University Of Colorado Anschutz Campus

Children’s Hospital Colorado

***CURRICULUM VITAE***

**James Jaggers, M.D.**

 **Date printed:** July 5, 2022

Professor at Surgery and Pediatrics University of Colorado

The Barton-Elliman Chair of Pediatric Cardiac Surgery

Co-Director of the Heart Institute, Childrens Hospital Colorado

Chief Congenital Cardiac Surgery

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Primary Academic Appointment: Surgery

Secondary Academic Appointment: Pediatrics

Date and Rank of Faculty Appointment: Professor of Surgery: April 25, 2010

 Professor of Pediatrics April 2022

**Medical Licensure:** License: Issue date:

 Colorado (active) #32759 03/25/2010

North Carolina (Inactive) #96-00954 9/10/1996

Virginia (Inactive) #0101233662 10/02/2002

Nebraska

**Specialty Certification(s):**

Diplomate American Board of Surgery; May 10, 1994, #39329

Diplomate American Board of Thoracic Surgery; #5966, June 1997, , Recert, 2007, 2016

Sub-Specialty Certification in Congenital Heart Surgery, #31, February 2010, Recert, 2016

**Date of Birth:** September 10, 1963, **Place**: Alliance, NE

**Spouse:** Faith Ann Fisher

**Children:** Jennie Ann Jaggers, Joseph Jaggers, Nathaniel James Jaggers, Samuel James Jaggers

**Education: Institution Date Degree**

**High School** Alliance High School 6/81 HS diploma

**College** Chadron State College 8/81 – 5/84 University of Nebraska 8/84 – 5/88 BS

**Graduate or Professional** University of Nebraska 8/84 – 5/88 MD

**Professional Training and Academic Career:**

**Institution Position/Title Dates**

Oregon Health Sciences University General Surgery Residency 7/1/88-6/31/93

University of Colorado Health Sciences Center

Thoracic Surgery Residency 7/1/93-6/31/96

The Children’s Hospital Post Graduate Fellowship 7/1/93-12/31/93

Denver, CO Congenital Cardiac Surgery 1/1/95-6/31/96

**Faculty Positions:**

**Duke University Medical Center:** Assistant Professor of Surgery, Division of Thoracic Surgery

July- 1996 through August 2000.

**University of Missouri Kansas City Missouri**, Childrens Mercy Hospital, Kansas City Missouri.

Associate Professor of Surgery Department of Pediatric Cardiac Surgery

August 2000 through December 2000.

**Duke University Medical Center**: Chief of Congenital Cardiac Surgery, Associate Professor of Surgery and Pediatrics with tenure.

January 2001 through April 2010.

**University of Colorado**: Professor of Surgery with Tenure 2011-present

**Professional Leadership Development**

Leadership Development for Physicians in Academic Health Centers, T.H. Chan School of Public Health, Harvard University, October 8-20, 2017.

American Association of Thoracic Surgery Division Chief Leadership Academy: May 6, 2011 Philadelphia PA.

Childrens Hospital Colorado Leadership Development 2011-2012

American College of Surgeons, Joint Leadership Program in Health Policy & Management, Brandeis University, May 15-20, 2005

**Current Administative Roles:**

Chief of Pediatric Cardiovascular Surgery CHC

Co-Director of CHC Heart Institute

Medical-Director Perfusion services CHC

Program Director Congenital Cardiac Surgery Fellowship 2019-present

Surgical Director for Adult Congenital Heart Surgery

Childrens Hospital Colorado Board Executive Finance Committee

Steering Committee CCS srategic Plan 2022.

Center for Childrens Surgery committee.

Pediatric Surgery Chief Search Committee 2022

Pediatric Cardiology Section Head Search Committee 2022

**Past Adminstrative roles**

Steering Committee, Department of Surgery Strategic Plan 2021-22

CHCO Interventional Cardiology Search Committee 2018

CHCO Chief of Imaging Search Committee 2018

CHCO Surgeon in Chief Search Committee member 2011

Childrens Hospital Colorado Task Force of International Care:

Clinical Task Force: Practice Plan UCH School of Medicine: 5/2012 - 2013

Childrens Hospital Medical Staff Leadership Committee: 1/1/2011 -2013

Physician and Nursing Leadership Development: July 2012-2016

**Duke University administrative activities**

Co-Director Pediatric Heart Center DUMC

Surgical Director – Pediatric Cardiac Intensive Care

Surgical Director – ECMO Program

Duke University Pediatric Surgical Subspecialist Leadership Council

Member, Duke Heart Center Operations Committee, Duke Medical Center (2 yr appointment -8/2008)

Member, Pediatric Heart Executive Committee, Duke University Medical Center,

Chair, Children’s Marketing Committee, Duke Medical Center (2008-2010)

Member, Performance Improvement for Children’s Services (2007 - 2010)

Perioperative Executive Committee, Duke Medical Center (2007 – 2010)

Chair, Pediatric Patient Satisfaction Committee, Duke Medical Center (2007-2009

**Teaching responsibilities including continuing education:**

Program Director Congenital Cardiac Surgery Fellowship 2019-present

Program Director Pediatric Heart Transplant and VAD surgical Fellowship 2022

Core course – General Surgery for medical students

Cardiothoracic Surgery Resident and Fellow teaching

Core course instruction for Pediatric Cardiology Fellows and Pediatric Cardiac ICU Nurses

Medical Student Mentor program

**Areas of research interests (basic and translational):**

* 1. Regenerative cellular therapy for cardiac dysfunction in CHD
	2. Multicenter study for the use of Steroid therapy in Neonates Undergoing Open Cardiac Surgery
	3. Supplementation of Alkaline Phosphatase will result in imporved renal and Intestinal function following DHCA and CPB in a rat and piglet Model.
	4. Signalling Mechanism in the Development of Calcific Aortic Stenosis and Congenital Aortic Stenosis
	5. Development of novel Extracorporeal Circulatory Assist Devices
	6. Modulation of the inflammatory effects of cardiopulmonary bypass
	7. Basic endothelial cell biology in cardiopulmonary bypass
	8. Outcomes and evidence-based medicine in congenital heart surgery
	9. Molecular mechanisms of neurologic injury associated with CPB: Proteomic and genomic analsysis
	10. Molecular pathophysiology of myocardial hypertrophy

**Research Funding**

**External Support - Gifts, Grants, and Contracts: Amount Duration**

**Research in Blood Conservation in Cardiothoracic Surgery: The effects of Aprotinin, and Protease Activated Receptors (PAR’s) on Endothelial Cell Coagulation Biology.**

## Co-Investigator

Source: Bayer Pharmaceutical Research $25,000 7/04-7/05

Original Amount: $25,000 1997-98

Renewed: $10,000 1998-99

Purpose: This grant is an investigation of the potential prothrombotic effects of the inflammation associated with cardiopulmonary bypass

Evaluation of the Safety and Efficacy of Seprafilm II® Adhesion Barrier in Pediatric and Cardiac Surgery

Principal Investigator

Source:Genzyme Corporation $2500/patient 1998-1999

Purpose: Safety and efficacy trial of Seprafilm in the prevention of adhesions following cardiac operations in children

The Neonatal Heart and Cardiopulmonary Bypass

Co-investigator

Source: NIH 5 R01 HL63937 $1,925,0009/00 – 06/05

**Cross Species Analysis of Myocardial Susceptibility to Peri-Operative Stress**. 9/1/2007-8/31/2011

Co-Investigator

Principle Investigator: Mihai Podgoreanu MD

NIH R01 HL092971-01 $1,248,706.00

**Decreased Myocardial Calsarcin-1 Contributes to the Development of Cardiac Failure in a Model of Right Ventricular Hypertrophy**

Co-Principle Investigator with Cindy Barrett M.D.

