

# COLLEGE OF MEDICINE CURRICULUM VITAE

Amy E. Strong, MD MSCE  
*Amy Walz, Amy E. Walz, Amy Strong*

July 15, 2024

## I. EDUCATIONAL AND PROFESSIONAL HISTORY

### A. Institutions attended: Degrees

|      |      |                        |                            |
|------|------|------------------------|----------------------------|
| 2011 | BS   | Integrative Physiology | University of Iowa         |
| 2016 | MD   | Medicine               | University of Iowa         |
| 2022 | MSCE | Clinical Epidemiology  | University of Pennsylvania |

### Postgraduate medical education

2016-2019 Resident Physician  
Pediatrics, University of Iowa Stead Family Children's Hospital

2019-2022 Fellow Physician  
Pediatric Nephrology, Children's Hospital of Philadelphia

### B. Certification and Licensure Board Certification

2019 American Board of Pediatrics, General Pediatrics

2024 American Board of Pediatrics, Pediatric Nephrology

### Licensure

|           |   |
|-----------|---|
| 2016-2019 | Iowa Resident Medical License (inactive)          |
| 2019-2022 | Pennsylvania Permanent Medical License (inactive) |
| 2022-     | Iowa Permanent Medical License                    |

### C. Professional and Academic Positions held:

Instructor of Pediatrics - Nephrology  
September 2022-  
University of Iowa Stead Family Children's Hospital

Associate Fellowship Program Director - Pediatric Nephrology  
January 2023-  
University of Iowa Stead Family Children's Hospital

### D. Honors, awards, recognitions:

Teaching Distinction Award 2016  
University of Iowa Carver College of Medicine

Research Distinction Award 2016  
University of Iowa Carver College of Medicine

# COLLEGE OF MEDICINE CURRICULUM VITAE

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## II. TEACHING

### A. Teaching Assignments:

Pediatrics Clerkship Liaison for Pediatric Nephrology  
September 2022 - current  
Carver College of Medicine

Lecturer: Pediatrics Clerkship for Medical Students  
September 2022 – current  
Carver College of Medicine

Associate Fellowship Program Director – Pediatric Nephrology  
January 2023 - current  
Stead Family Children's Hospital

CBL II Small Group Instructor  
January 2024 - current  
Carver College of Medicine

### B. Students Supervised:

**Zachary Rumlow:** Zachary is a now graduated pediatric resident at the University of Iowa Stead Family Children's Hospital. I continue to serve as a research mentor for him following completion of the PSTP (Pediatric Scientist Training Pathway) program and have worked with him on multiple publications. Additionally, I served as a mentor in his continuity clinic, where he saw pediatric nephrology patients with me on a bi-monthly basis.

**Ryan Ward:** Ryan is a current first-year pediatric resident at the University of Iowa Stead Family Children's Hospital and is also completing the PSTP program. I am serving as his faculty mentor through the pediatric residency program.

### C. Other Contributions to Institutional Programs:

Screening in ADPKD: August 2019  
Nephrology Grand Rounds  
The Children's Hospital of Philadelphia; Philadelphia, PA

Renal Manifestations of Macrophage Activating Syndrome: August 2020  
Nephrology/Rheumatology Grand Rounds  
The Children's Hospital of Philadelphia; Philadelphia, PA

Metabolic Disease and Proteinuria: January 2021  
Nephrology/Metabolism Grand Rounds  
The Children's Hospital of Philadelphia; Philadelphia, PA

Caregiver Burden in Pediatric Patients with CKD: July 2021  
Nephrology Grand Rounds  
The Children's Hospital of Philadelphia; Philadelphia, PA

# COLLEGE OF MEDICINE CURRICULUM VITAE

## Amy Strong, MD MSCE

Acute Kidney Injury, Renal Replacement Therapy, and CKD: September 2021  
Pediatric Acute Care Nurse Practitioner Program  
University of Pennsylvania School of Nursing

Dialysis in the Treatment of Metabolic Crises: May 2022  
Metabolism/Genetics Grand Rounds  
The Children's Hospital of Philadelphia; Philadelphia, PA

