CURRICULUM VITAE

Name: Thomas J. Preston

Birth: Carlisle, Pennsylvania – May 7, 1973

Professional Address: Nationwide Children's Hospital

Cardiovascular Perfusion

700 Children's Drive, Room T2289

Columbus, OH 43125

E-mail: Thomas.Preston@Nationwidechildrens.org

Home Address: 5002 Johnanne Drive

Groveport, OH 43125 Home: (614) 327-7516

Education and Training:

1993 Associate of Science: California College of Health Science

National City, CA

Major: Respiratory Care

1996 Primary Leadership and Development Course

U.S. Army

2007 Bachelor of Science: The Ohio State University Columbus, OH

Major: Circulation Technology

Certifications:

1991 Emergency Medical Technician

1996 Certified Respiratory Therapist, National Board for Respiratory Care

2001 Registered Respiratory Therapist, National Board for Respiratory Care

2001 Neonatal Pediatric Respiratory Care Specialist, National Board for Respiratory Care

2002 Certified Pulmonary Function Technologist, National Board for Respiratory Care

2002 Registered Pulmonary Function Technologist, National Board for Respiratory Care

2002 Neonatal Resuscitation Program

2002 Pediatric Advanced Life Support Instructor, American Heart Association

2003 Advanced Cardiac Life Support, American Heart Association

2008 Certified Circulation Technologist, International Board of Clinical Technologies

2008 Certified Cardiovascular Perfusionist, American Board of Cardiovascular Perfusion

Work Experience:

1991 - 1994 Soldiers & Sailors Memorial Hospital

Wellsboro, Pennsylvania

Cardiopulmonary Technician

Worked as a cardiopulmonary technician in the adult ICU, ER, pediatrics and general floor areas. Provided ventilator support, EKG, ABG draws, pulmonary toilet

1994 - 1998 75th Ranger Regiment U.S. Army

Ft. Benning, Georgia

Airborne Ranger Medic

Special Operations Medic, providing medical service and treatment to approximately 300 individuals. Performed airborne operations as well as other high-risk training.

1998 - 1999 Columbus Medical Equipment

Columbus, Ohio

Certified Respiratory Therapy Technician

Worked as a home care respiratory therapist. Providing BIPAP, CPAP, and Oxygen setups and follow up care.

1999 - 2002 Children's Hospital of The King's Daughters

Norfolk, Virginia

Certified Respiratory Therapy Technician

Worked primarily as a Pediatric Intensive Care Unit respiratory therapist providing ventilator care, airway management, and ABG sampling and analysis.

2001 - 2002 Nationwide Children's Hospital

Columbus, Ohio

Registered Respiratory Therapist

Pediatric Intensive Care Unit respiratory therapist, responsible for airway maintenance, and ventilator management including high frequency oscillation and percussion.

2005 - 2012 INOtherapeutics

Clinton, NJ

Technical Support Consultant/ RT Faculty Provide National/International technical support to hospitals regarding setup, use and troubleshooting related to the use of nitric oxide. Provide on-site in-servicing to hospitals on the use of the INOvent, DS and nitric oxide (NO).

2002 - 2007 Nationwide Children's Hospital

Columbus, OH

Technical Coordinator for the Respiratory Care, ECMO and Pulmonary Lab.

Responsible for scheduling, study coordination, new equipment evaluation, ECMO patient management team training, implementation of policies and procedures. Responsible for physician lectures related to both ECMO and Respiratory Care. Concurrently served as a member of the Neonatal/ Pediatric Transport team. Providing care for high risk infants and pediatric patients up to 18 years of age, during ground, rotary and fixed wing transports.

- 2006 2007 Interim Neonatal Respiratory Care and ECMO Manager
 93 bed neonatal intensive care unit, with fiscal responsibilities of
 approximately 12 million dollars. Subordinates included a
 combination of Registered Respiratory Therapists, Registered
 Nurses, Certified Respiratory Therapists and Respiratory Assistants.
 Coordinated care of 21 ECMO patients during this time.
- 2007 2011 Staff Cardiovascular Perfusionist ECLS Co-Coordinator

Provide all aspects of cardiopulmonary bypass, cell salvage, and laboratory testing to include; ABX PlateletWorks®, ISTAT, HMS®, TEG® and ACT. Conduct ECMO training to internal and external candidates.

