGY IN THE YOUNG*
Bhat, P. N., Costello, J. M., Aiyagari, R., Sharek, P. J., Algaze, C. A., Mazwi, M. L., Roth, S. J., Shin, A. Y.
2018; 28 (5): 675–82
- **Surgical algorithm and results for repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals.** *The Journal of thoracic and cardiovascular surgery*
Mainwaring, R. D., Patrick, W. L., Roth, S. J., Kamra, K., Wise-Faberowski, L., Palmon, M., Hanley, F. L.
2018
- **QUALITY OF INR CONTROL IN A CENTRALIZED PHARMACIST-LED PEDIATRIC CARDIOLOGY WARFARIN MANAGEMENT PROGRAM**
Lee, J., Murray, J., Wilkens, S., Zhang, Y., Nishioka, F., Rosenthal, D., Roth, S., Murphy, D., McElhinney, D., Almond, C.
ELSEVIER SCIENCE INC.2018: 609
- **The Burdens of Offering: Ethical and Practical Considerations** *WORLD JOURNAL FOR PEDIATRIC AND CONGENITAL HEART SURGERY*
Kirsch, R. E., Coronado, J., Roeleveld, P. P., Tweddell, J., Mott, A. M., Roth, S. J.
2017; 8 (6): 715–20
- **Interprofessional Team's Perception of Care Delivery After Implementation of a Pediatric Pain and Sedation Protocol.** *Critical care nurse*
Staveski, S. L., Wu, M., Tesoro, T. M., Roth, S. J., Cisco, M. J.
2017; 37 (3): 66-76
- **INSURANCE TYPE IS ASSOCIATED WITH LONGER HOSPITAL DURATION BUT SIMILAR MORTALITY AMONG CHILDREN UNDERGOING CONGENITAL HEART SURGERY**
Ryan, K., Algaze, C., Sakarovitch, C., Do, T., Yarlagadda, V., Fernandes, S., McElhinney, D., Roth, S., Krawczeski, C., Shin, A.
ELSEVIER SCIENCE INC.2017: 569
- **Institution of Veno-arterial Extracorporeal Membrane Oxygenation Does Not Lead to Increased Wall Stress in Patients with Impaired Myocardial Function** *PEDIATRIC CARDIOLOGY*
Koth, A. M., Axelrod, D. M., Reddy, S., Roth, S. J., Tacy, T. A., Punn, R.
2017; 38 (3): 539-546
- **Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience** *JOURNAL OF PEDIATRICS*
Arunamata, A., Axelrod, D. M., Kipps, A. K., McElhinney, D. B., Shin, A. Y., Hanley, F. L., Olson, I. L., Roth, S. J., Tierney, E. S.
2017; 180: 87-?
- **Institution of Veno-arterial Extracorporeal Membrane Oxygenation Does Not Lead to Increased Wall Stress in Patients with Impaired Myocardial Function.** *Pediatric cardiology*
Koth, A. M., Axelrod, D. M., Reddy, S., Roth, S. J., Tacy, T. A., Punn, R.
2016
- **Training fellows and residents in paediatric cardiac critical care.** *Cardiology in the young*
Tabbutt, S., Ghanayem, N., Almodovar, M. C., Charpie, J., Roth, S. J., Fortenberry, J., Bronicki, R.
2016; 26 (8): 1531-1536
- **Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience.** *journal of pediatrics*
Arunamata, A., Axelrod, D. M., Kipps, A. K., McElhinney, D. B., Shin, A. Y., Hanley, F. L., Olson, I. L., Roth, S. J., Selamet Tierney, E. S.
2016
- **Silver-Impregnated Dressings for Sternotomy Incisions to Prevent Surgical Site Infections in Children.** *American journal of critical care*

- Staveski, S., Abrajano, C., Casazza, M., Bair, E., Quan, H., Dong, E., Petty, A., Felix, K., Roth, S. J.
