

# Roger Phillip Barton, MD

## Curriculum Vitae

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### Personal Information

<b>Date of Birth:</b>	April 7, 1964	<b>Wife:</b>	Dedrah Gail Barton, RN
<b>Place of Birth:</b>	McAlester, Oklahoma	<b>Children:</b>	Olivia Jill Barton Alexander Joseph Barton
<b>SSN#:</b>	441-66-1893		

### Education

#### Post Graduate

*Pediatric Critical Care Fellowship, Department of Pediatrics* July 1993 – June 1996  
University of Texas Southwestern Medical Center, Children’s Medical Center of Dallas

*Chief Residency in Pediatrics, Department of Pediatrics* July 1992 – June 1993  
University of Oklahoma College of Medicine – Tulsa

*Pediatric Internship / Residency, Department of Pediatrics* July 1990 – June 1993  
University of Oklahoma College of Medicine – Tulsa  
**Honors:** Aesculapian Award 1990 – 1991; 1992 – 1993; Dean’s Resident Advisory Council 1991 – 1993

#### Medical School

*University of Oklahoma College of Medicine* August 1986 – May 1988  
Oklahoma City, Oklahoma

*University of Oklahoma College of Medicine – Tulsa* June 1988 – May 1990  
Tulsa, Oklahoma  
**Honors:** Senior Medical Student Award for Most Outstanding in Pediatrics

#### Undergraduate

*Northeastern State University, Bachelor of Science in Chemistry* August 1984 – 1986  
Tahlequah, Oklahoma

**Honors:** President’s Honor Roll 1984 – 1986

*Connors State College, Associate of Science in Chemistry* June 1982 – May 1984  
Warner, Oklahoma

**Honors:** President’s Honor Roll 1982 – 1984, Phi Theta Kappa Honor Society

### Exams / Licensure / Certifications

Federation Licensing Examination (FLEX) – June 1990  
American Board of Pediatrics Certification Exam – Diplomate 1993 – Current  
American Board of Pediatrics Pediatric Critical Care Sub-Specialty Certification Exam – Diplomate 1998 - Current

#### **State Licensure / DEA Registration**

Oklahoma Certificate #17654 – issued 07/01/1990; active  
Texas Certificate #J3428 – issued 06/15/1993; active  
Kansas Certificate #04-45538 – issued 12/01/2021; active  
Louisiana Certificate #33294 – issued 10/18/2022; active  
Missouri Certificate #2023008415 – issued 01/31/2023; active  
Oklahoma DEA#W23036542C  
Texas DEA #: BB2882175  
Kansas DEA # FB1200548  
Louisiana DEA # FB22205981  
Missouri DEA #FB1200548

#### **PALS (Pediatric Advanced Life Support)**

Certified Provider – 11/90 - current  
Certified Instructor – 2/91 - current  
Regional Faculty – 1/98 – current

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## Professional Affiliations/Organizations

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American Medical Association  
Society of Critical Care Medicine  
Oklahoma State Medical Association

Tulsa County Medical Society  
American Academy of Pediatrics  
Texas Medical Association

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## Current/Past Titles and Positions

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### Academic

*Volunteer Faculty/Clinical Associate Professor* 1996 - 2021  
Department of Pediatrics, University of Oklahoma College of Medicine – Tulsa

*Volunteer Faculty/Clinical Associate Professor* 1996 – 2021  
Department of Pediatrics, Oklahoma State College of Osteopathic Medicine

### Professional

*PICU Staff Physician – Covenant Children’s Hospital; Lubbock, Texas* April 2023 – current  
Pediatric Intensive Care Unit, Division of Pediatric Critical Care  
Covenant Children’s Hospital, Lubbock, Texas

*Locums Pediatric Intensivist – Ochsner Children’s Hospital; New Orleans, Louisiana* December 2022 – current

*Locums Pediatric Intensivist – Covenant Children’s Hospital; Lubbock, Texas* October 2022 – March 2023

*Locums Pediatric Intensivist – Stormont Vail Hospital; Topeka, Kansas* April 2022 – December 2022

*PICU Staff Physician (Providence Children’s Hospital / El Paso Children’s Hospital); El Paso, Texas* November 2021 - current  
Pediatric Intensivists of America, PLLC

*Medical Director* August 1998 – October 2021  
Pediatric Intensive Care Unit, Division of Pediatric Critical Care  
The Children’s Hospital at Saint Francis, Tulsa, Oklahoma

*Director of ECMO Services* April 2023 – current  
Covenant Children’s Hospital; Lubbock, Texas  
Children’s Hospital at Saint Francis; Tulsa, Oklahoma  
*July 2008 – October 2021*

*Director of CRRT Services* July 1998 – October 2021  
The Children’s Hospital at Saint Francis, Tulsa, Oklahoma

