

## **I. GENERAL BIOGRAPHICAL INFORMATION**

### **A. Personal**

Ayşe Akcan Arıkan

### **B. Education**

Undergraduate Education:

Istanbul American Robert College, Istanbul 1983-1990

Medical Education

Istanbul University Cerrahpasa Medical Faculty - Istanbul 1990-1996

Doctor of Medicine (English Curriculum)

Postgraduate Training

Resident, Pediatrics

Istanbul University Cerrahpasa Medical Faculty - Istanbul, Turkey

1996–2000

Postdoctoral Fellow, Pediatric Critical Care Medicine

Baylor College of Medicine/Texas Children's Hospital - Houston, Texas

2001-2004

Postdoctoral Fellow, Pediatric Nephrology

Baylor College of Medicine/Texas Children's Hospital - Houston, Texas

2004-2006, 2011-2012

Resident, Pediatrics

Baylor College of Medicine/Texas Children's Hospital - Houston, Texas

2009-2011

### **C. Academic Appointments**

#### **1. Faculty Position(s) at BCM**

Associate Professor of Pediatrics with tenure

2018-present

Joint Appointment: Pediatric Critical Care Medicine & Pediatric Renal Services

Baylor College of Medicine, Department of Pediatrics

Assistant Professor of Pediatrics

Joint Appointment: Pediatric Critical Care Medicine & Pediatric Renal Services

Baylor College of Medicine, Department of Pediatrics

2012 - 2018

#### **2. Previous Faculty Position(s) at Other Institutions**

Pediatric Intensivist

Johns Hopkins Anatolian Medical Center - Gebze, Turkey

2006-2009

Consultant in Pediatrics

Johns Hopkins Anatolian Medical Center - Gebze, Turkey

2009-2012

**D. Other Advanced Training/Experience (include locations, dates and sources of support)**

1. Formal Sabbatical Leave: N/A
2. Other Specialized Training Following Academic Appointment  
Harvard Business School Value Based Healthcare Delivery Executive Education Course - May 2016, Texas Medical Center, Houston, TX  
Harvard Medical School Global Clinical Research Program 2018-, Boston, MA

**E. Other Information**

1. Honors/Awards

2019 Best Abstract Award Annual Dialysis Conference Dallas, TX  
2018 Best Abstract Award Annual Dialysis Conference Orlando, FL  
2016 Norton, Rose & Fulbright Faculty Excellence Award, Teaching and Evaluation, Baylor College of Medicine - Houston, TX  
2016 Best Abstract Award Annual Dialysis Conference Seattle, WA  
2016 American Society of Pediatric Nephrology Presentation Award Baltimore, MD  
2016 Top abstract International Pediatric Acute Kidney Injury Symposium Cincinnati, OH  
2015 Best Abstract Award Annual Dialysis Conference New Orleans, LA  
2015 Best Abstract Award Pediatric CRRT Conference London, UK  
2005, 2006 Baylor Fellows' Research Day, Poster of Distinction  
2001 Vehbi Koc Foundation & Texas Children's Hospital training grant for Pediatric Critical Care Medicine Fellowship - \$180,000  
1996 Valedictorian, Cerrahpasa Medical Faculty

2. Board Eligibility/Certification

American Board of Pediatrics, Board Certified  
American Board of Pediatrics, Subboard of Critical Care Medicine, Board Certified  
American Board of Pediatrics, Subboard of Pediatric Nephrology, Board Certified

3. Other Non-academic Positions

Medical Director, Critical Care Nephrology  
Texas Children's Hospital - Houston, TX  
2016-Present  
Medical Director, Extracorporeal Liver Support  
Texas Children's Hospital - Houston, TX  
2014-Present

**II. RESEARCH INFORMATION**

**A. Research Support**

1. Project Title: Vancomycin population pharmacokinetics in critically ill pediatric patients  
Name of Funding Agency: NIH NIAIDI DMID Award  
Contract No. HHSN272201300015I  
Role: PI  
Budget: \$825,045  
Dates of Funding: November 2016 - November 2019 (3 years)

2. Project Title: Nutritional Deficiencies Induced by CRRT  
Name of Funding Agency: Texas Children's Hospital  
Grant: Pediatric Pilot Award  
Role: PI  
Budget: \$50,000  
Dates of Funding: 2015-2016 (12 months)

**B. National Scientific Participation (include dates and titles)**

1. Journal Editorial Boards, etc.:  
2019- Associate Editor, Pediatric Critical Care Medicine  
2018- Editorial Board, member, Pediatric Critical Care Medicine
2. Review Panels, etc.  
Journal of Pediatrics, BMJ, PLoS One, Pediatrics, Congenital Heart Disease, Cardiology in the Young, Blood Purification, Pediatric Nephrology, Critical Care, Pediatric Critical Care Medicine, Kidney International, Clinical Journal of American Society of Nephrology, Journal of American Society of Nephrology, Critical Care Medicine, Hemodialysis International, BMC Nephrology
3. Professional Societies, etc.  
*2015-Present* International Society of Nephrology, Member  
*2010-Present* European Society of Critical Care Medicine, Member  
*2010-Present* European Society of Pediatric and Neonatal Intensive Care, Member  
*2004-Present* American Society of Pediatric Nephrology, Member  
*2004-Present* American Society of Nephrology, Member  
*2000-Present* Society of Critical Care Medicine, Member  
*1990-Present* Robert College Alumni Association, Member
4. Elected Positions, etc.:  
2018-present Member, Texas Children's Hospital Pediatric Pilot Award Review Committee
5. Invited Lectures, Presentations, Seminars
  - a. International  
  
The Alphabet of Acute Kidney Injury, TPK Turk Pediatri Kurumu Annual Meeting, April 2019, Girne, Cypress  
  
Management of Critical Liver Failure- role of blood purification, TPK Turk Pediatri Kurumu Annual Meeting, April 2019, Girne, Cypress  
  
Fluid Overload Kidney Injury Score- FOKIS, Annual Dialysis Meeting, Dallas, TX, March 2019  
  
My Favorite Paper: CRRT, Annual Dialysis Meeting, Dallas, TX, March 2019  
  
Research Update in Pediatric Acute Kidney Injury, Annual Dialysis Meeting, Dallas, TX, March 2019

Early Peritoneal Dialysis Does Not Improve Outcomes. Pediatric Cardiac Intensive Care Society Annual Meeting, Miami, FL, December 2018

Troubleshooting Diuretic Resistance. International Pediatric VAD and Heart Failure Summit, Stanford, CA, September 2018

Acute Kidney Injury and Continuous Renal Replacement Therapy. Annual Dialysis Conference, Orlando, Florida, March 2018

Extracorporeal Liver Support and MARS, Annual Dialysis Conference, Orlando, Florida, March 2018

Prevention of Cardiac Surgery Associated Pediatric Acute Kidney Injury: Is there hope? World Congress of Pediatric Cardiology and Cardiac Surgery, Barcelona, July 2017.

“What’s New in the Management of Hepatic Failure?” Pediatric Current Concepts in Clinical Care Course, Faculty Course Speaker - Society of Critical Care Medicine 2016 February 20-24, 2016 Orlando, FL

Septic Shock: From Pathogenesis to Treatment. Platform Presentation at Istanbul University, Cerrahpasa Emergency Medicine Symposium, Istanbul, Turkey, May 2007.

Caring for the Technology-Dependent Child. Symposium on Chronic Diseases of Childhood, American Hospital, Istanbul, Turkey, September 2006.

b. National/Regional

Advanced Blood Purification in Pediatric Liver Failure, Managing a Critically Ill Child with Liver Failure: Past, Present, and Future. Houston, TX, October 2018

Assessment of Worldwide Acute Kidney Injury and Renal Angina Epidemiology. Renal Research Conference, Texas Children’s Hospital, Houston, TX February 2017

Cutting Edge Advancements in Liver Transplantation: MARS/Liver Dialysis. 2015 Pediatric Transplant Symposium. Texas Children’s Hospital, Houston, TX September 4, 2015

Protocolized Resuscitation and Acute Kidney Injury in Pediatric Septic Shock. Renal Research Conference, Texas Children’s Hospital, Houston, Texas. March 2015.

Continuous Renal Replacement Therapy: Prescription and Pitfalls. TCH Dialysis Unit. Houston, TX, 2014

The Alphabet of Acute Kidney Injury from RIFLE to FOKIS. TCH Grand Rounds. Houston, TX. January 2014

Extracorporeal Liver Support. Citywide Transfusion Medicine Grand Rounds. Methodist Hospital. Houston, TX. November 6<sup>th</sup>, 2013.

Decongestive Strategies in Acute Decompensated Heart Failure. 2013 Heart Failure Summit. Rice University, Houston, TX. October 10-12, 2013.

