

Timothy G. Carroll, MD, FAAP

Clinical Assistant Professor of Pediatrics
Pediatric Critical Care and Sedation

The Children's Hospital at Saint Francis

6161 South Yale Ave, Level #1
Tulsa OK 74136
(918) 502-6195 office
(918) 502-6137 fax
(405) 501-3114 cell
tgcarroll@saintfrancis.com

Carroll Medical Consulting

5917 S 301 E Ave
Broken Arrow, OK 74014
(405) 501-3114
tcarrollmd@me.com

<https://www.linkedin.com/in/timothy-carroll-md-faap-a138b131/>

EDUCATION AND TRAINING

Training:

2006-2009 University of Texas Southwestern Pediatric Critical Care Fellowship
Children's Medical Center Dallas; Dallas, Texas
James Thomas, MD; Division Director
Steven Kernie, MD; Fellowship Director

2002-2005 University of Texas Southwestern Pediatric Residency
Children's Medical Center Dallas; Dallas, Texas
George Lister, MD; Chairman
Patricia Hicks, MD; Residency Director

Medical:

1998-2002 University of Kansas School of Medicine; Kansas City, Kansas
Medical Doctor

Premedical:

1995-1998 Fort Hays State University; Hays, Kansas
Magna Cum Laude; Bachelor of Science – General Science

PROFESSIONAL EXPERIENCE

2020-present McAlester Regional Medical Center; McAlester, OK
General Pediatric Hospitalist (Locum Tenens)

2018-Present Carroll Medical Consulting, LLC, owner
Pediatric Critical Care Locum Tenens and Expert Legal Opinions

2017-Present Integris Baptist Hospital; Oklahoma City, Oklahoma
Pediatric Critical Care and Sedation, Attending Physician (Locum Tenens)

2016-Present Saint Francis Children's Hospital/Warren Clinic; Tulsa, Oklahoma
Pediatric Critical Care and Sedation. Attending Physician

2017-Present University of Oklahoma School of Community Medicine,
Department of Pediatrics; Tulsa, Oklahoma
Clinical Assistant Professor of Pediatrics

PROFESSIONAL EXPERIENCE (continued)

2016-Present	Oklahoma State University Center for Health Sciences, College of Osteopathic Medicine; Department of Pediatrics; Tulsa, Oklahoma Adjunct Clinical Assistant Professor of Pediatrics
2015-Present	Medical City Children's Hospital, Dallas, Texas Pediatric Cardiac Critical Care (Locum Tenens)
2015-Present	Nexus Medical Consulting Medical Utilization Reviewer
2016-2018	University of Oklahoma Health Science Center Graduate College, Oklahoma City, Oklahoma Clinical and Translational Sciences Assistant Professor
2011-2016	University of Oklahoma College of Medicine/Children's Hospital at OU Medical Center; Oklahoma City, Oklahoma Section of Pediatric Critical Care; Department of Pediatrics Assistant Professor, Pediatric Critical Care and Sedation Physician
2011	Banner Thunderbird Medical Center; Glendale, Arizona Pediatric Critical Care and Sedation Attending Physician (Locum Tenens)
2009-2011	University of Nevada, Reno; Las Vegas, Nevada Clinical Adjunct Assistant Professor
2009-2011	Pediatrix Medical Group at Sunrise Children's Hospital; Las Vegas, Nevada Pediatric Critical Care and Sedation Attending Physician
2008-2009	Presbyterian Hospital of Plano; Plano, Texas Pediatric Hospitalist (Locum Tenens)
2006-2007	University of Texas Southwestern; Dallas, Texas Clinical Instructor, Department of Pediatrics
2005-2009	Children's Medical Center Dallas; Dallas, Texas Pediatric Emergency Medicine Attending Physician

LICENSURE AND CERTIFICATION

State Licenses:

2011-Present	Oklahoma Medical License #28346, Exp 4/1/20
2003-Present	Texas Medical License #L7324 Exp 11/30/20
2010-2012	Arizona Medical License #43859 (inactive)
2009-2011	Nevada Medical License #13172 (inactive)

Board Certifications:

2010-Present	Pediatric Critical Care; American Board of Pediatrics
2005-2015	General Pediatrics; American Board of Pediatrics (inactive)

NPI: 1598852428

SCHOLARSHIP

Funded:

2012-2015

The Use of Procalcitonin in Predicting Bacterial Co-infection in Children with Respiratory Failure from Viral Bronchiolitis

Primary Investigator (10%)

Testing provided without charge by Biomerieux. (Direct Cost: \$2300)