*PICU Staff Physician* July 1996 – August 1998  
Pediatric Intensive Care Unit, Division of Pediatric Critical Care  
The Children’s Hospital at Saint Francis, Tulsa, Oklahoma

### Consultative

*Co-President* August 2008 – current  
Acute and Intensive Care Pediatrics of Oklahoma, PLLC

*Physician Quality Consultant* January 2021 – current  
Oklahoma Foundation for Medical Quality/Oklahoma Health Care Authority

*Physician Quality Consultant* March 2011 – December 2020  
Telligen/Oklahoma Health Care Authority

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## Hospital Privileges

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Ochsner Children's Hospital; New Orleans, Louisiana	December 2022 – Current
Covenant Children's Hospital; Lubbock, Texas	October 2022 - Current
Stormont -Vail Hospital; Tokepa, Kansas	April 2022 - Current
El Paso Children's Hospital; El Paso, Texas	January 2022 - Current
Providence Children's Hospital/Hospitals of Providence; El Paso, Texas	November 2021 - Current
Saint Francis Hospital/Children's Hospital at Saint Francis; Tulsa, Oklahoma	July 1994 – October 2021
St. John Medical Center; Tulsa, Oklahoma	1998 – 2009
Hillcrest Medical Center; Tulsa, Oklahoma	1998 – 2009

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## Hospital Committees

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Covenant Children's Hospital Trauma Committee	2023 - Current
El Paso Children's Hospital – Bereavement Committee	2022 - Current
Saint Francis Health System Mortality Review Committee	2019 - 2021
Children's Hospital at Saint Francis VPS Committee (Chairman)	2013 - 2021
Children's Hospital at Saint Francis App Committee Chair	2012 - 2021
Children's Hospital at Saint Francis Inpatient Care Committee	Chair 2010 - 2018; member 2010 - 2021
Children's Hospital at Saint Francis PICU Morbidity / Mortality Committee (Chairman)	1997 - 2021
Children's Hospital at Saint Francis Executive Steering Committee	1997 - 2021
Children's Hospital at Saint Francis ECMO Committee (Chairman)	1996 - 2021
Children's Hospital at Saint Francis Code Blue Advisory Group (Chairman)	1996 - 2016
Children's Hospital at Saint Francis Subspecialist Peer Review Committee (Chairman)	2005 - 2016
Children's Hospital at Saint Francis Nutrition Committee	1998 - 2012
Warren Clinic Quality Assessment Committee	1998 - 2012
Saint Francis Hospital Institutional Ethics Committee	1996 - 2012
Children's Hospital at Saint Francis Acute Care and Drug Therapy Handbook Committee (Chairman)	1997 - 2008
Hillcrest Health Systems Pharmacy and Therapeutics Committee	2001 - 2005
Children's Hospital at Saint Francis PICU QA / CQI Committee (Chairman)	1996 - 2004
Care Med HMO Saint Francis Health Systems Physicians Advisory Committee	1998 – 2001

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## National Committees

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VPS Physician Advisory Group	2016 – 2022
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## Hospital Protocol / Program Development

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1997 – Children's Hospital at Saint Francis – Development of CRRT Program / Protocol for Renal Replacement Therapy
1997 – Children's Hospital at Saint Francis – Development of Resuscitation Protocol for Hypothermic Pediatric Patients in the Emergency Department
1997 – Children's Hospital at Saint Francis – Development of PICU Morbidity / Mortality Multidisciplinary Committee
1997 – Children's Hospital at Saint Francis – Development of Acute Hypoxemic Respiratory Failure Management Protocol
1997 – Children's Hospital at Saint Francis – Development of PICU Clinical Research Program
1998 – Children's Hospital at Saint Francis – Development of Automated Pharmacy System of Delivery of Vasoactive Agents Protocol
1999 – Children's Hospital at Saint Francis – Development of Exchange Transfusion Protocol
2000 – Children's Hospital at Saint Francis – Development of Pediatric Intensivist Deep Sedation / Anesthesia Services
2004 – Children's Hospital at Saint Francis – Development of Inhaled Nitric Oxide Protocol
2008 – Children's Hospital at Saint Francis – Development of Physician Compensation Model for PICU Physicians
2008 – Children's Hospital at Saint Francis – Development of 24/7 In-House PICU Physician Coverage System for Medical and Cardiovascular Surgical Patients
2009 – Children's Hospital at Saint Francis – Development of Pediatric Cardiovascular Surgical Intensivist /Critical Care Team and Order Sets
2010 – Children's Hospital at Saint Francis – Development of EPIC EMR build –out for PICU order sets

