

CKiD PUBLICATIONS

2020 Publications N=23

Atkinson MA, Ng DK, Warady BA, Furth SL, Flynn JT. The CKiD Study: Overview and summary of findings related to kidney disease progression. *Pediatr Nephrol* 2020 Feb 3 [Epub ahead of print]. PMID: PMC7396280

Atkinson MA, Roem JL, Gajjar A, Warady BA, Furth SL, Muñoz A. Mode of initial renal replacement therapy and transplant outcomes in the chronic kidney disease in children (CKiD) study. *Pediatr Nephrol* 2020;35:1015-1021. PMID: PMC7278892

Beara-Lasic L, Cogal A, Mara K, Enders F, Mehta RA, Haskic Z, Furth SL, Trachtman H, Scheinman SJ, Miliner DS, Goldfarb DS, Harris PC, Lieske JC. Prevalence of low molecular weight proteinuria and Dent disease 1 CLCN5 mutations in proteinuric cohorts. *Pediatr Nephrol* 2020;35:633-640. PMID: PMC6736764

Brady TM, Roem J, Cox C, Schneider MF, Wilson A, Furth S, Warady B, Mitsnefes M. Adiposity, Sex, and Cardiovascular Disease Risk in Children with CKD: A longitudinal study of youth enrolled in the CKiD (Chronic Kidney Disease in Children) study. *Am J Kidney Dis* 2020;76:166-173. PMID: PMC7387195

Brown DD, Roem J, Ng DK, Reidy KJ, Kumar J, Abramowitz MK, Mak RH, Furth SL, Schwartz GJ, Warady BA, Kaskel FJ, Melamed ML. Low serum bicarbonate and CKD progression. *Clin J Am Soc Nephrol* 2020;15:755-765. PMID: PMC7274283

Carlson J, Gerson AC, Matheson MB, Manne S, Warady BA, Hooper SR, Lande M, Harshman LA, Johnson RJ, Shinnar S, Kogon AJ, Furth S. A longitudinal analysis of the effect of anemia on health-related quality of life in children with mild-to-moderate chronic kidney disease. *Pediatr Nephrol*. 2020;35:1659-1667. PMID: 32333284

Greenberg JH, Abraham AG, Xu Y, Schelling JR, Feldman HI, Sabbisetti VS, Gonzalez MC, Coca S, Schrauben SJ, Waikar SS, Ramachandran VS, Shlipak MG, Warady B, Kimmel PL, Bonentre JV, Denburg M, Parikh CR, Furth S. Plasma biomarkers of tubular injury and inflammation are associated with chronic kidney disease progression in children. *J Am Soc Nephrol* 2020;31:1067-1077. PMID: PMC7217410

Harshman LA, Kogon AJ, Matheson MB, Johnson RJ, Shinnar S, Gerson AC, Warady BA, Furth SL, Hooper SR, Lande MB. Bicarbonate, blood pressure, and executive function in pediatric CKD. *Pediatr Nephrol*. 2020;35:1323-1330. PMID: 32297000.

Hogan J, Schneider MF, Pai R, Denburg MR, Kogon A, Brooks ER, Kaskel FJ, Reidy KJ, Warady BA, Furth SL, Patzer RE, Greenbaum LA. Grip strength in children with chronic kidney disease. *Pediatr Nephrol* 2020;35:89-899. PMID: PMC7313477

Jacobson MH, Liu M, Wu Y, Furth S, Warady B, Trachtman H, Trasande L. Oxidant stress and renal function among children with chronic kidney disease: a repeated measures study. *Sci Rep* 2020;21:3129. PMID: PMC7035390

Johnson RJ, Gerson AC, Harshman L, Matheson MB, Shinnar S, Lande MB, Kogon A, Gipson DS, Warady BA, Furth SL, Hooper SR. A longitudinal examination of parent-

reported emotional-behavioral functioning of children with mild to moderate chronic kidney disease. 2020;35:1287-1295. PMID: 32157444.

Kim HS, Ng DK, Matheson MB, Atkinson MA, Warady BA, Furth SL, Ruebner RL. Delayed menarche in girls with chronic kidney disease and the association with short stature. *Pediatr Nephrol*. 2020;35:1471-1475. PMID: 32337637.

