

Curriculum Vitae

1) PERSONAL INFORMATION

- Keia Sanderson, MD, MSCR
- 7024 Burnett-Womack Bldg, Campus Box#7155, Chapel Hill, NC 27599
- 919-445-6119
- keia_sanderson@med.unc.edu

2) EDUCATION

- 2019 MSCR, University of North Carolina, Chapel Hill NC
- 2015 Fellowship, Pediatric Nephrology, Children's Mercy Hospital, Kansas City MO
- 2012 Residency, General Pediatrics, University of South Carolina, Columbia SC
- 2009 MD, Medicine, University of Missouri-Columbia, Columbia MO
- 2005 BA, Kinesiology, Rice University, Houston TX

3) PROFESSIONAL EXPERIENCE - EMPLOYMENT HISTORY

- 2024 – present Associate Professor of Medicine and Pediatrics, University of North Carolina, Chapel Hill, NC
- 2016 – present Medical Director, Pediatric Dialysis, University of North Carolina, Chapel Hill NC
- 2015 – 2024 Assistant Professor of Medicine and Pediatrics, University of North Carolina, Chapel Hill NC

4) HONORS

- 2024 Society for Pediatric Research Mid-Career Leadership Program Awardee
- 2023 American Society of Pediatric Nephrology Leadership Development Awardee
- 2022 Inducted Member, Society of Pediatric Research
- 2022 Leadership Development Program Scholar, American Society of Pediatric Nephrology
- 2021 UNC Academic Career Leadership Academy in Medicine (ACCLAIM) Program Award
- 2019 Carolina Caregivers Award, Doris Duke Charitable Foundation
- 2019 AAMC Early Career Women Faculty Leadership Development Award
- 2019 Junior Faculty Research Grant Writing Award, Society of Pediatric Research
- 2018 UNC Junior Faculty Development Award
- 2016 NC Children's Promise Grant, University of North Carolina
- 2012 Resident Travel Award, American Society of Pediatric Nephrology
- 2011 General Pediatrics Resident Teaching Award, University of South Carolina
- 2009 Leadership Award, Student National Medical Association
- 2005 Joyce Pounds Hardy Female Student-Athlete of the Year, Rice University

5) BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

Published Refereed Papers/Articles-Original Research

1. **Sanderson K**, Oran A, Singh R, Gogcu S, Perrin EM, Washburn L, Zhabotynsky V, South AM, Jensen ET, Fry RC, O'Shea TM. The intergenerational metabolic-cardiovascular life course: maternal body mass index (BMI), offspring BMI, and blood pressure of adolescents born extremely preterm. *Pediatr Nephrol*. 2024 Sep 24. doi: 10.1007/s00467-024-06523-1. Epub ahead of print. PMID: 39316152.
2. Emmanuel C, Oran A, Jensen ET, Fichorova RN, Gower WA, Perrin EM, **Sanderson K**, South AM, Gogcu S, Shenberger J, Singh R, Makker K, Thompson AL, Santos H, Fry RC, O'Shea TM; ELGAN-ECHO Study

Investigators. Neonatal inflammation and its association with asthma and obesity in late childhood among individuals born extremely preterm. *Pediatr Res*. 2024 Jun 24. doi: 10.1038/s41390-024-03325-x. PMID: 38914762.