2012 – Children’s Hospital at Saint Francis – Development of PICU Admission Order Guidelines/Criteria  
2013 – Children’s Hospital at Saint Francis – Medical Director of VPS Quality Database  
2015 – Children’s Hospital at Saint Francis – Development of Neurally – Adjusted Ventilatory Assist (NAVA) Mechanical Ventilator Weaning Protocol for Cardiovascular Surgical Patients  
2016 - Children’s Hospital at Saint Francis – Development of Neurally – Adjusted Ventilatory Assist (NAVA) Mechanical Ventilator Weaning Protocol for Sub-acute Respiratory Failure  
2014 – Children’s Hospital at Saint Francis – Development of Children’s Hospital Pit Viper Envenomation Protocol  
2017 – Children’s Hospital at Saint Francis – Development of Children’s Hospital Stroke Alert/Management Protocol  
2017 – Children’s Hospital at Saint Francis – Development of Children’s Hospital Acute Care App with Acute/Critical Care Algorithms  
2018 – Children’s Hospital at Saint Francis – Update CRRT Program with new PrismaFlex System  
2019 – Children’s Hospital at Saint Francis – Update ECMO Program and Curriculum with new CentriMag and PediMag pumps  
2021 – Children’s Hospital at Saint Francis – Development of Airway Extubation Readiness Protocol  
2021 – Children’s Hospital at Saint Francis – Development of Prevention of Unplanned Airway Extubation Protocol  
2023 – El Paso Children’s PICU Cardiac Care Program Development and Care Pathways  
2023 – Covenant Children’s Hospital - ECMO Program and Algorithms of VV and VA ECMO

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### Professional Awards

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Children’s Hospital at Saint Francis Family Centered Care Award 2015  
Saint Francis Health System Physician of the Year Award 2016

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### Publications

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**Barton P**, Garcia J, Kouatli A, Lindsay C, Kitchen L, Zorka A, Lawless S, Giroir B; Hemodynamic effects of intravenous milrinone lactate in pediatric patients with septic shock: a prospective, double – blinded, randomized, placebo-controlled interventional study. *Chest* 1996; 109: 5, 1302 – 1312.

Kirsch EA, **Barton P**, Kithcen L, Giroir B; Pathophysiology, treatment, and outcome of meningococemia: a review and recent experience. *Pediatr Infect Dis* 1996; 15: 967 – 979.

Lindsay C, **Barton P**, Lawless S, Kitchen L, Zorka A, Garcia J, Kouatli A, Giroir B; Pharmacokinetics and pharmacodynamics of milrinone lactate in pediatric patients with septic shock. *J Pediatr* 1998; 132: 329 – 334.

Giroir B, Quint P, **Barton P**, Kirsch E, Kitchen L, Goldstein B, Nelson B, Wedel N, Carroll S, and Scannon P. Preliminary evaluation of recombinant amino – terminal fragment of human bactericidal / permeability – increasing protein in children with severe meningococcal sepsis. *Lancet* 1997; 350: 1439 – 1443.

Levin M, Quint PA, Goldstein B, **Barton P**, Bradley JS, Shemie S, Yeh T, Kim SS, Cafaro DP, Scannon PJ, Giroir BP; Recombinant bactericidal / permeability – increasing protein (rBPI21) as adjunctive treatment for children with severe meningococcal sepsis: a randomized trial. *Lancet* 2000; 356: 961 – 967.

**Barton P**, Bradley K, Crutcher M, et al. Consequences of delayed diagnosis of Rocky Mountain spotted fever in children – West Virginia, Michigan, Tennessee, and Oklahoma, May – July 2000. *Morb Mortal Wkly Rep* 2000; 49: 885 – 888 and *JAMA* 2000; 284: 2049 – 2050.

**Barton P**, Kalil A, Giroir B, et al. Safety, Pharmacokinetics, and Pharmacodynamics of Drotrecogin Alfa (Activated) in Children with Severe Sepsis. *Pediatrics* 2004; 113: 7 – 17.

Svoboda P. **Barton RP**. Barbarash OL. Butylin AA. Jacobs BR. Lata J. Haire WD. Jaff MR. Firszt CM. Mougini TL. Schuerr DM. Schulz GA. Schwartz LB. El-Shahawy MA. Recombinant urokinase is safe and effective in restoring patency to occluded central venous access devices: a multiple-center, international trial. *Critical Care Medicine*. 32(10):1990-6, 2004.

Haire WD. Deitcher SR. Mullane KM. Jaff MR. Firszt CM. Schulz GA. Schuerr DM. Schwartz LB. Mougini TL. **Barton RP**. Recombinant urokinase for restoration of patency in occluded central venous access devices. A double-blind, placebo-controlled trial. *Thrombosis & Haemostasis*. 92(3):575-82, 2004.

Goldstein B, Nadel S, Peters, M, **Barton R**, Machado F, Levy H, Haney D, Utterback B, Williams M, Giroir B. ENHANCE: Results of an global open-label trial of drotrecogin alfa (activated) in children with severe sepsis. *Pediatric Critical Care Medicine* 2006; 7: 200 – 211.