The Use and Abuse of Diuretics in Liver Failure. Liver Section Noon Conference.  
Texas Children's Hospital, Houston, TX September 30, 2013

Don't Break My Heart: Myocardial Stun in Hemodialysis. TCH Dialysis Unit  
Houston, TX, April 2012

### C. Publications

#### 1. Full Papers in Peer Review Journals

##### a. Published

1. Vaewpanich, Jarin; **Akcan-Arikan, Ayse**; A. Cossbu, Jorge; E. Kennedy, Curtis; R. Starke, Jeffrey; Thammasitboon, Satid. Fluid Overload and Kidney Injury Score as a Predictor for Ventilator-Associated Events. *Front Pediatr*. 2019 May 22;7:204
2. Moffett BS, Resendiz K, Morris J, **Akcan-Arikan A**, Checchia PA. Population Pharmacokinetics of Vancomycin in the Pediatric Cardiac Surgical Population. *J Pediatr Pharmacol Ther*. 2019 Mar-Apr;24(2):107-116.
3. Jack F. Price MD, Samuel Younan BS, Antonio G. Cabrera MD, Susan W. Denfield, MD, Hari Tunuguntla MD, Swati Choudhry MD, William J. Dreyer MD, **Ayse Akcan-Arikan MD**. Loop Diuretic Responsiveness and its Prognostic Significance in Children With Acute Heart Failure. *J Card Fail*. 2019 Apr 12. pii: S1071-9164(18)31235-1. doi: 10.1016/j.cardfail.2019.03.019.
4. Moffett BS, Morris J, Munoz F, **Arikan AA**. Population pharmacokinetic analysis of vancomycin in pediatric continuous renal replacement therapy. *Eur J Clin Pharmacol*. 2019 Apr 1. doi: 10.1007/s00228-019-02664-7. [Epub ahead of print]
5. Wong Vega M, Juarez Calderon M, Tufan Pekkuksen N, Srivaths P, **Akcan Arikan A**. Feeding Modality is a Barrier to Adequate Protein Provision in Children Receiving Continuous Renal Replacement Therapy (CRRT). *Pediatr Nephrol*. 2019 Mar 6. doi: 10.1007/s00467-019-04211-z. [Epub ahead of print]
6. Gideon A. Stitt, Jennifer Morris, Lindsay Schmees, Joseph R. Angelo, **Ayse Akcan-Arikan**. Cefepime Pharmacokinetics in Critically Ill Pediatric Patients Receiving Continuous Renal Replacement Therapy. *Antimicrob Agents Chemother*. 2019 Feb 4. pii: AAC.02006-18. doi: 10.1128/AAC.02006-18
7. Brady Moffett, Vijay Ivaturi, Jennifer Morris, **Ayse Akcan Arikan**, and Ankhi Dutta. Population Pharmacokinetic Assessment of Vancomycin Dosing in the Large Pediatric Patient. *Antimicrob Agents Chemother*. 2019 Feb 11. pii: AAC.02359-18. doi: 10.1128/AAC.02359-18. [Epub ahead of print]
8. Venessa Pinto, Scott Wenderfer, Jennifer Morris, **Ayse Akcan Arikan**. Treatment of severe amlodipine toxicity with use of molecular adsorbent recirculating system in tandem with extracorporeal membrane oxygenation., *Kidney Int Rep*. 2018 Sep 28;4(2):346-349. doi: 10.1016/j.ekir.2018.09.017. eCollection 2019 Feb.

9. Alyssa A. Riley MD, Mary Watson, Carolyn Smith, Danielle Guffey, Charles G. Minard, Helen Currier, **Ayse Akcan-Arikan**. Pediatric continuous renal replacement therapy: have practice changes changed outcomes? A large single-center ten-year retrospective evaluation. *BMC Nephrol*. 2018 Oct 19;19(1):268.
  
10. Brady S Moffett, Jennifer Morris, Charissa Kam, Marianne Galati, Ankhi Dutta<sup>1</sup>, **Ayse Akcan-Arikan**. Vancomycin Associated Acute Kidney Injury in Pediatric Patients. *PLoS One*. 2018 Oct 3;13(10):e0202439
  
11. Lion, R. Tufan Pekkucuksen N, Srivaths, P, **Akcan-Arikan A**. The Safety and Efficacy of Regional Citrate Anticoagulation in Albumin Assisted Dialysis for Extracorporeal Liver Support in Pediatric Patients, *Blood Purif*. 2018 Sep 25:1-5 [Epub ahead of print]
  
12. David T. Selewski, **Ayse Akcan-Arikan**, Elizabeth M. Bonachea, Katja M. Gist, Stuart L. Goldstein, Mina Hanna, Catherine Joseph, John D. Mahan, Arwa Nada, Amy T. Nathan, Kimberly Reidy, Amy Staples, Pia Wintermark, Louis J. Boohaker, Russell Griffin, David J. Askenazi, and Ronnie Guillet on behalf of the Neonatal Kidney Collaborative. The Impact of Fluid Balance on Outcomes in Critically Ill Near-Term/Term Neonates: a report from the AWAKEN study group. *Pediatr Res*. 2018 Sep 20. [Epub ahead of print]
  
13. Noelle M. Gorgis, Curtis Kennedy, Kathleen Thompson, Jorge Coss-Bu, Fong Lam, **Ayse Akcan Arikan**, Trung Nguyen, Kathleen Hosek, Tamir Miloh, Saul J. Karpen, Daniel J. Penny, John Goss, Moreshwar S. Desai. Clinical Consequences of Cardiomyopathy in Children with Biliary Atresia Requiring Liver Transplantation. *Hepatology*. 2018 Aug 3. doi: 10.1002/hep.30204. [Epub ahead of print] PMID: 30076624
  
14. Christopher R. Broda, Hamsini Sriraman, Devanshi Wadhwa, YunFei Wang, Hari Tunuguntla, **Ayse Akcan-Arikan**, Peter R. Ermis, Jack F. Price. Renal Dysfunction is Associated with Higher Central Venous Pressures in Patients with Fontan Circulation. *Congenital Heart Disease*, 2018 Jul-Aug; 13(4):602-607
  
15. Brady Moffett, Jennifer Morris, Marianne Galati, Flor M. Munoz, **Ayse Akcan-Arikan**. Population Pharmacokinetics of Vancomycin in Pediatric Extracorporeal Membrane Oxygenation, *Pediatr Crit Care Med*. 2018 Jul 30. [Epub ahead of print]
  
16. Molly Wong Vega, Marisa Juarez, Ji Yeon Lee, Poyyapakkam Srivaths, Eric Williams, **Ayse Akcan-Arikan**. Quality Improvement Bedside Rounding Audits Enhances Protein Provision for Pediatric Patients Receiving Continuous Renal Replacement Therapy. *Pediatric Critical Care Medicine*: July 27, 2018 - Volume Online First - Issue - p doi: 10.1097/PCC.0000000000001698
  
17. Brady Moffett, Jennifer Morris, Marianne Galati, Flor M. Munoz, **Ayse Akcan-Arikan** Population Pharmacokinetic Analysis of Gentamicin in Pediatric Extracorporeal Membrane Oxygenation. *Ther Drug Monit*. 2018 Jun 26. doi: 10.1097/FTD.0000000000000547. [Epub ahead of print. PMID: 29957666

18. **Akcan-Arikan A.**, Srivaths P, Himes RW, Tufan Pekkucuksen N, Lam F, Nguyen T, Miloh T, Braun M, Goss J, Desai M. Hybrid extracorporeal therapies as a bridge to pediatric liver transplantation. *Pediatr Crit Care Med*. 2018 Apr 12.
19. Erika O. Bernardo, Andrea T. Cruz, Gregory J. Buffone, Sridevi Devaraj, Laura L. Loftis, **Akcan-Arikan A.** Community-Acquired Acute Kidney Injury in the Pediatric Emergency Department. *Acad Emerg Med*. 2018 Apr 6. doi: 10.1111/acem.13421
20. Wise RT, Moffett BS, **Akcan-Arikan A.**, Galati M, Afonso N, Checchia PA. Enhancement of diuresis with metolazone in infant paediatric cardiac intensive care patients. *Cardiol Young*. 2018 Jan;28(1):27-31. Epub 2017 Sep 11. PMID: 28889825
21. Rodriguez K, Srivaths P, Tal L, Watson MN, Riley A, Himes R, Desai M, Braun M, **Akcan-Arikan A.** Safety and Efficacy of Regional Citrate Anticoagulation for Continuous Renal Replacement Therapy in Pediatric Patients with Liver Failure. *PLoS One*
22. **Akcan-Arikan A.**, Gebhard D, Arnold M, Loftis L, Kennedy C. Fluid overload kidney injury score (FOKIS): A multidimensional real-time assessment of renal disease burden in the critically ill patient. *Pediatr Crit Care Med*. 2017 Apr 12. doi: 10.1097/Epub ahead of print
23. Bronicki RA, Domico M, Checchia PA, Kennedy CE, **Akcan-Arikan A.** The use of nesiritide in children with critical cardiac disease. *Cardiol Young*. 2017 Jun 23:1-8. doi: 10.1017/S104795111700083X. [Epub ahead of print] PMID: 28641607
24. Ahmad Kaddourah, M.D., Rajit K. Basu, M.D., Sean M. Bagshaw, M.D., and Stuart L. Goldstein, M.D., for the AWARE Investigators (**Akcan-Arikan A.**, Arnold M., Cruz C., et al) Epidemiology of Acute Kidney Injury in Critically Ill Children and Young Adults. *N Engl J Med*. 2017 Jan 5;376(1):11-20. doi: 10.1056/NEJMoa1611391.
25. Bronicki RA, Domico M, Checchia PA, Kennedy CE, **Akcan-Arikan A.** The Use of Nesiritide in Children with Congenital Heart Disease. *Pediatr Crit Care Med*. 2016 Nov 15. [Epub ahead of print] PMID: 27849656
26. Moffett BS, Tsang R, Kennedy C, Bronicki RA, **Akcan-Arikan A.**, Checchia PA. Efficacy of Sequential Nephron Blockade with Intravenous Chlorothiazide to Promote Diuresis in Cardiac Intensive Care Infants. *Cardiol Young*. 2016 Nov 11:1-6. [Epub ahead of print] PMID: 27834164
27. Kyle UG, **Akcan-Arikan A.**, Silva JC, Goldsworthy M, Shekerdemian LS, Coss-Bu JA. Protein Feeding in Pediatric Acute Kidney Injury Is Not Associated With a Delay in Renal Recovery. *J Ren Nutr*. 2016 Nov 9. pii: S1051-2276(16)30142-X. doi: 10.1053/j.jrn.2016.09.009. [Epub ahead of print] PMID: 27838192
28. Fitzgerald JC, Basu RK, **Akcan-Arikan A.**, Izquierdo LM, Piñeres Olave BE, Hassinger AB, Szczepanska M, Deep A, Williams D, Sapru A, Roy JA, Nadkarni VM, Thomas NJ, Weiss SL, Furth S. Acute Kidney Injury in Pediatric Severe Sepsis: An Independent Risk Factor for Death and New Disability; Sepsis Prevalence, Outcomes, and Therapies Study Investigators and Pediatric Acute Lung Injury and Sepsis Investigators Network. *Crit Care Med*. 2016 Aug 10. [Epub ahead of print] PMID: 27513354