Mentored Ryan Erickson MD, Pediatric Emergency Medicine fellow

2008-2010

Vasopressin Rescue for In-Hospital Pediatric Cardiopulmonary Arrest Refractory to Initial Epinephrine Dosing: A Pilot Trial

Primary Investigator (40%)

Supported by AMA Foundation Seed Grant (Budget/Direct Cost: \$1500)

Ongoing:

2018-Present

Needs Assessment for Pediatric Palliative Care in a Community Pediatric Hospital

Completed:

2015-2016

Evaluation of a Palliative Care Education Curriculum for General Pediatric Residents

Co-investigator (5%)

2014-2016

Provider Attitudes Toward Tracheostomy Usage in Prolonged Endotracheal Intubation in the Pediatric Intensive Care Unit

Primary Investigator (5%)

2014-2016

Review of the Incidence of Central Line Infections and Thromboses in the Pediatric Hematology/Oncology Population

Co-investigator (5%)

2014-2015

A Case of Methemoglobinemia in a Pediatric Oncology Patient Receiving Bactrim Prophylaxis

Primary Investigator (5%)

2014-2015

Salmonella Typhi Bacteremia Associated to Septic Shock and Acute Respiratory Distress Syndrome in a Teenage Patient

Co-investigator (5%)

2013-2015

The Use of Procalcitonin in Predicting Bacteremia in Febrile Sickle Cell Patients

Co-investigator (5%)

2013-2016

Needs Assessment for Pediatric Palliative Care at a Tertiary Children's Hospital.

Primary Investigator (5%)

2008-2010

Effectiveness of Community Consultation and Public Disclosure for an In-Hospital Pediatric Clinical Trial with an Exception from Informed Consent

Co-primary Investigator (50%)

2003-2005

Clinical and Laboratory Presentation of Neonatal Herpes Simplex Virus: Retrospective Analysis and Literature Review

Co-Primary Investigator (20%)

2003-2005

Retrospective Analysis of Adrenal Insufficiency in Refractory Hypotensive Pediatric Patients in the Intensive Care Setting

Co-Primary Investigator (10%)

SCHOLARSHIP (continued)

2003-2004 **Case Report: Acute Hepatitis, Nephritis and Pancreatitis in a Pediatric Patient Associated with Oxacillin Therapy**
Primary Investigator (10%)

2000-2003 **Epidural Analgesia and Severe Perineal Laceration in the Community Based Obstetrical Practice**
Primary Investigator (50%)

Curriculum Development

1. **Pediatric Palliative Care**
University of Oklahoma Pediatric Residency Program
Ongoing curriculum developed from national guidelines that will be actively evaluated by above-mentioned scholarly work: *Evaluation of a Palliative Care Education Curriculum for General Pediatric Residents*
2. **Pediatric Critical Care Simulation**
University of Oklahoma Pediatric Residency Program
3. **Code Blue Simulation Training**
Emergency Response Team-The Children's Hospital at OU Medical Center

PUBLICATIONS *indicates mentored trainee

Peer-Reviewed Publications (Accepted, in-press or published)

1. Ackerman K*, Saley T, Mushtaq N, **Carroll T**. Pediatric Long Term Endotracheal Intubation and Role for Tracheostomy: Patient and Provider Factors. *Journal of Pediatric Intensive Care*. DOI <https://doi.org/10.1055/s-0038-1676117>. ISSN 2146-4618.
2. Ericksen R*, Guthrie C, **Carroll T**. (2018) The Use of Procalcitonin for Prediction of Pulmonary Bacterial Co-infection in Children with Respiratory Failure Associated with Viral Bronchiolitis. *Clinical Pediatrics*. 2019, Vol. 58(3) 288-294. DOI <https://doi.org/10.1177/0009922818816432>
3. **Carroll, T**, Carroll M. Methemoglobinemia in a Pediatric Oncology Patient Receiving Sulfamethoxazole/Trimethoprim Prophylaxis. *Am J Case Rep* 2016; 17:499-502. DOI 10.12659/AJCR.897820
4. Brosset-Ugas M*, **Carroll, T**, Kovar L, Chavez-Bueno S. *Salmonella Typhi* Induced Septic Shock and Acute Respiratory Distress Syndrome in a Teenage Patient. *Journal of Investigative Medicine High Impact Case Reports*. 2016;4(2):1-5. DOI: 10.1177/2324709616652642
5. **Carroll T**, Dimas V, Tortoriello-Raymond T. Vasopressin Rescue for In-Pediatric Intensive Care Unit Cardiopulmonary Arrest Refractory to Initial Epinephrine Dosing: A Prospective Feasibility Pilot Trial. *Pediatric Critical Care Medicine* 2012;13(3):265-272.
6. Tortoriello-Raymond T, **Carroll T**, Sales G, Morris M. Effectiveness of the Informed Consent Process for a Pediatric Resuscitation Trial. *Pediatrics* 2010;125:e866. Originally published online March 15, 2010; DOI: 10.1542/peds.2009-2427. Website: <http://pediatrics.aappublications.org/content/125/4/e866.short>
7. **Carroll T**, Engelken M, Mosier M. Epidural Analgesia and Severe Perineal Laceration in the Community Based Obstetrical Practice. *J Am Board Fam Pract* 16(1); 1-6, 2003.