Goldstein B, Nadel S., Peters M, **Barton RP**, Machado F, Giroir B. The Author's Reply: Academic and Industry Partnerships. *Pediatric Critical Care Medicine*. 2006; 7(3): 278-279.

Brown KE, **Barton RP**, Short MA, Watson MJ. Positive approach to pediatric informed consent. *Applied Clinical Trials* 2006; 15(6): 100-106.

Bateman S, Lacroix J, Boven K, Forbes P, **Barton RP**, Thomas N, Jacobs B, Markovitz B, Goldstein B, Hanson J, Li HA, Randolph A, for the Pediatric Acute Lung Injury and Sepsis Investigators Network. Anemia, Blood Loss, and Blood Transfusions in North American Children in the Intensive Care Unit. *American Journal of Respiratory and Critical Care Medicine*, 2008; 178: 26-33.

Thomas N, Guardia C, Moya F, CheifetzI, Markovitz B, Cruces P, **Barton P**, Segal R, Simmons P, Randolph A, for the Pediatric Acute Lung Injury and Sepsis Investigator's Network. A Pilot, Randomized, Controlled Clinical Trial of Lucinactant, a Peptide-Containing Synthetic Surfactant, in Infants with Acute Hypoxemic Respiratory Failure. *Pediatric Critical Care Medicine*. 2012 Nov;13(6):646-53. doi: 10.1097/PCC.0b013e3182517bec.

Randolph A, **Barton P**, et al, Pediatric Acute Lung Injury and Sepsis Investigator's Network. Critically Ill Children During the 2009-2010 Influenza Pandemic in the United States. *Pediatrics*, 2011; 128:1450-1458.

Williams KL, Wolslager M, Garland SL, **Barton P**, Banner W. Use of polyvalent equine anti-viper serum to treat delayed coagulopathy due to suspected *Sistrurus miliarius streckeri* envenomation in two children. *Clin Toxicol* 2017; 55(5): 326-331.

Sood SB, Banner W, **Barton P**. Extracorporeal cardiopulmonary resuscitation after brown recluse envenomation. *Clin Toxicol* 2017; 55(5): 368-369.

Shawn Berry Sood, Nasir Mushtaq, Kellie Brown, Vanette Littlefield, **Roger Phillip Barton**. Neurally adjusted ventilator assist is associated with greater initial extubation success in postoperative congenital heart disease patients when compared to conventional mechanical ventilation. *J Pediatr Intensive Care* 2018 (7): 147-158.

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## Scientific Presentations and Abstracts

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Karabocuoglu M, Walters P, **Barton P**, Stannard M, Levin D; Bolus furosemide therapy in pediatric patients with acute hypoxemic respiratory failure due to no-cardiogenic pulmonary edema improves pulmonary mechanics but not gas exchange. *Pediatric Research* 35: #4/part 2, April 1994; page 54A

Karabocuoglu M, **Barton P** (presenter), Walters P, Stannard M, Lockett P, Levin D; Bolus furosemide therapy acutely improves pulmonary mechanics and ventilation in pediatric patients with acute hypoxemic respiratory failure due to non-cardiogenic pulmonary edema. American Academy of Pediatrics Section on Critical Care, October 1994; Dallas, TX. (Recipient of Best In – Training Abstract/Presentation)

**Barton P**, Garcia J, Kouatli A, Lindsay C, Kitchen L, Zorka A, Lawless S, Giroir B; Hemodynamic effects of intravenous milrinone lactate in pediatric patients with septic shock: a prospective, double – blinded, randomized, placebo-controlled interventional study. *Crit Care Med* 24; 1995 (suppl): A32

Lavandosky G and **Barton P**, Walters P, Kitchen L, Zorka A, Lockett P; Effects of nebulized albuterol and nebulized furosemide on infants with 'wheezy bronchitis' / bronchiolitis and respiratory failure requiring mechanical ventilation. *Crit Care Med* 24; 1995 (suppl): A34

**Barton P**, Garcia J, Kouatli A, Lindsay C, Kitchen L, Zorka A, Lawless S, Giroir B; Hemodynamic effects of intravenous milrinone lactate in pediatric patients with septic shock: a prospective, double – blinded, randomized, placebo – controlled interventional study (oral presentation at SCCM annual meeting 1996)

Lindsay C, **Barton P**, Walters P, Kitchen L, Lawless S, Zorka A, Garcia J, Kouatli A, Giroir B; Pharmacokinetic and pharmacodynamic characteristics of intravenous milrinone lactate administration in critically ill pediatric patients. *Pediatric Research* 1996 SPR supplement program.

Shawn Berry Sood, **Roger Phillip Barton**. Neurally adjusted ventilator assist is associated with greater initial extubation success in postoperative congenital heart disease patients when compared to conventional mechanical ventilation (oral presentation at SCCM 2018 Annual Meeting).