Kupferman JC, Matheson MB, Lande MB, Flynn JT, Furth S, Warady BA, Hooper SR. Increased history of ischemic stroke and decreased neurocognitive performance in children with chronic kidney disease. *Pediatr Nephrol* 2020;35:1315-1321. PMID: 32095895

Lee J, McCulloch CE, Flynn JT, Samuels J, Warady BA, Furth SL, Seth D, Grimes BA, Mitsniefes MM, Ku E. Prognostic value of ambulatory blood pressure load in pediatric CKD. *Clin J Am Soc Nephrol* 2020;15:493-500. PMCID: PMC7133128

Madueme P, Ng DK, Guju L, Longshore L, Moore V, Jefferies L, Warady BA, Furth S, Mitsniefes M. Aortic dilatation in children with mild to moderate chronic kidney disease. *Pediatr Nephrol* 2020;35:1023-1031. PMCID: PMC7289161

Ng DK, Antiporta DA, Matheson MB, Muñoz A. Nonparametric assessment of differences between competing risks hazard ratios: application to racial differences in pediatric chronic kidney disease progression. *Clinical Epidemiology* 2020 Jan 20;12:83-93. PMCID: PMC6980854

Ng DK, Levey AS, Shlipak MG, Muñoz A, Inker LA, Shafi T. Validation of a simple equation for glomerular filtration rate measurement based on plasma iohexol disappearance. *Clinical Kidney Journal* 2020;13:397-401.

Ng DK, Xu Y, Hogan J, Saland JM, Greenbaum LA, Furth SL, Warady BA, Wong CS. Timing of patient-reported renal replacement therapy planning discussions by disease severity among children and young adults with chronic kidney disease. *Pediatr Nephrol* 2020 May 3 [Epub ahead of print]. PMID: 32363486

Reynolds BC, Roem JL, Ng DK, Matsuda-Abedini M, Flynn JT, Furth SL, Warady BA, Parekh RS. Time-varying blood pressure associated with chronic kidney disease progression in children. *JAMA Network Open* 2020 5;3(2):e1921213. PMCID: PMC7236873

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Schneider MF, Muñoz A, Ku E, Warady BA, Furth SL, Schwartz GJ. Estimation of albumin-creatinine ratio from protein-creatinine ratio in urine of children and adolescents with CKD. *Am J Kidney Dis* 2020; accepted for publication

Weidemann DK, Abraham AG, Roem JL, Furth SL, Warady BA. Plasma soluble urokinase plasminogen activator receptor (suPAR) and CKD progression in children. *Am J Kidney Dis* 2020;76:194-202. PMCID: PMC7374047

Wilson AC, Flynn JT. Blood pressure in children with chronic kidney disease: lessons learned from the Chronic Kidney Disease in Children Cohort Study. *Pediatr Nephrol* 2020;35:1203-1209. PMID: 31396711 PMCID: PMC7007321

2019 Publications N=12

Atkinson MA, Xiao R, Köttgen A, Wühl E, Wong CS, Wuttke M, Bayazit AK, Çalışkan S, Warady BA, Schaefer F, Furth SL. Genetic associations of hemoglobin in children with chronic kidney disease in the PediGFR Consortium. *Pediatr Res* 2019;85:324-328. PMCID: PMC6377354

Brooks ER, Lin DA, Langman CB, Thompson JW, St. John-Williams L, Furth SL, Warady B, Haymond S. Metabolomic patterns in adolescents with mild to moderate CKD. *Kidney International Reports* 2019;4:720-723. PMCID: PMC6506724

Harshman LA, Johnson RJ, Matheson MB, Kogon AJ, Shinnar S, Gerson AC, Warady BA, Furth SL, Hooper SR. Academic achievement in children with chronic kidney disease: a report from the CKiD cohort. *Pediatr Nephrol* 2019;34:389-696. PMCID: PMC6453537

Li Y, Greenbaum LA, Warady BA, Furth SL, Ng DK. Short stature in advanced CKD is associated with faster time to reduced kidney function. *Pediatr Nephrol* 2019;34:897-905. PMCID: PMC6424594

Ng DK, Matheson MB, Warady BA, Mendley SR, Furth SF, Muñoz A. Incidence of initial renal replacement therapy over the course of kidney disease in children. *Am J Epidemiol* 2019;188:2156-2164. PMCID: PMC7036655

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Saland JM, Kupferman JC, Pierce CB, Flynn JT, Mitsnefes MM, Warady BA, Furth SL. Change in dyslipidemia with declining glomerular filtration rate and increasing proteinuria in children with CKD. *Clin J Am Soc Nephrol* 2019;14:1711-1718. PMCID: PMC6895497

Sethna C, Ng DK, Jiang S, Saland J, Furth S, Warady B, Meyers K. Cardiovascular disease risk among children with focal segmental glomerulosclerosis: A report from the Chronic Kidney Disease in Children Study. *Pediatr Nephrol* 2019;34:1403-1412. PMCID: PMC6594397

Sgambat K, Matheson M, Hooper S, Furth S, Warady B, Moudgil A. Prevalence and outcomes of frailty: a frailty-inflammation phenotype in children with chronic kidney disease. *Pediatr Nephrol*. 2019;34:3563-2569. PMCID: PMC6819247