Source: Children’s Miracle Network Grant $25,000 01/06-12/07

Trial of Right Ventricular vs. Modified Blalock-Taussig Shunt in Infants with Single Ventricle Defect Undergoing Staged Reconstruction (single ventricle reconstruction trial)

Co-Principle Investigator

Source: NIH Grant #U01 HL068269-04 $3000±/ patient

**CHSS Database trials** Principle investigator

**HALO Clinical Study: A single arm, prosepctive, non-randomized, multi-center clinical investigation of the SJMTM Masters HPtm 15mm Rotatable Mechanical heart Valve**

Principal Investigator James Jaggers

Source: St. Jude Medical, Cardiology Division d/b/a St. Jude Medical, Cardiovascular and Ablation Technologies Division 2013-2017

**PR152240** - “Alkaline Phosphatase for the Prevention of Intestinal and Renal Injury in a Rat Model of Cardiopulmonary Bypass with Deep Hypothermic Circulatory Arrest” 2016-current

Principal Investigator Jesse Davidson, James Jaggers Co-PI

$271,613

**Trial Innovation Network Study Stress Trial 2018**

Principal Investigator Pass through site Principal Investigator Jeniifer Li MD Duke University Medical Center

Site Principal Investigator James Jaggers MD

$3500 Start up and $500/patient

## Mayo clinic Pediatric Heart Consortium

## Principle Investigator, 2018-present

## Safety Study of Autologous Umbilical Cord Blood Cells for Treatment of Hypoplastic Left Heart Syndrome

## Phase IIb Study of Intramyocardial Injection of Autologous Umbilical Cord Blood Derived Mononuclear Cells during Stage II Surgical Repair of Hypoplastic Left Heart Syndrome (Auto Cell-II)

## Phase I Study of Intramyocardial Injection of Autologous Umbilical Cord Blood-Derived Mononuclear Cells during Fontan Surgical Palliation of Single Right Ventricle-Dependent Congenital Heart Disease, Phase 1 Fontan study (21-3035)

**Scholarships, awards and special recognitions:**

Gold Humanism Honor Society Award University of Colorado 2020

Distinguished Alumni Award Chadron State College Chadron Nebraska, 2020

Meritorious Service Award, 2006 AmSECT Pediatric Conference, American Society of Extracorporeal Technology, Atlanta, Sept 2006

1st Place, C Walton Lillehei Resident Forum Session, AATS 86th Annual Meeting, Philadelphia, PA, April 30, 2006

Professionalism Award, Duke University Medical Students, Duke University Medical Center, April, 2003

Deans Research Fellowship, University of Nebraska Medical Center, 1985

Glenn O. and Evelyn F. Emick Memorial Scholarship, 1981-1983

Golden Eagle Award, Chadron State College, 1981

**National Research Review Boards**

1. Data Safety and Monitoring Board: Prospective, Non‐Randomized, Single Arm, Multicenter Clinical Evaluation of the Edwards Pericardial Aortic Bioprosthesis (Model 11000A) for Pulmonary Valve Replacement

 2016 (NCT02656290)

1. Data Saftey Monitoirng Board: Allogeneic Human Mesenchymal Stem Cell Injection in Patients with HLHS, An open Lable Pilot Study (ELPIS)

**Professional Society Leadership postions: Current**

AATS Clinical Practice Standards Committee 2022-present

Education Committee America Association of Thoracic Surgery 2019-present

Congenital Global Webinar Subcommittee

ABTS Congenital Board Exam Guest Examiner 2021-22

ABTS Written Board exam writing committee 2020-present

Western Thoracic Surgical Assoication Program Committee 2022

ACGME Thoracic Surgery Residency Review Committee 2022-2028

AATS Education Committee Congenital Sub Committee 2021-2024

Thoracic Surgical Directors Association Program Chair Committee

Thoracic Surgery Foundation Research Review Committee 2019- present

**Professional Society Leadership postions:Past**

Western Thoracic Surgery Association Program Committee 2016-2018

The Society of Thoracic Surgeons Standards and Ethics Committee 2012-2018

Congenital Heart Surgeons Society Executive Council 2015-2017

SESATS 12 Writing Committee 2016

Congenital Heart Surgeons Society Joint CHSS ECHSS Meeting 2016 Venice Program Committee Co-Chair

Congenital Heart Surgeons Society Annual Meeting Program Committee 2012-2014, Chair 2015-16

Congenital Heart Surgeons Society Committee on Quality Improvement 2016-2018

TSDA Congenital Cardiac Surgery Milestone project writing committee 2013

AATS Education Committee 2013-2016,

STS Congenital Heart Surgery Workforce 2011-present

Society of Thoracic Surgeons Annual Meeting Program Committee 2010-2013

Pediatric Heart Network Working group on Inflammation and CPB Periperative outcomes 2009

The Society of Thoracic Surgeons Workforce on Annual Meeting,(Surgical Symposium Co-Chair, 2008-2009

Pediatric Heart Network Study Steering Committee for SVR2, 2005 - 2010

Joint PCICS-STS Database Committee, 2005-2010

SESATS IX Congenital Heart Surgery Subcommittee, 2004

The Society of Thoracic Surgeons Congenital Heart Surgery Nomenclature andDatabase Committee,1999-2003

Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, 2007-2008

The Society of Thoracic Surgeons, Program Committee, 2008

The Society of Thoracic Surgeons, Chair, Congenital Symposium, 2008

The Society of Thoracic Surgeons 44th Annual Meeting, Reviewer

Platelet Aggregation Inhibition in Children on Clopidogrel (PICOLO) Steering Committee, 2002-2006

Ad Hoc Committee for Congenital Heart Surgery Initiatives/Outcome Reports Subcommittee, 2000-2002

**Professional Organizations:**

Thoracic Surgical Directors Association

Western Thoracic Surgery Association

American Association for Thoracic Surgery

Society of Thoracic Surgeons

World Society of Pediatric Cardiac Heart Surgeons

The Society of University Surgeons

American College of Surgeons, Fellow

Congenital Heart Surgeons Society

The European Association for Cardiothoracic Surgery Lapsed

American Academy of Pediatrics, Specialty Fellow

International Society for Heart & Lung Transplantation

North Carolina Medical Society

**Patents:**

U.S. Provisional Patent Application Serial No. 61/830,464

Title: PUMP WITH EXTERNAL CONTROLLED COMPRESSION AND METHODS OF PUMPING WITH EXTERNAL CONTROLLED COMPRESSION

Filed: June 3, 2013

Utility Patent Filed Feb 2017

**Social and Philanthropic**

Medical Board Conquering Congenital Heart Disease

Surgeons of Hope Board of Directors 2011-current

**Pediatric Cardiovascular Missions:**

Leon Nicaragua, Hospital HEODRA 1998-2008

Funding Source: Variety Childrens Lifeline

Mission: Educate and train physicians and staff to perform and sustain a pediatric cardiovascular program in Nicaragua.