Rossavik EB, **Barton RP**. Simultaneous AT and tPA continuous infusions in a 15-month old with sepsis-induced DIC (poster presentation at AAP Annual Meeting {virtual} 2020).

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### Book Chapters

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**Barton P**, Siegel J: The toxic shock syndromes. Essentials of Pediatric Intensive Care, 2<sup>nd</sup> ed. Levin DL, Morriss FM, Eds, Quality Medical Publishing Co. 1996; pp. 327 – 336.

**Barton P**, Mahony L: Pharmacological support of the pediatric cardiovascular system. \_Essentials of Pediatric Intensive Care, 2<sup>nd</sup> ed. Levin DL, Morriss FM, Eds, Quality Medical Publishing Co. 1996; pp. 1682 – 1693.

Toro L, **Barton P**, Luckett P, Perkin R: Mechanical oxygenation and ventilation support systems. Essentials of Pediatric Intensive Care, 2<sup>nd</sup> ed. Levin DL, Morriss FM, Eds, Quality Medical Publishing Co. 1996; pp. 1416 – 1452.

Banner W, **Barton RP**: Pediatric toxicology in the Pediatric Intensive Care Unit. Pediatric Toxicology. Erickson TB, Ahrens WR, Aks SE, Baum CR, Ling LJ, Eds, McGraw-Hill. 2005; 144-150.

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### Miscellaneous Research Projects / Active Research Projects

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**Barton P**, Lavandosky G, Kirsch E, Luckett P; Inhaled nitric oxide therapy in the treatment of acute hypoxemic respiratory failure with or without diffuse alveolar disease: an open label trial to identify predictive factors in treatment success or failure. (Barton P – PI; IND # 53370); 1997 – 2000.

Lavandosky G, **Barton P**, Walters P, Kitchen L, Luckett P; A randomized placebo controlled cross – over trial of albuterol in infants with bronchiolitis and respiratory failure. 1994 – 1996.

Lindsay C, Lavandosky G, **Barton P**, Smith J, Zorka A, Kitchen L, Foglia D, Headrick K; Validation of a tool to assess comfort and the establishment of an optimal score for measuring comfort in the PICU. 1994 – 1996.

Headrick C, Howard L, Zorka A, **Barton P**, Giroir B; Capillary refill as a tool to assess circulatory status in critically ill pediatric patients. 1994 – 1996.

Phase III Multicenter Trial to Assess the Safety and Efficacy of rBPI21 in the Adjunctive Treatment of Pediatric Patients with Severe Meningococcal Disease, XOMA Corporation. July 1996 – May 1999

Phase I/II Investigation of the Safety, Pharmacokinetics and Pharmacodynamics of rhAPC in Pediatric Sepsis, (EVAO), Eli Lilly & Company. **Acknowledged as Best Clinical Practice and highest enrollment among all sites.** November 1999 – May 2001

Open-Label, Multicenter, Multiple-Dose, Phase III Study of the Population Pharmacokinetics of IV Synercid (7.5 mg/kg, Q 8 hrs) in 75 Pediatric Patients, (IV Synercid, #324), Aventis Pharmaceuticals. August 2000 – June 2002

Phase IIIb Multi-center, Open-Label Trial for Pediatric Patients with Severe Sepsis, (EVBE), Eli Lilly & Company. March 2001 – November 2001

Phase III Multicenter, Randomized Study to Determine the Pharmacokinetics and Pharmacodynamics of Fenoldopam Mesylate in Pediatric Subjects, (2000-027), Abbott Laboratories. August 2001 – May 2002

Phase III Multicenter, Randomized Study of Recombinant Urokinase (ABT – 120, urokinase alpha) in the Treatment of Occluded Central Venous Catheters, Safety and Efficacy Trial, (2000-042), Abbott CLEARs Trial, Abbott Laboratories. **Acknowledged as Best Clinical Practice and highest enrollment among all sites.** December 2001 – February 2002

Phase III Multicenter, Safety Trial Using Recombinant Urokinase (ABT – 120, urokinase alpha) in the Treatment of Occluded Central Venous Catheters, (2001-007), Abbott CLEARs Trial, Abbott Laboratories. February 2002 – June 2002

Multicenter, Double-Blind, Placebo-Controlled Trial to determine the Safety and Efficacy of Drotrecogin Alpha (Activated) in Children with Severe Sepsis, (EVBP), Eli Lilly & Company. **Acknowledged as Best Clinical Practice and highest enrollment among all sites.** September 2002 – April 2005

A Multi-center, Epidemiological Observational Survey of the Management of Anemia in Critically Ill Pediatric Patients, “EPO-ICP-301,” Johnson & Johnson Pharmaceutical Research & Development. August 2004 – April 2005