2011 - Chief, Mechanical Cardiopulmonary Assist Programs and Academic Affairs

Fiscally responsible for all mechanical support at Nationwide Children's Hospital. Evaluate, recommend and implement new modalities of support for patients with cardiac and respiratory failure requiring mechanical support. Conduct education and research as appropriate within this field.

Memberships in Professional Societies:

1991	American Association for Respiratory Care (AARC)
1991	National Board for Respiratory Care (NBRC)
1997	Ohio Respiratory Care Board (ORCB)

2005	American Society of Extracorporeal Technology (AmSECT)
2005	American Academy of Cardiovascular Perfusion (AACP)
2007	Associate Editor Journal of ExtraCorporeal Technology
2008	AmSECT Membership Committee
2010	Editorial Advisory Board <i>Perfusion</i>
2010	AmSECT Pediatric Committee
2011	Fellow of Pediatric Perfusion (AmSECT)
2011	ELSO Website Development Committee -Resources Chair
2012	American Academy of Cardiovascular Perfusion Fellow
2013	Reviewer- The International Journal of Artificial Organs

Teaching Experience:

- 2002- Lecturer, Asthma Pediatric Management In-Service, Department of Nursing and Respiratory Care Zanesville, Ohio
- 2002- Lecturer, Extracorporeal Membrane Oxygenation Ohio State University Respiratory Care Program The Ohio State University
- 2002- Lecturer, Basic Ventilator Management In-Service, Physician Residency Program Columbus Children's Hospital The Ohio State University
- 2007- Clinical Instructor The Ohio State University, Circulation Technology Division
- 2010- Clinical Instructor Medical University of South Carolina- School of Health Professions
- 2012- ELSO adult ECMO training course Instructor
- 2013- Clinical Instructor Midwestern University- Cardiovascular Science Program

Presentations/Publications:

- Nankervis CA, Preston TJ, Dysart KC, Wilkinson WD, Chicoine LG, Welty SE, Nelin LD. ACTIVATED CLOTTING TIME VERSUS FACTOR Xa LEVELS FOR DETERMINING APPROPRIATE HEPARIN DOSE IN NEONATES ON VA ECMO. [Poster Presentation], 21st Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, February 2005
- Preston TJ, Olshove VF Jr, Ayad O. Novo-seven use in the (NON-Cardiac) Pediatric ECMO Patient With Uncontrollable Bleeding. [Oral], 22nd Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, February 2006
- Preston TJ, Olshove VF Jr, Ayad O. Novo-seven use in the (NON-Cardiac) Pediatric ECMO Patient With Uncontrollable Bleeding. [Oral], 44th International AmSECT Conference Las Vegas, Nevada, April 2006
- 4. Preston T, Linterman E, Riley J. Alternate uses for the Myocardial Protection System® (MPS) in ECLS. [Abstract] 17th Annual ELSO Conference in conjunction with AmSECT. Atlanta, GA. September 14, 2006.
- 5. Ratliff T, Preston T, Nelin L, Ayad O. An Alternative to Arterial and Venous Line Saturation Monitoring. [Poster Presentation], 23rd Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, February 2007
- 6. Hodge AB, Preston TJ, Riley JB, Olshove VO. Platelet function testing during pediatric cardiac surgery. [Abstract] 45th AmSECT International Conference, Atlanta, GA. April 26, 2007
- 7. Preston TJ, Hodge AB, Riley JB, Leib-Sargel C, Nicol KK. *In-vitro* drug adsorption and plasma free hemoglobin levels associated with hollow fiber oxygenators in the extracorporeal life support (ECLS) circuit. [Oral] 45th AmSECT International Conference, Atlanta, GA. April 26, 2007
- 8. Nankervis CA, Preston TJ, Dysart KC, Wilkinson WD, Chicoine LG, Welty SE, Nelin LD. Assessing heparin dosing in neonates on venoarterial extracorporeal membrane oxygenation. ASAIO J. 2007:53(1);111-114.
- 9. Preston TJ, Hodge AB, Riley JB, Leib-Sargel C, Nicol KK. In vitro drug adsorption and plasma free hemoglobin levels associated with hollow fiber oxygenators in the extracorporeal life support (ECLS) circuit. *JECT*.2007:39(4);234-237
- Preston TJ, Gomez D, Olshove VF, Ratliff TM, Nicol KK, Sargel CL, Chicoine LG. Modified surface coatings and their effect on drug adsorption Within the Extracorporeal Life Support (ECLS) Circuit. [Poster Presentation], 24th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, February 2008.
- 11. Olshove VF, Preston TJ, Gomez D, Burnside JB, Chicoine LG, Nicol KK. Assessment of a platelet bolus on an in-vitro extracorporeal life support (ECLS) circuit. [Poster Presentation], 24th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, February 2008.