3. O'Shea TM, Jensen ET, Yi JX, Lester B, Aschner JL, Stroustrup A, Zhang X, McGrath M, **Sanderson K**, Joseph RM, Singh R, Thompson AL, Hofheimer J, Vohr B, McGowan E, Santos H, Fry RC; of program collaborators for Environmental influences on Child Health Outcomes. Association of Growth During Infancy With Neurodevelopment and Obesity in Children Born Very Preterm: The Environmental influences on Child Health Outcomes Cohort. *J Pediatr*. 2024 Apr 17:114050. doi: 10.1016/j.jpeds.2024.114050. PMID: 38641165.
4. **Sanderson K**, Griffin R, Anderson N, South AM, Swanson JR, Zappitelli M, Steflik HJ, DeFreitas MJ, Charlton J, Askenazi D; Neonatal Kidney Collaborative (NKC) Research Committee. Perinatal risk factors associated with acute kidney injury severity and duration among infants born extremely preterm. *Pediatr Res*. 2024 Mar 4. doi: 10.1038/s41390-024-03102-w. PMID: 38438550.
5. Lupo R, Chang E, Bjornstad EC, O'Shea TM, **Sanderson KR**. Adolescent Kidney Outcomes after Extremely Preterm Birth and Neonatal Acute Kidney Injury: There May be More to the Story. *Am J Perinatol*. 2024 Jan 9. doi: 10.1055/s-0043-1778038. PMID: 38195965.
6. Xiao N, Starr M, Stolfi A, Hamdani G, Hashmat S, Kiessling SG, Sethna C, Kallash M, Matloff R, Woroniecki R, **Sanderson K**, Yamaguchi I, Cha SD, Semanik MG, Chanchlani R, Flynn JT, Mitsnefes M. Blood Pressure Outcomes in NICU-Admitted Infants with Neonatal Hypertension: A Pediatric Nephrology Research Consortium Study. *J Pediatr*. 2024 Jan; 264:113765. doi: 10.1016/j.jpeds.2023.113765. Epub 2023 Sep 29. PMID: 37778410.
7. O'Shea TM, Register HM, Yi JX, Jensen ET, Joseph RM, Kuban KCK, Frazier JA, Washburn L, Belfort M, South AM, Santos HP Jr, Shenberger J, Perrin EM, Thompson AL, Singh R, Rollins J, Gogcu S, **Sanderson K**, Wood C, Fry RC; ELGAN-ECHO Pulmonary/Obesity Group. Growth During Infancy After Extremely Preterm Birth: Associations with Later Neurodevelopmental and Health Outcomes. *J Pediatr*. 2023 Jan; 252:40-47.e5. doi: 10.1016/j.jpeds.2022.08.015. PMID: 35987367.
8. Garg PM, Paschal JL, Zhang M, Pippins M, Taylor C, **Sanderson K**, Reddy K, Askenazi D, Padbury JF, Hillegass WB. Clinical impact of severe acute kidney injury on post-operative and brain injury outcomes in preterm infants following surgical necrotizing enterocolitis. *J Matern Fetal Neonatal Med*. 2022 Dec;35(25):10124-10136. doi: 10.1080/14767058.2022.2121917. PMID: 36093832.
9. **Sanderson K**, Shih W, Warady BA, Claes DJ. Severe Fetal CAKUT (Congenital Anomalies of the Kidneys and Urinary Tract), Prenatal Consultations, and Initiation of Neonatal Dialysis. *Am J Perinatol*. 2022 May 12. doi: 10.1055/a-1850-4429. PMID: 35554891.
10. Ames EG, Powell C, Engen RM, Weaver DJ Jr, Mansuri A, Rheault MN, **Sanderson K**, Lichter-Konecki U, Daga A, Burrage LC, Ahmad A, Wenderfer SE, Luckritz KE. Multisite Retrospective Review of Outcomes in Renal Replacement Therapy for Neonates with Inborn Errors of Metabolism. *J Pediatr*. 2022 Jul; 246:116-122.e1. doi: 10.1016/j.jpeds.2022.03.043. Epub 2022 Mar 28. PMID: 35358588; PMCID: PMC9233075.
11. Defreitas MJ, Griffin R, **Sanderson K**, Nada A, Charlton JR, Jetton J, Kent A, Guillet R, Askenazi D, Abitbol C. Maternal Hypertension Disorders and Neonatal Acute Kidney Injury: Results from the AWAKEN Study. *Am J Perinatol*. 2022 Feb 23. doi: 10.1055/a-1780-2249. PMID: 35196719.
12. **Sanderson KR**, Warady B, Carey W, Tolia V, Boynton MH, Benjamin DK, Jackson W, Laughon M, Clark RH, Greenberg RG. Mortality Risk Factors among Infants Receiving Dialysis in the Neonatal Intensive Care Unit. *J Pediatr*. 2021 Nov 16:S0022-3476(21)01097-0. doi: 10.1016/j.jpeds.2021.11.025. PMID: 34798078.
13. Muff-Luett M*, **Sanderson KR***, Engen RM, Zahr RS, Wenderfer SE, Tran CL, Sharma S, Cai Y, Ingraham S, Winnicki E, Weaver DJ, Hunley TE, Kiessling SG, Seamon M, Woroniecki R, Miyashita Y, Xiao N, Omoloja AA,