**Conquering Congenital Heart Disease Medical Advisory Board 2020 -present**

**Variety Childrens Lifeline Medical Advisory Board**: 2004-2007.

**Childrens Heart Foundation Medical Advisory Board: 2010-2015**

**Research Mentees**

**Duke University Pediatric Cardiac Surgery Laboratory**

* **Steven Hanish, MD** 2002-2004: Current Position: Assistant Professor Surgery Emory University
* **Kamran Baig, MD:** 2001-2003: Current position: Specialist Registrar, Thoracic Surgery, Harefield Hospital, London England, 2009-10.
* **Amir M. Sheihk, FRCS** 2004-2006: Current Position: Faculty, Southampton General Hospital Thoracic Surgery
* **Cindy Barrett, MD:** 2005-2006: Current Position: Director, Safety and Quality Improvement, HI Childrens Hospital Colorado. Assistant Professor of Pediatrics, Cardiology, University of Colorado School of Medicine

**Childrens Hospital Colorado University of Colorado**

* **Katja Gist, MD:** 2012-2013: Current Position: Assistant Professor of Pediatric Cardiology, Pediatric Cardiac Critical Care, Children’s Hospital Colorado
* **Derek Ehlers** 2012**-**2016 Biomedical Engineer CHC

**CHC Congenital Cardiac Surgery Fellowship**

**John Karamichaelis, MD** 2009-2010: Current Position University of California San Francisco, Instructor in Cardiothoracic Surgery