PUBLICATIONS

Peer-Reviewed Publications (In-progress or submitted for publication)

1. Cruickshank A*, Meyer W, **Carroll T**. Central line associated blood stream infection in a combined inpatient and outpatient pediatric hematology and oncology practice. *Pediatric Blood and Cancer*. Expected submission 2019
2. Carroll M, May R, Anderson M, **Carroll T**, Evaluation of a Palliative Care Education Curriculum for Pediatric Residency Training. *International Journal of Medical Education*. Expected submission 2019

Book Chapters

1. **Carroll T**, Raymond T. Ch 87 Pediatric Cardiopulmonary Resuscitation. In: Stockwell J, Kutko M. *Comprehensive Critical Care: Pediatric*. 2nd Edition. 2016.
2. **Carroll T**, Raymond T. Ch 99 Pediatric Cardiopulmonary Resuscitation. In: Stockwell J, Preissig C. *Comprehensive Review in Critical Care: Pediatric*. Chapter 99; pgs. 1345-1358. August 2012.

Published Abstracts

1. **Carroll, T**, Carroll M. *Methemoglobinemia in a Pediatric Oncology Patient receiving Sulfamethoxazole/Trimethoprim Prophylaxis*. *Journal of Investigative Medicine*. 2016:64(2); 547
2. **Carroll T**. *Needs Assessment for Pediatric Palliative Care at a Tertiary Children's Hospital*. *Journal of Investigative Medicine*. 2016:64(2); 574
3. Brosset-Ugas M*, **Carroll T**, Chavez-Bueno S. *Salmonella typhi Bacteremia Associated to Septic Shock and Acute Respiratory Syndrome in a Teenage Patient*. *Journal of Investigative Medicine*. 2016:64(2); 566
4. DeLeon S, Mehdi N, Dupuis G, Rivas G, Montgomery S, Duncan P, **Carroll T**. *The Development of an Integrated Asthma Clinical Pathway at the University of Oklahoma Children's Hospital*. *Journal of Investigative Medicine*. 2016:64(2); 623
5. **Carroll T**, Perron L. *Reduction of Central Line Associated Blood Stream Infections After Adoption of Central Line Insertion and Maintenance Procedures*. *Journal of Investigative Medicine*. 2016:64(2); 677
6. Cruickshank A*, Meyer W, **Carroll T**. *Central Line Associated Blood Stream Infections in Pediatric Hematology/Oncology Inpatients and Outpatients*. *Journal of Investigative Medicine*. 2016:64(1); 277-278
7. **Carroll T**, Sales G, Morris M, Raymond T. *Survey in a Pediatric Resuscitation Trial to Assess the Effectiveness of "In-Hospital Community Consultation and Public Disclosure" Under Exception From Informed Consent Requirements for Emergency Research*. *Circulation*. 2009;120:S684.

PRESENTATIONS *indicates mentored trainee

Poster Presentations

1. **Carroll T**, May R. Evaluation of a Palliative Care Education Curriculum for General Pediatric Residents. Presented at The Fourth Annual College of Medicine Education Week by the Academy of Teaching Scholars at the University of Oklahoma. September 2017
2. Ericksen, R*, Guthrie C, **Carroll T**. The Use Of Procalcitonin For Prediction Of Pulmonary Bacterial Co-infection In Children With Respiratory Failure Associated With Viral Bronchiolitis. Presented at Society of Academic Emergency Medicine. May 2016.
3. **Carroll, T**, Carroll M. *Methemoglobinemia in a Pediatric Oncology Patient receiving Sulfamethoxazole/Trimethoprim Prophylaxis*. Presented at Southern Regional Meeting of the Southern Society for Pediatric Research. February 2016.
4. **Carroll T**. *Needs Assessment for Pediatric Palliative Care at a Tertiary Children's Hospital*. Presented at Southern Regional Meeting of the Southern Society for Pediatric Research. February 2016.

