

## CURRICULUM VITAE

---

Alicia Neu, M.D.

October 23, 2016

Date of Version

### DEMOGRAPHIC AND PERSONAL INFORMATION

#### Current Appointments:

2011-present Professor, Pediatrics, Johns Hopkins University School of Medicine

#### Personal Data:

200 North Wolfe Street  
Room 3065  
Baltimore, MD 21287  
Telephone 410-955-2467  
Fax 410-614-3680  
E-mail aneu1@jhmi.edu

#### Education and Professional Training

1980-1984	B.S. <i>Summa Cum Laude</i>	Marquette University Milwaukee, Wisconsin	Engineering
1984-1988	M.D. <i>Alpha Omega Alpha</i>	University of Virginia School of Medicine Charlottesville, Virginia	Medicine
1988-1989	Intern	Johns Hopkins Hospital Baltimore, Maryland	Pediatrics
1989-1990	Resident	Johns Hopkins Hospital Baltimore, Maryland	Pediatrics
1990-1991	Senior Resident	Johns Hopkins Hospital Baltimore, Maryland	Pediatrics
1991-1994	Clinical and Research Fellow	Johns Hopkins University Baltimore, Maryland	Pediatric Nephrology

## **Professional Experience**

1994-1995	Instructor Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland
1995-2002	Assistant Professor Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland
2000-present	Clinical Director Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland
2001-present	Medical Director Pediatric Dialysis and Kidney Transplant Program	Johns Hopkins University Baltimore, Maryland
2002-2011	Associate Professor Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland
2006-present	Medical Director Pediatric Stone Clinic	Johns Hopkins Medicine Baltimore, Maryland
2008-present	Fellowship Director Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland
2015-present	Division Chief, Pediatric Nephrology	Johns Hopkins University Baltimore, Maryland

## **RESEARCH ACTIVITIES**

### **Publications**

#### **Peer Reviewed Articles**

1. Neu AM, Case BW, Lederman HM, Fivush BA. IgG subclass levels in pediatric patients on chronic peritoneal dialysis. *Pediatric Nephrology*. 1995; 9(2):186-189.
2. Neu AM, Fivush BA, Lederman HM. Cytokine production by peripheral blood mononuclear cells from pediatric chronic peritoneal dialysis patients. *Pediatric*

- Nephrology. 1995; 9(3):333-336.
3. Furth SL, Neu AM, McColley S, Case B, Steinhoff M, Fivush B. Immune response to Influenza vaccination in children with renal disease. *Pediatric Nephrology*. 1995; 9(5):566-568.
  4. Furth SL, Neu AM, Case BW, Lederman H, Steinhoff M, Fivush BA. Pneumococcal polysaccharide vaccine immunization in children with chronic renal disease. *Journal of Pediatrics*. 1996;128(1):99-101.
  5. Furth SL, Neu AM, Colombani P, Plotnick L, Turner ME, Fivush BA. Diabetes as a complication of FK506 in pediatric renal transplant patients. *Pediatric Nephrology*. 1996; 10(1): 64-66.
  6. Neu AM, Lederman HM, Warady BA, Fivush BA. Hemophilus influenza type b immunization in infants on peritoneal dialysis. *Pediatric Nephrology*. 1996; 10(1):84-85.
  7. Furth SL, Powe NR, Hwang W, Neu AM, Fivush BA. Racial differences in choice of dialysis modality for children with end stage renal disease. *Pediatrics*. 1997;99(4):E6.
  8. Furth S, Neu A, Sullivan EK, Gensler G, Tejani A, Fivush BA. Immunization practices in children with renal disease: A report of the North American Pediatric Renal Transplant Cooperative Study (NAPRTCS). *Pediatric Nephrology*. 1997; 11(4):443-446.
  9. Furth SL, Powe NR, Hwang W, Neu AM, Fivush BA. Does Pediatric specialization influence treatment choices in chronic disease management? Dialysis modality choice for children with ESRD. *Archives of Pediatric and Adolescent Medicine*. 1997; 151(6):545-550.
  10. Furth SL, Sullivan EK, Neu AM, Tejani A, Fivush, BA. Varicella in the first year after renal transplantation: A report of the North American Pediatric Renal Transplant Cooperative Study (NAPRTCS). *Pediatric Transplantation*. 1997;1(1):37-42.
  11. Neu AM, Furth SL, Case BW, Wise B, Colombani PM, Fivush BA. Evaluation of neurotoxicity in pediatric renal transplant recipients treated with tacrolimus (FK506). *Clinical Transplantation*. 1997;11(5 Pt 1):412-414.
  12. McKee M, Segev D, Wise B, Case B, Neu A, Fivush B, Colombani P. Initial experience with FK506 (tacrolimus) in pediatric renal transplant recipients. *Journal of Pediatric Surgery*. 1997; 32(5):688-690.

13. Fivush B, Jabs K, Neu AM, Sullivan EK, Feld L, Kohaut E, Fine R. Chronic renal insufficiency in children and adolescents: Report of the North American Pediatric Renal Transplant Cooperative Study (NAPRTCS). *Pediatric Nephrology*. 1998; 12(4):328-337.
14. Hoopes RR, Hueber, P, Reid R, Braden G, Goodyear P, Melnyk A, Midgley J, Moel D, Neu A, VanWhys, Scheinman SJ. CLCN5 Chloride-Channel mutations in six new North American Families with X-linked nephrolithiasis. *Kidney International*. 1998; 54(3):698-705.
15. Neu AM, Warady BA, Lederman HM, Furth SL, Fivush BA. Hypogammaglobulinemia in infants and young children maintained on peritoneal dialysis. *Peritoneal Dialysis International*. 1998; 18(4):9-12.
16. Neu AM, Furth S, Zachary A, Stablein D, Fivush B. Effect of parental donor sex on rejection in pediatric renal transplantation: A report of NAPRTCS. *Pediatric Transplantation*. 1998; 2(4):309-312.
17. Lo A, Brown HG, Fivush BA, Neu AM, Racusen LC. Renal disease in Down Syndrome: Case reports and autopsy study with emphasis on glomerular lesions. *American Journal of Kidney Disease*. 1998; 31(2):329-335.
18. Furth S, Hwang W, Neu AM, Fivush BA, Powe NR. For-profit vs not-for-profit dialysis care of children with ESRD. *Pediatrics*. 1999; 104(3 Pt 1): 519-524.
19. Furth SL, Garg PP, Neu AM, Hwang W, Fivush BA, Powe NR. Racial differences in access to the kidney transplant waiting list for children and adolescents with end stage renal disease. *Pediatrics*. 2000;106(4):756-761.
20. Furth SL, Pizek P, Casey J, Neu AM, Docimo S, Vinning P, Freeman J, Fivush BA. Risk factors for the development of kidney stones on the ketogenic diet: A prospective study. *Pediatric Nephrology*. 2000; 15(1-2):125-128.
21. Furth SL, Hwang WH, Yang C, Neu AM, Fivush BA, Powe NR. The relation between pediatric experience and treatment recommendations for children and adolescents with kidney failure. *Journal of the American Medical Association*. 2001; 285(8):1027-1033.
22. Frankenfield DL, Neu AM, Warady BA, Watkins SL, Friedman AL, Fivush BA. Adolescent hemodialysis patients: Results from HCFA's 2000 End-Stage Renal Disease (ESRD) Clinical Performance Measures (CPM) Project. *Pediatric Nephrology*. 2002; 17(1):10-15.

23. Furth SL, Hwang W, Yang C, Neu AM, Fivush BA, Powe NR. Growth failure, risk of hospitalization and death for children with end-stage renal disease. *Pediatric Nephrology*. 2002; 17(6): 450-455.
24. Neu AM, Ho PL (Martin), McDonald R, Warady BA. Chronic dialysis and renal insufficiency in children and adolescents. The 2001 NAPRTCS Annual Report. *Pediatric Nephrology*. 2002; 17(8):656-663.
25. Furth SL, Hwang W, Neu AM, Fivush BA, Powe NR. Effects of patient compliance, parental education and race on nephrologists' recommendations for kidney transplantation in children. *American Journal of Transplantation*. 2003; 3(1):28-34.
26. Frankenfield DL, Neu AM, Warady BA, Fivush BA, Johnson CA, Brem AS. Anemia in Pediatric Hemodialysis Patients: Results from the 2001 ESRD CPM Project. *Kidney International*. 2003; 64(3):1120-1124.
27. Neu AM, Ho PL, Fine RN, Furth SL, Fivush BA. Tacrolimus versus Cyclosporine A as Primary Immunosuppression in Pediatric Renal Transplantation: A NAPRTCS Study. *Pediatric Transplantation*. 2003;7(3):217-222.
28. Neu AM, Fivush BA, Warady BA, Watkins SL, Friedman AL, Brem AS, Goldstein S, Frankenfield DL. Longitudinal Analysis of Adolescent Hemodialysis Patients: Results from the 2001 ESRD Clinical Performance Measures (CPM) Project. *Pediatric Nephrology*. 2003; 18(11):1172-1176.
29. Gerson AC, Furth SL, Neu AM, Fivush BA. Assessing Associations Between Medication Adherence and Psychosocial Variables in Pediatric Kidney Transplant Recipients and Their Families. *Pediatric Transplantation*. 2004; 8(6):543-50.
30. Neu AM, Bedinger M, Fivush BA, Warady BA, Watkins SL, Friedman AL, Brem AS, Goldstein SL, Frankenfield DL. Growth in Adolescent Hemodialysis Patients-Longitudinal Data from the Centers for Medicare & Medicaid Services End-Stage Renal Disease Clinical Performance Measures Project. *Pediatric Nephrology*. 2005; 20(8):1156-1160.
31. Gorman G, Fivush B, Frankenfield D, Warady B, Watkins S, Brem A, Neu A. Short stature and growth hormone use in pediatric hemodialysis patients. *Pediatric Nephrology*. 2005;20(12):1794-1800.
32. Fadrowski JJ, Frankenfield DL, Friedman AL, Warady BA, Neu AM, Fivush BA. Impact of specialization of primary nephrologists on the care of pediatric hemodialysis patients. *American Journal of Kidney Diseases*. 2006; 47(1):115-121.