- Kizilbash SJ, Mansuri A, Kallash M, Yu Y, Sherman AK, Srivastava T, Nester CM. Eculizumab exposure in children and young adults: indications, practice patterns, and outcomes-a Pediatric Nephrology Research Consortium study. *Pediatr Nephrol*. 2021 Mar 10. doi: 10.1007/s00467-021-04965-5. PMID: 33693990.
14. Garg PM, Britt AB, Ansari MAY, Sobisek S, Block DK, Paschal JL, Ojeda NB, Askenazi D, **Sanderson KR**. Severe acute kidney injury in neonates with necrotizing enterocolitis: risk factors and outcomes. *Pediatr Res*. 2021 Sep;90(3):642-649. doi: 10.1038/s41390-020-01320-6. Epub 2021 Jan 14. PMID: 33446918; PMCID: PMC8277891.
 15. Salerno SN, Liao Y, Jackson W, Greenber RG, McKinzie CJ, McCallister A, Benjamin DK, Laughon MW, **Sanderson KR**, Clark RH, Gonzalez D. Association between Nephrotoxic Drug Combinations and Acute Kidney Injury in the Neonatal Intensive Care Unit. *J Pediatr*. 2020; S0022-3476(20)31021-0. PMID: 32818481; PMCID: PMC7752849.
 16. **Sanderson KR**, Chang E, Bjornstad E, Hogan SL, Hu Y, Askenazi DA, Fry RT, O'Shea TM. Albuminuria, Hypertension, and Reduced Kidney Volumes in Adolescents Born Extremely Premature. *Front Pediatr*. 2020 May; 8:230. PMID: 32528916; PMCID: PMC7247811.
 17. **Sanderson KR**, Yu Y, Dai H, Willig LK, Warady BA. Outcomes of infants receiving chronic peritoneal dialysis: an analysis of the USRDS registry. *Pediatr Nephrol*. 2019 Jan; 34(1):155-1162. PMID: 30141177; PMCID: 6529305.
 18. Kaspar CDW, **Sanderson KR**, Ozen S, Verghese PS, Lo M, Bunchman TE, Wenderfer SE, Kidd J. Pediatric Nephrology and Rheumatology Practice Patterns in Granulomatosis with Polyangiitis: A Midwest Pediatric Nephrology Consortium Study. *Int J Nephrol*. 2018: p. 8413096.PMID:30155302; PMCID:PMC6098870.

Published Refereed Papers/Articles-Other Peer-Reviewed Articles (Reviews)

1. Starr MC, Harer MW, Steflink HJ, Gorga S, Ambalavanan N, Beck TM, Chaudhry PM, Chmielewski JL, Defreitas MJ, Fuhrman DY, Hanna M, Joseph C, Kwiatkowski DM, Krawczeski CD, Liberio BM, Menon S, Mohamed TH, Rumpel JA, **Sanderson KR**, Schuh MP, Segar JL, Slagle CL, Soranno DE, Vuong KT, Charlton JR, Gist KM, Askenazi DJ, Selewski DT; Neonatal Kidney Health Consensus Workshop. Kidney Health Monitoring in Neonatal Intensive Care Unit Graduates: A Modified Delphi Consensus Statement. *JAMA Netw Open*. 2024 Sep 3;7(9):e2435043. doi:10.1001/jamanetworkopen.2024.35043. PMID: 39269711.
2. **Sanderson KR**, Wekon-Kemeni C, Charlton JR. From premature birth to premature kidney disease: does accelerated aging play a role? *Pediatr Nephrol*. 2023 Nov 10. doi: 10.1007/s00467-023-06208-1. PMID: 37947901.
3. Bousquet A, **Sanderson K**, O'Shea TM, Fry RC. Accelerated Aging and the Life Course of Individuals Born Preterm. *Children (Basel)*. 2023 Oct 13;10(10):1683. doi: 10.3390/children10101683. PMID: 37892346; PMCID: PMC10605448.
4. Austin CA, **Sanderson K**, Crona D, Kistler C. Pharmacogenetics: Using science to reduce racial bias in pain management? *J Am Geriatr Soc*. 2023 Dec;71(12):3973-3976. doi: 10.1111/jgs.18524. Epub 2023 Aug 2. PMID: 37529936.
5. **Sanderson K**, O'Shea TM, Kistler CE. An Individualized Approach to Kidney Disease Screening in Children With a History of Preterm Birth. *Clin Pediatr (Phila)*. 2022 Oct 21:99228221132126. doi: 10.1177/00099228221132126. PMID: 36271655.
6. Seo-Mayer P, Ashoor I, Hayde N, Laster M, **Sanderson K**, Soranno D, Wigfall D, Brown D. Seeking justice, equity, diversity and inclusion in pediatric nephrology. *Front Pediatr*. 2022 Dec 12;10:1084848. doi: 10.3389/fped.2022.1084848. PMID: 36578658; PMCID: PMC9791125.
7. Bjornstad EC, Seifert ME, **Sanderson K**, Feig DI. Kidney implications of SARS-CoV2 infection in children. *Pediatr Nephrol*. 2021 Aug 28:1–15. PMID: 34453600; PMCID: PMC8397606.

8. **Sanderson KR**, Harshman LA. Renal replacement therapies for infants and children in the ICU. *Curr Opin Pediatr.* 2020;32(3):360-366. PMID: 32332327; PMCID: PMC7310588.
9. **Sanderson KR**, Warady BA. End-stage kidney disease in infancy: an educational review. *Pediatr Nephrol.* 2020 Feb; 35(2):229-240. PMID 30465082; PMCID: PMC6529305.