- 12. Preston T, Olshove V, Hill S, Cheatham J. Interventional Approach to Hemorrhage Management in an ECMO Patient. [Poster Presentation] ISHAC. Columbus, OH. June 27-29, 2008.
- 13. Burnside J, Olshove V, Preston T, Bennett D, Gomez D. A hybrid OR/Cath Lab Cardiopulmonary Bypass Circuit. [Poster Presentation] ISHAC. Columbus, OH. June 27-29, 2008.
- 14. Preston TJ, Olshove VF Jr, Ayad O, Nicol KK, Riley JB. Novoseven use in a non-cardiac pediatric ECMO patient with uncontrolled bleeding. *JECT*.2008:40(2);123-126.
- 15. Preston T. Nitric Oxide: Today and Tomorrow. [Oral] 13th Annual New/Improved Clinical Respiratory Care Seminar. St. Francis Hospital, Indianapolis, IN. November 14, 2008.
- Gomez D, Preston T, Olshove V, Phillips A, Galantowicz M. Evaluation of a New Generation Neonatal Oxygenator with Integral Arterial Filter. 2009 Annual Meeting of the AACP. Dallas, TX Jan. 2009
- 17. Olshove V, Gomez D, Preston T, Phillips A, Galantowicz M. Bloodless Pediatric Open Heart Surgery, Not for Jehovah's Witness Patients. 2009 Annual Meeting of the AACP. Dallas, TX Jan. 2009
- Gomez D, Preston T, Olshove V, Cheatham, J. Interventional Approach to Hemorrhage Management in an ECMO Patient. [Poster Presentation] 25th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2009
- 19. Gomez D, Preston T, Olshove V, Chicoine L, Nicol K. Air Handling Capabilities of Common ECLS Components. 25th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2009.
- 20. Preston TJ, Gomez D, Olshove VF, Phillips AB, Galantowicz, ME. Comprehensive Assessment of an Oxygenator with Integral Arterial Filter in the Pediatric/Small Adult Population. [Oral] AmSECT 47th International Conference, San Antonio, TX. March 11-14, 2009.
- 21. Gomez D, Preston TJ, Olshove VF, Phillips AB, Galantowicz MG. Evaluation of air handling in a new generation neonatal oxygenator with integral arterial filter. Perfusion 2009:24(2);107-112.
- 22. Stein MA, Preston TJ, Chicoine LG, Shepherd ES, Nankervis CA, Nelin LD. A Randomized Controlled Trial Comparing Fluidic Flip Nasal CPAP to SiPAP in the NICU. [Poster Presentation] 2009 Pediatric Academic Societies' Annual Meeting, Baltimore, MD, May 2-5, 2009.
- 23. Preston TJ, Gomez D, Olshove VF Jr, Phillips A, Galantowicz M. Clinical Gaseous Microemboli (GME) Assessment of an Oxygenator with Integral Arterial Filter in the Pediatric Population. *JECT*.2009;41:226-230