**Inder Mehta, MD** 2010-2011: Current Position: Ochsner Medical Center, New Orleans, LA attending.

**Christine Montesa, MD** 2013: Current Position: Cardiothoracic Surgery Fellow, University of San Diego

**Bob Hanfland, MD** 2013-14: University of Texas Hermann Hospital Pediatric Cardiac Surgery

**David Mauchley MD** 2015-2016: University of Alabama Birmingham AL Assistant Professor of Surgery

**Harma Turbendian MD** 2017-2018Faculty UPMC and Wolfson Children’s Hospital Jacksonville FL Asst. Prof Surgery

**Mathew Stone MD** 2018-2019 Faculty University of Colorado Childrens Hospital Colorado. Asst. Prof Surgery

**Taufiek K. Rajab MD 2019-2020** Faculty Medical University of South Carolina

**Emily Downs MD 2020-2021** UVA/ Kings Daughters Hospital

**Neil Venardos MD 2021-2022 Dell** Childrens HospitalUniversity of Texas

**Cardiovascular Fellowship**

**Sunil Panwar, MD** 2009-2011

**Christine Montesa MD 2012-2013**

**Ed Peng, MD** 2013-2015: Current Position: Consultant, Royal Hospital for Sick Children,

 Glasgow, Scotland

**Peer Reviewed Publications:**

1. Open Chest Duration Following Congenital Cardiac Surgery Increases Risk for Surgical Site Infection, John Iguidbashian, Zihan Feng,, Kathryn L. Colborn, Cindy S. Barrett, Shanna R. Newman, Marisa Harris, David N. Campbell, Max B. Mitchell, James Jaggers, Matthew L. Stone, Pediatric Cardiology under review.
2. Neil Venardos, Courtney Mangham, Gareth J. Morgan, Jenny E. Zablah, James Jaggers, Matthew L. Stone,Two-Stage Biventricular Repair of Complex Aortic Atresia,The Annals of Thoracic Surgery,2022,
3. JesseA.Davidson,JustinRobison,LudmilaKhailova,BenjaminS.Frank,JamesJaggers,RichardJ.Ing,ScottLawson,John Iguidbashian,Eiman Ali,Amy Treece,Danielle E. Soranno,Suzanne Osorio-Lujan,and Jelena Klawitter, Metabolomic profiling demonstrates evidence for kidney and urine metabolic dysregulation in a piglet model of cardiac surgery-induced acute kidney injury, Am J Physiol Renal Physiol323: F20–F32, 2022
4. Freddo AM, Mathur S, Dunlevy H, Jaggers J, Khanna A. Endocarditis Caused by Candida parapsilosis Presenting With Severe Thrombocytopenia in a Patient With Tetralogy of Fallot. *World Journal for Pediatric and Congenital Heart Surgery*. 2022;13(2):245-247. doi:[10.1177/21501351211008839](https://doi.org/10.1177/21501351211008839)
5. Wojcik BM, Rajab TK, Newman S, Jaggers J, Mitchell MB. COVID-19 Testing, Surgical Prioritization, and Reactivation in a Congenital Cardiac Surgery Program. *World Journal for Pediatric and Congenital Heart Surgery*. 2021;12(1):150-151. doi:[10.1177/2150135120967012](https://doi.org/10.1177/2150135120967012)
6. Lin Y, Davis TJ, Zorrilla-Vaca A, Wojcik BM, Miyamoto SD, Everitt MD, Campbell DN, Jaggers JJ, Rajab TK. Neonatal heart transplant outcomes: A single institutional experience. J Thorac Cardiovasc Surg. 2021 Nov;162(5):1361-1368. doi: 10.1016/j.jtcvs.2021.01.033. Epub 2021 Jan 23.
7. Ramos, S. A., Morton, J. J., Yadav, P., Reed, B., Alizadeh, S. I., Shilleh, A. H., Perrenoud, L., Jaggers, J., Kappler, J., Jimeno, A., Russ, H. A. (2022). Generation of functional human thymic cells from induced pluripotent stem cells. Journal of Allergy & Clinical Immunology, 149, 767-781.e6. <https://dx.doi.org/10.1016/j.jaci.2021.07.021>
8. Deng, X. S., Meng, X., Fullerton, D., Stone, M., Jaggers, J. (2021). Complement upregulates runx-2 to induce profibrogenic change in aortic valve interstitial cells. Annals of Thoracic Surgery, 112, 1962-1972. <https://dx.doi.org/10.1016/j.athoracsur.2020.12.05>
9. Lin, Y., Davis, T. J., Zorrilla-Vaca, A., Wojcik, B. M., Miyamoto, S. D., Everitt, M. D., Campbell, D. N., Jaggers, J. J., Rajab, T. K. (2021). Neonatal heart transplant outcomes: a single institutional experience. Journal of Thoracic & Cardiovascular Surgery, 162, 1361-1368. <https://dx.doi.org/10.1016/j.jtcvs.2021.01.033>
10. Pagano, E., Frank, B., Jaggers, J., Twite, M., Urban, T. T., Klawitter, J., Davidson, J. (2020). Alterations in metabolites associated with hypoxemia in neonates and infants with congenital heart disease. Congenital Heart Disease, 15, 251-265. <https://dx.doi.org/10.32604/chd.2020.012219>
11. Davidson, J. A., Frank, B. S., Urban, T. T., Twite, M., Jaggers, J., Khailova, L., Klawitter, J. (2021). Serum metabolic profile of postoperative acute kidney injury following infant cardiac surgery with cardiopulmonary bypass. Pediatric Nephrology, 36, 3259-3269. <https://dx.doi.org/10.1007/s00467-021-05095-8>
12. Persson, J. N., Holstein, J., Silveira, L., Irons, A., Rajab, T. K., Jaggers, J., Twite, M. D., Scahill, C., Kohn, M., Gold, C., Davidson, J. A. (2021). Validation of point-of-care ultrasound to measure perioperative edema in infants with congenital heart disease. Frontiers in Pediatrics, 9, 727571. <https://dx.doi.org/10.3389/fped.2021.727571>
13. Schafer, M., Di Maria, M. V., Jaggers, J., Stone, M. L., Ivy, D. D., Barker, A. J., Mitchell, M. B. (2021). High-degree norwood neoaortic tapering is associated with abnormal flow conduction and elevated flow-mediated energy loss. Journal of Thoracic & Cardiovascular Surgery, 162, 1791-1804. <https://dx.doi.org/10.1016/j.jtcvs.2021.01.111>
14. Jaggers J, Downs E, Commentary:  Resident education in congenital heart surgery: Is this the best we can do? JTCVS -21-28 YMTC 17386
15. Michal Schäfer, Benjamin S. Frank, R. Mark Grady, Pirooz Eghtesady, Max B. Mitchell, James Jaggers, D. Dunbar Ivy, Monitoring and evaluation of the surgical Potts shunt physiology using 4-dimensional flow magnetic resonance imaging,The Journal of Thoracic andCardiovascularSurgery,2021,ISSN00225223,https://doi.org/10.1016/j.jtcvs.2021.11.025.
16. Matthew L. Stone, Michal Schäfer, Michael V. DiMaria, Johannes C. von Alvensleben, David N. Campbell, James Jaggers, Max B. Mitchell,Diastolic inflow is associated with inefficient ventricular flow dynamics in Fontan patients,The Journal of Thoracic and Cardiovascular Surgery,Volume163,Issue3,2022,Pages1195-1207,ISSN,00225223,https://doi.org/10.1016/j.jtcvs.2021.06.064.
17. Schäfer M, Browne LP, von Alvensleben JC, Mitchell MB, Morgan GJ, Ivy DD,Jaggers J. Ventricular interactions and electromechanical desynchrony after Ross and Ross-Konno operations. J Thorac Cardiovasc Surg. 2019 Aug;158(2):509-517. PMID: 30928217