Published Refereed Papers/Articles-Other Peer-Reviewed Articles (Editorials)

1. **Sanderson KR**, Menon S, Jetton JG. Sociodemographic Disparities in Pediatric Acute Kidney Injury-The Right Questions and the Right Definitions. *JAMA Netw Open.* 2024 Oct 1;7(10):e2440907. doi: 10.1001/jamanetworkopen.2024.40907. PMID: 39470643.
2. Henderson CD, **Sanderson KR**. Birth Weight Associated With Kidney Size in Middle-Aged Women. *Kidney Int Rep.* 2021 Oct 8;6(11):2740-2742. doi: 10.1016/j.ekir.2021.09.016. PMID: 34805626; PMCID: PMC8589718.
3. Bignall ONR 2nd, Harer MW, **Sanderson KR**, Starr MC. 2021. Commentary on "Trends and Racial Disparities for Acute Kidney Injury in Premature Infants: the US National Database". *Pediatr Nephrol.* 2021 Apr 8. doi: 10.1007/s00467-021-05062-3. PMID: 33829326.

Published Refereed Papers (Abstracts)

1. **Sanderson KR**, Webb T, Pottanat N, Starr M, Carter C, Hyatt D, Alhamoud I, Lande MB, Richardson K, Piburn K, Kim H, Crawford B, Ciccio E, Villegas L, Nelson-Taylor S, Hu Y, Muff-Luett M. Contemporary Infant and Neonatal Dialysis Study: Peritoneal Dialysis Outcomes. Oral abstract at Pediatric Academic Societies. [E-PAS2024].
2. Lee A, O'Shea TM, Oran A, Fry R, **Sanderson KR**. Growth Through Age 15 Years and Kidney Outcomes Among Adolescence Born Extremely Preterm. Poster at Pediatric Academic Societies. [E-PAS2024].
3. Gerber A, Roell KR, Huff K, O'Shea TM, Fry R, **Sanderson KR**. Association Between Epigenetic Age Acceleration at Extremely Preterm Birth and Systolic Blood Pressure in Adolescence. *J Am Soc Nephrol* 2023; 34:232. [PO-503].
4. Muff-Luett M, Webb T, Pottanat N, Starr M, Thevarajah T, Carter C, Hyatt D, Alhamoud I, Lande MB, Richardson K, Piburn K, Kim H, Crawford B, Ciccio E, Villegas L, Nelson-Taylor S, High R, **Sanderson, KR**. Contemporary Infant and Neonatal Dialysis Study: Practice Patterns and Outcomes. *J Am Soc Nephrol* 2023; 34:84. [OR-82].
5. **Sanderson KR**, Anderson N, Griffin R, South A, Swanson J, Zappitelli M, Steflik HJ, DeFreitas M, Charlton J, Askenazi D. Perinatal Risk Factors Associated with Severe Acute Kidney Injury Duration Among Extremely Low Gestational Age Newborns. Poster presented at Pediatric Academic Societies. [E-PAS2023].
6. **Sanderson KR**, Anderson N, Griffin R, South A, Swanson J, Zappitelli M, Steflik HJ, DeFreitas M, Charlton J, Askenazi D. Perinatal Risk Factors for Early and Late Severe Acute Kidney Injury Among Extremely Low Gestational Age Newborns. Poster presented at Pediatric Academic Societies. [E-PAS2023].
7. **Sanderson KR**, Zhabotynsky V, Singh R, Washburn L, Perrin EM, South A, Gogcu S, Jensen E, Fry E, O'Shea TM. Maternal Pre-Pregnancy Obesity and Offspring Adolescent Blood Pressures After Extremely Low Gestational Age Birth. Poster presented at Pediatric Academic Societies. [E-PAS2023].
8. Lupo R, Chang E, Bjornstad EC, O'Shea M, **Sanderson KR**. Kidney Outcomes Among Extremely Preterm Born Adolescents with Neonatal Acute Kidney Injury. *J Am Soc Nephrol* 2021; 32:600. [PO-1955]
9. **Sanderson KR**, Shih V, Warady BA, Claes DJ. Prenatal Nephrology Consultations and Neonatal Dialysis Survey. *J Am Soc Nephrol* 2021; 32:618. [PO-2014]