29. Geer JJ, Shah S, Williams E, **Arikan AA**, Srivaths P. “Faster Rate of Blood Volume Change in Pediatric Hemodialysis Patients Impairs Cardiac Index”. *Pediatr Nephrol*. 2016 Aug 23. [Epub ahead of print] PMID: 27553912
30. Price JF, Kantor PF, Shaddy RE, Rossano JW, Goldberg JF, Hagan J, Humlicek TJ, Cabrera AG, Jeewa A, Denfield SW, Dreyer WJ, **Akcan-Arikan A**. “Incidence, Severity, and Association With Adverse Outcome of Hyponatremia in Children Hospitalized With Heart Failure”. *A. Am J Cardiol*. 2016 Oct 1;118(7):1006-10. doi: 10.1016/j.amjcard.2016.07.014. Epub 2016 Jul 18. PMID: 27530824
31. **Akcan-Arikan A**; Williams, EA; Graf, JM; Kennedy, CE; Patel, B; Cruz, AT. “Resuscitation Bundle in Pediatric Shock Decreases Acute Kidney Injury and Improves Outcomes”. *J Pediatr*. 2015 Sep 24. Pii: S0022-3476(15)00977-4. Doi: 10.1016/j.jpeds.2015.08.044. [Epub ahead of print] PMID: 26411864 [PubMed – as supplied by publisher]
32. Basu RK; Kaddourah A; Terrell T; Mottes T; Arnold P; Jacobs J; Andringa J; Goldstein SL; Prospective Pediatric AKI Research Group (ppAKI) : Askenazi D; Gist K; Sutherland S; Coulores O; Faustino V; Zaritksy J; Paden M; Brophy P; Selewski D; Hackbarth R; Chadha V; Dharnidharka V; Davis T; Wong C; Schneider J; Lin F; Woroniecki R; Fleming G; Riley A; **Akcan-Arikan A**; Bunchman T; Williams D; Alexander S; Kennedy S; Hahn D; Morgan C; Zappitelli M; Peljian A; Mammen C; Huang S; Hidayati E; Prasetyo R; Soemgaro N; Picca S; Ha IS; Kang HG; Deep A; Stajic N; Spasojevic B. “Assessment of Worldwide Acute Kidney Injury, Renal Angina and Epidemiology in Critically Ill Children (AWARE): Study Protocol for a Prospective Observational Study”. *BMC Nephrol*. 2015 Feb 26;16:24. doi: 10.1186/s12882-015-0016-6. PMID: 25882434
33. Moffett, BS; Hilvers, PS; Dinh, K; **Akcan-Arikan A**; Checchia, PA; Bronicki R. “Vancomycin-Associated Acute Kidney Injury in Pediatric Cardiac Intensive Care Patients”. *Congenit Heart Dis* 2015 Jan-Feb;10(1):E6-10. doi: 10.1111/chd.12187. Epub 2014 Jun 17.
34. Philip, J; Burgman, C; Bavare, AC; **Akcan-Arikan A**; Price, JF; Adachi, I; Shekerdemian, LS. “The Nature of Underlying Heart Disease Impacts Survival in Pediatric Patients Undergoing Extracorporeal Cardiopulmonary Resuscitation: Journal of Thoracic and Cardiovascular Surgery”. *J Thorac Cardiovasc Surg*. 2014 Nov;148(5):2367-72. doi: 10.1016/j.jtcvs.2014.03.023. Epub 2014 Mar 21. PMID: 24787696
35. Kyle, UG; **Akcan-Arikan A**; Orellana, RA; Coss-Bu, JA. “Nutrition Support Among Critically Ill Children with AKI”. *Clin J Am Soc Nephrol*. 2013 Jan
36. **Akcan-Arikan A**; Zappitelli, M; Goldstein, SL; Naipaul, A; Loftis, L. “Fluid Overload Is Associated With Impaired Oxygenation and Mortality Independent of Severity of Illness”. *Pediatric Crit Care Med*. 2012 May;13(3):253-258
37. Moran, A; Thacker, SA; **Akcan-Arikan A**; Mastrangelo, MA; Wu, Y; Yu, B; Tweardy, DJ. “IL-6 Mediated Activation of Stat3 $\alpha$  Prevents Trauma/Hemorrhagic Shock-induced Liver Inflammation”. *PloS One* 2011;6(6):e21449. Epub 2011 Jun 29
38. Moran, A; **Akcan-Arikan A**; Mastrangelo, MA; Wu, Y; Yu, B; Poli, V; Tweardy, DJ. “Prevention of Trauma and Hemorrhagic Shock-Mediated Liver Apoptosis by Activation of Stat3 $\alpha$ ”. *Int J Clin Exp Med*. 2008; 1(3):213-214 Published online 2008 June 15



39. Zappitelli, M; Parikh, CR; **Akcan-Arikan A**; Washburn, KK; Moffet, BS; Goldstein, SL. “Ascertainment and Epidemiology of Acute Kidney Injury Varies with Definition Interpretation”. Clin J Am Soc Nephrol. 2008 Jul; 3(4):948-54. Epub 2008 Apr 16
  40. Washburn, K; Zappitelli, M; **Akcan-Arikan A**; Loftis, L; Parikh, CR; Edelstein, C; Goldstein, SL. “Urinary Interleukin-18 is a Marker of Severe Acute Kidney Injury in Critically Ill Children”. Nephrol Dialysis Transplant. 2008 Feb; 23(2):566-72 Epub 2007 Oct 1
  41. Washburn, K; Zappitelli, M; **Akcan-Arikan A**; Loftis, L; Qing, Ma; Devarajan, P; Parikh, CR; Goldstein, SL. “Urine Neutrophil Gelatinase-associated Lipocalin is an Early Marker of Acute Kidney Injury in Critically Ill Children: A Prospective Cohort Study”. Crit Care, 2007 Aug 2; 11 (4) : R 84
  42. **Akcan-Arikan A**; Zappitelli, M; Washburn, K; Loftis, L; Kennedy, CE; Jefferson, LS; Goldstein, SL. “Modified RIFLE Criteria in Critically Ill Children with Acute Kidney Injury” Kidney Int 2007 May; 71(10):1028-35 Epub 2007, Mar 28
  43. **Akcan-Arikan A**; Yu, B; Mastrangelo, MA; Tweardy, DJ. “IL-6 Treatment Reverses Apoptosis and Blunts Susceptibility to Intraperitoneal Bacterial Challenge following Hemorrhagic Shock”. Crit Care Med. 2006 Mar;34(3):771-7.
- b. Consortium publications:
1. Harer MW, Askenazi DJ, Boohaker LJ, Carmody JB, Griffin RL, Guillet R, Selewski DT, Swanson JR, Charlton JR; Neonatal Kidney Collaborative (NKC). Association Between Early Caffeine Citrate Administration and Risk of Acute Kidney Injury in Preterm Neonates: Results From the AWAKEN Study. JAMA Pediatr. 2018 Jun 4;172(6):e180322. doi: 10.1001/jamapediatrics.2018.0322. Epub 2018 Jun 4. PMID: 29610830
  2. Kraut EJ, Boohaker LJ, Askenazi DJ, Fletcher J, Kent AL; Neonatal Kidney Collaborative (NKC). Incidence of neonatal hypertension from a large multicenter study [Assessment of Worldwide Acute Kidney Injury Epidemiology in Neonates-AWAKEN]. Pediatr Res. 2018 May 23. [Epub ahead of print] PMID: 29795211
  3. Jetton JG, Boohaker LJ, Sethi SK, Wazir S, Rohatgi S, Soranno DE, Chishti AS, Woroniecki R, Mammen C, Swanson JR, Sridhar S, Wong CS, Kupferman JC, Griffin RL, Askenazi DJ; Neonatal Kidney Collaborative (NKC). Incidence and outcomes of neonatal acute kidney injury (AWAKEN): a multicentre, multinational, observational cohort study. Lancet Child Adolesc Health. 2017 Nov;1(3):184-194.
  4. Basu RK1, Kaddourah A1,2, Goldstein SL1; AWAKE Study Investigators (**Akcan-Arikan A**, Arnold M, ). Lancet Child Adolesc Health. 2018 Feb;2(2):112-120-Assessment of a renal angina index for prediction of severe acute kidney injury in critically ill children: a multicentre, multinational, prospective observational study.
- c. Invited Editorials & Reviews:
1. Amanda Ruth, **Ayse Akcan Arikan**. New kid on the block: Is NT-proBNP ready for the big time? Pediatr Crit Care Med. 2019 Feb;20(2):201-202