Neonatal AKI for NICU Nurses: March 2023  
Neonatal Intensive Care Unit  
Stead Family Children's Hospital; Iowa City, IA

Acquired Renal Disease in Neonates: April 2024  
Neonatal Intensive Care Fellowship  
Stead Family Children's Hospital; Iowa City, IA

### III. SCHOLARSHIP/PROFESSIONAL PRODUCTIVITY

#### A. Publications:

##### Peer Reviewed Publications

- S Ramachandran, P Karp, P Jiang, L Ostedgaard, **A Walz**, J Fisher, S Keshavjee, K Lennox, A Jacobi, S Rose, M Behlke, M Welsh, Y Xing, P McCray Jr. (2012) A microRNA network regulates expression and biosynthesis of wild-type and DeltaF508 mutant cystic fibrosis transmembrane conductance regulator. *Proc Natl Acad Sci* PMID: 22853952
- SQ Longmuir, R Oral, **A Walz**, P Kemp, J Ryba, BM Zimmerman, M Abramoff. (2014) Quantitative measurement of retinal hemorrhages in suspected victims of child abuse. *J AAPOS*. PMID: 25456029
- R Oral, M Ramirez, C Coohy, S Nakada, **A Walz**, A Kuntz, C Peek-Asa. (2016). Adverse childhood experiences and trauma informed care: the future of health care. *Pediatric Research*, 79(1-2), 227-233. PMID: 26460523
- H Ron, R Scobell, **A Strong**, E Salazar, R Ganetzky. (2022) Congenital adrenal calcifications as the first clinical indication of sphingosine lyase insufficiency syndrome: A case report and review of the literature. *Am J Med Genet A*. 2022 Aug 16. PMID: 35972040.
- **Strong, A. E.**, Zee, J., Fulchiero, R., Kilbaugh, T., Connelly, J., Makeneni, S., Campos, D., Laskin, B. L., & Denburg, M. R. (2023). "Intravascular Hemolysis and Acute Kidney Injury in Children Undergoing Extracorporeal Membrane Oxygenation." *Kidney 360*. PMID: 37853572, PMCID: PMC10695640
- **Strong, A.**, et al. (2023). "Medication-Induced Kidney Injury for the Primary Care Pediatrician." *Current Treatment Options in Pediatrics*. DOI: 10.1007/s40746-023-00290-1
- **Strong, A. E.**, Zee, J., Laskin, B.L., Howarth, K., Blinder, J., Chrischilles, E.A., Levy-Erez, D. & Denburg, M. R. (2024). "Urine Dipstick Blood and Acute Kidney Injury in Infants Undergoing Cardiopulmonary Bypass." *Pediatric Nephrology* (*in press*)

##### Book Chapters & Editorials:

- A Strong, B Laskin. *Netter's Pediatrics, 2e* (2022), Chapter 102: Glomerulonephritis.

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#### **Collaborative Contributions:**

- Menon, S., et al. (2023). "Worldwide Exploration of Renal Replacement Outcomes Collaborative in Kidney Disease (WE-ROCK)." Kidney Int Rep 8(8): 1542-1552. PMID: 37547524, PMCID: PMC10403688
- Gist KM, et al. (2024). "Time to Continuous Renal Replacement Therapy Initiation and 90-Day Major Adverse Kidney Events in Children and Young Adults." JAMA Netw Open. PMID: 38165673; PMCID: PMC10762580.
- Fuhrman, D. Y., et al. (2024). "Major Adverse Kidney Events in Pediatric Continuous Kidney Replacement Therapy." JAMA Netw Open 7(2): e240243.
- Stenson, E. K., et al. (2024). "Factors associated with successful liberation from continuous renal replacement therapy in children and young adults: analysis of the worldwide exploration of renal replacement outcomes collaborative in Kidney Disease Registry." Intensive Care Med.
- Starr, M. C., et al. (2024). "Continuous Kidney Replacement Therapy and Survival in Children and Young Adults: Findings from the Multinational WE-ROCK Collaborative." American Journal of Kidney Diseases.