18. Schäfer M, Frank BS, Jacobsen R, Rausch CM, Mitchell MB, Jaggers J, Stone ML, Morgan GJ, Browne LP, Barker AJ, Hunter KS, Ivy DD, Younoszai A, Di Maria MV. Patients with Fontan circulation have abnormal aortic wave propagation patterns: A wave intensity analysis study. Int J Cardiol. 2021 Jan 1;322:158-167. doi: 10.1016/j.ijcard.2020.08.063. Epub 2020 Aug 25. PMID: 32853667.
19. Wojcik BM, Rajab TK, Newman S, Jaggers J, Mitchell MB. COVID-19 Testing, Surgical Prioritization, and Reactivation in a Congenital Cardiac Surgery Program. World J Pediatr Congenit Heart Surg. 2021 Jan;12(1):150-151. doi: 10.1177/2150135120967012. Epub 2020 Nov 12. PMID: 33179577.
20. Stone ML, Schäfer M, von Alvensleben JC, Browne LP, Di Maria M, Campbell DN, Jaggers J, Mitchell MB. Increased Aortic Stiffness and Left Ventricular Dysfunction Exist After Truncus Arteriosus Repair. Ann Thorac Surg. 2020 Dec 8:S0003-4975(20)32094-4. doi: 10.1016/j.athoracsur.2020.10.047. Epub ahead of print. PMID: 33307069.
21. Rajab TK, Jaggers J. Extracardiac Fontan Operation: How I Teach It. Ann Thorac Surg. 2020 Oct;110(4):1119-1122. doi: 10.1016/j.athoracsur.2020.06.014. Epub 2020 Jul 18. PMID: 32693037.
22. Jaggers J. Commentary: Surgical options for right ventricular outflow tract reconstruction: Innovate or die. J Thorac Cardiovasc Surg. 2020 Nov;160(5):1289-1290. doi: 10.1016/j.jtcvs.2020.06.044. Epub 2020 Jun 26. PMID: 32900479.
23. Khailova L, Robison J, Jaggers J, Ing R, Lawson S, Treece A, Soranno D, Osorio Lujan S, Davidson JA. Tissue alkaline phosphatase activity and expression in an experimental infant swine model of cardiopulmonary bypass with deep hypothermic circulatory arrest. J Inflamm (Lond). 2020 Aug 12;17:27. doi: 10.1186/s12950-020-00256-2. PMID: 32817746; PMCID: PMC7422466.
24. Schäfer M, Frank BS, Humphries SM, Hunter KS, Carmody KL, Jacobsen R, Mitchell MB, Jaggers J, Stone ML, Morgan GJ, Barker AJ, Browne LP, Ivy DD, Younoszai A, Di Maria MV. Flow profile characteristics in Fontan circulation are associated with the single ventricle dilation and function: principal component analysis study. Am J Physiol Heart Circ Physiol. 2020 May 1;318(5):H1032-H1040. doi: 10.1152/ajpheart.00686.2019. Epub 2020 Mar 13. PMID: 32167782.
25. Schäfer M, Stone ML, Jaggers J, Browne LP, Mitchell MB. Commentary: In vortices veritas-quantitative approach. J Thorac Cardiovasc Surg. 2020 Jun 27:S0022-5223(20)31743-8. doi: 10.1016/j.jtcvs.2020.05.112. Epub ahead of print. PMID: 32768303.
26. Rajab TK, Jaggers J, Campbell DN. Heart transplantation following donation after cardiac death: History, current techniques, and future. J Thorac Cardiovasc Surg. 2020 Mar 31:S0022-5223(20)30529-8. doi: 10.1016/j.jtcvs.2020.02.085. Epub ahead of print. PMID: 32245667.
27. Schäfer M, Browne LP, Jaggers J, Barker AJ, Morgan GJ, Ivy DD, Mitchell MB. Abnormal left ventricular flow organization following repair of tetralogy of Fallot. J Thorac Cardiovasc Surg. 2020 Oct;160(4):1008-1015. doi: 10.1016/j.jtcvs.2019.11.010. Epub 2019 Nov 22. PMID: 31924354.
28. Rajab TK, Jaggers J, Campbell DN. Donation after circulatory death determination pediatric heart transplantation and 10-year outcomes. J Heart Lung Transplant. 2020 May;39(5):491-492. doi: 10.1016/j.healun.2020.02.009. Epub 2020 Feb 20. PMID: 32146106.
29. Michal Schäfer, Alex J Barker, James Jaggers, Gareth J Morgan, Matthew L Stone, Uyen Truong, Lorna P Browne, Ladonna Malone, D Dunbar Ivy, Max B Mitchell, Abnormal aortic flow conduction is associated with increased viscous energy loss in patients with repaired tetralogy of Fallot, *European Journal of Cardio-Thoracic Surgery*, Volume 57, Issue 3, March 2020, Pages 588–595, <https://doi.org/10.1093/ejcts/ezz246>
30. Schäfer M, Frank BS, Humphries SM, Hunter KS, Carmody KL, Jacobsen R, Mitchell MB, Jaggers J, Stone ML, Morgan GJ, Barker AJ, Browne LP, Ivy DD, Younoszai A, Di Maria MV. Flow profile characteristics in Fontan circulation are associated with the single ventricle dilation and function: principal component analysis study. Am J Physiol Heart Circ Physiol. 2020 May 1;318(5):H1032-H1040. doi: 10.1152/ajpheart.00686.2019. Epub 2020 Mar 13. PMID: 32167782.
31. Jaggers J. Commentary: This is your brain, and this is your brain on deep hypothermic cardiac arrest. J Thorac Cardiovasc Surg. 2019 Sep;158(3):893-894. doi: 10.1016/j.jtcvs.2019.03.080. Epub 2019 Apr 4. PMID: 31430845.
32. Schäfer M, Browne LP, von Alvensleben JC, Mitchell MB, Morgan GJ, Ivy DD,Jaggers J. Ventricular interactions and electromechanical desynchrony after Ross and Ross-Konno operations. J Thorac Cardiovasc Surg. 2019 Aug;158(2):509-517. PMID: 30928217
33. Schäfer M, DiMaria MV, Jaggers J, Mitchell MB. Suboptimal neoaortic arch geometry correlates with inefficient flow patterns in hypoplastic left heart syndrome. J Thorac Cardiovasc Surg. 2019 Sep;158(3):e113-e116. doi: 10.1016/j.jtcvs.2019.02.089. Epub 2019 Mar 2. PMID: 30926198.
34. Davidson JA, Urban TT, Tong S, Maddux A, Hill G, Frank BS, Watson JD, Jaggers J, Simões EAF, Wischmeyer P. Alkaline Phosphatase Activity and Endotoxemia After Infant Cardiothoracic Surgery. Shock. 2019 Mar;51(3):328-336. doi: 10.1097/SHK.0000000000001162. PMID: 29664834; PMCID: PMC6191388.
35. Lueth ET, Gist KM, Burkett DA, Landeck BF, Brinton JT, Meier MR, Coffin JM, Schafer M, Jaggers J, Mitchell MB. Retrospective Comparison of the Supported and Unsupported Bovine Jugular Vein Conduit in Children. Ann Thorac Surg. 2019 Aug;108(2):567-573. doi: 10.1016/j.athoracsur.2019.03.021. Epub 2019 Apr 8. PMID: 30974093.
36. Davidson JA, Urban TT, Baird C, Tong S, Woodruff A, Twite M, Jaggers J, Simões EAF, Wischmeyer P. Alkaline Phosphatase in Infant Cardiopulmonary Bypass: Kinetics and Relationship to Organ Injury and Major Cardiovascular Events [.](https://www.ncbi.nlm.nih.gov/pubmed/29144270)J Pediatr. 2017 Nov;190:49-55.e2. doi: 10.1016/j.jpeds.2017.07.035.PMID. 29144270
37. Deng XS, Meng X, Li F, Venardos N, Fullerton D, Jaggers J. MMP-12-Induced, Pro-osteogenic Responses in Human Aortic Valve Interstitial Cells. J Surg Res.2019 Mar;235:44-51. doi: 10.1016/j.jss.2018.09.005. Epub 2018 Oct 23. PubMed
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**Books:**