Multicenter, Randomized, Masked, Placebo-Controlled Trial To Assess The Safety And Efficacy Of Lucinactant In Acute Hypoxemic Respiratory Failure In Children Up To Two Years Of Age, (KL4-AHRF-01), Discovery Labs. **Acknowledged as highest enrolling site.** September 2007 – June 2010

Multicenter, Influenza study among children less than 18 years of age, with an additional nH1N1 Influenza evaluation. Pediatric Acute Lung Injury and Sepsis Investigators (PALISI). June 2009 – May 2010

A Multi-Center, Randomized, Open-Label, Parallel, Active-Comparator, Multiple Dose Trial to Determine the Efficacy, Safety, and Pharmacokinetics of Intravenous Ibuprofen in Pediatric Patients, (CPI-CL-012), Cumberland Pharmaceuticals, Inc. July 2010 – March 2013

A Multi-center, Open-label, Sequential, Multiple-dose Study to Evaluate Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of Eritoran in Descending Age Groups of Pediatric Subjects with Severe Sepsis, E5564-G000-103, Eisai Product Creation Systems. Study Closed for lack of substantial adult efficacy. August 2010 – March 2011

Zanamivir Aqueous Solution Compassionate Use Program Retrospective Chart Review (the “CUP Chart Review”) related to Zanamivir (the “CUP drug”) pursuant to the Protocol number 115008, GlaxoSmithKline LLC. July 2011 – March 2012

A single blind, randomized, multi-center, active controlled, trial to evaluate safety, tolerability, pharmacokinetics and efficacy of ceftazidime and avibactam when given in combination with metronidazole, compared with meropenem, in children from 3 months to less than 18 years of age with complicated intra-abdominal infections (cIAIs). Protocol D4280C00015. Sponsor: AstraZeneca AB. May 2015 – June 2017

The VPS clinical database developed for and by experts in the area of pediatric critical care (Virtual PICU Systems, LLC). Sponsor: Children’s Hospital Los Angeles (funded by the L. K. Whittier Foundation), Children’s Hospital of Wisconsin (formerly National Outcomes Center), Children’s Hospital Association (formerly NACHRI). June 2009 – October 2021

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## Lectures / Presentations

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*“Respiratory Pharmacology Review and Update”*

Parkland Memorial Hospital / Children’s Medical Center of Dallas Respiratory Care Seminar; October 1994

*“Severe Pediatric Meningococcal Disease: An Overview, Management Issues, and Future Directions”*

East Texas Pediatric Grand Rounds (Texas A&M University; Mother Francis Hospital); April 1995

*“Diffuse Alveolar Disease Strategy”*

Sensormedics High Frequency Oscillatory Ventilation National Course for Intensivists; Dallas, Texas; October 1995, April 1996, June 1996

*“Meningococemia in the 90’s”*

Daniel Plunket Honorary Conference; Tulsa, Oklahoma; July 1996

*“Electrolyte Imbalances in the Critically Ill Pediatric Patient”*

Care of the Seriously Ill Child Conference, Saint Francis Hospital, Tulsa, Oklahoma; July 1996

*“Meningococemia in the 90’s”*

American Academy of Pediatrics Oklahoma Chapter Annual Conference; Oklahoma City, Oklahoma; October 1996

*“The Recognition and Treatment of the Pediatric Patient with Septic Shock”*

Ada Memorial Hospital Grand Rounds; Ada, Oklahoma; November 1996

*“The Recognition and Treatment of the Pediatric Patient with Septic Shock”*

WW Hastings Hospital Grand Rounds; Tahlequah, Oklahoma; November 1996

*“Meningococemia in the 90’s”*

Saint John’s Hospital / Freeman Hospital Grand Rounds, Joplin, Missouri; November 1996

*“Pediatric Diffuse Alveolar Disease: Ventilation / Oxygenation Support Systems – How It All Fits”*

Oklahoma Academy of Respiratory Therapy Conference, Tulsa, Oklahoma; January 1997

*“Meningococemia in the 90’s”*

Baptist Regional Medical Center Grand Rounds, Miami, Oklahoma; February 1997

*“Meningococemia in the 90’s”*

Saint Francis Hospital Annual Pediatric / Neonatal Nursing Conference; Tulsa, Oklahoma; March 1997

*“Pediatric Renal Failure and Renal Replacement Therapy”*

Saint Francis Hospital Annual Pediatric / Neonatal Nursing Conference; Tulsa, Oklahoma; March 1997

*“Meningococemia in the 90’s”*

Jane Phillips Hospital Grand Rounds, Bartlesville, Oklahoma; April 1997

*“Meningococemia in the 90’s”*

Claremore Indian Hospital Grand Rounds, Claremore, Oklahoma; May 1997

*“Pharmacology of Status Asthmaticus”*

Oklahoma Academy of Respiratory Therapy Conference; Oklahoma City, Oklahoma; July 1997