PRESENTATIONS (continued) *indicates mentored trainee

Poster Presentations (cont)

5. Brosset-Ugas M*, **Carroll T**, Chavez-Bueno S. *Salmonella typhi Bacteremia Associated to Septic Shock and Acute Respiratory Syndrome in a Teenage Patient*. Presented at Southern Regional Meeting of the Southern Society for Pediatric Research. February 2016.
6. DeLeon S, Mehdi N, Dupuis G, Rivas G, Montgomery S, Duncan P, **Carroll T**. *The Development of an Integrated Asthma Clinical Pathway at the University of Oklahoma Children's Hospital*. Presented at Southern Regional Meeting of the Southern Society for Pediatric Research. February 2016.
7. Cruickshank A*, Meyer W, **Carroll T**. *Central Line Associated Blood Stream Infections in Pediatric Hematology/Oncology Inpatients and Outpatients*. Presented at Stephenson Cancer Research Symposium. Oklahoma City, OK, January 2016.
8. Brosset-Ugas M*, **Carroll T**, Chavez-Bueno S. *Salmonella Typhi Bacteremia Associated with Septic Shock and Acute Respiratory Distress Syndrome in a Teenage Patient*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
9. **Carroll T**, Perron L. *Reduction of Central Line Associated Blood Stream Infections After Adoption of Central Line Insertion and Maintenance Procedures*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
10. **Carroll T**, Carroll M. *A Case of Methemoglobinemia in a Pediatric Oncology Patient Receiving Bactrim Prophylaxis*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
11. **Carroll T**. *Needs Assessment for Pediatric Palliative Care at OU Medical Center*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
12. DeLeon S, Mehdi N, Dupuis G, Rivas G, Montgomery S, Duncan P, **Carroll T**. *The Development of an Integrated Asthma Clinical Pathway at OU Children's Hospital*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
13. Ericksen R*, **Carroll T**. *The Use of Procalcitonin in Predicting Bacterial Co-Infection in Children with Respiratory Failure from Viral Bronchiolitis*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
14. Cruickshank A*, **Carroll T**, Meyer W. *Retrospective Review of the Incidence of Central Line Infections and Thromboses in the Pediatric Hematology/Oncology Population*. University of Oklahoma Department of Pediatrics Research Day, Oklahoma City, Oklahoma, May 2015.
15. **Carroll T**, Tortoriello-Raymond Tia, Dimas Vivian. *Vasopressin Rescue for In-Pediatric Intensive Care Unit Cardiopulmonary Arrest Refractory to Initial Epinephrine Dosing: A Prospective Feasibility Pilot Trial*. Society of Critical Care Medicine National Conference, Miami, Florida, January 2010.
16. **Carroll T**, Sanchez P. *Clinical and Laboratory Prevention of Neonatal Herpes Simplex Virus: Retrospective Analysis and Literature Review*. Pediatric Academic Society National Meeting, May 2005.
17. **Carroll T**, Quigley R. *Case Report: Acute Hepatitis, Nephritis and Pancreatitis in a Pediatric Patient Associated with Oxacillin Therapy*. Honorable mention in the Resident Section poster exhibit at the Texas Pediatric Society Annual Meeting, September 2004.

PRESENTATIONS (continued) *indicates mentored trainee

Platform Presentations

Local/State

1. **Carroll T.** *Integrated Palliative Care Practices for Children with Complex Chronic Conditions.* Presented at University of Oklahoma Palliative Care Summit, November 2015.
2. **Carroll T.** *Use of Procalcitonin for Detection of Invasive Bacterial Infection in Children.* Presented at University of Oklahoma Pediatric Grand Rounds, May 2013.
3. **Carroll T.** *Vasopressin Rescue for In-Hospital Pediatric Cardiopulmonary Arrest Refractory to Initial Epinephrine Dosing: A Pilot Trial.* Presented at University of Oklahoma Pediatric Grand Rounds, July 2011.
4. **Carroll T,** Neese B, Pigg K. *Predictors of In Vitro Fertilization Success in Patients Stratified by the Cycle of Artificial Reproductive Technology.* Presented at the University of Kansas School of Medicine: Department of Preventative Medicine, April 2002.
5. **Carroll T.** *Progressive Multifocal Leukoencephalopathy.* Case presentation for Kansas American College of Physicians Meeting, September 2001.