33. Gorman G, Furth S, Hwang W, Parekh R, Astor B, Fivush B, Neu A. Clinical outcomes and dialysis adequacy in adolescent hemodialysis patients. *American Journal of Kidney Diseases*. 2006. 47(2): 285-293.
34. Frankenfield DL, Atkinson MA, Fivush BA, Neu AM. Outcomes for Adolescent Hispanic Hemodialysis Patients: Findings from the End Stage Renal Disease Clinical Performance Measures Project. *American Journal of Kidney Diseases*. 2006; 47(5): 820-878.
35. Amaral S, Hwang W, Fivush B, Neu A, Frankenfield D, Furth S. Association of Mortality and Hospitalization with Achievement of Adult Hemoglobin Targets in Adolescents on Hemodialysis. *Journal of the American Society of Nephrology*. 2006; 17 (10): 2878-2885.
36. Fadrowski JJ, Hwang W, Frankenfield DL, Fivush BA, Neu AM, Furth SL. Clinical Course Associated with Vascular Access Type in a national cohort of adolescents receiving hemodialysis: Finding from the CPM and USRDS projects. *Clinical Journal of the American Society of Nephrology*. 2006; 1(5):987-992.
37. Omoloja A, Mitsnefes M, Talley L, Benfield M, Neu A. Racial Differences in Graft Survival: A Report from the North American Pediatric Renal Trials and Collaborative Studies (NAPRTCS). *Clinical Journal of the American Society of Nephrology*. 2007; 2(3):524-528.
38. Atkinson A, Neu AM, Fivush BA, Frankenfield DL. Ethnic Disparity in Outcomes for Pediatric Peritoneal Dialysis Patients in the ESRD Clinical Performance Project. *Pediatric Nephrology*. 2007; 22(11):1939-1946.
39. Fadrowski JJ, Frankenfield D, Amaral S, Brady T, Gorman GH, Warady B, Furth SL, Fivush B, Neu AM. Children on long-term dialysis in the United States: Findings from the 2005 ESRD Clinical Performance Measures Project. *American Journal of Kidney Diseases*. 2007; 50(6):958-966.
40. Gorman G, Frankenfield D, Fivush B, Neu A. Linear Growth in Pediatric Hemodialysis Patients. *Pediatric Nephrology*. 2008; 23(1):123-127.
41. Amaral S, Hwang W, Fivush B, Neu A, Frankenfield D, Furth S. Serum Albumin Level and Risk for Mortality and Hospitalization in Adolescents on Hemodialysis. *Clinical Journal of the American Society of Nephrology*. 2008; 3(3):759-767.
42. Atkinson MA, Neu AM, Fivush BA, Frankenfield DL. Disparate outcomes in pediatric peritoneal dialysis patients by gender/race in the End-Stage Renal Disease Clinical Performance Measures project. *Pediatric Nephrology*. 2008; 23(8):1331-1338.

43. Fadrowski JJ, Hwang W, Neu AM, Fivush BA, Furth SL. Patterns of Use of Vascular Catheters for Hemodialysis in Children in the United States. *American Journal of Kidney Diseases*. 2009; 53(1):91-98.
44. Sule SD, Fadrowski JJ, Fivush BA, Neu AM, Furth SL. Persistent low albumin and temporary access in pediatric patients with SLE on hemodialysis. *Pediatric Nephrology*. 2009; 24(10):1981-1987.
45. Novak TE, Martz K, Mathews R, Neu A. Progression of Chronic Kidney Disease in Children with Vesicoureteral Reflux (VUR): Insights from an Analysis of the North American Pediatric Renal Trials and Collaborative Studies (NAPRTCS). *Journal of Urology*. 2009; 182(4 Suppl):1678-1682.
46. Smith LB, Fadrowski JJ, Howe CJ, Fivush BA, Neu AM, Furth SL. Secondary hyperparathyroidism and anemia in children treated by hemodialysis. *American Journal of Kidney Diseases*. 2010; 55(2):326-334.
47. Atkinson M, Fivush BA, Oberai P, Neu AM, and Parekh RS. Predictors and Consequences of Higher Estimated Glomerular Filtration Rate at Dialysis Initiation in Children. *Pediatric Nephrology*. 2010; 25(6):1153-1161.
48. Brady TM, Solomon BS, Neu AM, Siberry GK, Parekh RS. Predictors and Consequences of Higher Estimated Glomerular Filtration Rate at Dialysis in Children. *Pediatrics*. 2010; 125(6):e1286-1293.
49. Atkinson MA, Martz K, Warady BA, Neu AM. Risk for Anemia in Pediatric Chronic Kidney Disease Patients: A Report of the North American Pediatric Renal Trials and Collaborative Studies. *Pediatric Nephrology*. 2010; 25(9):1699-1706.
50. Gorman G, Neu A, Fivush B, Frankenfield D, Furth S. Hospitalization rates and clinical performance measures in U.S. adolescent hemodialysis patients. *Pediatric Nephrology*. 2010; 25(11):2335-2341.
51. Sule S, Fivush B, Neu A, Furth S. Increased risk of death in pediatric and adult patients with ESRD secondary to lupus. *Pediatric Nephrology*. 2011; 26(1):93-98.
52. Schaeffer AJ, Feng Z, Trock BJ, Mathews RI, Neu AM, Gearhart JP, Matlaga BR. Medical Comorbidities Associated With Pediatric Kidney Stone Disease. *Urology*. 2011; 77(1):195-199.
53. Nguyen S, Martz K, Stablein D, Neu, A. Wait List Status of Pediatric Dialysis Patients in North America. *Pediatric Transplantation*. 2011; 15(4): 376-383

54. Fadrowski JJ, Neu AM, Schwartz GJ, Furth SL. Pediatric GFR Estimating Equations Applied to Adolescents in the General Population. *Clinical Journal of the American Society of Nephrology*. 2011; 6(6):1427-1435.
55. Sule S, Fivush B, Neu A, Furth S. Increased hospitalizations and death in patients with ESRD secondary to lupus. *Lupus*. 2012;21(11):1208-13.
56. Neu AM. Immunizations in children with chronic kidney disease. *Pediatr Nephrol*. 2012 Aug;27(8):1257-63
57. Neu AM, Sander A, Borzych-Duzalka D, Watson AR, Vallés PG, Ha IS, Patel H, Askenazi D, Balasz-Chmielewska I, Lauronen J, Groothoff JW, Feber J, Schaefer F, Warady BA; the IPPN investigators. Comorbidities in Chronic Pediatric Peritoneal Dialysis Patients: A Report of the International Pediatric Peritoneal Dialysis Network. *Perit Dial Int*. 2012;32(4):410-418.
58. Gadegbeku CA, Gipson DS, Holzman LB, Ojo AO, Song PX, Barisoni L, Sampson MG, Kopp JB, Lemley KV, Nelson PJ, Lienczewski CC, Adler SG, Appel GB, Cattran DC, Choi MJ, Contreras G, Dell KM, Fervenza FC, Gibson KL, Greenbaum LA, Hernandez JD, Hewitt SM, Hingorani SR, Hladunewich M, Hogan MC, Hogan SL, Kaskel FJ, Lieske JC, Meyers KE, Nachman PH, Nast CC, Neu AM, Reich HN, Sedor JR, Sethna CB, Trachtman H, Tuttle KR, Zhdanova O, Zilleruelo GE, Kretzler M. Design of the Nephrotic Syndrome Study Network (NEPTUNE) to evaluate primary glomerular nephropathy by a multidisciplinary approach. 2013 *Kidney Int*. 83(4):749-756.
59. Warady BA, Neu AM, Schaefer F. Optimal Care of the Infant, Child, and Adolescent on Dialysis: 2014 Update. *Am J Kidney Dis*. 2014; 64(1):128-142
60. Neu AM, Miller MR, Stuart J, Lawlor J, Richardson T, Martz K, Rosenberg C, Newland J, McAfee N, Begin B, Warady BA. Design of the standardizing care to improve outcomes in pediatric end stage renal disease collaborative. *Pediatr Nephrol* 2014; 29(9): 1477-1484
61. Brady TM, Neu AM, Miller ER 3rd, Appel LJ, Siberry GK, Solomon BS. Real-Time Electronic Medical Record Alerts Increase High Blood Pressure Recognition in Children. *Clin Pediatr (Phila)*. 2015;54(7):667-675
62. Dahlinghaus ER, Neu AM, Atkinson MA, Fadrowski JJ. Hemoglobin level and risk for hospitalization and mortality in children on peritoneal dialysis. *Pediatr Nephrol*. 2014; 29(12):2387-2394
63. Yeh HC, Lin YS, Kuo CC, Weidemann D, Weaver V, Fadrowski J, Neu A, Navas-Acien A. Urine osmolality in the US population: implications for environmental biomonitoring. *Environ Res*. 2015; (36):482-490.



64. Gipson DS, Troost JP, Lafayette RA, Hladunewich MA, Trachtman H, Gadegbeku CA, Sedor JR, Holzman LB, Moxey-Mims MM, Perumal K, Kaskel FJ, Nelson PJ, Tuttle KR, Bagnasco SM, Hogan MC, Dell KM, Appel GB, Lieske JC, Ilori TO, Sethna CB, Fervenza FC, Hogan SL, Nachman PH, Rosenberg AZ, Greenbaum LA, Meyers KE, Hewitt SM, Choi MJ, Kopp JB, Zhdanova O, Hodgins JB, Johnstone DB, Adler SG, Avila-Casado C, Neu AM, Hingorani SR, Lemley KV, Nast CC, Brady TM, Barisoni-Thomas L, Fornoni A, Jennette JC, Cattran DC, Palmer MB, Gibson KL, Reich HN, Mokrzycki MH, Sambandam KK, Zilleruelo GE, Licht C, Sampson MG, Song P, Mariani LH, Kretzler M. Complete Remission in the Nephrotic Syndrome Study Network. *Clin J Am Soc Nephrol.* 2016;11(1):81-89
65. Nelson DR, Neu AM, Abraham A, Amaral S, Batsky D, Fadrowski JJ. Immunogenicity of Human Papillomavirus Recombinant Vaccine in Children with CKD. *Clin J Am Soc Nephrol.* 2016 [Epub ahead of print]
66. Neu AM, Richardson T, Lawlor J, Stuart J, McAfee N, Newland J, Warady BA. Implementation of standardized follow up care significantly reduces peritonitis in children on chronic peritoneal dialysis. *Kidney Int.* 2016; 89(6):1346-1354.
15. Sethna CB, Bryant K, Munshi R, Warady BA, Richardson T, Lawlor J, Newland JG, Neu A. Risk Factors for and Outcomes of Catheter-Associated Peritonitis in Children: The SCOPE Collaborative. *Clin J Am Soc Nephrol.* 2016; 11(9):1590-1596.

### **Extramural Funding**

#### **Current:**

- |           |  |
|-----------|--|
| 2014-2019 | <p>”Primary Outcomes of Glomerulonephritis Study (PROGRESS)”<br/>UM1<br/>National Institutes of Health, NIDDK<br/>Total direct costs for JHU: \$10,000/year<br/>Principal Investigator: L Holzman<br/>Role and effort: Center Principal Investigator, Member Steering Committee, 1%</p>    |
| 2009-2019 | <p>“Nephrotic Syndrome Study Network (NEPTUNE)”<br/>1U54 DK083912<br/>National Institutes of Health, NIDDK, ORD<br/>Total direct costs for JHU: \$10,000/year<br/>Principal Investigator: M Kretzler<br/>Role and effort: Center Principal Investigator, Member Steering Committee, 1%</p> |
| 2015-2020 | <p>“A Randomized, Open-Label, Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCl in Pediatric Subjects With</p>  |

- Secondary Hyperparathyroidism and Chronic Kidney Disease Receiving Dialysis”  
Amgen, Inc Contract  
Total direct costs for JHU: \$103,186  
Principal Investigator: B Warady  
Role and effort: Center Principal Investigator, 6.73 %
- 2015-2020 “Efficacy and Safety of Sparsentan (RE-021), A Dual Endothelin Receptor and Angiotensin Receptor Blocker, In Patients With Focal Segmental Glomerulosclerosis (FSGS): A Randomized, Double-Blind, Active-Control, Dose-Escalation Study”  
Retrophin, Inc Contract  
Total direct costs for JHU: \$134,584  
Role and effort: Center Principal Investigator, 1%
- Previous:
- 1992-1993 “Host Defense Mechanisms of the Peritoneal Cavity”  
Harriet Lane Home Research Fellowship  
Total direct cost: \$30,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 75%
- 1992-1993 “Macrophage Function in Chronic Peritoneal Dialysis.”  
National Kidney Foundation of Maryland  
Total direct cost: \$2,500  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)
- 1993-1994 “Mechanisms of Peritonitis in Chronic Ambulatory Peritoneal Dialysis.”  
Stetler Research Fund For Women Physicians  
Total direct cost: \$20,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 75%
- 1993-1994 “Alternative Dialysis Solutions: Effects on Inflammatory Cell Function.”  
National Kidney Foundation of Maryland  
Total direct costs: \$4,500  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)
- 1993-1994 Role of Calcium Channel Blockers in the Development of Gingival Hyperplasia Following Renal Transplant.”