10. Thieroff G, Kiessling S, Yamaguchi I, Woroniecki R, **Sanderson KR**, Flynn J, Mitsnefes M, Starr M, Matloff R, Kallash M, Sethna C, Hashmat S, Cha S, Xaio N. Blood pressure outcomes in neonatal intensive care unit graduates with idiopathic hypertension. Poster presented at: Pediatric Academic Societies. [E-PAS2019].
11. Bagley KW, **Sanderson K**, Primack WA. Isolated intrarenal mucormycosis due to *Rhizopus* species in a pediatric renal transplant recipient. *J Am Soc Nephrol* 2018; 23:270. [TH-PO584]
12. Henderson CD, Hu Y, Hogan SL, Poulton CJ, **Sanderson K**, Mendoza CE, Kennedy KB, Gibson KL. The impact of birth weight in children with biopsy-confirmed nephrotic syndrome. *J Am Soc Nephrol* 2018; 23:714. [FR-PO1121]
13. **Sanderson KR**, Chang E, Bjornstad E, Primack W, O’Shea TM. Evaluating renal outcomes in adolescents born extremely premature of the ELGAN (Extremely Low Gestational Age Newborn) cohort. *J Am Soc Nephrol* 2018; 23:726. [FR-PO1164]
14. Kaspar C, **Sanderson KR**, Lo M, Bunchman T. Midwest Pediatric Nephrology Consortium: granulomatosis with polyangiitis practice patterns. Poster presented at: Pediatric Academic Societies Conference. [E-PAS2017].
15. **Sanderson KR**, Muff-Luett M, Srivastava T, Nester C. MWPNC eculizumab use in pediatric practice: dosing and renal outcomes. *J Am Soc Nephrol* 2016; 27:229A. [TH-PO594]
16. Ferris ME, Nazareth M, Wright Nunes JA, Javalkar K, Phillips A, Cohen SE, Cuttance J, van Tilburg MAI, Hooper SR, Gibson KL, Glenn DA, **Sanderson K**, Rak E. The relationship of kidney disease knowledge with self-management and healthcare transition readiness. *J Am Soc Nephrol* 2016; 27:236A. [TH-PO623]
17. Muff-Luett M, **Sanderson KR**, Srivastava T, Nester C. MWPNC eculizumab use in pediatric practice: outcomes and responses. Poster presented at: Pediatric Academic Society. [E-PAS2016]
18. **Sanderson KR**, Dai H, Willig L, Warady B. Outcomes of infants receiving chronic peritoneal dialysis. *J Am Soc Nephrol* 2015; 26:317A. (TH-PO962)

Published Books and Chapters

1. **Sanderson KR**, Zaritsky J, Warady B. “Peritoneal Dialysis in Children.” *Core Concepts in Dialysis and Continuous Therapies*. Ed Colm Magee, Kevin Tucker, Ajay Singh. Boston: Springer Science, 2016. 135-154. Print.
2. **Sanderson, KR**. “Urinary Tract Infections in Children.” *The Link*. July 2014: 3. Print.

Digital Scholarship

- The Kidney Chronicles: A Pediatric Nephrology Podcast, Neonatal Acute Kidney Injury, August 2022, (<https://open.spotify.com/episode/0yQvPFJyGhjDfquiDa4ZDq?si=SAJ4RBt0Ra6IS7iivGihA&nd=1>)
- Finding Genius Podcast, Pediatric Disease of the Kidney Gets Full Treatment with Researcher and Clinician Keia Sanderson, October 2023, (<https://www.findinggeniuspodcast.com/podcasts/pediatric-disease-of-the-kidney-gets-full-treatment-with-researcher-and-clinician-keia-sanderson/>)
- NephJC Twitter Journal Club Visual Abstract, April 2021, (<http://www.nephjc.com/news/roxa-va?rq=Keia%20Sanderson>)
- NephJC Journal Club, Advocate Trial, March 2021, (<http://www.nephjc.com/news/advocate?rq=Keia%20Sanderson>)
- NephJC Twitter Journal Club, March 2021, (<http://www.nephjc.com/news/ispd2021-va>)

6) TEACHING ACTIVITIES

Lectures (to Students)

2015 – 2023 Small Group Leader. Foundation Phase Semester 2, Medical Science Course 2: MTEC 102. Renal Block. University of North Carolina School of Medicine.

08/2019 – 2020 Lecturer, UNC Carolina First Look. A 1 hour interactive didactic session for under-represented

09/2018 minority medical students on the transition to clinical and residency
Lecturer, Foundational Phase: one-hour didactic session to UNC School of Medicine medical students prior to transition to clinical service.

Lectures (to Residents and Fellows)

2015 – present Lecturer, Pediatric Intensive Care Unit—Renal Series. Resident and fellow lectures for pediatric housestaff twice annually. UNC Department of Pediatrics. Lectures require 2 hours to coordinate, 8 hours to prepare for two 1-hour lectures
2015 – present Lecturer, Neonatal Intensive Care Unit—Renal Series. Resident and fellow lectures for pediatric housestaff twice annually. Lecture requires 2 hours to coordinate, 4 hours to prepare for a 1-hour lecture.