- 24. Preston T. CASMED: Fore-Sight cerebral saturation monitoring. [Oral] 2009 Update on Perfusion Devices, Charleston, SC, Oct. 23, 2009.
- 25. Preston TJ, Olshove V, Gomez D, Wispe JR, Nankervis CA, Welty SE, Nelin LD, Chicoine LG. Utility of PTT and Anti-Factor Xa Levels for Determining Appropriate Heparin Dose in Neonates on VA ECMO. [Poster Presentation] 26th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2010.
- 26. Preston TJ, Olshove VF, Gomez D, Nicol KK, Chase M, Phillips A. Bloodless ECMO in the Jehovah's Witness Patient. [Poster Presentation] 26th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2010.
- 27. Gomez D, Preston TJ, Olshove VF, Nicol KK, Chicoine LG, Phillips AB. Implementation of an ECMO Bleeding Protocol at Nationwide Children's Hospital: Techniques to get Results. [Poster Presentation] 26th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2010.
- 28. Preston T, Kroslowitz, R. Evidence-Based Medicine (EBM) [Fireside Chat] The 2010 Annual Meeting of The American Academy of Cardiovascular Perfusion. Nashville, TN January 28 31, 2010.
- 29. Askegard-Giesman JR, Besner GE, Fabia R, Caniano DA, Preston T, Kenney BD. Extracorporeal membrane oxygenation as a lifesaving modality in the treatment of pediatric patients with burns and respiratory failure. J Pediatr Surg. 2010 Jun;45(6):1330-5.
- 30. Preston T. Techniques for Bloodless Pediatric Cardiac Surgery. [Oral] 21st Annual ELSO Conference in Conjunction with the AmSECT Pediatric Perfusion Conference. St. Petersburg, FL, Oct. 1-3, 2010.
- 31. Thomas J. Preston, BS, CCP; Todd M. Ratliff, AS, RN; Daniel Gomez, BS, CCP; Vincent F. Olshove, Jr., BS, CCP, FPP; Kathleen K. Nicol, MD; Cheryl L. Sargel, Pharm D; Louis G. Chicoine, MD. Modified Surface Coatings and their Effect on Drug Adsorption within the Extracorporeal Life Support Circuit. *JECT*.2010;42:199-202.
- 32. Preston T, Olshove V. Hemostasis Management and Blood Conservation Strategies [Fireside Chat] The 2011 Annual Meeting of The American Academy of Cardiovascular Perfusion. Reno, NV January 27 30, 2011.
- 33. Vincent Olshove, Tom Preston, Alistair Phillips, Daniel Gomez, Joanne Chisolm, Ralf Holzer. Transhepatic Catheterization: Is ECMO support an Absolute Contraindication? [Poster Presentation] 27th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2011.
- 34. Preston, Thomas J., Gomez, Daniel, Olshove, Vincent F., Duffy, Vicky L., Neal, Marcella S., Nicol, Kathleen K., Chicoine, Louis G., McConnel, Patrick, Phillips, Alistair. Inlet Pressure: Moving Target or Set It and Forget It for all patients? [Poster Presentation] 27th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2011.
- 35. Preston, Thomas J., Gomez, Daniel, Olshove, Vincent F., Duffy, Vicky L., Neal, Marcella S., Nicol, Kathleen K., Phillips, Alistair, Chicoine, Louis G. Zero Balance

- Ultrafiltration During ECMO Removes Circulating Cytokines. [Poster Presentation] 27th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2011.
- Preston T., Gomez D., Olshove V., Duffy V., Neal M., Nicol K., Phillips A., Chicoine L. Does Ventilator Type Impact Circulating Cytokines? [Oral] 28th Conference on High-Frequency Ventilation of Infants, Children and Adults. Snowbird, UT, March 29-April 2, 2011.
- 37. Jeffrey Burnside, Daniel Gomez, Thomas J. Preston, Vincent F. Olshove, Jr., Alistair Phillips. In-Vitro Quantification of Gaseous Microemboli in Two Extracorporeal Life Support Circuits. *JECT*.2011;43:123-129.
- 38. Preston, T. Platelet Function, CBC & Coagulation after Protamine Reversal in Cardiac Surgery. [Oral] 2011 Annual Meeting Society for the Advancement of Blood Management. Philadelphia, PA September 22-24, 2011.
- 39. Preston, T. Opiod loss in the ECLS circuit. [Oral] 2nd International Pediatric Perfusion Symposium. Dubai, United Arab Emirates October 23-25, 2011.
- 40. Thomas J. Preston, Vincent F. Olshove Jr., Margaret Chase. Bloodless ECMO in the Jehovah's Witness Patient. *JECT*.2012;44:39-42
- 41. Preston, Thomas J., Duffy, Vicky L., Neal, Marcella S., Hayes, Don Jr., Yates, Andrew R., Chicoine, Louis G. Cannulas: Recommended versus Reality. [Poster Presentation] 28th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2012.
- 42. Duffy, Victoria L., Yates, Andrew R., Preston, Thomas J., Chicoine, Louis G., Neal, Marcella S., McConnell, Patrick I., Hayes, Don Jr. Bi-Caval Dual Lumen Catheter Placement with Transthoracic Echocardiography in a swine model of VenoVenous Extracorporeal Membrane Oxgenation. [Poster Presentation] 28th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2012.
- 43. Yates, Andrew R., Martins, Luciana, Duffy, Victoria L., Chicoine, Louis G., McConnell, Patrick I., Hayes, Don Jr., Preston, Thomas J. Early Tissue Doppler Echocardiographic Changes in a Preclinical model of VA-ECMO Support. [Poster Presentation] 28th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure. Keystone, CO, Feb 2012.
- 44. Naguib, A; Tobias, J; Hall, M; Cismowski, M; Miao, Y; Barry, N; Heard, T; Preston, T; Galantowicz, M; Hoffman, T. The Role of Different Anesthetic techniques in Altering the Stress Response during Cardiac Surgery in Children, a Prospective Randomized Study. SPA/CCAS conferences, Tampa, FL Feb., 2012.
- 45. Preston, T. *Using EDAC Quantifier to Evaluate Microemboli in the Circuit.* [Oral] Optimizing Cardiac Surgery Symposia 2012. Orlando, FL May 17, 2012.
- 46. Hayes D Jr, Yates AR, Duffy VL, Chicoine LG, Nicol KK, Mansour HM, McConnell PI, Preston TJ. Placement of a Bicaval Dual-lumen Catheter in Piglets Using Anatomical Landmarks and Confirmation with Transthoracic Echocardiography Doppler Imaging