#### **Abstracts:**

- Hypercalcemia and Nephrocalcinosis as Presenting Symptoms of Neonatal Distal Renal Tubular Acidosis  
Pediatric Endocrine Society Annual Meeting (Virtual): April 2020  
M Craven, **A Strong**, L Copelovitch, C Hawkes
- Prevalence and outcomes of COVID-19 disease in pediatric kidney transplant patients in a single, US academic children's hospital  
International Pediatric Transplant Association Annual Meeting: Prague, Czech Republic: March 2022  
J Savant, J Hewlett, S Lopez, L Galea, A Buchinsky, **A Strong**, U Nwaogazie, C LaRosa, B Laskin, S Amaral, B Viteri
- Increasing Vaccination Rates for Children with Nephrotic Syndrome at CHOP  
CHOP Quality and Safety Day: Philadelphia, PA: May 2022  
D Mazza, **A Strong**, R Scobell, J Panus, L Cecere, E Brooks, A Ciarlante, B Rauch, B Laskin, M Denburg
- Leflunomide in children with BK polyomavirus viremia after kidney transplant  
American Transplant Congress: Boston, MA: June 2022  
Hewlett J, Le Palma K, Galea L, Savant J, Lopez S, Rosano JV, **Strong A**, Viteri B, LaRosa C, Amaral S, Laskin B.
- Nonrenal Functional Outcomes in Pediatric Patients with Acute Kidney Injury (AKI) following Continuous Renal Replacement Therapy (CRRT).  
Advances in Critical Care Nephrology, AKI and CRRT Conference: March 2023  
Kristin Dolan, Abby Basalely, Camela Serpe, Michaela Damian, Denise Hasson, David Kwiatkowski, Danielle E Soranno, Susan Martin, Nicholas Ollberding, Huiayu Zang, Haleigh Inthavong, **Amy Strong**, Jenn Nhan, Ayse Ackan-Arikan on behalf of WE-ROCK Investigators.
- Urbanicity and Rurality Among 2019 Pediatric Chronic Kidney Disease Hospitalizations in the United States: Exploring Opportunities to Improve Healthcare Access  
Pediatric Academic Societies Meeting: Washington DC: April 2023

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Morgan Swanson; Lucas Barrett; **Amy Strong**; Nicholas M. Mohr; Lyndsay Harshman

- A single center retrospective cohort study of risk factors associated with COVID-19 infection in pediatric kidney transplant recipients.  
Pediatric Academic Societies Meeting: Washington DC: April 2023  
U Nwaogazie, J Savant, B Viteri, W Faig, S Najmola, J Hewlett, L Galea, **A Strong**, A Buchinsky, C LaRosa, B Laskin, S Amaral
- A Hypertensive Emergency Recalls the Distant History of a Resolving Vesicoureteral Reflux  
American Medical Association Poster Showcase: Oxon Hill, MD: November 2023. E Capper, Y Almodallal, **A Strong**

#### **B. Areas of Research Interest and Current Projects:**

- Long Term Renal Outcomes in Pediatric Patients Treated with ECMO
  - First author publication
  - Manuscript under review
- Long Term Outcomes Following Acute Kidney Injury
  - Senior author
  - Manuscript preparation in process
- WE-ROCK (Worldwide Exploration of Renal Replacement Outcomes)
  - Multi-center collaborative site lead
  - Ongoing manuscript preparation and data collection
- WE-ROCK ECMO Module
  - Multi-center collaborative site lead
  - Ongoing manuscript preparation and data collection
- The Epidemiology of ECMO & AKI
  - Collaborative review paper
  - Manuscript in progress
- Clinical Features and Long-Term Outcomes of Tubulointerstitial Nephritis (TINU): A Pediatric Nephrology Research Consortium Study
  - Multi-center study site lead
  - Data collection in process
- Utility of the Renasight Kidney Disease Gene Panel in the Pediatric Nephrology Population
  - Multi-center study site lead
  - Data collection in process
- Lymphocyte Profile in Patients with Nephrotic Syndrome Receiving Rituximab
  - Manuscript in progress
- Patient Rurality & Outcomes in a National Cohort of Hospitalized Pediatric Patients with Chronic Kidney Disease
  - Manuscript in progress
- Prevalence and Outcomes of COVID-19 disease in Pediatric Kidney Transplant Patients in a Single, US Academic Children's Hospital
  - Manuscript in progress