2016; 25 (5): 402-408
- **HARMFUL DIAGNOSTIC ERRORS OCCUR FREQUENTLY IN PEDIATRIC CARDIAC INTENSIVE CARE: A MULTI-SITE SURVEY**
Bhat, P. N., Costello, J., Aiyagari, R., Sharek, P., Mazwi, M., Roth, S., Shin, A.
ELSEVIER SCIENCE INC.2016: 1001
 - **Changes in Efficiency and Safety Culture After Integration of an I-PASS-Supported Handoff Process.** *Pediatrics*
Sheth, S., McCarthy, E., Kipps, A. K., Wood, M., Roth, S. J., Sharek, P. J., Shin, A. Y.
2016; 137 (2): 1-9
 - **A Double-Blinded, Randomized, Placebo-Controlled Clinical Trial of Aminophylline to Prevent Acute Kidney Injury in Children Following Congenital Heart Surgery With Cardiopulmonary Bypass.** *Pediatric critical care medicine*
Axelrod, D. M., Sutherland, S. M., Anglemyer, A., Grimm, P. C., Roth, S. J.
2016; 17 (2): 135-143
 - **Training Pathways in Pediatric Cardiac Intensive Care: Proceedings From the 10th International Conference of the Pediatric Cardiac Intensive Care Society.** *World journal for pediatric & congenital heart surgery*
Anand, V., Kwiatkowski, D. M., Ghanayem, N. S., Axelrod, D. M., DiNardo, J., Klugman, D., Krishnamurthy, G., Siehr, S., Stromberg, D., Yates, A. R., Roth, S. J., Cooper, D. S.
2016; 7 (1): 81-88
 - **Exploring Value in Congenital Heart Disease: An Evaluation of Inpatient Admissions.** *Congenital heart disease*
Shin, A. Y., Hu, Z., Jin, B., Lal, S., Rosenthal, D. N., Efron, B., Sharek, P. J., Sutherland, S. M., Cohen, H. J., McElhinney, D. B., Roth, S. J., Ling, X. B.
2015; 10 (6): E278-87
 - **Exploring Value in Congenital Heart Disease: An Evaluation of Inpatient Admissions** *CONGENITAL HEART DISEASE*
Shin, A. Y., Hu, Z., Jin, B., Lal, S., Rosenthal, D. N., Efron, B., Sharek, P. J., Sutherland, S. M., Cohen, H. J., McElhinney, D. B., Roth, S. J., Ling, X. B.
2015; 10 (6): E278-E287
 - **Task Force 5: Pediatric Cardiology Fellowship Training in Critical Care Cardiology** *CIRCULATION*
Feltes, T. F., Roth, S. J., Almodovar, M. C., Andropoulos, D. B., Bohn, D. J., Costello, J. M., Gajarski, R. J., Mott, A. R., Koenig, P.
2015; 132 (6): E81-E90
 - **Association of presence and timing of invasive airway placement with outcomes after pediatric in-hospital cardiac arrest** *RESUSCITATION*
Gupta, P., Rettiganti, M., Gossett, J. M., Kuo, K., Chow, V., Dao, D. T., Roth, S. J.
2015; 92: 53-58
 - **Association of presence and timing of invasive airway placement with outcomes after pediatric in-hospital cardiac arrest.** *Resuscitation*
Gupta, P., Rettiganti, M., Gossett, J. M., Kuo, K., Chow, V., Dao, D. T., Roth, S. J.
2015; 92: 53-8
 - **Utility of Clinical Biomarkers to Predict Central Line-associated Bloodstream Infections After Congenital Heart Surgery.** *Pediatric infectious disease journal*
Shin, A. Y., Jin, B., Hao, S., Hu, Z., Sutherland, S., McCammond, A., Axelrod, D., Sharek, P., Roth, S. J., Ling, X. B.
2015; 34 (3): 251-254
 - **Incidence, Predictors, and Outcomes of Extubation Failure in Children After Orthotopic Heart Transplantation: A Single-Center Experience** *PEDIATRIC CARDIOLOGY*
Gupta, P., Chow, V., Gossett, J. M., Yeh, J. C., Roth, S. J.