- in a Model of Single-venous Venovenous Extracorporeal Membrane Oxygenation. Chest 2012:142(4):770A.
- 47. Hayes D Jr, Preston TJ, McConnell PI, Galantowicz M, Yates AR. Bedside saline-contrast transthoracic echocardiography placement of bicaval dual-lumen catheter for venovenous extracorporeal membrane oxygenation. Am J Respir Crit Care Med (In press)
- 48. Hayes D Jr, Islam S, Kirkby S, Preston TJ, Baker PB. Unusual case of a vanishing bronchus of the left allograft in a lung transplant recipient. Ann Thorac Med (In press)
- 49. Hayes D Jr, Preston TJ, Davis IC, Duffy VL, McConnell PI, Whitson BA, Duffy JS Jr, Yates AR. Contrast transthoracic echocardiography guided placement of a bicaval dual-lumen catheter in a swine model of venovenous extracorporeal membrane oxygenation. Artif Organs (In press)
- 50. Hayes D Jr, Tobias JD, Kukreja J, Preston TJ, Yates AR, Kirkby S, Whitson BA. A review of extracorporeal respiratory support for acute respiratory distress syndrome. Ann Thorac Med (In press)
- 51. Thung A, Hayes D Jr, Preston TJ, Tobias JD. Respiratory support including emergent extracorporeal membrane oxygenation as a bridge to airway dilatation following perioperative bronchial occlusion. Middle East J Anesthesiol (In press)
- 52. Schloss B, Hayes D Jr, Tobias JD. Phenobarbital use in an infant requiring extracorporeal membrane life support. J Anaesthesiol Clin Pharmacol. (In press)
- 53. Kirkby S, Robertson M, Evans L, Tobias JD, Galantowicz M, McKee CT, Preston TJ, Hayes D Jr. Mixture of helium-oxygen to facilitate ventilation in patients with bronchiolitis obliterans syndrome after lung transplantation. Respir Care 2012 Aug 16. [Epub ahead of print]
- 54. Hayes D Jr, Baker PB, Preston TJ, Kirkby S, Galantowicz M, Astor TL, Hoffman TM. Aggressive coronary artery vasculopathy after combined heart-lung transplantation. Congenit Heart Dis 2012 Jun 8. doi: 10.1111/j.1747-0803.2012.00681.x. [Epub ahead of print]
- 55. Aymen N. Naguib, MD, Joseph D. Tobias, MD, Mark W. Hall, MD, Mary J. Cismowski, Ph.D., Yongjie Miao, MS, N'Diris Barry, BS, RN, CRC, Thomas Preston, CCP, Mark Galantowicz, MD, Timothy M. Hoffman, MD. *The Role of Different Anesthetic Techniques in Altering the Stress Response during Cardiac Surgery in Children: A Prospective, Double Blinded and Randomized Study.* Journal of Pediatric Critical Care Medicine (Accepted for publication 11/02/2012)
- 56. Hayes D Jr, Galantowicz M, Preston TJ, Yates AR, Dalton HJ. Interhospital transfer of a child using "awake" venovenous extracorporeal membrane oxygenation for transport and to bridge to lung transplantation. Ann Thorac Surg (Submitted)
- 57. Hayes D Jr, Galantowicz M, Preston TJ, Tzemos K, McConnell PI. Video swallow study and nutritional support during "awake" venovenous extracorporeal membrane oxygenation. Eur Respir J (Submitted)