Lectures (to Fellows)

2015 – present Lecturer, Pediatric Nephrology Fellows Lectures. Lectures are presented as 1 hour didactic sessions. These require approximately 4 hours to prepare. I provide approximately 6-8 lectures of pediatric nephrology core curriculum annually.

Grand Rounds (within UNC)

03/2022 “Social Media for Career Advancement.” University of North Carolina Division of Nephrology Grand Rounds
08/2020 “Legacy of Kidney Disease.” University of North Carolina Division of Nephrology Grand Rounds
03/2018 “Citrate for Continuous Renal Replacement Therapies Anticoagulation.” University of North Carolina Division of Nephrology Grand Rounds
01/2017 “Prematurity to Chronic Kidney Disease.” University of North Carolina Department of Pediatrics
07/2016 “Pediatric Nephrology Pearls.” University of North Carolina Department of Family Medicine

Grand Rounds (outside UNC)

05/2020 “The Pathway from Preterm Birth to Chronic Kidney Disease.” University of Minnesota, Department of Pediatric Nephrology
08/2018 “The Pathway to Chronic Kidney Disease After Preterm Birth.” University of South Carolina, Department of Pediatrics
06/2018 “Chronic Kidney Disease in Children.” New Hanover Regional Medical Center, Department of Pediatrics

Continuing Education Lectures (within UNC)

08/2024 “Pediatric Kidney Health: The Origins of Health and Disease.” North Carolina Kidney Technology Incubator Meeting
08/2023 “Pediatric Kidney Health: The Origins of Health and Disease.” North Carolina Kidney Technology Incubator Meeting
03/2022 “Dental Disease in Pediatric Chronic Kidney Disease.” University of North Carolina Maternal Child Health Conference
03/2016 “Dental Disease in Pediatric Chronic Kidney Disease.” University of North Carolina Maternal Child Health Conference

Invited Lectures (outside UNC)

- 05/2024 “Contemporary Outcomes of Infants and Neonates Receiving Dialysis.” Pediatric Academic Societies Annual Meeting, Toronto, ON
- 07/2023 “Necrotizing Enterocolitis and the Impact on Kidney Health: A Path To Lifelong Kidney Disease.” National Necrotizing Enterocolitis Society Annual Meeting
- 02/2023 “Moving Toward Earlier Recognition of Kidney Disease—the Perinatal-Neonatal-Nephrology Continuum.” Vanderbilt Invited Professorship, Faculty Investigator Research in Medicine Series.
- 11/2022 “Social Determinants of Health and Pediatric Nephrology.” American Society of Pediatric Nephrology Symposium
- 11/2022 “Medical Conditions and Interventions that Impact Kidney Development: Pregnancy and Beyond.” American Society of Nephrology Kidney Week, Orlando FL
- 10/2022 “Neonatal Dialysis Outcomes.” Pediatrix® Medical Group
- 07/2022 Medicine Speaker, National Youth Leadership Forum
- 04/2022 “Social Determinants of Health: Real Barriers to Receiving Equitable Care.” Pediatric Academic Societies Annual Meeting, Denver CO
- 01/2022 “Pediatric Dialysis Initiative.” National Kidney Foundation of North Carolina
- 11/2021 “Social Media for Promoting Yourself in Academics.” South Regional Workshop, Network of Minority Health Research Investigators
- 10/2020 “Babies at Risk for Chronic Kidney Disease.” American Society of Nephrology Kidney Week, Denver CO
- 08/2019 “Chronic Kidney Disease in Children and Health Care Disparities.” North Carolina American Academy of Pediatrics Annual Meeting, Asheville NC

Clinical Activities

- 2015– present Attending physician, pediatric nephrology clinical service
- 2016 – present Medical Director, Pediatric Dialysis