Regional/National

1. Ericksen R*, Guthrie C, **Carroll T.** *The Use of Procalcitonin for Prediction of Pulmonary Bacterial Co-infection in Children with Respiratory Failure Associated with Viral Bronchiolitis.* Presented at the Society of Academic Emergency Medicine, May 2016.
2. **Carroll T,** Perron L. *Reduction of Central Line Associated Blood Stream Infections After Adoption of Central Line Insertion and Maintenance Procedures.* Presented at Southern Regional Meeting of the Southern Society for Pediatric Research. February 2016. **Awarded SAFMR/SSCI Junior Faculty Research Travel Award.**
3. Cruickshank A*, Meyer W, **Carroll T.** *Central Line Associated Blood Stream Infections in Pediatric Hematology/Oncology Inpatients and Outpatients.* Presented at Western Regional Meeting of the Society for Pediatric Research. January 2016. **Dr. Cruickshank Awarded Scholar of the American Federation for Medical Research.**
4. **Carroll T.** *Pediatric Status Epilepticus.* Invited Grand Rounds presentation for University of Kansas School of Medicine-Wichita Department of Pediatrics. Wichita, KS. September 2015.
5. **Carroll T,** Tortoriello-Raymond T, Dimas V. *Vasopressin Rescue for In-Hospital Pediatric Cardiopulmonary Arrest Refractory to Initial Epinephrine Dosing: A Pilot Trial.* Abstract presented at Society of Critical Care Medicine National Conference, Miami, Florida, February 2010.
6. Tortoriello-Raymond T, **Carroll T,** Sales G, Cummings Morris M. *Effectiveness of the Informed Consent Process for a Pediatric Resuscitation Program.* Presented at AHA Scientific Sessions, Orlando, Florida, 2010.

TEACHING EXPERIENCE

1. **Pediatric Critical Care Inpatient Rounds. 2009- Present.** Pediatric residents (4 per month; approximately 120 service days per year).
2. **Pediatric Critical Care Lectures for Pediatric Residents. 2017-Present.** Given to 15 OSU General Pediatric Residents twice per year.
3. **Pediatric Critical Care Journal Club. University of Oklahoma. 2011-2016.** Given once per year to 15 members of Pediatric Critical Care Section.
4. **Palliative Care Noon Conference Series. University of Oklahoma. 2011-2016.** Four 1-hour lectures per annually to 23 general pediatric residents.

TEACHING EXPERIENCE (continued)

5. **Pediatric Critical Care Morbidity and Mortality Conference. University of Oklahoma. 2011-2016.** Given monthly to 15 members of Pediatric Critical Care Section.
6. **Pediatric Critical Care Nursing Lectures. University of Oklahoma. 2011-2016.** Given twice per year to 5-10 nurses.
7. **Mend-A-Heart Congenital Heart Care Lectures. University of Oklahoma. 2011-2016.** Given twice per year to 20 nurses and respiratory therapists.
8. **Critical Care Simulation Director. University of Oklahoma. 2011-2016.** Given four times per year to ten general pediatric residents per course.
9. **Monthly Critical Care Resident Lectures. University of Nevada School of Medicine Pediatric Residency. 2009-2011.** Gave 1 hour lectures monthly for 20 months to 20 residents;

Mentoring and Advising

1. Ryan Erickson, MD
Developed and obtained funding for Dr. Erickson's fellowship project for Pediatric Emergency Medicine fellowship: *The Use of Procalcitonin in Predicting Bacterial Co-infection in Children with Respiratory Failure from Viral Bronchiolitis*. Funding included \$2300 for patient testing and also served on his Scholarship Oversight Committee.
2. Amy Cruickshank, MD
Developed Dr. Cruickshank's fellowship project for Pediatric Oncology fellowship: *Citrate Ethanol Lock Therapy for Prevention of Central Line Associated Blood Stream Infections in Pediatric Oncology*. Total funding amount still under review and also served on her Scholarship Overnight Committee. Dr Cruickshank was named a scholar of the American Federation for Medical Research. I was her primary thesis advisor for her MS in Clinical and Translational Science
3. Melissa Brosset-Ugas, MD
Mentored in the clinical care of a patient and then in her published case report: *Salmonella Typhi Bacteremia associated to Septic Shock and Acute Respiratory Distress Syndrome in a Teenage Patient*
4. Kassi Ackerman, MD
Developed, mentored and then assisted in publication of Dr. Ackerman's project *Provider Attitudes Toward Tracheostomy Usage in Prolonged Endotracheal Intubation in Pediatrics*. I also spent a great deal of time advising Dr. Ackerman regarding a career in pediatric critical care including discussion of fellowship options.
5. Sruty Aiyaswamy, DO
Developed and mentored Dr. Aiyaswamy's project *Needs Assessment for Pediatric Palliative Care in a Community Pediatric Hospital*. I also spent a great deal of time advising Dr. Aiyaswamy regarding a career in pediatric critical care including discussion of fellowship options.