2015; 36 (2): 300-307
 - **Cardiac Intensive Care** *ANESTHESIA FOR CONGENITAL HEART DISEASE, 3RD EDITION*
Ben Sivarajan, V., Yeh, J. C., Laussen, P. C., Roth, S. J., Andropoulos, D. B., Stayer, S., Mossad, E. B., MillerHance, W. C.
2015: 720-50
 - **Predictors of Mortality in Pediatric Patients on Venoarterial Extracorporeal Membrane Oxygenation** *PEDIATRIC CRITICAL CARE MEDICINE*
Punn, R., Axelrod, D. M., Sherman-Levine, S., Roth, S. J., Tacy, T. A.
2014; 15 (9): 870-877
 - **Outcomes Following Cardiac Catheterization After Congenital Heart Surgery** *CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS*

- Siehr, S. L., Martin, M. H., Axelrod, D., Efron, B., Peng, L., Roth, S. J., Perry, S., Shin, A. Y.
2014; 84 (4): 622-628
- **Reperfusion pulmonary edema in children with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries undergoing unifocalization procedures: A pilot study examining potential pathophysiologic mechanisms and clinical significance.** *journal of thoracic and cardiovascular surgery*
Asija, R., Roth, S. J., Hanley, F. L., Peng, L., Liu, K., Abbott, J., Zhuo, H., Matthay, M.
2014; 148 (4): 1560-1565
 - **Outcomes following cardiac catheterization after congenital heart surgery.** *Catheterization and cardiovascular interventions*
Siehr, S. L., Martin, M. H., Axelrod, D., Efron, B., Peng, L., Roth, S. J., Perry, S., Shin, A. Y.
2014; 84 (4): 622-628
 - **Reperfusion pulmonary edema in children with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries undergoing unifocalization procedures: A pilot study examining potential pathophysiologic mechanisms and clinical significance** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Asija, R., Roth, S. J., Hanley, F. L., Peng, L., Liu, K., Abbott, J., Zhuo, H., Matthay, M.
2014; 148 (4): 1560-1565
 - **Sedative and analgesic use on night and day shifts in a pediatric cardiovascular intensive care unit.** *AACN advanced critical care*
Staveski, S. L., Tesoro, T. M., Cisco, M. J., Roth, S. J., Shin, A. Y.
2014; 25 (2): 114-118
 - **Sedative and Analgesic Use on Night and Day Shifts in a Pediatric Cardiovascular Intensive Care Unit** *AACN ADVANCED CRITICAL CARE*
Staveski, S. L., Tesoro, T. M., Cisco, M. J., Roth, S. J., Shin, A. Y.
2014; 25 (2): 114-18
 - **Variability of Characteristics and Outcomes Following Cardiopulmonary Resuscitation Events in Diverse ICU Settings in a Single, Tertiary Care Children's Hospital***. *Pediatric critical care medicine*
Gupta, P., Yan, K., Chow, V., Dao, D. T., Gossett, J. M., Leong, K., Franzon, D., Halamek, L. P., Reddy, S., Berg, R. A., Roth, S. J., Nadkarni, V. M.
2014; 15 (3): e128-41
 - **Initial Experience Using Aminophylline to Improve Renal Dysfunction in the Pediatric Cardiovascular ICU** *PEDIATRIC CRITICAL CARE MEDICINE*
Axelrod, D. M., Anglemeyer, A. T., Sherman-Levine, S. F., Zhu, A., Grimm, P. C., Roth, S. J., Sutherland, S. M.
2014; 15 (1): 21-27
 - **One hundred useful references in pediatric cardiac intensive care: the 2012 update.** *Pediatric critical care medicine*
Axelrod, D. M., Klugman, D., Wright, G. E., Chang, A., Bronicki, R., Roth, S. J.