Sandoz Pharmaceuticals Corporation  
Total direct costs: \$2,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

1994-1995      “The Role of Allergy in Nephrotic Syndrome.”  
National Kidney Foundation of Maryland  
Total direct costs: \$5,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

1995-1996      “Beneficial Effect of Maternal vs. Paternal Kidney Donation in  
Pediatric Renal Transplant Recipients.”  
National Kidney Foundation of Maryland  
Total direct costs: \$5,000  
Principal Investigator: B Fivush  
Role and effort: Co-Investigator, 1% (no salary support)

1997-1998      “The Effect of Dialysis Adequacy on Immunoglobulin Levels in  
Pediatric Peritoneal Dialysis Patients.”  
National Kidney Foundation of Maryland  
Total direct costs: \$2,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

1998-1999      “Management of Obesity-Related Hypertension in Baltimore  
Children.”  
Thomas Wilson Sanatorium for the Children of Baltimore City  
Grant  
Total direct costs: \$14,894  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 5%

1999-2000      “Antibody Production after Influenza Vaccine in Pediatric Renal  
Transplant Patients.”  
Johns Hopkins Children’s Center Telethon Fund  
Total direct costs: \$4500  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

1999-2000      “Individual Medication Manuals for Children with Renal Disease.”  
Johns Hopkins Children’s Center Telethon Fund  
Total direct costs: \$2839  
Principal Investigator: S Wood  
Role and effort: Co-Investigator, 1% (no salary support)

1999-2000      “Comparison of CMV Disease in Pediatric Renal Transplant Patients Receiving Azathioprine vs. Mycophenolate Mofetil.”  
National Kidney Foundation of Maryland  
Total direct costs: \$5500  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

1999-2000      “Comparison of CMV Disease in Pediatric Renal Transplant Patients Receiving Azathioprine vs. Mycophenolate Mofetil.”  
MedImmune, Inc  
Total direct costs: \$8600  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2000-2001      “Response to Pneumococcal Vaccine in Infants and Children with Renal Disease.”  
National Kidney Foundation of Maryland  
Total direct costs: \$3950  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

2000-2002      “Evaluation of Tacrolimus as Primary Immunosuppression in Pediatric Renal Transplant Patients.”  
Fujisawa Healthcare, Inc  
Total costs: \$20,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2002-2004      “Evaluation of Tacrolimus as Primary Immunosuppression in Pediatric Renal Transplant Patients.”  
Fujisawa Healthcare, Inc  
Total costs: \$14,000  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2005-2007      “Clinical Measures and Outcomes in Adolescents with ESRD”  
National Institutes of Health, NIDDK (R21) DK064313-01  
Total direct cost: \$200,000 (2 years)  
Principal Investigator: S Furth  
Role and effort: Co-Investigator, 12%

2006-2007      “Antibody Response to Conjugate Meningococcal Vaccine in Preadolescent and Adolescent Patients with Chronic Kidney Disease.”  
National Kidney Foundation of Maryland  
Total direct costs: \$5250

Principal Investigator: A Neu  
Role and effort: Principal Investigator, 1% (no salary support)

2006-2007      “Increasing Recognition of Elevated Blood Pressure”  
The Thomas Wilson Sanitarium for Children of Baltimore City  
Grant  
Total costs: \$19,512  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2008-2010      “NephCure FSGS Biobank”  
NephCure Foundation  
Total direct costs: \$ 21,082  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2008-2010      “Immunogenicity of Human Papillomavirus Recombinant Vaccine  
(Gardasil®) in Pediatric Kidney Allograft Recipients and Pediatric  
Chronic Kidney Disease Patients”  
Merck & Co., Inc.  
Investigator-Initiated Studies Program  
Total direct costs: \$74,000  
Principal Investigator: J Fadrowski  
Role and effort: Co-Investigator, 5% Effort

2008-2011      “A Multi-Center, Single-Arm Study Evaluating De Novo Once  
Every Two Week Darbepoetin Alfa Dosing in Pediatric Subjects  
with Chronic Kidney Disease Receiving and Not Receiving  
Dialysis  
Amgen, Inc Contract  
Total direct costs: \$14,165  
Principal Investigator: A Neu  
Role and effort: Principal Investigator, 2%

2010-2011      “A Retrospective Observational Study to Describe Changes in  
Biochemical Markers and Occurrence of Safety Events Following  
Treatment with Cinacalcet HCl in Pediatric Subjects with Chronic  
Kidney Disease and Secondary Hyperparathyroidism Receiving  
Dialysis”  
Amgen, Inc Contract  
Total direct costs for JHU: \$2500  
Principal Investigator: B Warady  
Role and effort: Center Principal Investigator, 1%

2010-2013      “A Prospective, Multicenter Study to Evaluate the Safety of

Vitamin D Receptor Activators as Determined by Hypercalcemia in Pediatric Patients ages 0 to 16 with Chronic Kidney Disease (CKD) Stage 5 Receiving Peritoneal Dialysis (PD) within Current Clinical Practice”

Abbott Renal Global Contract

Total direct costs for JHU: \$ 32,000

Principal Investigator: B Warady

Role and effort: Center Principal Investigator, 1%

2011-2014

“A Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCL in Pediatric Subjects with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis”

Amgen, Inc Contract

Total direct costs for JHU: \$88,333

Principal Investigator: B Warady

Role and effort: Center Principal Investigator, 2%

2012-2016

“An Open-label, Single-arm Study to Assess the Safety and Tolerability of Cinacalcet HCl in Addition to Standard of Care in Pediatric Subjects Age 28 Days to < 6 Years with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis”

Amgen, Inc Contract

Total direct costs for JHU: \$26,168

Principal Investigator: B Warady

Role and effort: Center Principal Investigator, 1%

2012-2016

“A Randomized, Placebo-Controlled, 2-Week Fixed Dose Period Followed by a 6-Month, Single-Arm, Open Label, Dose-Titration Period Study to Investigate the Efficacy and Safety of Sevelamer Carbonate in Hyperphosphatemic Pediatric Patients with Chronic Kidney Disease”

Genzyme, Inc Contract

Total direct costs for JHU: \$35, 632

Principal Investigator: B Warady

Role and effort, Center Principal Investigator, 1%

### **Investigator/Multicenter Trials**

1991-1998

Humoral Immunity in Infants on Peritoneal Dialysis

Principal Investigator

Multi-center trial

Funded by NKF-Maryland

Completed 1998

1996-2001	Adequacy in Pediatric Peritoneal Dialysis Patients Center Principal Investigator Multi-center trial Funded by Baxter Corporation Pediatric Peritoneal Dialysis Study Consortium Completed 2001
2000-2005	TGF-beta in Patients with Focal and Segmental Glomerulosclerosis Center Principal Investigator Multi-center study Funded by NIH North American Pediatric Renal Transplant Cooperative Study
2002-2007	International Pediatric Peritonitis Registry Center Principal Investigator International Multi-center study Funded by Baxter Healthcare, Inc
2004-2005	Immunosuppressive Medication Cost Study Center Principal Investigator Multi-center study Funded by Health Resources and Services Administration (HRSA)
2001-present	North American Pediatric Renal Trials and Collaborative Studies (Previously North American Pediatric Renal Transplant Cooperative Study) Center Principal Investigator Multi-center study
2006-2008	Comparison of the Safety and Efficacy of Three Venofer® Iron Maintenance Regimens in Pediatric Chronic Kidney Disease Patients Center Principal Investigator Multi-center study Sponsored by Lutipold Pharmaceuticals, Inc
2007-present	International Pediatric Peritoneal Dialysis Network Center Principal Investigator Scientific Advisory Committee International Multi-center study Sponsored by Baxter Healthcare, Inc
2008-2010	NephCure FSGS BioBank Center Principal Investigator

	<p>Multi-center study Sponsored by NephCure Foundation</p>
2008-2011	<p>A Multi-Center, Single-Arm Study Evaluation De Novo Once Every Two Week Darbepoetin Alfa Dosing in Pediatric Subjects with Chronic Kidney Disease Receiving and Not Receiving Dialysis Center Principal Investigator Multi-center study Sponsored by Amgen, Inc</p>
2008-2011	<p>Immunogenicity of Human Papillomavirus Recombinant Vaccine (Gardasil®) in Pediatric Kidney Allograft Recipients and Pediatric Chronic Kidney Disease Patients Co-Investigator Sponsored by Merck &amp; Co., Inc.</p>
2009-present	<p>NEPTUNE (Nephrotic Syndrome Rare Disease Clinical Research Network) Center Principal Investigator Member, Steering Committee Funded by the National Institutes of Health</p>
2010-2011	<p>A Retrospective Observational Study to Describe Changes in Biochemical Markers and Occurrence of Safety Events Following Treatment With Cinacalcet HCL in Pediatric Subjects with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis Center Principal Investigator Multi-center study Sponsored by Amgen, Inc</p>
2010-2013	<p>A Prospective, Multicenter Study to Evaluate the Safety of Vitamin D Receptor Activators as Determined by Hypercalcemia in Pediatric Patients ages 0 to 16 with Chronic Kidney Disease (CKD) Stage 5 Receiving Peritoneal Dialysis (PD) within Current Clinical Practice Center Principal Investigator Multi-center study Sponsored by Abbott Renal Global</p>
2010-present	<p>Standardizing Care to improve Outcomes in Pediatric end stage renal disease (SCOPE) Collaborative Study PI Multi-center study Sponsored by the Children's Hospital Association</p>



- 2011-2014      A Randomized, Double-Blind, Placebo-Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCL in Pediatric Subjects with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis  
Center Principal Investigator  
Multi-center study  
Sponsored by Amgen, Inc
- 2012-2015      An Open-label, Single-arm Study to Assess the Safety and Tolerability of Cinacalcet HCl in Addition to Standard of Care in Pediatric Subjects Age 28 Days to < 6 Years with Chronic Kidney Disease and Secondary Hyperparathyroidism Receiving Dialysis”  
Center Principal Investigator  
Multi-center study  
Sponsored by Amgen, Inc
- 2012-2016      A Randomized, Placebo-Controlled, 2-Week Fixed Dose Period Followed by a 6-Month, Single-Arm, Open Label, Dose-Titration Period Study to Investigate the Efficacy and Safety of Sevelamer Carbonate in Hyperphosphatemic Pediatric Patients with Chronic Kidney Disease  
Center Principal Investigator  
Multi-Center Study  
Sponsored by Genzyme, Inc
- 2014-2019      CureGN  
Multi-center study  
Center Principal Investigator  
Member, Steering Committee
- 2015-2020      A Randomized, Open-Label, Controlled Study to Assess the Efficacy and Safety of Cinacalcet HCl in Pediatric Subjects With Secondary Hyperparathyroidism and Chronic Kidney Disease Receiving Dialysis  
Center Principal Investigator  
Multi-center Study  
Sponsored by Amgen, Inc
- 2015-2020      Efficacy and Safety of Sparsentan (RE-021), A Dual Endothelin Receptor and Angiotensin Receptor Blocker, In Patients With Focal Segmental Glomerulosclerosis (FSGS): A Randomized, Double-Blind, Active-Control, Dose-Escalation Study  
Center Principal Investigator  
Multi-center Study  
Sponsored by Retrophin, Inc

## **EDUCATIONAL ACTIVITIES**

### **Educational Publications**

#### **Peer Reviewed Publications (Consensus Statements)**

1. Fine RN, Becker Y, De Geest S, Eisen H, Ettenger R, Evans R, Gerber D, LaPointe Rudow D, McKay D, Neu A, Nevins T, Reyes J, Wray J, Dobbels F. Non-Adherence Consensus Conference Summary Report. American Journal of Transplantation. 2009; 9(1):35-41.