Career Advising

1. Steven Nye, MD
Spent significant time advising regarding a career in pediatric critical care including discussion of fellowship and employment opportunities.

Formal Case/Topic Presentations-Pediatric Residents

1. **Carroll T.** Pediatric Palliative Care and Methods of Difficult Conversations. Invited lecture to Oklahoma State University College of Osteopathic Medicine Pediatric Residency. October 2019
2. **Carroll T.** Pediatric Status Asthmaticus. Invited lecture to Oklahoma State University College of Osteopathic Medicine Pediatric Residency. September 2018
3. **Carroll T.** Pediatric Shock and Neurologic Emergencies. Invited lecture to Oklahoma State University College of Osteopathic Medicine Pediatric Residency. March 2018

TEACHING EXPERIENCE (continued)

Formal Case/Topic Presentations-Pediatric Residents

4. **Carroll T.** Pediatric Respiratory Failure and Shock States. Invited lecture to Oklahoma State University College of Osteopathic Medicine Pediatric Residency. July 2017
5. **Carroll T.** *Integrated Palliative Care Practices for Children with Complex Chronic Conditions.* Presented at University of Oklahoma Palliative Care Summit, April 2016
6. **Carroll T.** *Mechanical and Chemical Cardiovascular Support.* Invited lecture to University of Oklahoma Pediatric Critical Care Advanced Practice Providers, January 2016
7. **Carroll T.** *Status Epilepticus.* Invited lecture to University of Oklahoma Pediatric Residency, April 2015, March 2012
8. **Carroll T.** *Introduction to Pediatric Palliative Care.* Invited lecture to University of Oklahoma Pediatric Residency, April 2016, November 2014, November 2013
9. **Carroll T.** *Communication and Family Meetings in Palliative Care.* Invited lecture to University of Oklahoma Pediatric Residency, May 2016, January 2015, December 2014
10. **Carroll T.** *Medical Management in the Comfort Care Setting.* Invited lecture to University of Oklahoma Pediatric Residency, March 2014
11. **Carroll T.** *Single Ventricle Physiology.* Invited lecture to University of Oklahoma Mend a Heart cardiac education program, April 2015, October 2014, April 2014, October 2013
12. **Carroll T.** *DKA, DI, SIADH.* Invited lecture to OU Children's Hospital PICU nursing residency, August 2016, July 2016, November 2015, June 2015, April 2015, November 2014, March 2014, September 2013, February 2012
13. **Carroll T.** *Status Asthmaticus.* Invited lecture to University of Nevada Pediatric Residency, February 2011
14. **Carroll T.** *Pediatric Sedation and Analgesia.* Invited lecture to University of Nevada Pediatric Residency, September 2010
15. **Carroll T.** *Status Epilepticus.* Invited lecture to University of Nevada Pediatric Residency Program and Sunrise Children's Hospital Pediatric Transport Team, March 2010
16. **Carroll T.** *Diabetic Ketoacidosis.* Invited lecture to Sunrise Children's Hospital Pediatric Transport Team, December 2010
17. **Carroll T.** *Manifestations of Herpes Simplex Virus in Pediatrics.* Given to UTSW pediatric residents at Pediatric in Review Conference, April 2004
18. **Carroll T.** *Case Report: Acute Hepatitis, Nephritis and Pancreatitis in a Pediatric Patient Associated with Oxacillin Therapy.* Presented to UTSW pediatric residents, March 2004

Continuing Medical Education

1. **Carroll T.** *Integrated Palliative Care Practices for Children with Complex Chronic Conditions.* Presented at University of Oklahoma Palliative Care Summit, November 2015
2. **Carroll T.** *Pediatric Fever.* Invited presentation for Emergency Medical Services for children outreach program, March 2015
3. **Carroll T.** *Pediatric Assessment.* Invited presentation for Emergency Medical Services for children outreach program, February 2015
4. **Carroll T.** *Pediatric Traumatic Brain Injury.* Invited presentation for Emergency Medical Services for children outreach program, February 2013

TEACHING EXPERIENCE (continued)

Continuing Medical Education (cont)