2013; 14 (8): 770-785
 - **Clinical outcome score predicts the need for neurodevelopmental intervention after infant heart surgery** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Mackie, A. S., Alton, G. Y., Dinu, I. A., Joffe, A. R., Roth, S. J., Newburger, J. W., Robertson, C. M.
2013; 145 (5): 1248-?
 - **Postoperative respiratory failure in children with tetralogy of fallot, pulmonary atresia, and major aortopulmonary collaterals: a pilot study.** *Pediatric critical care medicine*
Asija, R., Hanley, F. L., Roth, S. J.
2013; 14 (4): 384-389
 - **Efficacy and Predictors of Success of Noninvasive Ventilation for Prevention of Extubation Failure in Critically Ill Children With Heart Disease** *PEDIATRIC CARDIOLOGY*
Gupta, P., Kuperstock, J. E., Hashmi, S., Arnolde, V., Gossett, J. M., Prodhon, P., Venkataraman, S., Roth, S. J.
2013; 34 (4): 964-977
 - **PREDICTORS OF MORTALITY IN PEDIATRIC PATIENTS ON VENOUS-ARTERIAL EXTRACORPOREAL MEMBRANE OXYGENATION** *62nd Annual Scientific Session of the American-College-of-Cardiology*
Punn, R., Axelrod, D., Roth, S., Tacy, T.
ELSEVIER SCIENCE INC.2013: E436-E436
 - **Pediatric plastic bronchitis: case report and retrospective comparative analysis of epidemiology and pathology.** *Case reports in pulmonology*

- Kunder, R., Kunder, C., Sun, H. Y., Berry, G., Messner, A., Frankovich, J., Roth, S., Mark, J.
2013; 2013: 649365-?
- **Safety and efficacy of prolonged dexmedetomidine use in critically ill children with heart disease** *PEDIATRIC CRITICAL CARE MEDICINE*
Gupta, P., Whiteside, W., Sabati, A., Tesoro, T. M., Gossett, J. M., Tobias, J. D., Roth, S. J.
2012; 13 (6): 660-666
 - **Early Outcomes After Extracardiac Conduit Fontan Operation Without Cardiopulmonary Bypass** *PEDIATRIC CARDIOLOGY*
McCammond, A. N., Kuo, K., Parikh, V. N., Abdullah, K., Balise, R., Hanley, F. L., Roth, S. J.
2012; 33 (7): 1078-1085
 - **Predictors for use of temporary epicardial pacing wires after pediatric cardiac surgery** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Gupta, P., Jines, P., Gossett, J. M., Maurille, M., Hanley, F. L., Reddy, V. M., Miyake, C. Y., Roth, S. J.
2012; 144 (3): 557-562
 - **Pulmonary reperfusion injury after the unifocalization procedure for tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collateral arteries** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Maskatia, S. A., Feinstein, J. A., Newman, B., Hanley, F. L., Roth, S. J.
2012; 144 (1): 184-189
 - **Nursing mortality and morbidity and journal club cycles: paving the way for nursing autonomy, patient safety, and evidence-based practice.** *AACN advanced critical care*
Staveski, S., Leong, K., Graham, K., Pu, L., Roth, S.
2012; 23 (2): 133-141
 - **Rapid Response Team Implementation in a Children's Hospital** *ARCHIVES OF PEDIATRICS & ADOLESCENT MEDICINE*
Sharek, P. J., Parast, L. M., Roth, S. J.
2011; 165 (12): 1139-1139
 - **Hemodynamic correlates of serum cortisol in neonates after cardiopulmonary bypass** *PEDIATRIC CRITICAL CARE MEDICINE*
Mackie, A. S., Gauvreau, K., Booth, K. L., Newburger, J. W., Laussen, P. C., Roth, S. J.
2011; 12 (3): 297-303
 - **Survival after extreme left atrial hypertension and pulmonary hemorrhage in an infant supported with extracorporeal membrane oxygenation for refractory atrial flutter** *PEDIATRIC CRITICAL CARE MEDICINE*
Cisco, M. J., Asija, R., Dubin, A. M., Perry, S. B., Hanley, F. L., Roth, S. J.