#### **Invited or Submitted Reviews**

1. Neu AM, Kohaut E, Warady BA. Current approach to peritoneal access in North American children - A report of the Pediatric Peritoneal Dialysis Study Consortium. Advances in Peritoneal Dialysis. 1995; 11:289-292.
2. Fivush BA, Furth SL, Neu AM. Immunizations in children on PD: Current guidelines and recommendations. Advances in Peritoneal Dialysis. 1995; 11:270-273.
3. Neu AM, Warady BA. Dialysis and renal transplantation in infants with irreversible renal failure. Advances in Renal Replacement Therapy. 1996; 3(1):48-59.
4. Neu AM, Warady BA, Furth SL, Lederman HM, Fivush BA. Antibody levels to diphtheria, tetanus and rubella in infants vaccinated while on peritoneal dialysis: A study of the Pediatric Peritoneal Dialysis Study Consortium. Advances in Peritoneal Dialysis. 1997; 13:297-299.
5. Fivush B, Neu A, Furth S. Acute hypertensive crisis in children-Emergencies and urgencies. Current Opinion In Pediatrics. 1997; 9(3):233-236.
6. Fivush BA, Neu AM. Immunization guidelines for pediatric renal disease. Seminars in Nephrology. 1998;18(3):256-226.
7. Neu AM, Fivush B. Recommended immunization practices for pediatric renal transplant recipients. Pediatric Transplantation. 1998; 2(4):263-269.
8. Neu AM, Benfield M. What is the role for mycophenolate mofetil in pediatric renal transplantation. Pediatric Transplantation. 1999; 3(1): 83-87.
9. Neu AM, Fivush B. Immunizations for pediatric dialysis patients. Advances in Renal Replacement Therapy. 2000; 7(3):239-46.
10. Furth SL, Alexander DC, Neu AM, Hwang W, Powe NR, Fivush BA. Does

- growth retardation indicate suboptimal clinical care in children with chronic renal disease and those undergoing dialysis? *Seminars in Nephrology*. 2001; 21(5):463-469.
11. Morgenstern BK, Nair S, Lerner G, Neu A, Quan A, Warady B. Impact of total body water errors on Kt/V estimates in children on peritoneal dialysis. *Advances in Peritoneal Dialysis*. 2001; 17: 260-263.
  12. Furth SL, Gerson AC, Neu AM, Fivush BA. The impact of dialysis and transplantation on children. *Advances in Renal Replacement Therapy*. 2001; 8(3):206-213.
  13. Veltri MA, Neu AM, Fivush BA, Parekh RS, Furth SL. Drug Therapy during Hemodialysis and Continuous Renal Replacement Therapy: Special Considerations in Pediatric Patients. *Pediatric Drugs*. 2004; 6(1): 45-65.
  14. Neu AM. Special Issues in Pediatric Kidney Transplantation. *Advances in Chronic Kidney Disease*. 2006;13(1):62-69.
  15. Neu AM, Warady BA. How Should Chronic Medical Therapies Be Altered with the Initiation of Dialysis in Children? *Seminars in Dialysis*. 2006; 19(1):21-24.
  16. Neu AM, Frankenfield D. Clinical Outcomes in Children on Hemodialysis: Lessons from CMS' ESRD CPM Project. *Pediatric Nephrology*. 2009;24(7):1287-1295.
  17. Neu AM. Immunizations in children with chronic kidney disease. *Pediatr Nephrol*. 2012 Aug;27(8):1257-63
  18. Warady BA, Neu AM, Schaefer F. Optimal Care of the Infant, Child, and Adolescent on Dialysis: 2014 Update. *Am J Kidney Dis*. 2014; 64(1):128-142
  19. Redpath Mahon A, Neu AM. A contemporary approach to the prevention of peritoneal dialysis-related peritonitis in children: the role of improvement science. *Pediatr Nephrol*. 2016 Oct 18.

### **Editorials**

1. Neu AM. Indications for Varicella Vaccination Post-transplant. *Pediatric Transplantation*. 2005;9(2):141-144.
2. Hoenig MP, Neu AM. Crossing vessel and crossroads with urology. *Adv Chronic Kidney Dis*. 2015; 22(4):256-257
3. Amaral S, Neu A. Recurrent FSGS Postkidney Transplant: Moving the Needle Forward. *Clin J Am Soc Nephrol*. Epub ahead of print October 20, 2016

## Case Reports

1. Neu AM, Lederman HM, Fivush BA. Hypogammaglobulinemia and fatal sepsis in an infant maintained on peritoneal dialysis. *Pediatric Nephrology*. 1993; 7(4):455-456.
2. Neu AM, Lederman HM, Fivush BA. Neisseria sicca peritonitis in a patient maintained on chronic peritoneal dialysis. *Pediatric Nephrology*. 1994; 8(5):601-602.
3. Kronz JD, Neu AM, Nadasdy T. When non-congophilic glomerular fibrils do not represent fibrillary glomerulonephritis: Non-specific mesangial fibrils in sclerosing glomeruli. *Clinical Nephrology*. 1998; 50(4): 218-223.
4. Furth S, Neu AM, Hart J, Zachary A, Colombani P, Fivush BA. Plasmapheresis, intravenous CMV-specific immunoglobulin and reversal of antibody-mediated rejection in a pediatric renal transplant recipient: A case report. *Pediatric Transplantation*. 1999; 3(2): 146-149.

## Book Chapters

1. Neu AM, Christenson MJ, Brusilow SW. Hemodialysis for Inborn Errors of Metabolism. In: Nissenson, AR, Fine, RN (Eds.), *Dialysis Therapy (2nd Edition)*, Mosby-Yearbook, Inc Publishers, 1993.
2. Neu AM, Warady BA. Special Considerations in the Care of the Infant CAPD/CCPD Patient. In: Fine RN, Alexander SR, Warady BA (eds), *CAPD/CCPD in Children (2nd Edition)*, Kluwer Academic Publishers, 1998.
3. Fivush BA, Neu AM. Immunizations in Pediatric CAPD/CCPD Patients. In: Fine RN, Alexander SR, Warady BA (eds), *CAPD/CCPD in Children (2nd Edition)*, Kluwer Academic Publishers, 1998.
4. Neu AM, Fivush BA. Outcomes and Risk Factors. In: Tejani AH, Harmon WE, Fine RN (eds), *Pediatric Solid Organ Transplantation*, Munksgaard Publishers, 2000.
5. Neu AM, Fivush BA. Transplantation-Medical Aspects. In: Gearhart JP, Rink RC, Mouriquand P (eds), *Pediatric Urology*, W.B Saunders Company Publishers, 2001.
6. Neu AM. Infant and Neonatal Peritoneal Dialysis. In: Nissenson AR, Fine RN (eds), *Dialysis Therapy (3<sup>rd</sup> Edition)*, Mosby-Yearbook, Inc Publishers 2001.
7. Neu AM. Immunizations. In: Warady BA, Alexander SR, Fine RN, Schaefer F

- (eds), Pediatric Dialysis, Kluwer Academic Publishers. 2004.
8. Neu AM, Fivush BA. Immunization of children with renal disease. In: Kaplan BS, Meyers K (eds), Pediatric Nephrology and Urology: The Requisite in Pediatrics. Elsevier Mosby Publishers 2004.
  9. Fivush BA, Neu AM, Parekh R, Maxwell LC, Racussen LG. Renal function in heart disease. In: Nichols D (ed), Critical Heart Disease in Infants and Children. Elsevier Mosby Publishers 2006.
  10. Neu AM, Fivush BA. Outcomes and Risk Factors. Fine RN, Harmon W, Webber S, Kelly D, Olthoff K. (eds) Pediatric Solid Organ Transplantation. Blackwell Publishing, Ltd. 2007
  11. Neu AM. Infant and Neonatal Peritoneal Dialysis. In: Nissenson AR, Fine RN. (eds) Handbook of Dialysis Therapy, 4<sup>th</sup> edition. Saunders Elsevier, Publishers 2008
  12. Neu AM, Dharnidharka V. Prevention and Treatment of Infection in Pediatric Kidney Transplant Recipients. In: Geary DF, Schaefer F (eds). Clinical Pediatric Nephrology. Mosby Elsevier, Publishers 2008
  13. Amaral S, Neu AM. Growth and Development. In: Avner ED, Harmon WE, Niaudet P, Yoshikawa N (eds.) Pediatric Nephrology, 6th Edition. Springer Publishers 2009
  14. Chua A, Neu AM. Immune Function and Immunizations in Dialyzed Children. In: Warady BA, Schaefer F, Alexander SR (eds.) Pediatric Dialysis, 2<sup>nd</sup> Edition. Springer Publishers 2012
  15. Neu AM, Schaefer F. Pediatric Chronic PD: Prescription and Management (including complications). In: Geary D, Schaefer F (eds). Pediatric Kidney Disease, 2<sup>nd</sup> Edition. Springer Publishers In Press

### **Alternative Media**

1. Neu AM, Salvatierra O. Managing the special needs of pediatric transplant recipients. Nephrology Updates Volume 2, Number 2, March 2005.
2. Issues in Pediatric Kidney Transplantation. Ideon Healthcare Education, CME Consultants, Inc.
3. Interviewed by United Press International (UPI) about pediatric kidney stones, December 2006.
4. Unique Challenges in Pediatric Renal Transplantation. Medscape Pediatrics.