PEDIATRIC AND CONGENITAL CARDIOLOGY, CARDIAC SURGERY AND INTENSIVE CARE Eduardo da Cruz**,** Dunbar Ivey**, James Jaggers** Springer Verlag London 2014

Second edition in press 2019

**Book Chapters:**

1. Matthew L Stone, Alaine Serraf**, James Jaggers,** Congentially Corrected Transposition, PEDIATRIC AND CONGENITAL CARDIOLOGY, CARDIAC SURGERY AND INTENSIVE Springer Verlag London, Springer reference Second edition 2019
2. Congenital Anomalies of the Aortic Root, Harma K. Turbendian MD, Neil Venardos MD, James Jaggers MD **STS E-Book** 2019
3. James JaggersMD, Charles Cole MD, **Critical Heart Disease in Infants and Children.5th Edition** Eds Ungerleider, Cameron, Nichols,Truncus Arteriosus
4. **James Jaggers MD**, **Master Techniques in Surgery: Cardiac Surgery**; Surgery for anomalies of the Coronary Arteries Grover and Mack, eds. 2016 Wolters Kluwer Pub
5. **James Jaggers**, MD\*, Cindy Barrett, MD\*\*, Bruce Landeck, MD *Subvalvar, Supravalvar and Pulmonary Valvar Obstruction* PEDIATRIC AND CONGENITAL CARDIOLOGY, CARDIAC SURGERY AND INTENSIVE CARESpringer Verlag London, Springer reference 2014
6. Alaine Serraf**, James Jaggers,** Congentially Corrected Transposition, PEDIATRIC AND CONGENITAL CARDIOLOGY, CARDIAC SURGERY AND INTENSIVE Springer Verlag London, Springer reference 2014
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**Selected Abstracts:**

1. Michal Schafer, Caitlin Brateng BS, Matthew L. Stone MD, PhD, € Max Mitchell MD, James Jaggers MD, Joseph Kay, Dunbar Ivy, Kathryn K. Collins MD, FHRS, CEPS-P and Johannes C. von Alvensleben MD, CEPS-P, Immediate change in systolic stretch fraction predicts responsiveness to cardiac resynchronization therapy in patients with congenital heart disease, heart rhythm, vol. 18, no. 8, august supplement 2021
2. Xinsheng Deng; Xianzhong Meng; David Fullerton; **James Jaggers**. Impaired Autophagy Contributes to Toll Like Receptor-4 Induced Osteogenesis in Human Aortic Valve Interstitial Cells. Session Title: Mechanistic Insights into Aortic Valve Disease. Circulation (AHA 2014, Chicago).
3. Xinsheng Deng; Xianzhong Meng; QingChun Zeng; David Fullerton; **James Jaggers**. The Inflammatory and Osteogenic Responses to Tlr4 Stimulation in Human Aortic Valve Interstitial Cells is Greater in Adults Than Children: The Role of Stat3 as a Negative Regulatory Mechanism. Session Title: Inflammation and Adhesion Molecules II. Circulation(AHA 2013, Dallas). Published on Ann Thorac Surg. 2015 ;99(1):62-71.
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7. Lawson DS, Smigla G, Kaemmer D, Walczak R, McRobb C, Shearer IR, Lodge AJ, **Jaggers J**. A clinical evaluation of the Dideco D100 Kids Neonatal Oxygenator. Proc Am Acad CV Perf 2007;28:94.
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12. Lima B, Hughes GC, Lemaire A, **Jaggers J**, Glower DD, Wolfe WG. Short and intermediate-term comparison of aortic root replacement with St Jude® mechanical conduits and aortic allografts. Presented, Southern Thoracic Surgical Association, Orlando, FL, Nov/2005.
13. Walczak R, Lawson DS, Kaemmer D, McRobb C, McDermott P, Smigla G, Shearer I, Lodge A, **Jaggers J**. Evaluation of a preprimed microporous hollow-fiber membrane for rapid response neonatal ECMO. Presented, Academy of Cardiovascular Perfusion, Tampa, FL, Jan/2005.
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25. **Jaggers J**, Ungerleider RM, Kern FH, Meliones JN, Schulman SR, Wilson BG, Greeley WJ. Effects of modified ultrafiltration (MUF) on immediate post CPB pulmonary and cerebral function: A randomized investigation in infants. Southeastern Pediatric Cardiology Society, Sept/1996.