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### **C. Grants Received**

#### **T-32 Training Grant in Nephrology**

Larry Holtzman (PI)

2020 – 2022 University of Pennsylvania

### **D. Invited lectures/Conference presentations**

- Rescue of CFTR-deltaF508 Biosynthesis by Small Molecules  
Medical Student Research Day, University of Iowa CCOM: August 2012  
**A Strong, et. al**  
Poster presentation
- Rescue of CFTR-deltaF508 Biosynthesis by Small Molecules  
Medical Student Research Day, University of Iowa CCOM: August 2012  
**A Strong, et. al**  
Oral presentation
- Incidence and Timing of AKI in Pediatric Patients Undergoing ECMO  
Pediatric Academic Societies Meeting: Denver, CO: April 2022  
**A Strong, et. al**  
Poster presentation
- Intravascular Hemolysis and AKI in Pediatric Patients Undergoing ECMO  
American Society Nephrology: Orlando, FL: November 2022  
**A Strong, et. al**  
Poster presentation
- When the Beans are on the Pump: ECMO and AKI  
Frontiers in Pediatrics Lecture Series: Iowa City, IA: February 2023  
Oral presentation
- Long Term Kidney Outcomes in Pediatric Patients Following ECMO  
Advances in Critical Care Nephrology, AKI and CRRT Conference: March 2023  
**A. Strong, et. al**  
Poster presentation
- Urine Dipstick Blood and Acute Kidney Injury in Neonates Undergoing Cardiopulmonary Bypass  
Pediatric Academic Societies Meeting: May 2024  
**A. Strong, et al**  
Poster presentation
- Using Big Ideas and Big Data to Study Small Numbers of Small Patients  
Pediatric Academic Societies Meeting: May 2024  
Oral Symposia moderator
- ECMO and AKI: The Role of Intravascular Hemolysis  
Nephrology Research Meeting  
Ann & Robert Lurie Children's Hospital of Chicago: Chicago, IL July 2024  
Oral presentation

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## **IV. SERVICE**

### **A. Memberships in Professional Organizations**

American Academy of Pediatrics: 2015 – 2019  
American Society of Pediatric Nephrology: 2018 – present  
American Society of Nephrology: 2019 – present  
Women in Nephrology: 2021 – 2023  
Neonatal Kidney Collaborative: 2021 – present  
Children's Hospital Neonatal Consortium Kidney Focus Group: 2021 – present  
Midwest Society for Pediatric Research: 2024 – present

### **B. Offices in Professional Organizations**

Member, Academic Liaison Committee 2013 – 2014  
Office of Graduate Medical Education  
University of Iowa Carver College of Medicine

Member, McCowen Medical Community Leadership Committee 2013 – 2014  
University of Iowa Carver College of Medicine

Vice President External Affairs 2013 – 2014  
Medical Student Ambassador Program  
University of Iowa Carver College of Medicine

Resident Liaison, Pediatric Interest Group 2016 – 2019  
University of Iowa Stead Family Children's Hospital

Scheduling Fellow 2021 – 2022  
Pediatric Nephrology Fellowship Program  
The Children's Hospital of Philadelphia

Member, Resident and Fellow Advisory Council 2021 – 2022  
Office of Graduate Medical Education  
The Children's Hospital of Philadelphia

### **C. Other Professional Activities**

Reviewer 2022 – current  
Pediatric Nephrology journal

Interviewer, Pediatric Residency Program: 2022 - current  
Stead Family Children's Hospital

Interviewer, Carver College of Medicine Admissions: 2023 - current  
University of Iowa Carver College of Medicine

GLEAN (Glomerular Disease Learning Network)  
Site lead and steering committee member

COLLEGE OF MEDICINE CURRICULUM VITAE

Amy Strong, MD MSCE

**D. Clinical assignments since last promotion**

General pediatric nephrology inpatient and consultation service: 4-5 weeks per year with call 24 hours for 7 days.

General pediatric nephrology clinic: 1 half-day per week