2. Virk M, Akcan-Arikan A. Fluid overload in critically ill children is associated with increased mortality. *J Pediatr*. 2018 Jul;198:322-325. doi: 10.1016/j.jpeds.2018.04.059. PMID: 29936964
3. Tal L, Angelo JR, **Akcan-Arikan A.**; Neonatal extracorporeal renal replacement therapy-a routine renal support modality? *Pediatr Nephrol*. 2016 Nov;31(11):2013-5. doi: 10.1007/s00467-016-3423-4. Epub 2016 Jun 6. PMID:27270721
4. Gebhard DJ, **Akcan-Arikan A.** You Can Teach an Old Drug New Tricks-Aminophylline for Cardiac Surgery-Associated Acute Kidney Injury. *Pediatr Crit Care Med*. 2016 Aug;17(8):798-9. doi: 10.1097/PCC.0000000000000867. No abstract available. PMID: 27500617
5. Riley, A; Gebhard, DJ; **Akcan-Arikan A.** "Acute Kidney Injury in Pediatric Heart Failure." *Curr Cardiol Rev*. 2015
6. **Akcan-Arikan A.**; Pediatric Acute Kidney Injury–Deadly Now, Costly Later, and a Public Health Burden. *Pediatr Crit Care Med*. 2015 Oct;16(8):774-5. doi: 10.1097/PCC.0000000000000473 PMID: 26427808
7. **Akcan-Arikan A.** "Fluid: A New "Drug" in the PICU." *Pediatr Crit Care Med* 2015 **16**(3): 289-290.
8. **Akcan-Arikan A.**; "Citak, A. Pediatric Shock: A Review". *Signa Vitae*,2008;3(1):13-23

Accepted/In Press

Manpreet Virk, **Ayse Akcan Arikan.** "Deconstructing the syndrome of acute kidney injury-what are the phenotypes?" *Pediatric Critical Care Medicine*, accepted

## 2. Full Papers Without Peer Review

### a. Published:

### b. In Preparation

1. Gebhard D, Price J, Kennedy C, **Akcan-Arikan A.** Standardized acute kidney injury criteria for defining pediatric cardiorenal syndrome in pediatric acute decompensated heart failure, *Nephron*, under review
2. Lion R, Vega M, Braun M, Desai M, Devaraj S, Smith O, **Akcan-Arikan A.** Effect of Continuous Venovenous Hemodiafiltration on Amino Acid Delivery and Clearance in Children, in prep
3. Zahraa Al-Lawati, Moushumi Sur, Curtis Kennedy, **Ayse Akcan-Arikan.** Profile of Fluid Exposure and Recognition of Fluid Overload in Pediatric Critically Ill Children, in revision
4. Kent M, Bell C, Loftis L, McPherson M, Graf J, **Akcan-Arikan A.** Functional Outcome of Pediatric Continuous Renal Replacement Therapy Survivors, in prep

5. Brady S Moffett, Jennifer Morris, Flor Munoz, **Ayse Akcan-Arikan** Population Pharmacokinetic Analysis of Vancomycin in Pediatric Continuous Renal Replacement Therapy, in revision.
6. Manpreet Virk, Curtis E Kennedy, Moushumi Sur, Laura Loftis, **Ayse Akcan Arikan**. Does oliguria predict worse oxygenation in pediatric respiratory failure?, in prep.
7. , under review
8. Jack F. Price MD, Samuel Younan BS, Antonio G. Cabrera MD, Susan W. Denfield, MD, Hari Tunuguntla MD, Swati Choudhry MD, William J. Dreyer MD, **Ayse Akcan-Arikan** MD. Loop Diuretic Responsiveness and its Prognostic Significance in Children With Acute Heart Failure, in revision
9. Erika Bernardo, Sridevi Devaraj, Laura Loftis, **Ayse Akcan Arikan**, Andrea Cruz. Defining Pediatric Community-Acquired Acute Kidney Injury, under review
10. Naile Tufan Pekkucuksen, **Ayse Akcan Arikan**, Sarah JM Swartz, Poyyapakkam Srivaths, Joseph R Angelo Characteristics and Clinical Outcomes of Prolonged Continuous Renal Replacement Therapy in Critically Ill Pediatric Patients, in prep
11. Neziha Celebi, Poyyapakkam Srivaths, **Ayse Akcan Arikan**. Dose delivered in pediatric continuous renal replacement therapy, in prep

3. Abstracts Given During Last Three Years (based on posters or oral presentations)

Poster Presentations (last 3 years)

1. Alexandra Idrovo, Swati Choudhry, Molly W Vega, Iki Adachi, **Ayse Akcan-Arikan**. Renal recovery after acute kidney injury in pediatric patients with Continuous-Flow Ventricular Assist Device. Pediatric Academic Societies, Baltimore, MD, April 2019
2. Haleigh Inthavong, Jessica Geer, Sarah Swartz, Poyyapakkam Srivaths, **Ayse Akcan Arikan**. Application of non-invasive hemodynamic monitoring to pediatric dialysis treatments: a pilot study. Pediatric Academic Societies, Baltimore, MD, April 2019
3. Implementation of a Dedicated Collaborative Liver Intensive Care Team Improves Peri-Transplant Outcomes in Critically Ill Children with End Stage Liver Disease. Fong Lam, Noelle Gorgis, Kathleen Hosek, Christopher Osborne, Manpreet Virk, Kathleen Thompson, Trung Nguyen, Amy Arrington, Ayse Arikan, Tamir Miloh, Curtis Kennedy, Abbas Rana, John Goss, Moreshwar Desai, AASLD 2018,
4. A Dedicated Collaborative Liver Intensive Care Team Improves Peri-Transplant Outcomes in Critically Ill Children with End Stage Liver Disease. Lam F, Thompson K, Virk M. Osborne C, Nguyen T, **Akcan Arikan A**, Desai M
5. Erika O. Bernardo, Hannah E. Starke, Gregory J. Buffone, Sridevi Devaraj, Laura L. Loftis, **Ayse A. Arikan**, Andrea T. Cruz,. Defining Pediatric Community-Acquired Acute Kidney Injury. Pediatric Academic Societies Annual Meeting, 2018, Toronto, CA
6. **Ayse Akcan-Arikan**, Naile Pekkucuksen, Poyyapakkam Srivaths, Joseph Angelo, Theresa Mottes, Michael Braun. Hemostatis parameter changes induced by filter change in infants on continuous renal replacement therapy, ISICEM March 2018, Brussels, Belgium