Mentorship

- 2024 – present Rafella Faria, John Hopkins Resident, New Century Scholars Mentee
- 2023 – present Amalia Lee, UNC Neonatology Fellowship Scholarship Oversight Committee, Mentee
- 2023 – 2024 Vanessa Thiel, Nationwide Children’s Hospital Resident, New Century Scholars Mentee
- 2022 – present Anisha Gerber, UNC Pediatric Nephrology Fellow Scholarship Oversight Committee, Mentee
- 2022 – 2023 Mital Patel, Duke University Pediatric Nephrology Fellow Scholarship Oversight Committee
- 2022 – 2023 Yarity Astudillo, New York Medical College Pediatric Resident, New Century Scholars Mentee
- 2021 – 2023 Darren Schuman, UNC SOM Med Excel Pre-Med Mentee
- 2021 – present Antoinette Jones, Rochester University Neonatology Fellow Scholarship Oversight Committee
- 2020 – present Kristen Williams, UNC School of Medicine mentee
- 2020 – present Christel Wekon-Kemeni, UNC Pediatric Resident Mentee
- 2020 – 2023 Ryan Lupo, UNC SOM Medical Student Research Mentee
- 2020 – 2022 Christopher Zimmerman, UNC Neonatology Fellow Scholarship Oversight Committee, Mentee
- 2020 – 2021 Portia Nleya, UNC Department of Medicine Mentorship Program, Mentee
- 2018 – 2022 Kiri Bagley, UNC Pediatric Nephrology Fellowship Scholarship Oversight Committee, Mentee

7) GRANTS

Ongoing Research Support

1. National Institutes of Health K23 Career Development Award
NIDDK K23DK131289 Sanderson (PI) 07/01/2023-07/01/2026
\$150,000 (Direct)
Role: PI (75% effort)
2. National Institutes of Health Loan Repayment Program Award
NIDDK L40DK130155-03 Sanderson (PI) 07/01/2024-6/30/2025
Role: PI
3. Global Caffeine for Hypoxic Ischemic Encephalopathy Clinical Trial
Bill and Melinda Gates Foundation Bauserman (PI) 04/01/2024-06/01/2028
Global Network for Women's and Children's Health Research
Role: Co-I
4. Assessment of Worldwide Acute Kidney Injury Outcomes
Neonatal Kidney Collaborative Starr (PI) 05/01/2023-04/30/2026
Role: Co-I
5. Contemporary Infant and Neonatal Dialysis Registry
Pediatric Nephrology Research Consortium Muff-Luett,
University of Nebraska Sanderson (PIs) 06/01/2022-06/01/2025
Role: Co-PI
6. North Carolina Simmons Scholar Career Development Award
UNC-Chapel Hill Sanderson (PI) 11/01/2020-11/01/2024
\$40,000 (Direct)
Role: Scholar (20% effort)

Completed Research Support

1. National Institutes of Health Loan Repayment Program Award
NIDDK L40DK130155-02 Sanderson (PI) 07/01/2023-6/30/2024
Role: PI
2. National Institutes of Health Loan Repayment Program Award
NIDDK L40DK130155-01 Sanderson (PI) 07/01/2021-6/30/2023
Role: PI
3. North Carolina Translational & Clinical Sciences Institute (NC TraCS) KL2 Program
NIH/NCATS KL2TR002490 Weinberger(PI) 3/30/2018-06/01/2020
\$2,450,555 (Direct)
Role: KL2 Scholar (75% effort)
4. Carolina Caregivers Grant
DDCF Fund to Retain Clinical Scientists 2015213 Drake, Girdler(PIs) 6/01/2018-5/31/2019
\$10,000 (Direct)
Role: Clinical Scientist
7. University of North Carolina Junior Faculty Development Award
UNC-Chapel Hill Sanderson(PI) 1/01/2018-12/31/2018

To Discipline (Society of Pediatric Research)

- 2024 Society of Pediatric Research Outcomes, Epidemiology, and Health Services Research Group
- 2024 Society of Pediatric Research PROSPER Diversity Award Grant Reviewer
- 2023 – present Society of Pediatric Research Justice, Equity, Diversity, and Inclusion Task Force

To Discipline (Other)

- 2023 National Institutes of Health, NIDDK Study Section Grant Reviewer
- 2023-2024 UNC Division of Nephrology Journal Club Leader
- 2021 – present National Kidney Foundation Medical Advisory Board
- 2021 – 2022 Nephrology Social Media Collaborative

Within UNC-Chapel Hill

- 2021 – 2024 Committee Member, UNC Faculty Athletic Council
- 2021 – 2023 Mentor, Carolina MED EXCEL Program
- 2022 Mentor, Carolina Connections
- 2021 – 2022 Interviewer, UNC School of Medicine applicants
- 2021 Judge, UNC School of Medicine Research Day
- 2020 – 2023 Mentor, UNC Students in Training, Academia, Health and Research (STAHR)
- 2019 Grant reviewer, NC TraCS
- 2018 – 2023 Mentor, UNC Science Enrichment Preparation Program

External (to communities outside the traditional scholarly community)

- 2021 – present Volunteer, Durham We Are Ready For Life COVID-19 Physician Vaccine Volunteer
- 2022 Educator, The Links, Kidney Health Volunteer
- 2018 – 2020 Member, Health Advisory Committee, Immaculata Catholic School

9) Research Statement

My research is dedicated to reducing pediatric kidney disease morbidity and mortality with earlier recognition of, and introduction of interventions for chronic kidney disease (CKD). Many of my pediatric patients with a history of preterm birth or complex chronic medical histories receive a diagnosis of kidney disease when they present often at the point of requiring chronic dialysis. I want to have a positive impact on my patients and in the field of pediatric nephrology by understanding the best evidenced based approach to early pediatric CKD recognition in children. My research is also rooted in my own personal experience giving birth to a preterm infant who required prolonged neonatal intensive care unit hospitalization. I am motivated and passionate about this area of research for both my patients and my own child.