**Invited Lectures**:

1. AATS Continuing series Webinar June 2,2022 Congenital Cardiac Surgery Education
2. Regenerative therapies in Pediatric Cardiac Disease Current State. Grand Rounds Sanford Health System Sioux Falls SD, July 23, 2019.
3. Timing of Transplant for Failing Fontan AATS Toronto Canada May 2019.
4. The role of 3D echocardiography in Congenital Surgery Decision making. 3D Echo Symposium  October 2018, Denver Colorado
5. Surgical therapy of the Aorta in Marfan Syndrome, 2nd Annual Marfan Symposium Colorado, Denver Colorado March 2018
6. STS ACHD Symposium*: Role of CABG for AAOCA and When to Operate on AAOCA RCA.* Fort Lauderdale FL, Jan 28 2018,
7. UCH Surgical Grand Rounds: *Surgical therapy for Coronary Artery Anomalies* November 2017
8. World Congress for Pediatric Cardiology and Cardiac Surgery 2017, Barcelona Spain, *Management of the pulmonary valve in the child after TOF repair*.
9. General Thoracic Surgeons Club, Clearwater Florida March 2017 *Burnout and reliency in Surgeons after adverse events*.
10. STSA Meeting Post Graduate session, Naples Florida 2016, *Surgical techniques and Complications in the Norwood procedure*.
11. CHSS annual Meeting Loews Hotel Chicago October 2016, *Advanced Imaging Effectively Discriminates Vascular Ring Morpholog*y James Jaggers MD, Julian E Cameron, David Mauchley, Brian Fonseca.
12. CHSS ECHSA Joint Meeting 2016 Venice Italy, *Coronary Artery Translocation and direct implantation, An effective method for management of AAOCA with interarterial course and without intramural segment.*
13. AATS May 2016 San Diego Skills Course *Ross Konno Procedure*
14. International Symposium on Congenital Heart Disease, Feb 13 2016, *My Favorite Operation on the Aorta with Video*.
15. Society of Thoracic Surgeons Annual Meeting 2016, Jan 26. Phoenix AZ, Human Factors: *When Bad Things Happen to Good Surgeons Patient Safety Symposium*
16. CHSS 2015 One And Half Ventricle Repair For A Complex Congenitally Corrected Transposition Of Great Arteries
17. UCD Surgical Grand Rounds Dev 2015. *Update on Surgery for Adult Congential Heart Disease*
18. Kaiser Permanente TPMG Grand Rounds: *Coronary Artery Anomalies*., November 2015.
19. 1st Annual Colorado Symposium on Marfan Syndrome & Related Disorders,  *Surgical options for Connective Tissue disorders in children*, Saturday, October 24, 2015
20. Presenter: *Surgical Innovations – Stage 1 to Fontan and Beyond*. 26th Annual Conference of The Western Society of Pediatric Cardiology. Vail, CO. March 2015
21. Moderator: *The Future of Hypoplastic Left Heart Syndrome*. 26th Annual Conference of The Western Society of Pediatric Cardiology. Vail, CO. March 2015
22. Presenter: *Surgical Techniques for Anomalous Aortic Origin of the Coronary Artery – with Surgical Video*. All Childrens Hospital 15th Annual International Symposium on Congenital Heart Disease. St. Petersburg, FL. February 2015
23. Presenter: *Value based reimbursement in congenital cardiac care*. All Childrens Hospital 15th Annual International Symposium on Congenital Heart Disease. St. Petersburg, FL. February 2015
24. Discussant: *Ethics Debate: Must Surgeons in Training Programs Allow Residents to Operate on Their Patients to Satisfy Board Requirements?* The Society of Thoracic Surgeons 51st Annual Meeting. San Diego, CA. January 2015
25. Expert Panelist: *Congenital Heart Surgery Case Presentation & Expert Panel: Anomalous Origin of a Coronary Artery.* Southern Thoracic Surgical Association Annual Meeting. Tucson, Arizona. November 2014
26. Moderator: Session III: Abstracts. Congenital Heart Surgeons’ Society 2014 Annual Meeting, Chicago, IL. October 2014
27. Co-presenter: *Surgical Outcome After Repair of Supravalvar Pulmonary Stenosis Associated with Elastin Arteriopathy.* Congenital Heart Surgeons’ Society 2014 Annual Meeting, Chicago, IL. October 2014
28. Presenter: *My Favorite Operation on a Cardiac Heart Valve.* 14th Annual International Symposium on Congenital Heart Disease. February 2014.
29. Presenter: *Aortic Valve Repair and Panel Discussion*. American Society of Extracorporeal Technology Annual Meeting. November 2013.
30. Expert Panelist: *Congenital Heart Surgery Case presentation and Espert Panel: Operative and Neuroprotective Strategies for Complex Neonatal Aortic Arch Reconstruction.* Southern Thoracic Surgical Association Annual meeting November 2013.
31. Moderator: *Scientific Sessions:* Congenital Heart Surgeons Society Annual Meeting. October 2013.
32. Presenter: *The Spectrum of Anomalous Coronary Arteries*. 3rd European Conference on Pediatric and Neonatal Cardiac Intensive Care. Septermber 2013.
33. Presenter: *Long Term Outcome Multidisciplinary Long-Term Follow Up at an International Level Post Graduate Course*. Annual Meeting of the European Society of Paediatric and Neonatal Intensive Care, Rotterdam, The Netherlands, June 2013
34. Presenter: *Hemodynamics and Congenital Heart Disease: Hypoplastic Left Heart Syndrome.* Annual Meeting of the European Society of Paediatric and neonatal Intensive Care, Rotterdam, The Netherlands, June 2013.
35. Presenter: *Channel your Inner Sherlock Holmes: Five Surgical Scar Clues to ACHD Diagnosis When You Don’t Have a History.* American College of Cardiology, San Francisco, CA 03/11/2013
36. Moderator: *Scientific Session V*, Congenital Heart Surgeons Society, Chicago, Il September 2012
37. Discussant: *Prioritization of Quality Improvement in Pediatric Cardiac Surgery.* Western Thoracic Surgical Association, Maui, HI, June 2012
38. Moderator: *Surgical Considerations in Neonates with Single Ventricle Physiology: Pathophysiology and Management*. Children’s Hospital Colorado Cardiac Conference, Aurora, CO, 03/22/2012
39. Presenter: *Surgical Decision Making in Pulmonary Atresia with Intact Ventricular Septum*. 19th Utah Conference on Congenital Cardiovascular Disease, Snowbird, UT, 03/19/2012
40. Presenter: *The Surgeons Perspective on Coronary Anatomy - Classification and Appreciation of What is Complex*. 12th Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, 02/21/2012
41. *Contemporary Fontan Operation: Association of Type of Cavopulmonary Connection with Early Outcome.* Southern Thoracic Surgical Association Annual Meeting. November 2011.
42. Presenter: *Coronary Artery Translocation Technique*. Congenital Heart Surgeons’ Society 2011 Annual Meeting, Chicago, IL, 10/23/2011
43. Presenter: *Neurologic Outcomes in Neonates with Complex Congenital Heart Disease*. Neonatal Noon Conference, The Children’s Hospital, Aurora, CO, 10/13/2010.
44. Co-presenter: *Anomalous Aortic Origin of a Coronary Artery: Preoperative Diagnosis and Surgical Planning.* Joint Meeting of World Society for Pediatric and Congenital Heart Surgery, Antigua, Guatemala, 07/15-17/2010.
45. Presenter: *Outcomes in Pediatric Cardiac Surgery: More than just a popularity contest.* Pediatric Grand Rounds, Moses Cone Hospital, Greensboro, NC, 11/4/2009.
46. Presenter: *Surgery for AAOCA: Do We Know as Much as We Think We Know.* Baffes Lecture. Children’s Memorial Hospital, Chicago, IL, Feb/2009.
47. Presenter: *Surgery for Peri-Membranous and Muscular VSD.* 9th Annual International Symposium for Congenital Heart Disease. All Children’s Hospital, St. Petersburg, FL, Feb/2009.
48. Co-presenter: *Adult Congenital Heart Disease: Constrasting Management Strategies for Severe Pulmonary Valve Insufficiency*. Duke Heart Center Lecture Series/12th Annual JG Reves, MD Lecture. Duke University Medical Center, Durham, NC, Feb/2009.
49. Moderator: *Congenital Parallel Surgical Symposium*, The Society of Thoracic Surgeons 45th Annual Meeting, San Francisco, CA, Jan/2009.
50. *Anomalous Aortic Origin of a Coronary Aretery: Do We Know More Now Than We Knew a Few Years Ago?* The Society of Thoracic Surgeons 45th Annual Meeting, San Francisco, CA, Jan/2009.
51. Video: *Repair of Anomalous Aortic Origin of the Right Coronary Artery.* Pediatric Mechanical Circulatory Support Meeting, Oregon Health Sciences University, Portland, OR, May/2008.
52. *CPB is a Procoagulant State*. Pediatric Mechanical Circulatory Support Meeting, Oregon Health Sciences University, Portland, OR, May/2008.
53. *Strategies for Improved Neurologic Outcomes in Pediatric Cardiac Surgery*. Grand Rounds, San Antonio Children’s Hospital, San Antonio, TX, Apr/2008.
54. *Surgical Considerations for Late RVOT in Congenital Heart Disease.* Current Concepts for Right Ventricular Outflow Obstruction,American College of Cardiology, 57th Annual Scientific Session, Chicago, IL, Mar/2008.
55. Congenital Surgical Video: *Surgical Repair of AAOCA*. Techniques and Outcomes, American College of Cardiology, 57th Annual Scientific Session, Chicago, IL, Mar/2008.