*“Meningococemia in the 90’s”*

Muskogee Regional Medical Center; Muskogee, Oklahoma; August 1997

*“Pediatric Near Drowning”*

Saint Francis Hospital Annual Trauma Conference, Tulsa, Oklahoma; August 1997

*“Meningococemia in the 90’s”*

Northeastern Oklahoma Physicians Chapter Meeting; Grove, Oklahoma; September 1997

*“Metabolic Acidosis”*

Tulsa Pediatric Grand Rounds at Children’s Medical Center, Tulsa, Oklahoma; October 1997

*“Pharmacology of Status Asthmaticus”*

WW Hastings Hospital Grand Rounds, Tahlequah, Oklahoma; November 1997

*“Pediatric Status Epilepticus”*

Saint Francis Hospital Annual Pediatric / Neonatal Nursing Conference; Tulsa, Oklahoma; March 1998

*“Meningococemia Update”*

Tulsa Pediatric Grand Rounds at Children’s Medical Center, Tulsa, Oklahoma; April 1998

*“Pharmacology of Airway Intubation”*

Saint Francis Hospital Annual Trauma Conference, Tulsa, Oklahoma; September 1998



*“Seizures, Meningitis and Hydrocephalus”*

Contemporary Forums National Pediatric Critical Care Nursing Conference; Dallas, Texas; October 1998

*“Novel Management Strategies for Pediatric Acute Hypoxic Respiratory Failure”*

Contemporary Forums National Pediatric Critical Care Nursing Conference; Dallas, Texas; October 1998

*“Analgesics, Sedatives and Neuromuscular Blocking Agents in the PICU”*

Contemporary Forums National Pediatric Critical Care Nursing Conference; Dallas, Texas; October 1998

*“Status Asthmaticus”*

Contemporary Forums National Pediatric Critical Care Nursing Conference; Dallas, Texas; October 1998

*“Henoch – Schlonlein Purpura and Renal Failure”*

Tulsa Pediatric Grand Rounds at Saint Francis Hospital; Tulsa, Oklahoma; January 1999

*“Shaken Infant Syndrome”*

Saint Francis Hospital Annual Trauma Conference, Tulsa, Oklahoma; October 1999

*“Shaken Infant Syndrome”*

Tulsa Regional Medical Center Grand Rounds; Tulsa, Oklahoma; October 1999

*“Toxic Epidermal Necrolysis”*

Tulsa Pediatric Grand Rounds at Children’s Medical Center; Tulsa, Oklahoma; December 1999

*“Pneumococcal Disease and Vaccines”*

Meadowbrook Pediatric Lecture; Tulsa, Oklahoma; February 2000

*“Pediatric Aspects of Shock”*

Saint Francis Hospital Annual Pediatric / Neonatal Nursing Conference; Tulsa, Oklahoma; March 2000

*“Shaken Infant Syndrome”*

Annual Pediatric Azalea Conference; Muskogee, Oklahoma; April 2000

*“Pneumococcal Disease and Vaccines”*

American Academy of Pediatrics Oklahoma Chapter Conference; Tulsa, Oklahoma; May 2000

*“Pediatric ARDS and Respiratory Failure”*

Oklahoma ECMO Course, Tulsa, Oklahoma; November 2000

*“Oxygen Delivery in ECMO”*

Oklahoma ECMO Course, Tulsa, Oklahoma; November 2000

*“Molecular Aspects of Pediatric Septic Shock”*

2<sup>nd</sup> Annual Pediatric Azalea Conference; Muskogee, Oklahoma; April 2001