My long-term goal is to use machine learning techniques to develop risk prediction models and evidenced based clinical-decision support systems to most appropriately screen, identify, and risk stratify children with complex medical histories at increased risk for CKD. My track record supports my commitment to clinical research and continued progress toward becoming an independent clinical scientist. Supported by my KL2 award, over the past 3 years, I obtained my Masters of Science in Clinical Research (MSCR), published 3 first or last author manuscripts, and successfully obtained funding in the form of 3 additional research grants for my work in neonatal kidney outcomes and dialysis (Simmons Scholar, Doris Duke, and Junior Faculty Development Award). I now have a total of 24 peer reviewed publications with 14 original research manuscripts, including 10 first- or senior author peer

reviewed manuscripts, since beginning my clinician research career in 2018.

10) Teaching Statement

As a clinician-researcher and educator, I strive to strengthen the education regarding clinical research and pediatric nephrology to students, residents, and fellows. I am committed to introducing pediatric nephrology as a subspecialty to junior learners beginning in their first years of undergrad and medical school. This desire prompted my consistent involvement in undergraduate pre-medical school mentorship through STAHR and through the Faculty Athletic Council (to mentor undergraduate student athletes interested in health care related fields). Beyond this, educational opportunities are provided in didactic, case-based discussions, bedside teaching, and teaching at the microscope to incorporate the urinalysis and kidney histopathology in the instruction of many of our students and trainees. I offer opportunities for pediatric nephrology clinical shadowing where bedside teaching occurs. I also offer opportunities to collaborate with ongoing research projects such that students and trainees can walk through the process from a research question to regulatory application and approval, to data collection, analysis, and production of a manuscript. I strive to meet student and trainees where they are by providing feasible teaching within various classroom environments (i.e. bedside to lecture hall). The most impactful feedback I have received was from a student who shared that working with me gave them the confidence and direction needed to pursuit of a career in medicine.

I define my personal success in medicine not just by the number of publications or amount of research funding I receive but by the bridges that I build to support the academic success amongst students and trainees.

11) Diversity, Equity, and Inclusion Statement

I strongly believe that a community or workplace becomes a place of excellence when there are consistent efforts to promote diversity, equity, and inclusion (DEI). I am committed to work that promotes DEI in my teaching, clinical work, and research. I prioritize mentorship opportunities which specifically serve the university by promoting greater representation of under-represented minorities in health care related fields such as UNC STAHR and SEP programs. The UNC Students in Training, Academia, Health, and Research (STAHR) Program is a yearlong program to support clinical and research excellence in underrepresented minority students and trainees with once monthly 2-3-hour mentorship meetings. The Science Enrichment Preparation (SEP) Program is an 8-week program for first generation, underrepresented minority, rural, and/or socioeconomically disadvantaged undergraduates interested in a health care professions field. Students shadow me during my clinics and inpatient service. Over the last 3 years, I have mentored 5 students between both programs who are applying to medical school and 2 students who have matched to their first-choice residency programs. My role as a mentor is also of critical importance to me as underrepresented minority woman in medicine who was once inspired and mentored by other underrepresented minority women in medicine. To whom much is given, much is required. Nationally, I am the co-chair for the American Society of Pediatric Nephrology Equity, Diversity, and Inclusion Committee. I lead monthly meetings to lead efforts diversity, equity, and inclusion in recruitment of trainees, promotion of pediatric nephrologists, and education of the pediatric nephrology workforce. I have completed Bias 101 training and am committed to completing Safe Zone training and learning more about providing safe environments for patients, students, trainees, and faculty of all races, genders, and sexual orientations.

12) Service and Engagement Statement

The nation continues to experience a significant workforce shortage in pediatric nephrology. I have been engaged in teaching and service as a pediatric dialysis director at the community, state, and university level to support interests in pediatric nephrology and to improve resources for our pediatric nephrology patient population. In

addition, I am committed to supporting UNC mentorship programs to support the academic success of undergraduate, graduate, and medical students at UNC. At the national level, I have served in several leadership capacities within the largest national organization of pediatric nephrologists to promote recruitment and mentorship of students, residents, and fellowship trainees in pediatric nephrology.