5. **Carroll T.** *Pediatric Altered Mental Status*. Invited presentation for Emergency Medical Services for children outreach program, February 2013
6. **Carroll T.** *Pediatric Seizures*. Invited presentation for Emergency Medical Services for children outreach program, February 2013
7. **Carroll T.** *Pediatric Asthma*. Invited presentation for Emergency Medical Services for children outreach program, December 2012
8. **Carroll T.** *Pediatric Shock*. Invited presentation for Emergency Medical Services for children outreach program, December 2012
9. **Carroll T.** *Pediatric CPR*. Invited presentation for Emergency Medical Services for children outreach program, December 2012
10. **Carroll T.** *Pediatric Airway Management*. Invited presentation for Emergency Medical Services for children outreach program, December 2012

Journal Club Presentations

1. **Carroll T.** "Comparison of Dopamine versus Epinephrine as First Line Vasoactive Drugs in Pediatric Shock. Presented to University of Oklahoma Section of Pediatric Critical Care. December 2015
2. **Carroll T.** "Tracheostomy Usage in the PICU". Presented to University of Oklahoma Section of Pediatric Critical Care, January 2015
3. **Carroll T.** "Hyponatremia in Critical Care". Presented to University of Oklahoma Section of Pediatric Critical Care, January 2014
4. **Carroll T.** "Procalcitonin for Detection of Invasive Bacterial Infection". Presented to University of Oklahoma Section of Pediatric Critical Care, January 2013

PROFESSIONAL SERVICE

Clinical/Patient Care

Pediatric Critical Care Physician

If a child has an illness or injury that results in an unstable critical condition, a hospital-based pediatric critical care specialist (pediatric intensivist) is called on to provide the special care that the child needs. Children who are critically ill require careful monitoring in a pediatric intensive care unit (PICU). Pediatric critical care specialists coordinate the care of these children, which is provided by a team of doctors, nurses, and other health care specialists. Pediatric intensivists are available at the hospital at all times to manage any life-threatening emergencies in the hospital, in the ICU, and beyond, including on the general wards and in the emergency department. Pediatric critical care specialists are medical doctors who have earned a medical degree and had three years of pediatric specialty residency training and three years of fellowship training in pediatric critical care. Care is provided in shifts of 12-24 hour duration with an average of 16 shifts per month. During these shifts, I am responsible for the patients within the 20-bed PICU. This amounts to an average of 48 clinical hours per week. A board certified intensive care specialist staffs the PICU 24 hours per day, 7 days per week.

PROFESSIONAL SERVICE (cont)

Clinical Leadership

2016-Present	Created Best Practice Critical Care Order Sets Children's Hospital at St. Francis PICU <ul style="list-style-type: none">• Traumatic Brain Injury• Pentobarbital Coma• Diabetes Insipidus• Status Asthmaticus• Neuromuscular Weakness• High Flow Nasal Cannula
2015	Airway Equipment Transition/Patient Safety Group, Univ of Oklahoma Brite Pro Solo Disposable Laryngoscope transition
2014-2016	Pediatric Palliative Care Executive Committee University of Oklahoma
2013	Pediatric Palliative Care Organization Committee Developed this group and led development of Pediatric palliative care services at The Children's Hospital at OU Medical Center
2013-2016	Simulation Director for Pediatric Critical Care University of Oklahoma Pediatric Residency
2012-2016	Code Blue Team Director The Children's Hospital at OU Medical Center <ul style="list-style-type: none">• Created Code Blue Team with established personnel and roles to improve patient emergency care• Established Code Blue Team Activation Database for Quality Improvement
2012-2016	Children's Hospital Association PICU Central Line Associated Blood Stream Infection (CLABSI) Reduction Physician Director The Children's Hospital at OU Medical Center
2012-2016	Created Best Practice Critical Care Order Sets <ul style="list-style-type: none">• Phenobarbital Coma• Status Asthmaticus• Diabetes Insipidus• Bronchiolitis• Traumatic Brain Injury• Diabetic Ketoacidosis (DKA)• Continuous Renal Replacement Therapy (CRRT)• Pediatric Stroke• Narcotic/Benzodiazepine Withdrawal The Children's Hospital at OU Medical Center
2009-2011	Residency Education Director Sunrise Children's Hospital PICU
2009-2011	Director of Critical Care Renal Replacement Therapy Sunrise Children's Hospital
2005	Physician Training on Electronic Medical Record Co-Medical Director Children's Medical Center Dallas
2002-2005	Medical Informatics Physician Advisory Board Children's Medical Center Dallas