7. Idrovo A., **Akcan-Arikan A**, Malatesta-Muncher R., Tal, L. Hypokalemia in Continuous Renal Replacement Therapy. *Poster Presentation* at 2018 Annual Dialysis Conference (ADC). Orlando, Florida March 3-6, 2018
8. Stitt, G, Morris, J, Schmees, L, Angelo, J, **Akcan-Arikan A**. Cefepime Pharmacokinetics in Critically Ill Pediatric Patients Receiving CRRT. *Poster Presentation* 47th Critical Care Congress (SCCM). San Antonio, Texas. February 25-28, 2018.
9. Stitt, G, Morris, J, Schmees, L, Angelo, J, **Akcan-Arikan A.**, Meropenem Pharmacokinetics in Critically Ill Patients Receiving CRRT. *Poster Presentation* 47th Critical Care Congress (SCCM). San Antonio, Texas. February 25-28, 2018.
10. Morris, J, Cerminara, D, Munoz, F, Bocchini, C, **Akcan-Arikan A.**, Swartz, S. Daptomycin Exposure in a Critically Ill Pediatric Patient Requiring CRRT. *Poster Presentation* 47th Critical Care Congress (SCCM). San Antonio, Texas. February 25-28, 2018.
11. **Akcan-Arikan A.**, Naile Tufan Pekkucuksen, Molly R. Vega, Peace D. Imani, Eileen D. Brewer, Poyyapakkam Srivaths. Vitamin D Deficiency Prevalent in Pediatric Patients with Severe AKI on Prolonged Continuous Renal Replacement Therapy. New Orleans, LA. 2017 American Society of Nephrology Kidney Week Annual Meeting. October 31-November 5, 2018.
12. David T Selewski, **Akcan-Arikan A.**, Elizabeth Bonachea, Katja M Gist, Stuart Goldstein, Mina Hanna, Catherine Joseph, John Mahan, Arwa Nada, Amy T. Nathan, Kimberly Reidy, Amy Staples, Pia Wintermark, Louis J Boohaker, Russell Griffin, David Askenazi, and Ronnie Guillet on behalf of the Neonatal Kidney Collaborative. The Epidemiology & Impact of Fluid Balance on Outcomes in Critically Ill Preterm Neonates: a report from the AWAKEN study group. New Orleans, LA. 2017 American Society of Nephrology Kidney Week Annual Meeting. October 31-November 5, 2018.
13. David T Selewski, **Akcan-Arikan A.**, Elizabeth Bonachea, Katja M Gist, Stuart Goldstein, Mina Hanna, Catherine Joseph, John Mahan, Arwa Nada, Amy T. Nathan, Kimberly Reidy, Amy Staples, Pia Wintermark, Louis J Boohaker, Russell Griffin, David Askenazi, and Ronnie Guillet on behalf of the Neonatal Kidney Collaborative. The Epidemiology & Impact of Fluid Balance on Outcomes in Critically Ill Near-Term/Term Neonates: a report from the AWAKEN study group. New Orleans, LA. 2017 American Society of Nephrology Kidney Week Annual Meeting. October 31-November 5, 2018.
14. Zahida Khan, Moreshwar Desai, Fong Lam, John Goss, **Ayse Akcan-Arikan**, Tamir Miloh. Retrospective Study of Renal Replacement Therapy after Pediatric Liver Transplantation. AASLD October 2017, Washington DC.
15. Tufan Pekkucuksen N, Safdar, A, Srivaths P, Braun M, Swartz SM, **Akcan Arikan A**, Angelo JR. Long term renal outcomes in CRRT survivors of pediatric liver failure. Pediatric CRRT Meeting, September 2017. Orlando, FL
16. Tufan-Pekkucuksen N; Srivaths PR; Watson M; **Akcan-Arikan A** ; Angelo JR. Outcomes of prolonged CRRT in a pediatric population – a single center experience. Pediatric CRRT Meeting, September 2017. Orlando, FL

17. Erika O. Bernardo, Andrea T. Cruz, Gregory J. Buffone, Sridevi Devaraj, Laura L. Loftis, **Ayşe A. Arıkan**. Kidney Injury Detection and Prevention In Children, AAP NCE September 2017, Chicago, IL
18. Tara Haworth, Ji Lee, Jennifer Morris, Katie Sigler, **Ayşe Arıkan**, Poyyapakkam Srivaths. Incidence of hypocalcemia in pediatric patients receiving continuous renal replacement therapy and tandem therapeutic plasma exchange. International CRRT and AKI Meeting, March 2017, San Diego, CA
19. **Akcan-Arıkan A.**, Kennedy C. 1298: Acute Kidney Injury and Fluid Overload may be Better Recognized by Automated Screening. *Crit Care Med.* 2016 Dec;44(12 Suppl 1):400. PMID: 27850934
20. Lion R, Vega M, Braun M, Desai M, Deveraj S, Smith O, **Akcan-Arıkan A.**,1293: Effect of Continuous Venovenous Hemodiafiltration on Amino Acid delivery and Clearance in Children. *Crit Care Med.* 2016 Dec;44(12 Suppl 1):399. PMID: 27850929
21. Ontaneda A, Shekerdemian L, Coss Bu J, **Akcan-Arıkan A.**, 166: Total Diuretic Exposure and Hyponatremia in the First 72 Hours after Congenital Heart Surgery. *Crit Care Med.* 2016 Dec;44(12 Suppl 1):119. PMID: 27849809
22. Kyle, UG; **Akcan-Arıkan, A.**; Silva, JC; Mackey, G; Lusk, JL; Goldsworthy, M; Shekerdemian; LS; Coss-Bu, JA. Protein feeding in Pediatric Acute Kidney Injury does not delay renal recovery. *Intensive Care Medicine Experimental.* 2016;4(1):405-607
23. **Akcan-Arıkan A.**, Kenney C. "Impact of cumulative nephrotoxin exposure on acute kidney injury in the pediatric critically ill patients". *Intensive Care Medicine Experimental.* 2016;4(1)
24. Bakshi A, Kueht M, Rana A, **Akcan Arıkan A.**, Goss J. Children Listed as Status 1B for Liver Transplantation Are Disenfranchised by MARS Therapy. *Am J Transplant.* 2016;16 (suppl 3).
25. Lion, R; Srivaths, P; Swartz, S; Angelo, J; Braun, B; **Akcan-Arıkan A.** Delivered Dose for Pediatric Continuous Renal Replacement Therapy. 2016 International Symposium on AKI in Children. June 24-26, 2016. Cincinnati, Ohio
26. Angelo, JR; Srivaths, PR; Swartz, SJ; Braun, MC; Riley, AA; **Akcan-Arıkan A.** Pediatric Patients Receiving Continuous Renal Replacement Therapy (CRRT) do not have Adequate Outpatient Renal Follow Up. 2016 International Symposium on AKI in Children. June 24-26, 2016. Cincinnati, Ohio
27. Angelo, JR; Srivaths PR; Swartz, SJ; Braun, MC; Riley, AA; **Akcan-Arıkan A.** Prolonged Continuous Renal Replacement (CRRT) in Pediatric Patients with Acute Kidney Injury (AKI). 2016 International Symposium on AKI in Children. June 24-26, 2016. Cincinnati, Ohio
28. **Akcan-Arıkan A.**; Srivaths, P; Kennedy, CE; Lam, F; Nguyen, TC; Lion, R; Himes, R; Braun, MC; Goss, J; Desai, M. "Hybrid Extracorporeal Therapies as a Bridge to Pediatric Liver Transplantation". PICC 2016 Toronto, Canada
29. Vega, M; Lion, R; Juarez, M; Currier H; Braun, M; Swartz, S; Srivaths, P; **Akcan-Arıkan A.** Implementation of a Renal Extracorporeal Quality Improvement Team Improves Nutrition Delivery in Critically Ill Pediatric Patients Receiving Continuous Renal Replacement Therapy (CRRT). PICC 2016 Toronto, Canada

30. Tal, L; Srivaths, P; Swartz, S; **Akcan-Arikan A.** “Traditional Factors do not Impact Continuous Renal Replacement Therapy Filter Life in Pediatric Patients on Regional Citrate Anticoagulation”. PAS 2016, Baltimore, MD
31. Tunuguntla, H, Guffey, D, Minard, CG, **Akcan-Arikan, A,** Cabrera, AG, Jeewa, A, Denfield SW, Dreyer, WJ, Price, JF. “Venous Congestion is Associated with Kidney Injury and Worsening Renal function in Children with Cardiovascular Disease.” The International Society for Heart and Lung Transplantation. Washington, DC. April 27-30, 2016.
32. Shah, S; Kale, A; Swartz, S; **Akcan-Arikan A.** “Improving the Informed Consent Process for Peritoneal Dialysis in Infants Undergoing Cardio-Pulmonary Bypass Surgery - A Quality Improvement Initiative”. 36th Annual Dialysis Conference, Seattle, Washington, February 27-March 1, 2016
33. Al-Lawati, ZH; **Akcan-Arikan A;** Kennedy, CE. “Recognition of Fluid Overload in Critically Ill Pediatric Patients”. Society of Critical Care Annual Meeting, 2016, Orlando, FL.
34. Tsang, R; Ebraheem, M; Moffett, BS; Kennedy, C; Bronicki, RA; **Akcan-Arikan A.;** Checchia, PA. Efficacy of Sequential Nephron Blockade in Pediatric Cardiac Intensive Care Patients. Society of Critical Care Medicine. Orlando, FL. February 19-24, 2016
35. Rafie, K; Cruz, C; **Akcan-Arikan A.;** Checchia, PA; Bavare, A. Outcomes of Pediatric Cardiac Patients with Acute Kidney Injury at Rapid Response Events. Society of Critical Care Medicine. Orlando, FL. February 19-24, 2016
36. Allstead, A; Devaraj, S; Teruya, J; Gonzalez, G; **Akcan-Arikan A.**” A Novel Method of Blood Prime Buffering for Pediatric Continuous Renal Replacement Therapy”. Pediatric CRRT Meeting, London, UK, 2015.
37. Happe, M; Sarasak, G; **Akcan-Arikan A.** “Nurse Driven Anticoagulation Protocol in Pediatric Continuous Renal Replacement Therapy”. Pediatric CRRT Meeting, London, UK, 2015.
38. Al-Lawati, ZH; Kennedy, CE; **Akcan-Arikan A.** “Profile of Fluid Exposure in Pediatric Critically Ill Patients.” Pediatric CRRT Meeting, London, UK, 2015.
39. L. Tal, P. Srivaths, J. Teruya, S.M. Jamieson, S.M. Swartz, A.G. Allsteadt, M.S. Desai, H. Currier, **Akcan-Arikan A.** “Blood Product Administration is not Associated with Unscheduled Filter Change in Pediatric Patients with Liver Failure on Continuous Renal Replacement Therapy”. Pediatric CRRT Meeting, London, UK, 2015.
40. Ahmad Kaddourah, Rajit Basu, Stuart L Goldstein on behalf of the “Assessment of Worldwide Acute Kidney Injury, Renal Angina and Epidemiology in Critically ill Children (AWARE)” investigators. “The Epidemiology and Outcome of Worldwide Acute Kidney Injury in Critically Ill Children: A Prospective Multinational Study” ASN 2015
41. Tunuguntla, H; Guffey, D; Minard, CG; **Akcan-Arikan A.;** Cabrera, AG; Jeewa, A; Denfield, SW; Dreyer, WJ; Price, JF. “Venous Congestion is Associated with Renal Impairment in Children with Cardiovascular Disease” AHA Meeting 2015