- <http://www.medscape.com/>, October 2007
5. Interviewed by New York Times about rise in pediatric kidney stones. “A Rise in Kidney Stones Is Seen in U.S. Children”, October 2008
  6. Interviewed by News ProNet about kidney stones in pediatric patients, distributed to ABC News Affiliates, November 2008
  7. Healthy Transplant website (<http://www.healthytransplant.com/>), Advisory Committee, 2009-present
  8. Educational Podcast for American Society of Transplantation Website: “Chronic Kidney Disease in Non-Renal Transplant Patients”, with Dr. Jens Goebel. April 2010. ([http://www.a-s-t.org/cfincludes/knowledge\\_center/podcast/index3.cfm](http://www.a-s-t.org/cfincludes/knowledge_center/podcast/index3.cfm))

## **Teaching**

### **Classroom Instruction**

- 1993-1998 “Proteinuria”, Quarterly lecture to Johns Hopkins University Medical Students on pediatric clinical clerkship
- 1993-present “Proteinuria”, Quarterly lecture to pediatric residents at the Johns Hopkins Hospital
- 1992-2007 “Hypertension” Annual lecture to pediatric residents at the Johns Hopkins Hospital
- 1995-present “Acute Dialysis in the Pediatric Intensive Care Unit” 1995-present, Annual lecture to Pediatric Intensive Care Fellows, Johns Hopkins Hospital
- 1996-1997 “Pediatric End-Stage Renal Disease”- Lecture to Tissue Typing Laboratory Staff and Faculty, Pediatric Urology Conference, Pediatric Surgery Grand Rounds, Johns Hopkins Hospital
- 1999 “Adolescent Hypertension”- Lecture to Faculty and Fellows of the Adolescent Medicine Program, Johns Hopkins Hospital
- 2006-present “Glomerular Filtration Rate”- Quarterly lecture to pediatric housestaff from the Johns Hopkins Hospital and Sinai Hospital of Baltimore
- 2010-present “Pediatric Chronic Kidney Disease”. Lecture to second year medical students as part of Renal physiology section, Genes to Society Curriculum. Johns Hopkins University School of Medicine.

### **Clinical Instruction**

- 1994-present Inpatient Nephrology Service-Attending physician- supervision of pediatric residents covering inpatient nephrology service
- 1994-present Outpatient Nephrology Clinic- Attending physician-supervision of pediatric residents, pediatric nephrology fellows and adult nephrology fellows rotating on elective
- 1998-1999 Inpatient General Ward Service- 2 weeks/year , Attending physician-supervision of pediatric residents covering inpatient general pediatric service
- 1992-2002 Inpatient Teaching Attending- 2-4 weeks/year, Clinical instruction to medical students assigned to the inpatient pediatric clerkship.
- 2007-2010 Inpatient Teaching Attending, Clinical instruction to pediatric residents at Sinai Hospital

### **CME Instruction**

- 1994 Johns Hopkins Medical Institutions- Bayview Campus, Department of Pediatrics Grand Rounds. Lecture: Cystinosis-A Practical Review, Baltimore, MD
- April 1995 23<sup>rd</sup> Annual Pediatric Trends, Lecture: Indications for Biopsy in Patients with Nephrotic Syndrome, The Johns Hopkins University School of Medicine, Baltimore, MD
- January 1997 St. Agnes Hospital, Department of Pediatrics Grand Rounds, Lecture: Dialysis and Chronic Renal Failure, Baltimore, MD
- April 1997 25<sup>th</sup> Annual Pediatric Trends, Lecture: Proteinuria, The Johns Hopkins University School of Medicine, Baltimore, MD
- March 2000 The Society for Adolescent Medicine 2000 Annual Meeting, Lecturer and Session Moderator: Hypertension During Adolescence, Washington, DC
- February 2001 Johns Hopkins Bayview Medical Center, Department of Pediatric Ground Rounds, Lecture: Approach to Proteinuria in Pediatric Patients, Baltimore, MD
- April 2001 29<sup>th</sup> Annual Pediatric Trend, Lecture: Proteinuria, The Johns Hopkins University School of Medicine, Baltimore, MD

September 2001	Pediatrics for the Practitioner-Update 2001, Lecture: Evaluation and Management of Hypertension, The Johns Hopkins University School of Medicine, Baltimore, MD
February 2002	Pediatric Grand Rounds, Union Memorial Medical Center, Lecture: Proteinuria, Baltimore, MD
February 2002	The Johns Hopkins University School of Medicine Department of Pediatrics Grand Rounds, Lecture: Outcomes in Pediatric End-Stage Renal Disease: FK vs CSA as Primary Immunosuppression in Pediatric Renal Transplantation, Baltimore, MD
February 2002	Sinai Medical Center Department of Pediatrics Grand Rounds, Lecture: Proteinuria, Baltimore, MD
April 2003	31 <sup>st</sup> Annual Pediatric Trends, Lecture: Vaccine Recommendations for Children with CKD, The Johns Hopkins University School of Medicine, Baltimore, MD
September 2003	The Johns Hopkins University School of Medicine Pediatric Urology Grand Rounds, Lecture: Reflux Nephropathy, Baltimore, MD
September 2003	Pediatrics for the Practitioner-Update 2003, Lecture: Hypertension The Johns Hopkins University School of Medicine, Baltimore, MD
September 2004	Pediatrics for the Practitioner-Update 2004, Lecture: Proteinuria, The Johns Hopkins University School of Medicine, Baltimore, MD
December 2004	Topics in Nephrology, Johns Hopkins Bayview Medical Center Division of Renal Medicine, Lecture: Nephrotic Syndrome in Children, Baltimore, MD
September 2005	Pediatrics for the Practitioner-Update 2005, Lecture: Hypertension, The Johns Hopkins University School of Medicine, Baltimore, MD
March 2006	The Johns Hopkins University School of Medicine Department of Pediatrics Grand Rounds, Lecture: Special Issues in Pediatric Kidney Transplantation, Baltimore, MD
March 2006	The Children's Hospital at Sinai Grand Rounds, Lecture: Special Issues in Pediatric Kidney Transplantation, Baltimore, MD
May 2006	Johns Hopkins Bayview Medical Center Department of Pediatrics Grand Rounds, Lecture: Hypertension, Baltimore, MD



January 2007 Johns Hopkins University School of Medicine, Immunogenetics Laboratory Seminars, Lecture: Pediatric Kidney Transplantation, Baltimore, MD

April 2008 36<sup>th</sup> Annual Pediatric Trends, Pediatric Nephrology Session, Session Organizer and Moderator, The Johns Hopkins University School of Medicine, Baltimore, MD

April 2009 International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention, Plenary Session: Pediatric Kidney Transplantation: Update 2009, Manila, Philippines

April 2009 International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention Symposium: Clinical Outcomes in Pediatric Dialysis: Lessons Learned from Multicenter Registries, Manila, Philippines

April 2009 International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention Lecture: Updates in the Management of Pediatric CKD Patients, Management of Anemia in Pediatric CKD patients (Manila, Philippines)

October 2009 National Conference and Exhibition of the American Academy of Pediatrics, Lecture: Management of Urinary Infections: Management Controversies Faced by Primary Care Physician, Washington, DC

February 2010 The Children's Hospital at Sinai Grand Rounds, Lecture: Controversies in Management of Urinary Tract Infections. Baltimore, MD

January 2011 The Johns Hopkins University School of Medicine, Adolescent Medicine Grand Rounds: Proteinuria. Baltimore, MD

September 2011 Pediatrics for the Practitioner-Update 2011, Workshop: Hypertension, The Johns Hopkins University School of Medicine, Baltimore, MD

October 2014 Johns Hopkins Medicine Seminar for Adolescent Health: Chronic Kidney Disease in Adolescents  
The Johns Hopkins University School of Medicine, Baltimore, MD

December 2015 Emory University School of Medicine, Department of Pediatrics Grand Rounds: Expanding the borders of infection prevention: Results of the Standardizing Care to improve Outcomes in

Pediatric End stage renal disease (SCOPE) Collaborative

March 2016 Johns Hopkins University School of Medicine, Department of Pediatrics  
Grand Rounds: Expanding the borders of infection prevention: Results of  
the Standardizing Care to improve Outcomes in Pediatric End stage renal  
disease (SCOPE) Collaborative

**Mentoring**

Previous Pediatric Nephrology Fellows:

2001-2005 Jeffrey Fadrowski, MD, MHS  
Current position:  
Associate Professor of Pediatrics  
Johns Hopkins University  
Division of Pediatric Nephrology

2003- 2006 Sandra Amaral MD, MHS  
Current position:  
Assistant Professor of Pediatrics  
Emory University  
Division of Pediatric Nephrology

2003- 2006 Gregory Gorman MD, MHS  
Current position:  
Associate Professor, Uniformed Services  
University of the Health Sciences Staff  
Pediatric Nephrology, National Naval Medical Center

2004-2007 Meredith Atkinson MD, MHS  
Current position:  
Associate Professor of Pediatrics  
Johns Hopkins University  
Division of Pediatric Nephrology

2004-2008 Tammy Brady MD, MHS, PhD  
Current position:  
Associate Professor of Pediatrics  
Johns Hopkins University  
Division of Pediatric Nephrology

2010-2013 Erin Dahlinghaus, MD, MHS  
Current position:  
Assistant Professor of Pediatrics  
University of Maryland  
Division of Pediatric Nephrology

- 2012-2015 Darcy Weidemann, MD, MHS  
 Current Position:  
 Assistant Professor of Pediatrics  
 University of Missouri- Kansas City  
 Division of Pediatric Nephrology
- 2013-2016 Delphine Robotham, MD, MHS  
 Current Position:  
 Assistant Professor of Pediatrics  
 Feinberg School of Medicine  
 Ann and Robert H. Lurie Children's Hospital of Chicago  
 Division of Kidney Diseases
- 2015-present Kathleen Altemose, MD  
 2016-present Heather Wasik, MD

#### Training Grant Participation

- 2010-2013 Assistant Director, Renal Disease Epidemiology Training Program  
 National Research Training Award (T32) from the National Institute of  
 Diabetes and Digestive and Kidney Diseases  
 2010-present  
 Bloomberg School of Public Health  
 Department of Epidemiology

#### **Educational Program Building/Leadership**

- 2007-2010 Pediatric Renal Curriculum Development, Pediatric Residency, Sinai  
 Hospital of Baltimore  
 Developed and oversee pediatric nephrology curriculum for pediatric  
 residents at the Children's Hospital of Sinai. Provide competency-based  
 goals and objectives, core lectures, assist residents with preparation and  
 presentations for annual pediatric nephrology journal club and bi-annual  
 pediatric nephrology discharge conference, provide "bed-side" instruction  
 in pediatric nephrology by supervising residents in renal clinic at the Johns  
 Hopkins Hospital and on inpatients admitted to Sinai hospital.
- 2008-present Program Director, Pediatric Nephrology Fellowship  
 The Johns Hopkins University School of Medicine  
 Developed and implement measurable competency-based curriculum,  
 goals and objectives, policies and procedures required to maintain  
 certification by the ACGME. Oversee and mentor clinical and research  
 training for all fellows, monitoring progress to insure ability of fellows to  
 satisfy requirements established by the American Board of Pediatrics Sub-  
 board of Pediatric Nephrology.

2010-present Pediatric Renal Section/Renal Physiology Course: Genes to Society Curriculum  
The Johns Hopkins University School of Medicine  
Organized and participated in a morning session covering various pediatric nephro-urologic topics for second year medical students.

## **CLINICAL ACTIVITIES**

### **Certification**

#### **Medical License**

1991 - Maryland #D42428

### **Board Certifications**

1989 National Board of Medical Examiners

1991 American Board of Pediatrics, ID #219854  
Certificate #047411

1997 American Board of Pediatrics, ID #219854  
Re-certification

1998 American Board of Pediatrics, ID #219854  
Sub-board Pediatric Nephrology  
Certificate #000519

2005 American Board of Pediatrics, ID #219854  
Sub-board Pediatric Nephrology  
Re-certification

### **Service Responsibilities**

1994-present Inpatient Nephrology Service-Attending Physician, 22 weeks/year 1994-2004, 16 weeks/year 2004-2008, 14 weeks/year 2009-2010, 11 weeks/year, 2010-2015, 8weeks/year 2016-present.