2011; 12 (3): E149-E152
 - **Implementation of a Comprehensive Interdisciplinary Care Coordination of Infants and Young Children on Berlin Heart Ventricular Assist Devices** *JOURNAL OF CARDIOVASCULAR NURSING*
Staveski, S. L., Avery, S., Rosenthal, D. N., Roth, S. J., Wright, G. E.
2011; 26 (3): 231-238
 - **PULMONARY REPERFUSION INJURY AFTER THE UNIFOCALIZATION PROCEDURE FOR TETRALOGY OF FALLOT, PULMONARY ATRESIA AND MAJOR AORTOPULMONARY COLLATERAL ARTERIES** *60th Annual Scientific Session and Expo of the American-College-of-Cardiology (ACC) / I2 Summit / ACCF/Herman K. Gold Young Investigator's Award in Molecular and Cellular Cardiology*
Maskatia, S., Feinstein, J. A., Newman, B., Hanley, F. L., Roth, S. J.
ELSEVIER SCIENCE INC.2011: E419-E419
 - **Interagency Registry for Mechanically Assisted Circulatory Support (INTERMACS)-Defined Morbidity and Mortality Associated With Pediatric Ventricular Assist Device Support at a Single US Center The Stanford Experience** *CIRCULATION-HEART FAILURE*
Stein, M. L., Robbins, R., Sabati, A. A., Reinhartz, O., Chin, C., Liu, E., Bernstein, D., Roth, S., Wright, G., Reitz, B., Rosenthal, D.
2010; 3 (6): 682-688
 - **A continuous heparin infusion does not prevent catheter-related thrombosis in infants after cardiac surgery** *PEDIATRIC CRITICAL CARE MEDICINE*
Schroeder, A. R., Axelrod, D. M., Silverman, N. H., Rubesova, E., Merkel, E., Roth, S. J.
2010; 11 (4): 489-495
 - **Cardiac intensive care** *ANESTHESIA FOR CONGENITAL HEART DISEASE*
Laussen, P. C., Roth, S. J., Andropoulos, D. B., Stayer, S. A., Russell, Mossad, E. B.
2010: 583-611

- **Host Factor Vulnerability and Development of Progressive Intraluminal Pulmonary Vein Stenosis after Congenital Heart Surgery** *CONGENITAL HEART DISEASE*
Goff, D. A., Gauvreau, K., del Nido, P. J., Kieran, M. W., Roth, S. J., Jenkins, K. J.
2009; 4 (2): 86-90
- **Use of INTERMACS Criteria To Assess Major Clinical Outcomes In Children Bridged to Heart Transplant Using Mechanical Circulatory Support** *29th Annual Meeting and Scientific Session of the International-Society-for-Heart-and-Lung-Transplantation*
Stein, M. L., Robbins, R., Sabati, A., Reinhartz, O., Chin, C., Liu, E., Bernstein, D., Roth, S., Wright, G., Reitz, B.
ELSEVIER SCIENCE INC.2009: S207–S208
- **Randomized trial of hematocrit 25% versus 35% during hypothermic cardiopulmonary bypass in infant heart surgery** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Newburger, J. W., Jonas, R. A., Soul, J., Kussman, B. D., Bellinger, D. C., Laussen, P. C., Robertson, R., Mayer, J. E., Pedro, J. d., Bacha, E. A., Forbess, J. M., Pigula, F., Roth, et al
2008; 135 (2): 347-U97
- **Response to Frost P and Wise MP: Cardiorespiratory Arrests and Rapid Response Teams in Pediatrics** *Journal of the American Medical Association*
Sharek PJ, Roth SJ
2008; 299: 1423-1424
- **Effect of a rapid response team on hospital-wide mortality and code rates outside the ICU in a children's hospital** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Sharek, P. J., Parast, L. M., Leong, K., Coombs, J., Earnest, K., Sullivan, J., Frankel, L. R., Roth, S. J.