42. Silva, JC; Kyle, UG; Treviño, M; Lusk, JL; Dardon, G; Goldsworthy, M; **Akcan-Arikan A**; Orellana, RA; Shekerdemian, LS; Coss-Bu, JA. “Nutrition Support Guidelines in Critically Ill Children with Acute Kidney Injury. “ ESPEN 2015 Lisbon, Portugal.
43. Gazzaneo, MC; **Akcan-Arikan A**; Papadias-Feria, O; Ebenbichler, MS; Melicoff-Portillo, E; Kim, S; Crews, N; Mallory, GB. Chronic Kidney Disease after Lung Transplantation: Incidence and Risk Factors in Pediatric Population: Retrospective Review. Denver, Colorado. May 15-20, 2015
44. Lion, R; Srivaths, P; Swartz, S; Allstead, A; Braun, M; **Akcan-Arikan A**. “The Safety and Efficacy of Regional Citrate Anticoagulation in Albumin Assisted Dialysis for Extracorporeal Liver Support in Pediatric Patients.” 2015 PAS Annual Meeting in San Diego, CA, April 25 – 28, 2015.
45. Silva, JC; Treviño, M; Dardon, G; Lusk, JL; Kyle, UG; Goldsworthy, M; **Akcan-Arikan A**, Renan Orellana, Lara S. Shekerdemian, Jorge Coss-Bu.” Implementation of Nutrition Support Guidelines in Critically Ill Children with AKI”. 2015 PAS Annual Meeting in San Diego, CA, April 25 – 28, 2015
46. Gazzaneo, MC; **Akcan-Arikan A**; Papadias, O; Abelt, R; Melicoff-Portillo, E; Shelly, K; Crews, N; Mallory, G. Incidence and Outcomes of Acute Kidney Injury Following Lung Transplantation in Pediatric Population: Retrospective Review. 2015 ISHLT Conference. Nice, France. April 15-18, 2015
47. **Akcan-Arikan A**; Srivaths, P; Allstead, A; Swartz, S; Vega, M; Sarasak, G; Juarez, M; Lee, J; Riley, A; Currier, H. “Establishing a Multifaceted Interprofessional Quality Improvement (QI) Initiative in Pediatric Critical Care Nephrology - Taking QI to the Bedside.” ISN World Congress of Nephrology 2015. Cape Town, South Africa. March 13-17, 2015.
48. **Akcan-Arikan A**; Loftis, LL; Arnold, MA; Kennedy, CE. “Impact of Kidney Injury on Fluid Overload and Impaired Oxygenation” International Society of Intensive Care and Emergency Medicine ISICEM Annual Meeting 2015, Brussels, Belgium.
49. Barton, AL; Sinclair, EA; Lee, JY; Srivaths, P; **Akcan-Arikan A**. “Vancomycin Clearance in an Infant Receiving Extracorporeal Liver Support and Continuous Renal Replacement Therapy”. The 20<sup>th</sup> International Conference on Advances in Critical Care Nephrology: CRRT and AKI Annual Meeting. February 2015, San Diego, CA.
50. Vega, MRW; Juarez, M; Riley, A; Srivaths, PR; Currier, H; **Akcan-Arikan A**. “Optimizing Nutrition Prescription in Pediatric Patients Receiving Continuous Renal Replacement Therapy – A Quality Improvement Project”- 35th Annual Dialysis Conference. New Orleans, Louisiana, January 31-February 3, 2015.
51. Kennedy, CE; Williams, EA; **Akcan-Arikan A**. “Innovative Engineering of Clinical Decision Support in a Pediatric Intensive Care Unit” Society of Critical Care Medicine, Phoenix, AZ January 17-21, 2015.
52. Thompson, KP; Arrington, AS; **Akcan-Arikan A**; Himes, R; Lam, FW; Nguyen, TC; Kearney, D; Desai, MS. “Histopathologic Analysis of Autopsy Findings of Children with End Stage Liver Disease Awaiting Transplantation”. Society of Critical Care Medicine, Phoenix, AZ January 17-21, 2015.

Oral Presentations (last 3 years)

1. Imani P, Pekkucuksen N, Brewer E, Srivaths P, **Akcan-Arikan A** Vitamin D insufficiency and bone findings in pediatric patients with severe acute kidney injury on prolonged continuous renal replacement therapy Annual Dialysis Conference, March 2019, Dallas, TX
2. Molly Wong Vega, Marisa Juarez Calderon, Neziha Celebi, Poyyapakkam Srivaths, **Ayşe Akcan Arikan**. Higher Normalized Protein Catabolic Rate Is Associated with Mortality in Pediatric Patients Receiving CRRT Annual Dialysis Conference, March 2019, Dallas, TX
3. Tufan-Pekkucuksen N, Nguyen TC, Sigler KE, **Akcan-Arikan A**, Srivaths P. Platelet recovery and decrease in D-dimer is associated with survival in children with thrombocytopenia associated multiple organ failure receiving therapeutic plasma exchange. Oral presentation , American Society of Apheresis Annual Meeting, Chicago, IL, April 2018
4. TA Mottes MSN CPNP-AC, JR Angelo MD, SM Swartz MD, P Srivaths MD, H Currier MSN, **A. Akcan-Arikan, MD**. Optimizing Physical Therapy in Pediatric Patients on Prolonged Continuous Renal Replacement Therapy. 23<sup>rd</sup> International AKI & CRRT Meeting, March 2018, San Diego, CA
5. Molly Vega, N Pekkucuksen, P Srivaths, **A. Akcan-Arikan**. Traditional Nutritional Biomarkers in Pediatric Continuous Renal Replacement Therapy. 23<sup>rd</sup> International AKI & CRRT Meeting, March 2018, San Diego, CA
6. Jessica Geer, Charles Morrison, Cassidy Thomas, Sarah Swartz, **Ayşe Akcan-Arikan**, Poyyapakkam Srivaths. Ultrafiltration Rate >13 ml/kg/hr is Associated with Decrease in Central Venous Oxygen Saturation Levels in Pediatric Hemodialysis Patients. Annual Dialysis Conference, March 2018, Orlando, FL
7. Kent, M, Loftis L, McPherson M, Graf J, **Akcan-Arikan A**. “Functional Outcome of Pediatric Continuous Renal Replacement Therapy Survivors”. 22<sup>nd</sup> International AKI & CRRT Meeting, March 2017, San Diego, CA
8. Imani P, **Akcan-Arikan A**, Brewer E, Angelo J, Srivaths P. “Masked Hypercalcemia and Bone Fractures with Prolonged CRRT”. 22<sup>nd</sup> International AKI & CRRT Meeting, March 2017, San Diego, CA
9. Geer, JJ; Oh, J; Williams, K; Swartz, S; **Akcan-Arikan A**; Srivaths, P. “Utilizing Central Venous Oxygen Saturation to Monitor Hemodynamic Changes in Pediatric Hemodialysis Patients”. 36<sup>th</sup> Annual Dialysis Conference 2016, Seattle, WA.
10. Tal, L; Srivaths, P; Teruya, J; Jamieson; Swartz, SM; Allsteadt, AG; Currier, H; **Akcan-Arikan A**. “Blood Product Administration is Not Associated with Unscheduled Filter Change in Pediatric Continuous Renal Replacement Therapy”. Oral Presentation. The 20<sup>th</sup> International Conference on Advances in Critical Care Nephrology: CRRT and AKI Annual Meeting. February 2015, San Diego, CA.
11. Geer, J; Shah, S; Srivaths, P; Williams, EA; **Akcan-Arikan, A**. “Rate of Fluid Removal During Hemodialysis Impairs Cardiac Index in Pediatric Patients with End Stage Renal Disease,” –



**Oral Presentation** 35th Annual Dialysis Conference, New Orleans, Louisiana, January 31-February 3, 2015.

12. Kennedy, C.; **Akcan-Arikan, A**; Williams, E. “Big Data, Open Source Tools, and Clinical Decision Support in a Pediatric ICU.” Society of Critical Care Medicine, Phoenix, AZ January 17-21, 2015.