- 58. Hayes D Jr, Kopp BT, Preston TJ, Kirkby S, Whitson BA. Survival of cystic fibrosis patients on ECMO: Analysis of the Extracorporeal Life Support Organization Registry. Am J Respir Crit Care Med (Submitted)
- Hayes D Jr, Preston TJ. Tracheostomy in pediatric patients bridged to lung transplantation with venonenous extracorporeal membrane oxygenation. Am J Transplant (Submitted)
- 60. Hayes D Jr, McConnell PI, Preston TJ, Yates AR, Kirkby S, Galantowicz M. Active rehabilitation with venovenous extracorporeal membrane oxygenation as a bridge to lung transplantation in a pediatric patient. J Pediatr (Submitted)
- 61. Hayes D Jr, Galantowicz M, Yates AR, Preston TJ, Mansour HM, McConnell PI. Venovenous ECMO as a bridge to lung transplant and protective strategy for subsequent primary graft dysfunction. J Artif Organs (Submitted)
- 62. Hayes D Jr, Higgins RS, Kilic A, Preston TJ, Whitson BA. Survival Impact Of Extracorporeal Membrane Oxygenation In Lung Transplantation: A 21st Century Analysis Of The United Network For Organ Sharing Registry. Am J Respir Crit Care Med (In press)
- 63. Duffy JS, Preston TJ, Davis IC, Duffy VL, Whitson BA, McConnell PI, Yates AR, Hayes D Jr. Contrast transthoracic echocardiography guided placement of a bicaval dual-lumen catheter in a swine model of venovenous extracorporeal membrane oxygenation. Am J Respir Crit Care Med (Accepted)
- 64. Hayes D Jr, Yates AR, Duffy VL, Chicoine LG, Nicol KK, Mansour HM, McConnell PI, Preston TJ. Rapid placement of a Bicaval Dual-lumen Catheter in Piglets Using Anatomical Landmarks and Confirmation with Transthoracic Echocardiography Doppler Imaging in a Model of Single-venous Venovenous Extracorporeal Membrane Oxygenation. Chest 2012:142(4):770A.
- 65. Hayes D Jr, Duffy VL, Olshove VE Jr, Yates AR, Nicol KK, McConnell PI, Preston TJ. Swine Model of Ambulatory Single-venous Venovenous ECMO. Am J Respir Crit Care Med 185;2012:A4483.
- 66. Arlyne K. Thung, Don Hayes Jr., Thomas J. Preston, Joseph D. Tobias. Respiratory Support Including Emergent ExtraCorporeal Membrane Oxygenation as a Bridge to Airway Dilation Following Perioperative Bronchial Occlusion. M.E.J. ANESTH.2012;21(6):879-888.
- 67. Don Hayes, Jr., MD, MS, Thomas J. Preston, CCP, Andrew R. Yates, MD. Contrast transthoracic echocardiography guided placement of a bicaval dual-lumen catheter in a swine model of venovenous extracorporeal membrane oxygenation. Artificial Organs July 2013. (Accepted)
- 68. Yates AR, Duffy VL, Clark TD, Hayes D Jr., Tobias J, McConnell PI, Preston T. Cardiac Tamponade with Maintained VV-ECMO flow in a Bicaval Double Lumen Catheter. 29th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure, Feb. 2013.

- 69. Duffy VL, <u>Yates AR</u>, Preston TJ, Chicoine LG. Quadrox ID Pediatric: Failure within Hours. 29th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure, Feb. 2013.
- Sulkowski, Jason P., Preston, Thomas J., Cooper, Jennifer N., Deans, Katherine J., Chicoine, Louis G., Minneci, Peter C. Measures of Anticoagulation During ECMO: Which Parameter to Follow? 29th Annual CNMC Symposium: ECMO & the Advanced Therapies for Respiratory Failure, Feb. 2013
- 71. L. G. Chicoine, C. L. Montgomery, W. G. Bremer, K. M. Shontz, D. A. Griffin3, K. N. Heller, S. Lewis, V. Malik, C. J. Shilling, K. J. Campbell, T. J. Preston, B. D. Coley, P. T. Martin, C. M. Walker, K. R. Clark, Z. Sahenk, J. R. Mendell, and L. R. Rodino-Klapac. Path forward to vascular delivery for DMD: Plasmapheresis Eliminates the Negative Impact of AAV Antibodies on Therapeutic Gene Expression. Submitted 2013, Science Translational Medicine.