2007; 298 (19): 2267-2274
- **Heparin and catheter-related thrombosis in infants following cardiac surgery: Interim results from a randomized trial** *80th Annual Scientific Session of the American-Heart-Association (AHA)*
Schroeder, A. R., Silverman, N., Axelrod, D. M., Merkel, E., Roth, S. J., Packard, L.
LIPPINCOTT WILLIAMS & WILKINS.2007: 515–15
- **Determinants of early outcome after neonatal cardiac surgery in a developing country** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Bakshi, K. D., Vaidyanathan, B., Sundaram, K. R., Roth, S. J., Shivaprakasha, K., Rao, S. G., Nair, S. G., Chengode, S., Kumar, R. K.
2007; 134 (3): 765-771
- **Indication for initiation of mechanical circulatory support impacts survival of infants with shunted single-ventricle circulation supported with extracorporeal membrane oxygenation** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Allan, C. K., Thiagarajan, R. R., del Nido, P. J., Roth, S. J., Almodovar, M. C., Laussen, P. C.
2007; 133 (3): 660-667
- **Cerebral perfusion and oxygenation after the Norwood procedure: Comparison of right ventricle-pulmonary artery conduit with modified Blalock-Taussig shunt** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Kussman, B. D., Gauvreau, K., DiNardo, J. A., Newburger, J. W., Mackie, A. S., Booth, K. L., del Nido, P. J., Roth, S. J., Laussen, P. C.
2007; 133 (3): 648-655
- **Design of a large cross-sectional study to facilitate future clinical trials in children with the Fontan palliation** *AMERICAN HEART JOURNAL*
Sleeper, L. A., Anderson, P., Hsu, D. T., Mahony, L., McCrindle, B. W., Roth, S. J., Saul, J. P., Williams, R. V., Geva, T., Colan, S. D., Clark, B. J.
2006; 152 (3): 427-433
- **Somatic growth after ventricular septal defect in malnourished infants** *JOURNAL OF PEDIATRICS*
Vaidyanathan, B., Roth, S. J., Gauvreau, K., Shvaprakasha, K., Rao, S. G., Kumar, R. K.
2006; 149 (2): 205-209
- **Homograft valved right ventricle to pulmonary artery conduit as a modification of the Norwood procedure** *78th Annual Scientific Session of the American-Heart-Association*
Reinhartz, O., Reddy, V. M., Petrossian, E., Macdonald, M., Lamberti, J. J., Roth, S. J., Wright, G. E., Perry, S. B., Suleman, S., Hanley, F. L.
LIPPINCOTT WILLIAMS & WILKINS.2006: I594–I599
- **Summary proceedings from the cardiology group on postoperative cardiac dysfunction** *Newborn Drug Development Initiative Workshop*
Roth, S. J., Adatia, I., Pearson, G. D.
AMER ACAD PEDIATRICS.2006: S40–S46

- **Response to Haas NA and Camphausen CK: Triiodothyronine in Neonatal Heart Surgery - Looking for an Answer** *Journal of Thoracic and Cardiovascular Surgery*
Mackie AS, Newburger JW, Roth SJ
2006; 131 (2): 506
- **A randomized, double-blind, placebo-controlled pilot trial of triiodothyronine in neonatal heart surgery** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Mackie, A. S., Booth, K. L., Newburger, J. W., Gauvreau, K., Huang, S. A., Laussen, P. C., DiNardo, J. A., Del Nido, P. J., Mayer, J. E., Jonas, R. A., McGrath, E., Elder, J., Roth, et al
2005; 130 (3): 810-816
- **Management of infants with large, unrepaired ventricular septal defects and respiratory infection requiring mechanical ventilation** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Bhatt, M., Roth, S. J., Kumar, R. K., Gauvreau, K., Nair, S. G., Chengode, S., Shivaprakasha, K., Rao, S. G.