1994-present Outpatient Nephrology Clinic- Attending Physician, 2 half-day clinics/week, 1994-2002, 1 half-day clinic/week, 2003-2006, 3 half-day clinics/month, 2007-present, 4 half-day clinics/month, 2010

1998-2003 Inpatient General Ward Service- Attending Physician, 2 weeks/year 1998-1999, 2003.

1999-2001 Inpatient General Ward Service- Teaching Physician, 2-4 weeks/year

- 2001-present Outpatient Hemodialysis Unit-Attending Physician, ½ day/week
- 2006-2015 Outpatient Pediatric Stone Clinic- Attending Physician, Medical Director,  
1 half-day clinic/every other month

### **Clinical Program Building/Leadership**

- 2000-present Clinical Director, Division of Pediatric Nephrology  
Responsible for development, implementation and monitoring of inpatient clinical services. Liaison to Adult Dialysis Services. Monitor clinical practice budget. Organization of weekly clinical practice conference.
- 2001-present Medical Director, Pediatric Dialysis and Kidney Transplant Program.  
Oversee outpatient pediatric peritoneal dialysis facility including development of quality assurance/quality improvement program and regulatory documentation required for maintenance of federal and state certification.  
Oversee pediatric kidney transplant services. Monitoring of clinical parameters and reporting to national databases, development of quality assurance/quality improvement program and regulatory documentation required to obtain certificate of participation from federal regulators. Representative to Mid-Atlantic Renal Coalition. Liaison to Tissue Typing Faculty. Liaison to Comprehensive Transplant Center. Development of nationally recognized high-risk pediatric kidney transplant programs (highly HLA sensitized, ABO-incompatible and FSGS)
- 2006-2015 Medical Director, Pediatric Stone Clinic.  
Founded and direct a novel, multi-disciplinary pediatric stone clinic. Increase recognition and appropriate referral of pediatric patients with kidney stones.

### **SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES**

#### **Publications**

1. CMS- Supplemental Report: A study of pediatric ( $\geq 12$  and  $< 18$  years old) in-center hemodialysis patients: Results from the 2000 End Stage Renal Disease (ESRD) Clinical Performance Measures Project, January 2001, CMS Website.  
**Authorship: First or second author. Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
2. 2001 Annual Report: ESRD Clinical Performance Measures Project. Department of Health and Human Services, January 2002, CMS Website.

- CMS-Longitudinal analysis of pediatric ( $\geq 12$  and  $< 18$  years old) in-center hemodialysis patients: Results from the 2001 End-Stage Renal Disease (ESRD) Clinical Performance Measures Project February 2002, CMS Website.  
**Authorship: First or second author of the pediatric section of the report.**  
**Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
3. CMS-Longitudinal analysis of pediatric ( $\geq 12$  and  $< 18$  years old) in-center hemodialysis patients: Results from the 2001 End-Stage Renal Disease (ESRD) Clinical Performance Measures Project February 2002, CMS Website. NOTE  
**Authorship: First or second author.** **Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis
  4. 2002 Annual Report: ESRD Clinical Performance Measures Project. Department of Health and Human Services, January 2003, CMS Website.  
**Authorship: First or second author of the pediatric section of the report.**  
**Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
  5. CMS- Results From The 2002 End Stage Renal Disease (ESRD) Clinical Performance Measures (CPM) Supplemental Questionnaire: Impact of Specialization of Primary Nephrologist on Care of Pediatric Hemodialysis Patients. 2002 ESRD Clinical Performance Measures Project. Department of Health and Human Services, The Centers for Medicare & Medicaid Services. (February 2003), CMS Website. **Authorship: First or second author.**  
**Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
  6. 2003 Annual Report: ESRD Clinical Performance Measures Project. Department of Health and Human Services, January 2004, CMS Website. **Authorship: First or second author of the pediatric section of the report.** **Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis
  7. 2004 Annual Report: ESRD Clinical Performance Measures Project. Department of Health and Human Services, May 2005, CMS Website. **Authorship: First or second author of the pediatric section of the report.** **Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis

8. 2005 Annual Report: ESRD Clinical Performance Measures. Department of Health and Human Services, May 2006, CMS Website. **Authorship: First or second author of the pediatric section of the report. Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
9. 2006 Annual Report: ESRD Clinical Performance Measures. Department of Health and Human Services, May 2007, CMS Website. **Authorship: First or second author of the pediatric section of the report. Justification:** Provided substantial contributions to the intellectual content in the areas of conception and design, analysis and interpretation of data, drafting of the manuscript and statistical analysis.
10. Warady BA, Bakkaloglu S, Newland J, Cantwell M, Verrina E, Neu A, Chadha V, Yap HK, Schaefer F. Consensus Guidelines for the Prevention and Treatment of Catheter-Related Infections and Peritonitis in Pediatric Patients Receiving Peritoneal Dialysis: 2012 Update. *Perit Dial Int.* 2012 Jun;32 Suppl 2:S32-86.
11. Neu AM, Miller MR, Stuart J, Lawlor J, Richardson T, Martz K, Rosenberg C, Newland J, McAfee N, Begin B, Warady BA. Design of the standardizing care to improve outcomes in pediatric end stage renal disease collaborative. *Pediatr Nephrol* Neu AM, Miller MR, Stuart J, Lawlor J, Richardson T, Martz K, Rosenberg C, Newland J, McAfee N, Begin B, Warady BA. Design of the standardizing care to improve outcomes in pediatric end stage renal disease collaborative. *Pediatr Nephrol* 2014; 29(9): 1477-1484
12. Neu AM, Richardson T, Lawlor J, Stuart J, McAfee N, Newland J, Warady BA. Implementation of standardized follow up care significantly reduces peritonitis in children on chronic peritoneal dialysis. *Kidney Int.* 2016; 89(6):1346-1354.
13. Sethna CB, Bryant K, Munshi R, Warady BA, Richardson T, Lawlor J, Newland JG, Neu A. Risk Factors for and Outcomes of Catheter-Associated Peritonitis in Children: The SCOPE Collaborative. *Clin J Am Soc Nephrol.* 2016; 11(9):1590-1596

**System Innovation and Quality Improvement efforts outside of JHM:**

- 2001-2007 **Member**, Forum of End-Stage Renal Disease Networks  
 End-Stage Renal Disease Clinical Performance Measures Project  
 Pediatric Advisory Committee  
 Committee was charged with evaluating and reporting intermediate outcomes in pediatric hemodialysis patients collected as part of CMS' ESRD Clinical Performance Measures Project. The goal of this project is to collect and report on the status of care of ESRD

patients, with the goal of improving that care. The committee developed the format for data collection. Once data was collected, the committee reviewed that data and prepared the pediatric section of the Annual Report of that data which was published on the CMS website.

- 2010 **Member**, Center for Medicare & Medicaid Services' ESRD Quality Measures Clinical Technical Expert Panel, Pediatric Anemia and Pediatric Adequacy (HD), Baltimore, MD  
Committee developed a series of clinical performance measures to be used to monitor the care of pediatric dialysis patients, with the goal of identifying areas for improvement in that care
- 2011 **Invited Participant**: National Meeting on Collaborative Improvement Networks in Children's Healthcare, Sponsored by the American Board of Pediatrics
- 2012-present **Member**, Alliance for Home Dialysis Accountability Working Group  
Working Group is charged with providing review of and comment on the development of appropriate quality measures for home dialysis
- 2013 **Member**, Center for Medicare & Medicaid Services' ESRD Quality Measures Clinical Technical Expert Panel, Preventative Care, Baltimore, MD  
Committee evaluated and developed recommendations for quality measure in preventative care in dialysis patients, including immunizations.

#### **Production of guidelines and/or protocols**

- 2000-present Johns Hopkins Harriet Lane Kidney Center  
Pediatric Peritoneal Dialysis and Kidney Transplant Protocols including Anemia Management, Peritonitis Management, Immunization, Transplant Evaluation and Immunosuppressive Protocols  
Role: Author  
Status: Implemented
- 2008 National Kidney Foundation Kidney Disease Outcomes Quality Initiative (KDOQI) Pediatric Nutrition Guidelines  
Role: Invited Expert Reviewer  
Status: Published/Implemented
- 2009 Kidney Disease Improving Global Outcomes (KDIGO) Clinical Practice Guideline for the Care of the Kidney Transplant Recipient  
Role: Invited Expert Reviewer  
Status: Published/Implemented



- 2009-2012 International Society of Peritoneal Dialysis (ISPD)  
Advisory Committee on Peritonitis Management in Pediatric Patients  
Role: Co-Author, Pediatric Peritonitis Treatment Guidelines  
Status: Published/Implemented
- 2011 Kidney Disease Improving Global Outcomes (KDIGO) Clinical Practice Guideline for Blood Pressure Management in CKD  
Role: Invited Expert Reviewer  
Status: Published/Implemented
- 2012 Kidney Disease Improving Global Outcomes (KDIGO) Clinical Practice Guideline for Anemia in CKD  
Role: Invited Expert Reviewer  
Status: Published/Implemented

### **System Innovation and Quality Improvement Program Building/Leadership**

- 2000-present Johns Hopkins Harriet Lane Kidney Center Pediatric Dialysis and Kidney Transplant Program Quality Assurance and Improvement Program  
Formal multidisciplinary quality assurance and improvement program for the pediatric dialysis and transplant programs in which intermediate outcomes and process measures are monitored monthly, with comparison benchmarking data from a national cohort of pediatric chronic kidney disease patients. The quality assurance and improvement programs are regularly reviewed by state and federal surveyors and have successfully shepherded the dialysis and transplant programs through several state and federal certifications, and supported the transplant program's application for the Center for Medicare & Medicaid Services' Certificate of Participation. The programs have allowed for significant improvements in several clinical outcomes including the recognition and correction of anemia, bone and mineral metabolism disorder and peritoneal dialysis-related peritonitis.  
**Role:** Developed and implemented the program and continue to lead the program's multidisciplinary teams
- 2009- present The North American Pediatric Renal Trials and Collaborative Studies Benchmarking Project  
The project harnesses the power of a national registry of more than 20,000 children with chronic kidney disease, including those on dialysis and status post kidney transplant, to provides center-specific process outcome measures compared to benchmarking data from a national cohort.  
**Role:** Chair, Benchmarking Development Committee  
**Role:** President, NAPRTCS 2015-present