*“DIC and Septic Shock: Pediatric Overview”*

Eli Lilly Sponsored Tulsa Conference; Tulsa, Oklahoma; October 2001

*“Pediatric Septic Shock and DIC: New Treatments and Upcoming Research”*

Oklahoma Pharmacists Annual Meeting; Tulsa, Oklahoma; November 2001

*“Molecular Aspects of Pediatric Septic Shock”*

OSU ER Annual Conference; Tulsa, Oklahoma; March 2002

*“Pediatric Resuscitation in the Rural ER”*

OSU ER Conference; Tulsa, Oklahoma; March 2002

*“ARDS in the Pediatric Population: New Management Algorithms”*

3<sup>rd</sup> Annual Azalea Conference; Muskogee, Oklahoma; April 2002

*“Pediatric Airway Emergencies”*

Jane Phillips Grand Rounds; Bartlesville, Oklahoma; March 2003

*“Pharmacology of Airway Intubation in Pediatric Patients”*

4<sup>th</sup> Annual Azalea Conference; Muskogee, Oklahoma; April 2003

*“Pharmacology of Airway Intubation in Pediatric Patients”*

OSU ER Conference; Tulsa, Oklahoma; June 2003

*“Pediatric Emergencies Workshop for ER Physicians”*

OSU ER Conference; Tulsa, Oklahoma; June 2003

*“Interesting Cases in the PICU”*

OSU ER Conference; Tulsa, Oklahoma June 2004

*“Pediatric Emergencies Workshop for ER Physicians”*

OSU ER Conference; Tulsa, Oklahoma; June 2004

*“Septic Shock in the Pediatric Patient”*

OU Pediatric Grand Rounds; Tulsa, Oklahoma; November 2004

*“Pediatric Airway Emergencies”*

OU Pediatric Grand Rounds; Tulsa, Oklahoma; April 2005

*“Pediatric Emergencies Workshop for ER Physicians”*

OSU ER Conference; Tulsa, Oklahoma; July 2005

*“Pediatric Renal Failure and CRRT”*

OU Pediatric Resident Lecture; Tulsa, Oklahoma August 2005

*“Septic Shock and Multi-Organ Failure in the Pediatric Patient”*

OU Pediatric Grand Rounds; Tulsa, Oklahoma; July 2006

*“Congenital Heart Disease”*

OSU Pediatric Resident Lecture; Tulsa, Oklahoma April 2008

*“Interesting Cases in the PICU”*

Oklahoma Pediatric Nurse Practitioners Annual Meeting; Tulsa, Oklahoma, July 2012.

*“VPS PICU Quality Review”*

SFHS Medical Directors Meeting; Tulsa, Oklahoma; July 2013

*“Interesting Cases in the PICU”*

Children’s Hospital at Saint Francis Annual Pediatric Retreat; Tulsa, Oklahoma, November 2015.

*“VPS PICU Quality Review”*

SFHS Medical Directors Meeting; Tulsa, Oklahoma; July 2016

*“Neurally Adjusted Ventilatory Assist”*

OU Pediatric Grand Rounds; Tulsa, Oklahoma; January 2018.

*“Annual VPS PICU Quality Review”*

PICU Nursing Presentation; Tulsa, Oklahoma; October 2018

*“Oxygen Delivery with VV-ECMO”*

Children’s Hospital at Saint Francis ECMO Training Course; Tulsa, Oklahoma; February 2019

*“VA ECMO and Cardiac Support”*

Children’s Hospital at Saint Francis ECMO Training Course; Tulsa, Oklahoma; February 2019

*“Anti-Coagulation and ECMO”*

Children’s Hospital at Saint Francis ECMO Training Course; Tulsa, Oklahoma; February 2019

*“ECMO Patient Selection and Case Studies”*

Children’s Hospital at Saint Francis ECMO Training Course; Tulsa, Oklahoma; February 2019

*“Pulmonary Artery Catheterization in the PICU – A Valuable Tool Still Applicable”*

Children’s Hospital at Saint Francis PICU Physician and Nursing Staff Lecture; Tulsa, Oklahoma; August 2019

*“Annual VPS PICU Quality Review”*

PICU Nursing Presentation; Tulsa, Oklahoma; October 2019

*“Inotropes, Vasopressors and Inodilators and Vasodilators: Optimizing Oxygen Delivery in the PICU”*

Children’s Hospital at Saint Francis PICU Physician and Nursing Staff Lecture; Tulsa, Oklahoma; February 2020

*“MIS-C and COVID-19 in Pediatric Patients”*

Children’s Hospital at Saint Francis Outreach Presentation (Zoom); Tulsa, Oklahoma; August 2020

*“Annual VPS PICU Quality Review”*

PICU Nursing Presentation (Zoom); Tulsa, Oklahoma; October 2020

*“High Frequency Oscillatory Ventilation (HFOV)”*

Providence Children’s Hospital Nursing and Respiratory Therapy Presentation; El Paso, Texas; December 2021

*“Shock and Oxygen Delivery in the Pediatric Patient”*

Providence Children’s Hospital Nursing Presentation; El Paso, Texas; December 2021

*“Vasopressors, Inotropes and Shock in the PICU”*

El Paso Children’s Hospital PICU Nursing Presentation; El Paso, Texas; September 2022

*“Fundamentals of PICU Cardiac Care Pt. 1 and Pt. 2”*

El Paso Children’s Hospital PICU Nursing Presentation; El Paso, Texas; April 2023

*“PICU CV Surgery Case Examples”*

El Paso Children’s Hospital PICU Nursing Presentation; El Paso, Texas; June 2023

*“Vasopressors, Inotropes and Shock in the PICU”*

Covenant Children’s Hospital, PICU Nursing Presentation; Lubbock, Texas; July 2023

*“Pediatric Drowning”*

Covenant Children’s Hospital, PICU Nursing Presentation; Lubbock, Texas; September 2023

*“Physiology of VA and VV ECMO”*

Covenant Health System Adult and Neonatal/Pediatric ECMO Course; Lubbock, Texas; October 2023