2004; 127 (5): 1466-1473
- **Extracorporeal membrane oxygenation support of the Fontan and bidirectional Glenn circulations** *ANNALS OF THORACIC SURGERY*
Booth, K. L., Roth, S. J., Thiagarajan, R. R., Almodovar, M. C., Del Nido, P. J., Laussen, P. C.
2004; 77 (4): 1341-1348
- **The influence of hemodilution on outcome after hypothermic cardiopulmonary bypass: Results of a randomized trial in infants** *82nd Annual Meeting of the American-Association-for-Thoracic-Surgery*
Jonas, R. A., Wypij, D., Roth, S. J., Bellinger, D. C., Visconti, K. J., du Plessis, A. J., Goodkin, H., Laussen, P. C., Farrell, D. M., Bartlett, J., McGrath, E., Rappaport, L. J., Bacha, et al
MOSBY-ELSEVIER.2003: 1765-74
- **Human pulmonary valve endothelial cells express functional adhesion molecules for leukocytes** *JOURNAL OF HEART VALVE DISEASE*
Dvorin, E. L., Jacobson, J., Roth, S. J., Bischoff, J.
2003; 12 (5): 617-624
- **Extracorporeal membrane oxygenation as a bridge to cardiac transplantation in a patient with cardiomyopathy and hemophilia A** *INTENSIVE CARE MEDICINE*
Thiagarajan, R. R., Roth, S. J., Margossian, S., Mackie, A. S., Neufeld, E. J., Laussen, P. C., Forbess, J. M., Blume, E. D.
2003; 29 (6): 985-988
- **Cardiovascular tissue engineering: constructing living tissue cardiac valves and blood vessels using bone marrow, umbilical cord blood, and peripheral blood cells.** *journal of cardiovascular nursing*
Perry, T. E., Roth, S. J.
2003; 18 (1): 30-37
- **Cardiac catheterization of patients supported by extracorporeal membrane oxygenation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Booth, K. L., Roth, S. J., Perry, S. B., Del Nido, P. J., Wessel, D. L., Laussen, P. C.
2002; 40 (9): 1681-1686
- **Anticipatory use of venoarterial extracorporeal membrane oxygenation for a high-risk interventional cardiac procedure.** *Respiratory care*
Carmichael, T. B., Walsh, E. P., Roth, S. J.
2002; 47 (9): 1002-1006
- **Outcome of ventricular septal defect repair in a developing country** *JOURNAL OF PEDIATRICS*
Vaidyanathan, B., Roth, S. J., Rao, S. G., Gauvreau, K., Shivaprakasha, K., Kumar, R. K.
2002; 140 (6): 736-741
- **Aortic valve endothelial cells undergo transforming growth factor-beta-mediated and non-transforming growth factor-beta-mediated transdifferentiation in vitro** *AMERICAN JOURNAL OF PATHOLOGY*
Paranya, G., Vineberg, S., Dvorin, E., Kaushal, S., Roth, S. J., Rabkin, E., Schoen, F. J., Bischoff, J.
2001; 159 (4): 1335-1343
- **Synchronized independent lung ventilation in palliated congenital heart disease with variable sources of pulmonary blood flow.** *Pediatric critical care medicine*
Almodovar, M. C., Laussen, P. C., Roth, S. J.
2000; 1 (1): 79-83

- **Effects of a monoclonal antibody to P-selectin on recovery of neonatal lamb hearts after cold cardioplegic ischemia** *CIRCULATION*
Nagashima, M., Shin'oka, T., Nollert, G., Shum-Tim, D., Hickey, P. R., Roth, S. J., Kirchhoff, A., Springer, T. A., Burke, P. R., Mayer, J. E.
1998; 98 (19): II391-II397
- **Transendothelial chemotaxis of human alpha/beta and gamma/delta T lymphocytes to chemokines** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Roth, S. J., Diacovo, T. G., Brenner, M. B., Rosat, J. P., Buccola, J., Morita, C. T., Springer, T. A.