56. Moderator*: Surgical Management of the Left Ventricular Outflow Tract.* Congenital Parallel Surgical Symposium, The Society of Thoracic Surgeons 44th Annual Meeting, Fort Lauderdale, FL, Jan/2008.
57. Co-Moderator:  *HLHS: Management of the “Less Than Perfect Norwood*”. Congenital Parallel Surgical Symposium vs Congenital, The Society of Thoracic Surgeons 44th Annual Meeting, Fort Lauderdale, FL, Jan/2008.
58. Co-Moderator: *Congenital Parallel Surgical Symposium vs Congenital*, The Society of Thoracic Surgeons 44th Annual Meeting, Fort Lauderdale, FL, Jan/2008.
59. *Surgical Options for the Failing Right Ventricle.* American College of Cardiology, New Orleans, LA, Mar/2007.
60. *Repair of Anomalous Origin of the Right Cronary Artery from the Left Sinus of Valsalva: The unroofing technique.*  Emani SM, Atkins BZ, Jaggers J. The Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, Jan/2007.
61. Video: *Operative and Perfusion Strategies to Minimize CNS Injury During Surgery for CHD*. The Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, Jan/2007.
62. Poster: *Outcome Following Unroofing Procedure for Anomalous Aortic Orgin of Left or Right Coronary Artery*. Emani SM, Fudge JC, Rajagopal K, Herlong R, Daneshmand M, Lodge AJ, Jaggers J. The Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, Jan/2007.
63. *Neurologic Outcomes of Pediatric Cardiac Surgery and Strategies to Prevent Injury.*  Pediatric Grand Rounds, Duke University Medical Center, Durham, NC, Feb/2007.
64. *A Failed Transplant: Lessons Learned.*  Third Annual Betsy Lehman Center, Conference for Patient Safety: Promoting Transparency. Boston, MA, Dec/2006.
65. *Perfusion Strategies to Avoid.* AmSECT/ELSO Pediatric Conference, Atlanta, GA, Sept/2006.
66. *Proteomics of Brain Injury in a Neonatal Model of Deep Hypothermic Circulatory Arrest.* American Association for Thoracic Surgery 86th Annual Meeting, Philadelphia, PA, Apr/2006.
67. *Management of Aortic Root Disease in Marfan’s Syndrome,* Cardiology /Thoracic Surgery Case Management Conference, Duke University Medical Center, Durham, NC, Mar/2006.
68. *C1 Esterase Inhibitor Improves Cardio-Pulmonary Function in a Model of Neonatal Cardiopulmonary Bypass.* The Society of Thoracic Surgeons 42nd Annual Meeting, Chicago, IL, Jan/2006.
69. *Coagulopathy and Inflammation in Neonatal Heart Surgery*: World Congress of Pediatric Cardiology, Buenos Aires, Argentina, Sept/2005.
70. *Lessons Learned From a Failed Transplant.* The Cardiac Center at The Children’s Hospital of Philadelphia, 8th Annual Update on Pediatric Cardiovascular Disease, Lake Buena Vista, FL, Feb/2005.
71. *The Effects of Regulatory Forces on the ICU Environment.* Society of Critical Care Medicine, North Carolina/Virginia Chapter 22nd Annual Scientific Symposium, Keynote address, Williamsburg, VA, June/2004.
72. *Anatomy of an Error: Lessons in Patient Safety*. American Association of Thoracic Surgeons, Postgraduate course; Symposium on Congenital Heart Disease, 84th Annual Meeting, Toronto, Apr/2004.
73. *Repair of Anomalous Right Subclavian Artery with Reimplantation*. Southern Thoracic Surgical Association, Bonita Springs, FL, Nov/2003.
74. *Congenital Coding.* The Society of Thoracic Surgeons Fall Coding Workshop Program, Ft. Lauderdale, FL, Oct/2003.
75. *Stented Bioprosthesis for Right Ventricular Outflow Tract Reconstruction*. American Association of Thoracic Surgeons, 83rd Annual Meeting, Boston, MA, May/2003.
76. *Surgery for DORV.* 3rdAnnual Charleston Mini-symposium on Pediatric Cardiology, Charleston, SC, Mar/2003.
77. *Outcome of Unroofing Procedure for Repair of Anomalous Aortic Origin of Left or Right Coronary Artery.* Southern Thoracic Surgical Association 49th Annual Scientific Meeting, Miami Beach, FL, Nov/2002.
78. *Update in Pediatric Cardiothoracic Surgery*. Association of Physician Assistants in Cardiovascular Surgery, 3rd Annual Summer Educational Meeting, Hilton Head, SC, July/2002.
79. *Update on Congenital Cardiac Surgery*. Pediatric Grand Rounds, North East Medical Center, Concord, NC, Mar/2002.
80. *Optimal HCT for Neonates on CPB*. American Society of Extra-Corporeal Technology, Inc. Pediatric Perfusion Conference. Baltimore, MD, Dec/2001.
81. *Systemic Inflammatory Response in Pediatric Heart Surgery*. American College of Surgeons Annual Clinical Congress, New Orleans, LA, Oct/2001.
82. *Neurologic Injury and Neuroprotective Strategy for Infant Heart Surgery*. The American Society of Extra-Corporeal Technology Regional Meeting, Charlotte, NC, Oct/2000.
83. *Blood Conservation in Pediatric Cardiac Surgery*. The American Society of Extra-Corporeal Technology, Pediatric Perfusion Conference 2000, Houston, TX, Sept/2000.
84. *Inflammatory Effects of CPB: An Organ System Approach*. The American Society of Extra-Corporeal Technology, Pediatric Perfusion Conference 2000, Houston, TX, Sept/2000.
85. *Intraoperative Stents to ‘Rehabilitate’ Severely Stenotic Pulmonary Vessels*. Society of Thoracic Surgeons Meeting, Fort Lauderdale FL, Feb/2000.
86. *Extra-Corporeal Membrane Oxygenation (ECMO) for Post-Cardiotomy Failure in Children: Significance of Shunt Management in the Single Ventricle*. Southern Thoracic Surgical Association, Puerto Rico, Nov/1999
87. *Transposition of the Great Arteries*. The International Nomenclature for Pediatric Cardiac Surgery Subcommittee Meeting, Orlando, FL, Aug/1999.
88. *Current Issues in Aortic Valve Surgery*. Duke Medical Center, Department of Medicine Grand Rounds, Durham, NC, Aug/1999.
89. *Congenital Heart Disease for the New mMllennium*. Oregon Health Sciences University Surgical Grand Rounds, Portland, OR, Mar/1999.
90. *Infant Cardiopulmonary Bypass: A Procoagulant State*. Society of Thoracic Surgeons, San Antonio, TX, Jan/1999.
91. *Deep Hypothermic Circulatory Arrest Creates Variable Periods of No-Reflow That May Contribute to Cerebral Ischemic Injury*. 71st Scientific Session of the American Heart Association, Dallas, TX, Nov/1998.
92. *Feasibility of Asanguinous CPB Prime in Neonates Using a Minicircuit and Vacuum Assisted Venous Drainage*. Congenital Heart Surgeon’s Society, Chicago, IL, Oct/1998.
93. *Anomalies of Pulmonary Venous Connection*. The First International Nomenclature Conference for Pediatric Cardiac Surgery, Chicago, IL, Sept/1998.
94. *Neonatal CPB: A Hypercoaguable State*. Annual Bayer Corporation Meeting, Phoenix, AZ, May/1998.
95. *The Ross Procedure: Shorter Hospital Stay, Decreased Morbidity, and Cost Effective*. The Southern Thoracic Surgical Association, Naples, FL, Nov/1997.
96. *The Need for Prospective Randomized Trials in the Evaluation of Occlusion Devices in Pediatric Cardiac Surgery*. FDA Advisory Panel, Gaithersburg, MD, Oct/1997.
97. *Surgery for Adult Congenital Heart Disease*. Duke University Medical Center, The Duke Heart Center Grand Rounds, Durham, NC, Oct/1997.
98. *The Use of Corticosteroids to Reduce Post-CPB Inflammatory Syndrome in Neonates: Impact of Dose Timing*. Congenital Heart Surgeons Society, Chicago, IL, Sept/1997.
99. *Inflammatory Effects of Cardiopulmonary Bypass in the Infant and Current Surgical Therapy of PDA*. A symposium hosted by the Pediatric Cardiovascular Team: The Care of the Patient with Congenital Heart Disease from Diagnosis to Discharge. Duke University Medical Center, Durham, NC, Sept/1997.
100. *Patent Ductus Arteriosus: Current Therapeutic Concepts*. The Duke Heart Center Grand Rounds, Durham, NC, Mar/1997.
101. *The Effects of Modified Ultrafiltration on Cerebral Metabolic Recovery and Pulmonary Airway Resistance in Neonatal Cardiac Surgery*. SouthEastern Pediatric Cardiology Society Conference, Atlanta, GA, 1996.
102. *Current Therapy of Hypoplastic Left Heart Syndrome*. University of Missouri Cardiac Surgery Grand Rounds, Dec/1995.
103. *Coronary Artery Bypass Versus PTCA for Multivessel Coronary Artery dDsease*. University of Colorado Resident Debates Grand Rounds, Denver, CO, Feb/1995.
104. *Xenotransplantation Versus Total Artificial Heart for the Treatment of End Stage Cardiac Failure*. University of Colorado Resident Debates Grand Rounds, Denver, CO, 1995.
105. *Cardiac tTansplantation: The UCHSC Experience*. American College of Surgeons Colorado Chapter, Colorado Springs, CO, Aug/1994.
106. *Angioplasty vs. Thrombolytic Therapy for Acute Myocardial Infarction*. University of Colorado Resident Debate Grand Rounds, Feb/1994.
107. *Current Therapy of Esophageal Carcinoma*. Legacy Hospitals Medical Surgical Grand Rounds Good Samaritan Hospitals, Portland, OR, 1993.
108. *Popliteal Artery Entrapment Syndrome*. American College of Surgeons Oregon Chapter, Sun River OR, Sept/1992.
109. *An Organ System Analysis of Blunt Abdominal Injury: CT Scan Versus Exploratory Laparotomy*. Northwest Trauma Association Competition, Olympia, WA, 1992.