- 2009-present The Children's Hospital Association (formerly NACHRI) SCOPE (Standardizing Care to improve Outcomes in Pediatric End-stage kidney disease) Collaborative  
 National collaborative project to improve outcomes in pediatric dialysis patients. This collaborative, launched in June 2011, has 41 participating pediatric nephrology centers from around the country. A link to the Association's website describing this collaborative is provided: [http://www.childrenshospitals.net/AM/Template.cfm?Section=Nephrology\\_Peritonitis](http://www.childrenshospitals.net/AM/Template.cfm?Section=Nephrology_Peritonitis)  
**Role:** Chair, Pediatric Nephrology Quality Improvement/Quality Assurance Program Protocol Development Committee: lead team of prominent pediatric nephrologists to develop the concept for this quality improvement project which was then presented to NACHRI for further development and implementation  
**Role:** Collaborative Core Faculty: As one of four core faculty, responsibilities have included development/selection of care bundles that represent peritoneal dialysis catheter best practices, development of data collection tools to monitor implementation of those practices and selection of appropriate quality measures to evaluate the impact of adherence with best practices on outcomes. Ongoing responsibilities include ongoing data analysis and project management, leading semi-annual face-to-face workshops and monthly webinars.
- 2015-present Improving Renal Outcomes Collaborative (IROC)  
 National quality improvement/learning health system aimed at improving outcomes in pediatric kidney transplant recipients  
**Role:** Member, Quality Improvement Workgroup
- 2016-present Nephrologist Transforming Dialysis Safety (NTDS)  
 National effort developed through a partnership between the American Society of Nephrology and the Centers for Disease Control (CDC) aimed at promoting infection prevention in dialysis units.  
**Role:** Member, Emerging Infections Workgroup

## **ORGANIZATIONAL ACTIVITIES**

### **Institutional Administrative Appointments**

- |           |  |
|-----------|--|
| 1997-1998 | Pediatric Computer Oversight Committee                         |
| 1998-1999 | Research Committee-Comprehensive Transplant Center             |
| 1998-2005 | Pediatric Clinical Practice Finance Committee                  |
| 2000-2004 | Board of Governors, Department of Pediatrics Clinical Practice |

	Association
2001-2004	Chairman, Pediatric Clinical Practice Finance Committee
2004	Member, Search Committee- Division Chief, Pediatric Allergy and Immunology
2005-2008	POE Orderset Review Committee
2005-2008	Pediatric Orderset Workgroup, POE
2007-present	Member, Medical School Renal Curriculum Development Committee
2007-2009	Board of Governors, Pediatric Clinical Practice Association
2009-2015	Co-Chair, Department of Pediatrics Professional Practice Evaluation Committee
2013-present	Member, Johns Hopkins Hospital Managed Care Advisory Group

## **Editorial Activities**

### **Editorial Board**

Clinical Journal of the American Society of Nephrology 2011-present

Advances in Chronic Kidney Disease 2011-present

### **Journal Peer Review Activities**

Archives of Pediatrics & Adolescent Medicine 1996-present

Pediatric Nephrology 1997-present

American Journal of Kidney Disease 1998-present

Pediatric Transplantation 1998-present

Urology 1999-present

Peritoneal Dialysis International 2001-present

Journal of the American Society of Nephrology 2009-present

American Journal of Transplantation 2010-present

## **Professional Societies**

1991-present	National Kidney Foundation
1993-present	American Society of Nephrology
1993-present	International Pediatric Nephrology Association
1998-present	American Society of Pediatric Nephrology
2002-present	International Pediatric Transplant Association
2004-2015	American Society of Transplantation
2006-2013	Fellow, American Academy of Pediatrics
2007-present	International Society for Peritoneal Dialysis
2008-present	International Society of Nephrology

## **National Affiliations and Organizations/Committees/Positions Held/Subcommittees**

1995-2000	Peritoneal Dialysis Study Consortium Center Principal Investigation
	North American Pediatric Renal Trials and Collaborative Studies (Formerly, North American Pediatric Renal Transplant Cooperative Study)
1995-present	Center Investigator
1997-2003	Elected Member-Special Studies Committee
2006-present	Elected Member- Participating Centers Committee
2007-present	Selected Member-Nominating Committee
2008-present	Chair, Special Studies Committee
2008-present	Vice-chair, Participating Centers Committee
2008-present	Board of Directors
2008-present	Chair, Benchmarking Development Committee
2015-present	President
1999-2015	Council of Pediatric Nephrology of the National Kidney Foundation of New York/New Jersey
	National Kidney Foundation/ Maryland
1998-present	Member Medical Advisory Board
2000-2005	Medical Advisory Board Leadership Team
2003-2007	Chairman, Medical Advisory Board Pediatric Sub-committee

1997-2004	Southwest Pediatric Nephrology Study Group
	American Society of Pediatric Nephrology
2002-present	Member
2002-2006	Clinical Affairs Committee
2006-present	Practice Management Task Force
2008-present	Training and Certification Committee
2008-present	Program Directors Subcommittee
2008-2011	Career Development Subcommittee
2010-2012	Chair, Clinical Affairs Committee
2010-2016	Councilor
	American Society of Transplantation
2004-2015	Member
2007-2013	Executive Committee, Pediatric Community of Practice
2008-2011	Member, Pediatric Transplant Program Credentialing Committee
2009-2011	Chair, Executive Committee, Pediatric Community of Practice
2011-2013	Immediate Past-Chair, Executive Committee, Pediatric Community of Practice
2009-2011	Member, Nominating Committee
2011-2015	Member, American Transplant Congress Program Planning Committee
	American Board of Pediatrics
2006-2011	Pediatric Nephrology Subboard
2008-2011	Member, Credentials Committee
2010-2011	Chair, Credentials Committee
2016-present	Co-Medical Editor, Pediatric Nephrology Subboard
	International Pediatric Peritoneal Dialysis Network
2006-2007	Steering Committee/Scientific Advisory Group
2006-present	Center- Principal Investigator
2006-2009	Member, Pediatric Stone and Bone Club
	American Academy of Pediatrics
2006-2013	Member, Section on Nephrology
2008-2012	Executive Committee, Section on Nephrology
2009-2012	Pediatric Nephrology Representative, Council of Pediatric Subspecialties
	Association of Pediatric Program Directors
2008-present	Member

2013-present	International Pediatric Nephrology Association Councilor
2015-present	Member, The Accreditation Council for Graduate Medical Education (ACGME) Pediatric Nephrology Appeals Panel
2015-present	Academic Pediatric Society
2016-present	Co-Medical Editor, the American Board of Pediatrics Pediatric Nephrology Subboard
National and International Conference Organizer/Abstract Reviewer/Session Chair	
2002	Session Chair: Thirteenth Annual Symposium on Pediatric Dialysis, Session V. At the 22 <sup>nd</sup> Annual Conference on Peritoneal Dialysis, Tampa, Florida
2003-2004	Pediatric Planning Committee, Annual Dialysis Conference, San Antonio, Texas
2005	Co-Chairman, Issues in Pediatric Kidney Transplantation Focus Group, Chicago, Illinois
2006-2008	Scientific Advisory Group/Program Planning Committee- International Consensus Conference Non-Adherence in Transplant Patients, Tampa FL
2006	American Transplant Congress 2007 Abstract Review Committee
2007	Session Chair: Pediatric Nephrology in Non-Kidney Organ Transplantation Pediatric Academic Societies' 2007 Annual Meeting. American Society of Pediatric Nephrology Symposium, Toronto, Canada
2007	Session Chair: Infectious Complications After Renal Transplant Pediatric Academic Societies' 2007 Annual Meeting. Pediatric Academic Societies/American Society of Pediatric Nephrology/Pediatric Infectious Diseases Society Symposium, Toronto, Canada
2007	American Society of Nephrology 2008 Annual Meeting Abstract Review Committee
2007	American Transplant Congress 2008 Abstract Review Committee

2008 Conference Organizer  
International Non-adherence Consensus Conference  
Tampa, FL

2008 Session Chair: Kt/V Is Dead. 28<sup>th</sup> Annual Dialysis Conference.  
Orlando FL

2008 American Transplant Congress 2009  
Abstract Review Committee

2009-2010 Pediatric Planning Committee, Annual Dialysis Conference,  
Seattle, WA

2009 American Society of Nephrology 2009 Annual Meeting  
Abstract Review Committee

2010 American Society of Nephrology 2010 Annual Meeting  
Program Planning Committee

2010 Session Chair: Symposium on Cardiovascular Disease in Pediatric  
Dialysis Patients. 30<sup>th</sup> Annual Dialysis Conference. Seattle, WA

2010 American Transplant Congress 2010  
Abstract Review Committee

2010 Pediatric Planning Committee, Annual Dialysis Conference,  
Phoenix, AZ, 2011

2011 American Transplant Congress 2011  
Abstract Review Committee

2011 International Pediatric Transplant Association 6<sup>th</sup> Congress on  
Pediatric Transplantation  
Abstract Review Committee

2011 Session Chair: Symposium on Vascular Access in Children. 31<sup>st</sup>  
Annual Dialysis Conference. Phoenix, AZ

2011 Pediatric Planning Committee, Annual Dialysis Conference 2012

2011 Program Planning Committee, American Transplant Congress  
2012

2011 Abstract Reviewer: 32<sup>nd</sup> Annual Dialysis Conference, San  
Antonio, TX

- 2011                    Session Chair: The Legacies of Childhood Kidney Disease in Adulthood. American Society of Nephrology 44th Annual Meeting, Philadelphia, PA
- 2012                    Session Chair: Nutrition Guidelines for Children on Dialysis and Growth and Growth Hormone Therapy. The Fundamentals of Dialysis in Children. 32<sup>nd</sup> Annual Dialysis Conference, San Antonio, TX
- 2012                    Session Chair: Pediatric Dialysis Physician's (USA) Roundtable: Billing Documentation- the Rules of the Road. 32<sup>nd</sup> Annual Dialysis Conference, San Antonio, TX
- 2012                    Program Planning Committee, American Transplant Congress 2013
- 2012                    Program Planning Committee, Annual Dialysis Conference 2013
- 2012                    Abstract Reviewer: 33<sup>rd</sup> Annual Dialysis Conference, Seattle, WA
- 2013                    Session Chair: Session V, The Fundamentals of Dialysis in Children. 33<sup>rd</sup> Annual Dialysis Conference , Seattle, WA
- 2013                    Session Chair: Hot Topics, 33<sup>rd</sup> Annual Dialysis Conference, Seattle, WA
- 2013                    Program Planning Committee, Annual Dialysis Conference 2014
- 2013                    Session Chair: Pathogenesis and Management Insights in Pediatric Nephrology. American Society of Nephrology Kidney Week 2013, Atlanta, GA
- 2014                    Session Chair: Session IV, The Fundamentals of Dialysis in Children. 34<sup>th</sup> Annual Dialysis Conference, Atlanta, GA
- 2014                    Session Chair: Clinical Challenges in Pediatric Dialysis: Case-Based Presentations. 34<sup>th</sup> Annual Dialysis Conference, Atlanta, GA
- 2014                    Session Chair: Stop Poisoning Our Patients! 34<sup>th</sup> Annual Dialysis Conference, Atlanta, GA
- 2014                    Program Planning Committee, Annual Dialysis Conference, 2015
- 2014                    Program Planning Committee, American Transplant Congress,



2015

2015 Session Chair: Session IV, The Fundamentals of Dialysis in Children. 35<sup>th</sup> Annual Dialysis Conference, New Orleans, LA

2015 Session Chair: Symposium: The “Un-transplantable” Dialysis Patient, 35<sup>th</sup> Annual Dialysis Conference, New Orleans, LA

2016 Session Chair: Session V. The Fundamentals of Dialysis in Children. 36<sup>th</sup> Annual Dialysis Conference, Seattle, WA