4. Books

- a. Complete Books Written: N/A
- b. Books Edited: N/A
- c. Book Chapters Written

**Akcan-Arikan, A.** (2007) Septic Shock. In Prof Dr Yucel Tastan (Ed), *Pediatric Emergencies* (pp 25-34). Istanbul, Turkey: Nobel

Kyle, UG; **Akcan-Arikan, A**; Orellana, RA; Coss-Bu, JA. Diet and Nutrition in Critical Care: The Adequacy of Nutrition Support in Critically Ill Children with Acute Kidney Injury. Editor: Victor Preedy, Kings College London. Editorial Springer, London, UK

Desai, M; Lion, R, **Akcan-Arikan, A.** Current Concepts in Pediatric Critical Care: Management of Critical Liver Failure. Editor: David Turner, Duke University, NC. Society of Critical Care Medicine

**Akcan-Arikan A,** Devarajan P. Acute Kidney Injury. In 23<sup>rd</sup> edition Rudolph’s Pediatrics. Editor-in-chief: Mark Kline

**Ayse Akcan Arikan,** Sarah J. Swartz, Poyyapakkam R. Srivaths, Infections in Pediatric Patients with End Stage Renal Disease. In Healthcare Associated Infections in Children. Editors McNeil, Campbell, Cruz. Chapter 18:

Joseph Angelo, **Ayse Akcan Arikan.** Acute Kidney Injury and Renal Replacement Therapy in Immunocompromised Children. In Critical Care of the Immunocompromised Pediatric Hematology/Oncology Patient. Editors Talano, Duncan, McArthur.

Neziha Celebi, **Ayse Akcan Arikan.** Acute Kidney Injury Definitions, Epidemiology, and Management. In Critical Care Nephrology. Editors Raina, Sethi, McCulloh, Bunchman.

Leyat Tal, Manpreet Virk, **Ayse Akcan Arikan.** Fluid Overload, Assessment and Management. In Critical Care Nephrology. Editors Raina, Sethi, McCulloh, Bunchman.

Bogdana Sabina Zoica, **Ayse Akcan-Arikan,** Akash Deep. Continuous Renal Replacement Therapy in Liver Failure and Other Liver Assist Devices. In Critical Care Nephrology and Renal Replacement Therapy in Children. Springer. Editors Deep A, Goldstein SL.

Desai M, **Akcan-Arikan, A.** Acute Kidney Injury and Continuous Renal Replacement Therapy in Liver Failure. In Critical Care Nephrology. Editors Raina, Sethi, McCulloh, Bunchman.

5. Other Works Communicating Research Results to Scientific Colleagues:

**Akcan-Arikan A,** Gentamicin May Not Increase Risk of AKI In Kids With Sepsis. Clinical News, Emergency Medicine Today, Medscape. American College of Emergency Medicine Physicians. Medscape. Jan 15, 2014

6. Other Works Communicating Research Results to General Public: N/A

**D. Innovation and Commercialization: N/A**

**III. TEACHING INFORMATION**

**A. Educational Leadership Roles**

2016- Present Renal Fellow Bootcamp- Continuous Renal Replacement Therapy

2013 - Present: Core Physiology - Normal Renal Physiology, Acid-Base Physiology  
Acute Renal Failure, Pediatric Critical Care Medicine

Lead for Renal Module, coordinates and supervises academic lectures and case discussions

2013 - Present: CRRT Basics, Pediatric Nephrology/Renal Services

Lead for CRRT Basics, coordinates and supervises academic lectures and case discussions

**B. Didactic Coursework**

1. Courses Taught at BCM within the Primary Department

2016 - Present: Renal Fellow Physiology Lecture Series– Acute kidney injury, hepatorenal syndrome. Texas Children’s Hospital, Houston, Texas. 2016-present

2013 - Present: Basics of Renal Replacement Therapy APP Educational Session

2013 - Present: Advanced Extracorporeal Liver Support Training for the Nephrologist. Houston, TX

2013 - Present: Core Physiology – Renal Module. Texas Children’s Hospital, Houston, TX

2012 - Present CRRT 101 for the Intensivist: Hands-on workshop. CCM Section Fellows.  
Houston, TX

May 2014 Extracorporeal Liver Support training. Audience: TCH RNs. Texas Children’s  
Hospital, Houston, Texas.

April 2014: Extracorporeal Liver Support Lecture Series for ICU RNs (3 lectures).  
Audience: ICU RN’s. Texas Children’s Hospital, Houston, Texas.

September, 2013: AKI in PICU: A Quality Improvement Initiative to Improve Recognition and  
Management in the ICU. CCM Section Noon Conference. Houston, Texas.

2. Courses Taught at BCM External to the Primary Department

2017 Renal Emergencies. Resident Noon Conference

2014, 2016 Neonatal AKI. Audience: Section of Neonatology.

2013, 2015 Fluid and Electrolytes. Resident Noon Conference.

2013-Present - Advanced ELS Training for the Nephrologist

2013-Present - Extracorporeal Liver Support Training for Dialysis RNs.

April 2013 - CRRT Workshop

3. Courses Taught at Other Institutions While at BCM: N/A

### **C. Curriculum Development Work**

Course(s)/Curricula Contribution: CRRT Handbook: A Guideline & Reference Resource

Role in Development: Contributor and Supervisor

Audience: Pediatric Nephrology Fellows & Renal Dialysis Nurses

Institution: Baylor College of Medicine/Texas Children's Hospital

Course(s)/Curricula Contribution: BCM Pediatric CCM Advance Practice Provider Handbook, 2014 First Edition

Role in Development: Contributor & Supervisor

Audience: Critical Care Medicine Advance Practice Provider

Institution: Baylor College of Medicine/Texas Children's Hospital

### **D. Non-didactic Teaching While at BCM**

1. Resident Training

August 2012 - Present

PICU Attending. This includes 8 weeks a year, in addition, in-house night call every 19<sup>th</sup> night and every 8<sup>th</sup> weekend. Time spent on average is 50 hours a week of direct resident contact, 400 hours a year, when on service and an average of 10 hours per night call, 190 hours a year.

August 2012 - Present

PCU Attending. This includes 5 weeks a year, in addition, in-house night call every 19<sup>th</sup> night and every 8<sup>th</sup> weekend. Time spent on average is 40-50 hours a week of direct resident contact, 200-250 hours a year, when on service and an average of 16 hours per weekend.

August 2012 - Present

Renal Attending. This includes 6 weeks a year. Time spent on average 50 hours per week of direct resident contact, 300 hours a year.

2. Clinical Fellow Training

Clinical Fellows - Pediatric Critical Care Medicine, Baylor College of Medicine, Houston, TX

Chetna Pande, MD (7/2018-present) Current Fellow

Amir Navaei, M.D. (7/2015-Present) Instructor, Blood Bank Fellow

Sonia Labarinas, M.D. (7/2015-Present) Past Fellow

Emily Krennerich, M.D. (2014-2017) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care  
Baylor College of Medicine – Texas Children’s Hospital*

Andrea Ontaneda, M.D. (2014-2017) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care  
Baylor College of Medicine – Texas Children’s Hospital*

Dalia Bashir, M.D. (2014-2017) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care  
Baylor College of Medicine – Texas Children’s Hospital*

Nirica Borges, M.D. (2014-2017) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care  
Baylor College of Medicine – Texas Children’s Hospital*

Rocky Tsang, M.D. (2014-2016) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care & Cardiology  
Baylor College of Medicine – Texas Children’s Hospital*

Corey Chartan, D.O. (2013-2016) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care & Pulmonary  
Hypertension  
Baylor College of Medicine – Texas Children’s Hospital*

Richard Lion, D.O. (2013-2016) Past Fellow  
*Current Position: CVICU Clinical Instructor  
Baylor College of Medicine - Texas Children’s Hospital*

Zahraa Al-Lawati, M.D. (2013-2016) Past Fellow  
*Current Position: Assistant Professor of Pediatrics - Children’s Hospital of Michigan*

Raeley Guess, D.O. (2013-2016) Past Fellow  
*Current Position: Attending Physician  
Medical Center, Dallas, TX*

Ryan D. Coleman, M.D. (2012-2016) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Critical Care & Pulmonary  
Hypertension  
Baylor College of Medicine – Texas Children’s Hospital*

Daniel Gebhard, M.D. (2012-2014) Past Fellow  
*Current Position: Attending Physician, Pediatric Critical Care  
University of Texas Health Science Center in San Antonio, TX*

Tessy Thomas, D.O. (2012-6/2014) Past Fellow  
*Current Position: Assistant Professor of Pediatrics  
Baylor College of Medicine – Texas Children’s Hospital*