1998; 28 (1): 104-113
- **Perioperative effects of alpha-stat versus pH-stat strategies for deep hypothermic cardiopulmonary bypass in infants** *77th Annual Meeting of the American-Association-for-Thoracic-Surgery*
du Plessis, A. J., Jonas, R. A., Wypij, D., Hickey, P. R., Riviello, J., Wessel, D. L., Roth, S. J., Burrows, F. A., Walter, G., Farrell, D. M., Walsh, A. Z., Plumb, C. A., Del Nido, et al
MOSBY-ELSEVIER.1997: 991-1000
- **Contrasting responses to multiple chemotactic stimuli in transendothelial migration - Heterologous desensitization in neutrophils and augmentation of migration in eosinophils** *JOURNAL OF IMMUNOLOGY*
Kitayama, J., Carr, M. W., Roth, S. J., Buccola, J., Springer, T. A.
1997; 158 (5): 2340-2349
- **Neutrophil rolling, arrest, and transmigration across activated, surface-adherent platelets via sequential action of P-selectin and the beta(2)-integrin CD11b/CD18** *BLOOD*
Diacovo, T. G., Roth, S. J., Buccola, J. M., Bainton, D. F., Springer, T. A.
1996; 88 (1): 146-157
- **Interactions of human alpha/beta and gamma/delta T lymphocyte subsets in shear flow with E-selectin and P-selectin** *JOURNAL OF EXPERIMENTAL MEDICINE*
Diacovo, T. G., Roth, S. J., Morita, C. T., Rosat, J. P., Brenner, M. B., Springer, T. A.
1996; 183 (3): 1193-1203
- **Effects of endothelin-1 and L-arginine after cold ischemia in lamb hearts** *ANNALS OF THORACIC SURGERY*
Hiramatsu, T., Forbess, J. M., Miura, T., Roth, S. J., CIOFFI, M. A., Mayer, J. E.
1996; 61 (1): 36-40
- **Characterization of transendothelial chemotaxis of T lymphocytes** *JOURNAL OF IMMUNOLOGICAL METHODS*
Roth, S. J., Carr, M. W., Rose, S. S., Springer, T. A.
1995; 188 (1): 97-116
- **C-C chemokines, but not the C-X-C chemokines interleukin-8 and interferon-gamma inducible protein-10, stimulate transendothelial chemotaxis of T lymphocytes** *EUROPEAN JOURNAL OF IMMUNOLOGY*
Roth, S. J., Carr, M. W., Springer, T. A.
1995; 25 (12): 3482-3488
- **Ten-year institutional experience with palliative surgery for hypoplastic left heart syndrome. Risk factors related to stage I mortality.** *Circulation*
Forbess, J. M., Cook, N., Roth, S. J., Serraf, A., Mayer, J. E., Jonas, R. A.
1995; 92 (9): II262-6
- **EFFECTS OF ENDOTHELIN-1 AND ENDOTHELIN-A RECEPTOR ANTAGONIST ON RECOVERY AFTER HYPOTHERMIC CARDIOPLEGIC ISCHEMIA IN NEONATAL LAMB HEARTS** *67th Scientific Session of the American-Heart-Association*
Hiramatsu, T., Forbess, J., Miura, T., Roth, S. J., CIOFFI, M. A., Mayer, J. E.
LIPPINCOTT WILLIAMS & WILKINS.1995: 400-404
- **Effects of endothelin-1 and endothelin-A receptor antagonist on recovery after hypothermic cardioplegic ischemia in neonatal lamb hearts.** *Circulation*
Hiramatsu, T., Forbess, J., Miura, T., Roth, S. J., CIOFFI, M. A., Mayer, J. E.
1995; 92 (9): II400-4
- **MONOCYTE CHEMOATTRACTANT PROTEIN-1 ACTS AS A T-LYMPHOCYTE CHEMOATTRACTANT** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Carr, M. W., Roth, S. J., Luther, E., Rose, S. S., Springer, T. A.
1994; 91 (9): 3652-3656