## **RECOGNITION**

### **Honors**

1984 Summa Cum Laude, Marquette University

1987 Alpha Omega Alpha, University of Virginia School of Medicine

1988 Finalist, C. Richard Bowman Scholarship Award, University of Virginia School of Medicine

1988 Raven Society, University of Virginia School of Medicine

1988 Janet M. Glasgow Memorial Achievement Citation, University of Virginia School of Medicine

1988 Lange Medical Publications Award for Outstanding Achievement as a Medical Student, University of Virginia School of Medicine

1988 Shannon Award of the Z Society for Contributions to Academic Excellence, University of Virginia School of Medicine

1992 Harriet Lane Research Fellowship Award

1993 Stetler Research Award For Women Physicians

2000 Best Clinical Abstract, Research Day 2000  
Comprehensive Transplant Center  
Johns Hopkins Hospital

2006 Elected Member, American Board of Pediatrics

### Sub-board of Pediatric Nephrology

- 2006 Fellow, American Academy of Pediatrics
- 2007 Senior Author Article included in “Top Ten Articles in Pediatric Dialysis in 2007”, Annual Dialysis Conference, Orlando, FL
- 2007 Elected Member, Executive Committee  
American Society of Transplantation, Pediatric Community of Practice
- 2008 Elected Member, Board of Directors,  
North American Pediatric Renal Trials and Collaborative Studies
- 2008 Elected Member, Executive Committee  
American Academy of Pediatrics, Section on Nephrology
- 2008 Elected Representative- Pediatric Nephrology, Council of Pediatric Subspecialties
- 2009 Visiting Professor, Philippine Pediatric Society of Nephrology,  
Manila, Philippines
- 2009 Visiting Professor, International Training Program for  
Children’s Care in Nephrology, Shanghai, China
- 2010 Elected Member, Council of the American Society of Pediatric  
Nephrology
- 2014 Elected Member, Council of the International Pediatric  
Nephrology Association
- 2015 President, The North American Pediatric Renal Trials and  
Collaborative Studies
- 2015 Visiting Professor, Emory University Department of Pediatrics,  
Children’s Hospital of Atlanta
- 2016 Elected Member, Academic Pediatric Society

### **National/International Invited Talks/Panels**

- 1994 Invited Lecture: Current Approach to Peritoneal Access in North American Children - A report of the Pediatric Peritoneal Dialysis Study, 14<sup>th</sup> Annual Conference on Peritoneal Dialysis

(Baltimore, Maryland)

- 1997 Invited Lecture: Effect of Parental Donor Sex on Rejection in Pediatric Renal Transplantation,  
North American Pediatric Renal Transplant Cooperative Study Annual Meeting  
(Chicago, Illinois)
- 1998 Invited Lecture: Is MMF Worth the Cost?  
Third International Congress on Pediatric Transplantation  
(Boston, Massachusetts) (presented in absentia by Dr. Mark Benfield)
- 2001 Invited Lecture: Dialysis: 2001 Annual Report  
North American Pediatric Renal Transplant Cooperative Study Annual Meeting  
(Tampa, Florida)
- 2002 Invited Lecture: Update on Recommendations for Immunizations in Children with  
ESRD  
13th Annual Symposium on Pediatric Dialysis at the 22<sup>nd</sup> Annual Conference on  
Peritoneal Dialysis  
(Tampa, Florida)
- 2002 Panel Member: Case Studies of Neonates with ESRD: Symposium on the  
Neonate with ESRD  
13th Annual Symposium on Pediatric Dialysis at the 22<sup>nd</sup> Annual Conference on  
Peritoneal Dialysis  
(Tampa, Florida)
- 2002 Invited Lecture: FK506 in Pediatric Renal Transplantation. University of  
Virginia School of Medicine Renal Rounds  
(Charlottesville, Virginia)
- 2002 Invited Lecture: Update on Immunizations in Pediatric Dialysis Patients.  
University of Virginia School of Medicine, Pediatric Renal Conference  
(Charlottesville, Virginia)
- 2002 Invited Lecture: Immunosuppression in the Pediatric Kidney Transplant Recipient  
Transplant Coordinators Advisory Board and Symposium  
(Chicago, Illinois)
- 2003 Invited Participant and Lecture: HLA Sensitization in Pediatric Kidney  
Transplantation  
Clinical Studies in Pediatric Organ Transplantation: Defining Priorities and  
Feasibility  
(Bethesda, Maryland)

- 2004 Invited Lecture: Infectious Complications of Dialysis  
Fundamentals of Dialysis in Children  
Annual Dialysis Conference  
(San Antonio, Texas)
- 2004 Invited Lecture: Infection Control in the Pediatric Dialysis Unit in the Era of  
HIV-ADIS, SARS and VRE  
Fifteenth Annual Symposium on Pediatric Dialysis at the Annual Dialysis  
Conference  
(San Antonio, Texas)
- 2006 Invited Lecture: Provider-Identified Non-Adherence in Graft Failure: A Report of  
the NAPRTCS  
Annual Meeting of the North American Pediatric Renal Transplant Cooperative  
Study  
(Las Vegas, Nevada)
- 2006 Panel Member: Parents with children with Vasculitis and Pediatric Patients. 2006  
Wegener's and Vasculitis Symposium  
(Baltimore, Maryland)
- 2006 Invited Participant: NIDDK 2006 Urolithiasis Symposium  
(Baltimore, Maryland)
- 2007 Invited Lecture: Clinical Outcomes in Pediatric Dialysis and Kidney  
Transplantation.  
Department of Pediatrics Grand Rounds  
New York Presbyterian Hospital  
Weill Cornell Medical Center  
(New York, New York)
- 2007 Invited Lecture: Clinical Measures of Adequacy of Dialysis in Children: Linking  
Reimbursement of Care with Quality of Care  
Pediatric Academic Societies' 2007 Annual Meeting. American Society of  
Pediatric Nephrology Workshop  
(Toronto, Canada)
- 2007 Invited Lecture: Scope of the Problem: Non-renal Allograft Associated  
Nephropathy  
Pediatric Academic Societies' 2007 Annual Meeting. American Society of  
Pediatric Nephrology/American Society of Transplantation Symposium  
(Toronto, Canada)
- 2008 Invited Lecture: Peritoneal Dialysis Prescription and Adequacy Monitoring. The  
Fundamentals of Dialysis in Children, 28<sup>th</sup> Annual Dialysis Conference.  
(Orlando, Florida)

- 2008 Panel Member: Fellows' Case Conference: Stump the Consultants. The Fundamentals of Dialysis in Children, 28<sup>th</sup> Annual Dialysis Conference. (Orlando, Florida)
- 2008 Invited Lecture: Peritoneal Dialysis Prescription and Adequacy Monitoring. The Fundamentals of Dialysis in Children, 28<sup>th</sup> Annual Dialysis Conference. (Orlando, Florida)
- 2008 Invited Lecture: Current Immunization Guidelines for Children with CKD and on Dialysis. 28<sup>th</sup> Annual Dialysis Conference. (Orlando, Florida)
- 2008 Invited Lecture: CKD Registry Report. NAPRTCS 2008 Annual Meeting. (New Orleans, Louisiana)
- 2008 Invited Lecture: Adherence to Treatments for ESRD: Proceedings of AST Consensus Conference. NAPRTCS 2008 Annual Meeting. (New Orleans, Louisiana)
- 2009 Invited Plenary Lecture: Pediatric Kidney Transplantation: Update 2009, International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention. (Manila, Philippines)
- 2009 Invited Lecture: Clinical Outcomes in Pediatric Dialysis: Lessons Learned from Multicenter Registries. International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention (Manila, Philippines)
- 2009 Invited Lecture: Updates in the Management of Pediatric CKD Patients, Management of Anemia in Pediatric CKD patients, International Society of Nephrology / Philippine Society of Nephrology 29<sup>th</sup> Annual Convention, (Manila, Philippines)
- 2009 Invited Lecture: Management of Urinary Infections: Management Controversies Faced by Primary Care Physician. National Conference and Exhibition of the American Academy of Pediatrics (Washington, DC)
- 2009 Visiting Professorship, International Training Program for Children's Care in Nephrology (Shanghai, China)
- 2010 Invited Lecture: PD Prescription and Adequacy. The Fundamentals of Dialysis in Children, 30<sup>th</sup> Annual Dialysis Conference. (Seattle, WA)
- 2010 Invited Lecture: Making Quality Assessment and Performance Improvement Work in the Dialysis Program . 30<sup>th</sup> Annual Dialysis Conference (Seattle, WA)
- 2010 Invited Lecture: Centers for Medicare & Medicaid Services' Clinical Performance

- Measures Project . 30<sup>th</sup> Annual Dialysis Conference (Seattle, WA)
- 2010 Panel Member: Transplanting the Highly Sensitized Dialysis Patient: Current Pediatric Approaches to Desensitization. 30<sup>th</sup> Annual Dialysis Conference (Seattle, WA)
- 2010 Invited Participant: Invitational Conference on Subspecialty Clinical Training and Certification. American Board of Pediatrics Foundation. (Chapel Hill, NC)
- 2011 Invited Lecture: Bundling Practice to Improve Peritonitis Rates: A QAPI Project. 31<sup>st</sup> Annual Dialysis Conference (Phoenix, AZ)
- 2011 Invited Lecture: Vitamin Ds: Who, When, and Why? 31<sup>st</sup> Annual Dialysis Conference (Phoenix, AZ)
- 2012 Invited Lecture: Renal Bone Disease. The Fundamentals of Dialysis in Children. 32<sup>nd</sup> Annual Dialysis Conference (San Antonio, TX)
- 2012 Invited Lecture: Quality Assurance in Pediatric Nephrology: What you NEED to Know. Pediatric Academic Societies Annual Meeting (Boston, MA)
- 2013 Invited Lecture: Renal Bone Disease. The Fundamentals of Dialysis in Children. 33<sup>rd</sup> Annual Dialysis Conference (Seattle, WA)
- 2013 Invited Lecture: NACHRI-CHA. 33<sup>rd</sup> Annual Dialysis Conference (Seattle, WA)
- 2014 Invited Lecture: Major Infectious Complications Seen in Children on Dialysis. The Fundamentals of Dialysis in Children. 34<sup>th</sup> Annual Dialysis Conference (Atlanta, GA)
- 2014 Invited Lecture: Deciphering CKD-MBD. 34<sup>th</sup> Annual Dialysis Conference (Atlanta, GA)
- 2015 Invited Lecture: Major Infectious Complications Seen in Children on Dialysis. The Fundamentals of Dialysis in Children. 35<sup>th</sup> Annual Dialysis Conference (New Orleans, LA)
- 2015 Visiting Professor, Emory University School of Medicine: Expanding the borders of infection prevention: Results of the Standardizing Care to improve Outcomes in Pediatric End stage renal disease (SCOPE) Collaborative (Atlanta, GA)
- 2016 Invited Lecture: SCOPE Collaborative Update. 36<sup>th</sup> Annual Dialysis Conference (Seattle, WA)
- 2016 Invited Lecture: Johns Hopkins University School of Medicine, Department of Pediatrics Grand Rounds: Expanding the borders of infection prevention: Results

of the Standardizing Care to improve Outcomes in Pediatric End stage renal disease (SCOPE) Collaborative