Jordana Goldman, M.D. (7/2012-6/2014) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*

*Baylor College of Medicine – Texas Children’s Hospital*

Natasha S. Afonso, M.D. (2012-6/2014) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine – Texas Children’s Hospital*

Harish Bangalore M.D. (2012-6/2014) Past Fellow  
*Current Position: Pediatric Consultant, Intensive Care Services*  
*Great Ormond Hospital, London UK*

Jennifer Lee, M.D. (2012-Present) Past Fellow  
*Current Position: Assistant Professor of Pediatrics, Pediatric Neurology & CCM*  
*Baylor College of Medicine – Texas Children’s Hospital*

Amy Arrington, M.D. (2012-6/2013) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine – Texas Children’s Hospital*

Clinical Fellows - Pediatric Nephrology, Baylor College of Medicine, Houston, TX

Alexandra Idrovo, M.D. (2017-Present) Current Fellow

Yonique P. Petgrave, M.D. (2017-Present) Current Fellow

Neziha Celebi, M.D. (2015-2018) Past Fellow  
*Current Position: Instructor in Pediatric Nephrology*  
*University of Maryland*

Peace Imani, M.D. (2014-2017) Past Fellow  
*Current Position: Pediatric Resident (Reverse Training)*  
*Baylor College of Medicine – Texas Children’s Hospital*

Joseph Maliakkal, M.D. (2014-2017) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Saint Louis University, SSM Cardinal Glennon Children’s Hospital St. Louis, MO*

Xiaoyan Wu, M.D. (2014-Present) Past Fellow  
*Current Position: Clinical Associate Professor*  
*University of Buffalo, Jacobs School of Medicine, Buffalo, NY*

Leyat Tal, MD (2012-6/2016) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine - Texas Children’s Hospital*

Adnan Safdar, MD (2012-6/2015) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine - Texas Children’s Hospital West Campus*

Shweta Shah, MD (2012-6/2015) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine - Texas Children’s Hospital West Campus*

Alvaro H. Orjuela, MD (2012-6/2014) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine – Texas Children’s Hospital*

Rachana Srivastava, MBBS (2012-6/2013) Past Fellow  
*Current Position: Assistant Professor of Pediatrics*  
*Baylor College of Medicine – Children’s Hospital of San Antonio*

3. Research Fellow Training (as above)
  - Alexandra Idrovo, MD (2017-Present)
  - Sameer Thadani, MD (2018-Present)
  - Yonique Petgrave, MD (2018-Present)
  - Erika Bernardo, MD (2016-Present)
  - Neziha Celebi, MD (2015-2018)
  - Mallory Kent, MD (2015-Present)
  - Joseph Alge, MD, PhD, (2015-present)
  - Richard Lion, D.O. (2012-2016)
  - Zahraa Al-Lawati, M.D. (2012-2016)
  - Leyat Tal, MD (2012-2016)
  - Daniel Gebhard, M.D. (2012–2014)
4. Graduate Student Training: N/A
5. Medical Student Mentoring
  - Keila de la Garza, BCM, 2012-2014
  - Role: Advisor/Mentor
6. Research Mentoring, Allied Health
  - Molly Vega, Registered Renal Dietitian, TCH
  - Ji Lee, Clinical Pharmacist, TCH
  - Jessica Geer, Dialysis Nurse Practitioner, TCH
  - Amellia Allstead, RN, Nurse Manager, TCH
  - Maria Happe, RN, Senior Project Manager, TCH
  - Gideon Stitt, Clinical Pharmacist, TCH
  - Theresa Mottes, Nurse Practitioner, TCH

**E. Faculty Development or Continuing Medical Education: N/A**

**F. Lectures and Presentations**

1. International: N/A
2. National:
  - AKI/CRRT: The Basics. 2018 Annual Dialysis Conference, Orlando, FL. March 3-6, 2018
  - MARS. 2018 Annual Dialysis Conference, Orlando, FL. March 3-6, 2018
3. Regional: N/A
4. Local
  - January 2019 Hepatorenal Syndrome. TCH Hepatology Section, Continuing Medical Education series

January 2018 Functional Outcomes of CRRT Survivors - CCM Research Conference. Texas Children's Hospital, Houston, Texas

May 2013 Shock Protocol and Acute Kidney Injury. CCM Section Research Conference. Texas Children's Hospital Houston, Texas.

June 2017 Neonatal renal replacement therapy. Section of Neonatology

May 2017 Hepatorenal syndrome. Renal Section,

March 2017 Acute Kidney Injury. Renal Section

Extracorporeal Liver Support. Section of Gastroenterology and Hepatology

May 23<sup>rd</sup>, 24<sup>th</sup> & 28<sup>th</sup> 2014 Extracorporeal Liver support for ICU RNs, series 3 lectures

May 1, 2014 Extracorporeal Liver support training.

Core Physiology - Normal Renal Physiology, Acid-Base Physiology, Acute Renal Failure

Continuous Renal Replacement Therapy Wetlab

Jan 15, 2014. Continuous Renal Replacement Therapy: Prescription and Pitfalls

2014 FOKIS - Fluid Overload and Kidney Injury Score: A Renal Specific Severity of Illness Measure. PCCM Monthly CME Research Conference. Texas Children's Hospital Houston, Texas

2014 Hepatorenal Syndrome. Pediatrics - CCM Noon Conference. Texas Children's Hospital, Houston, Texas.

2013-2015 Basics of Renal replacement therapy APP Educational Session

December 2013 Artificial Extracorporeal Liver Support and TCH Program. CCM Section Noon Conference. Houston, Texas.

December 2013 Artificial extracorporeal Liver support and TCH Program. CCM Section Noon Conference. Houston, Texas

September, 2013. AQI to Improve Recognition and Management of AKI in the ICU, CCM Section Noon Conference. Houston, Texas.

CRRT 101 for the Intensivist: A Workshop. CCM Section Fellows. Baylor College of Medicine, Pediatrics – Critical Care Medicine. Houston, Texas.

2006-2008 Didactic Course in Pediatric Critical Care for Pediatric Residents

2006 Maltepe University Medical School, Department of Pediatrics Lectures on: Pediatric Airway and Respiratory Failure, Shock and Resuscitation, PALS update, Management of Increased Intracranial Pressure

#### **G. Visiting Professorships**

2006-2008 Maltepe University Medical School Department of Pediatrics, Istanbul, Turkey

### **IV. PATIENT CARE AND CLINICAL CONTRIBUTIONS**

#### **A. Patient Care Responsibilities**

1. Department-wide: N/A
2. Section or Specialty: Joint Appointment, Department of Pediatrics, Texas Children's Hospital  
 Pediatric Critical Care Medicine - .70 FTE  
 Pediatric Nephrology/Renal Services - .30 FTE
3. Clinical Service
  - PICU Attending, 7 days a week, 10 weeks a year
  - PCU Attending, 7 days a week, 6 weeks a year
  - ECMO Attending, 7 days a week, 3 weeks a year

Kangaroo Crew Medical Control Team, 7 days a week, 2 weeks a year  
PICU call, every 10<sup>th</sup> night and every 3<sup>rd</sup> weekend  
PCU call, every 15<sup>th</sup> night  
Renal Attending, 7 days a week, 6 weeks a year  
Renal Chronic Dialysis Unit Attending, 5 days a week, 3 weeks a year  
Pheresis Service Attending, 7 days a week, 3 weeks a year

**B. Clinical Leadership or Business Development:**

Developed and implemented the Extracorporeal Liver Support program at Texas Children's Hospital, inauguration April 2014

**C. Voluntary Health Organization Participation: N/A**

**D. Contributions, Initiatives or Recognition Related to Patient Safety and Healthcare Quality**

2017-Present: Acute Renal G2G Device Integration to EPIC Working Group  
2014-Present Renal Extracorporeal Therapies Quality Committee, Chair  
2013-Present Extracorporeal Liver Support Committee, Committee Chair

**E. Contributions to Health and Science Policy: N/A**

**V. SERVICE CONTRIBUTIONS**

**A. Administrative Assignments and Committees**

1. Department or Center Administration, Committees, etc.
  - 2016-present Carefirst Biomed and Renal Committee
  - 2014-present Extracorporeal Liver Support Committee, Chair
  - 2014-present Renal Extracorporeal Therapies Quality Committee, chair
  - 2012 present Renal Dialysis Quality Assurance and Performance Improvement,
  - 2012-present Renal Transplant Quality Assurance and Performance Improvement
  - 2012-present Renal Transplant Medical Review Board, member
  - 2012-2014 TCH Pharmacy and Therapeutics Committee
  - 2015-2016 Carefirst Pharmacy Committee
2. Institution-wide or School Administration, Committees, etc.: N/A

**B. National, Regional or Local Participation in Professional or Voluntary Organizations:**

Acute Dialysis Consultant, Acute Dialysis Advisory Board  
Baxter Healthcare Inc. 2015-2017

**C. Other Pertinent Information (not given above, including community service)**

2013-Present ESICM AKI Committee Member  
2013-Present ESPNIC CRRT Committee Member