PROFESSIONAL SERVICE (cont)

Committee Service

2017-Present	Ethics Committee Saint Francis Children's Hospital, Tulsa, OK
2016-Present	Graduate Medical Education Committee Saint Francis Children's Hospital, Tulsa, OK
2013-2016	Children's Hospital Donor Awareness Committee The Children's Hospital at OU Medical Center
2013-2016	Pediatric Escalation of Care Committee The Children's Hospital at OU Medical Center
2013-2016	Children's and Women's Quality Committee The Children's Hospital at OU Medical Center
2011	Pharmacy and Therapeutics Committee Sunrise Children's Hospital
2010-2012	HCA National Pediatric Cardiac ICU Research Consortium Steering Committee
2004-2008	Pain Control Committee Children's Medical Center Dallas
2003-2005	Residency Curriculum Committee Children's Medical Center Dallas

College Service

2015-2016	Attendance of White Coat Ceremony University of Oklahoma College of Medicine
2015	Attendance of Commencement Exercises University of Oklahoma College of Medicine

Organizational Service

2012-Present	Key Opinion Leader in Pediatric infection and use of Procalcitonin for Thermofisher Inc.
--------------	---

HONORS AND AWARDS

2016	SAFMR/SSCI Junior Faculty Research Travel Award American Federation for Medical Research, Southern Regional Meeting
2015	Faculty of the Month The University of Oklahoma Department of Pediatrics
2010	Sunrise Children's Hospital PICU Physician of the Month
2008	AMA Young Investigator Grant
2004	Honorable Mention at the Texas Pediatric Society Poster Competition for <i>Case Report: Acute Nephritis, Hepatitis and Pancreatitis in a Pediatric Patient Associated with Oxacillin Therapy</i>

HONORS AND AWARDS

2004	Above and Beyond Resident Award (4 times) University of Texas Southwestern Pediatric Residency
1998	Magna Cum Laude Fort Hays State University; Hays, Kansas
1998	All American Scholar Fort Hays State University; Hays, Kansas
1997	Phi Eta Sigma National Honor Society Fort Hays State University; Hays, Kansas
1997	Who's Who Among American College Students Fort Hays State University; Hays, Kansas
1997	Pi Kappa Delta Honor Society President Fort Hays State University; Hays, Kansas
1997	Mortar Board Fort Hays State University; Hays, Kansas
1996	17 th Speaker Cross Examination Debate Association (CEDA) National Tournament
1996	National Finalist CEDA National Debate Tournament
1994-1998	Dean's List Fort Hays State University; Hays, Kansas
1994-1996	Fort Hays State Debate Team President Fort Hays State University; Hays, Kansas

PROFESSIONAL MEMBERSHIPS

2018-Present	Tulsa Catholic Medical Association
2015-Present	American Federation for Medical Research
2015-Present	Southern Society for Pediatric Research
2009-Present	Fellow, American Academy of Pediatrics, Critical Care Section
2009-Present	American Board of Pediatrics
2009-Present	Society of Critical Care Medicine
2009-2012	American Heart Association

PROFESSIONAL GROWTH AND DEVELOPMENT

2020	Florida Department of Health, Medical Doctor Expert Witness Certificate. Certificate MEEW7350
2019	Centrimag ECMO Clinical Operations and Patient Management Course
2018-2019	Passmachine Pediatric Critical Care Board Review
2017	Armstrong Institute for Patient Safety and Quality, Johns Hopkins Univ. Certificate in Patient Safety
2016	University of Oklahoma Lean Institute Lean Six Sigma White Belt Training
2016	Pediatric Critical Care Colloquium: Foundations and Innovations, New York, New York
2015	Southern Society for Pediatric Research Southern Regional Meeting, New Orleans, Louisiana
2012-Present	Collaborative Institutional Training Initiative (CITI) Certificate
2012	Children's Hospital Association PICU Central Venous Access Blood Stream Infection Collaborative Workshop
2011-2016	Pediatric Critical Care Journal Club attended monthly
2011-2016	Pediatric Critical Care Morbidity and Mortality Conference attended monthly
2011-Present	Pediatric Review and Education Program Annual ICU Review Materials
2010	Emergency and Critical Care Ultrasound Certification
2010-Present	Pediatric Advance Life Support Recertification
2010	Society of Critical Care Medicine Pediatric Critical Care Board Review
2010	Society of Critical Care Medicine National Congress
2009	American Heart Association Scientific Sections
2007	Advanced Trauma Life Support Certification