Staples A, Wong C, Schwartz GJ. Iohexol-measured glomerular filtration rate in children and adolescents with chronic kidney disease: a pilot study comparing venous and finger stick methods. *Pediatr Nephrol* 2019;34:459-464. PMCID: PMC6581035

Verbitsky M, Westland R, Perez A, Kiryluk K, Liu Q, Krithivasan P, Mitrotti A, Fasel DA, Batourina E, Sampson MG, Bodria M, Werth M, Kao C, Martino J, Capone VP, V A, Shril S, Kil BH, Marasà M, Zhang JY, Na YJ, Lim TY, Ahram D, Weng PL, Heinzen EL,

Carrea A, Piaggio G, Gesualdo L, Manca V, Masnata G, Gigante M, Cusi D, Izzi C, Scolari F, van Wijk JAE, Saraga M, Santoro D, Conti G, Zamboli P, White H, Drozd D, Zachwieja K, Miklaszewska M, Tkaczyk M, Tomczyk D, Krakowska A, Sikora P, Jarmoliński T, Borszewska-Kornacka MK, Pawluch R, Szczepanska M, Adamczyk P, Mizerska-Wasiak M, Krzemien G, Szmigielska A, Zaniew M, Dobson MG, Darlow JM, Puri P, Barton DE, Furth SL, Warady BA, Gucev Z, Lozanovski VJ, Tasic V, Pisani I, Allegri L, Rodas LM, Campistol JM, Jeanpierre C, Alam S, Casale P, Wong CS, Lin F, Miranda DM, Oliveira EA, Simões-E-Silva AC, Barasch JM, Levy B, Wu N, Hildebrandt F, Ghiggeri GM, Latos-Bielenska A, Materna-Kiryluk A, Zhang F, Hakonarson H, Papaioannou VE, Mendelsohn CL, Gharavi AG, Sanna-Cherchi S. The copy number variation landscape of congenital anomalies of the kidney and urinary tract. *Nat Genet* 2019;51:117-127. PMCID: PMC6668343

Wong CS, Kogon AJ, Warady BA, Furth SL, Lantos JD, Wilfond BS Ethical and policy considerations for genomic testing in pediatric research: the path toward disclosing individual research results. *Am J Kidney Dis* 2019;73:837-845. PMCID: PMC6548468

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Altamose KE, Kumar J, Portale AA, Warady BA, Furth SL, Fadrowski JJ, Atkinson MA. Vitamin D insufficiency, hemoglobin and anemia in children with chronic kidney disease. *Pediatr Nephrol* 2018;33:2131-2136. PMCID: PMC6528819

Barletta G, Pierce C, Mitsnefes M, Samuels J, Warady B, Furth S, Flynn J. Is blood pressure improving in children with chronic kidney disease?: a period analysis. *Hypertension* 2018;71:444-450. PMCID: PMC5812788

Brooks ER, Haymond S, Rademaker A, Pierce C, Helenowski I, Passman R, Vicente F, Warady BA, Furth SL, Langman CB. Contribution of symmetric dimethylarginine to GFR decline in pediatric chronic kidney disease. *Pediatr Nephrol* 2018;33:697-704. PMID: 29214443

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Ku E, McCulloch CE, Warady BA, Furth SL, Grimes BA, Mitsnefes M. Twenty-four-hour ambulatory blood pressure versus clinic blood pressure measurements and risk of adverse outcomes in children with CKD. *CJASN* 2018;13:422-428. PMCID: PMC5967676

Lalan S, Jiang S, Ng DK, Kupferman F, Warady BA, Furth S, Mitsnefes M. Cardiometabolic risk factors, metabolic syndrome and chronic kidney disease progression in children. *J Pediatrics* 2018;202:163-70. PMCID: PMC6203624

Malits J, Attina TM, Karthikraj R, Kannan K, Naidu M, Furth S, Warady BA, Vento S, Trachtman H, Trasande L. Renal function and exposure to Bisphenol A and phthalates in children with chronic kidney disease. *Environ Res* 2018;167:575-582. PMID: 30172191.

Mitsnefes MM, Betoko A, Schneider MF, Salusky IB, Wolf M, Jüppner H, Warady BA, Furth SL, Portale AA. FGF23 and left ventricular hypertrophy in children with chronic kidney disease. *Clin J Am Soc Nephrol* 2018;6:45-52. PMCID: PMC5753303

Ng DK, Portale AA, Furth SL, Warady BA, Muñoz A. Time-varying coefficient of determination to quantify the explanatory power of biomarkers on longitudinal GFR among children with chronic kidney disease. *Ann Epidemiol* 2018;28:549-556. PMID: PMC6205223

Ng DK, Schwartz GJ, Schneider MF, Furth SL, Warady BA. Combination of pediatric and adult formulas yield valid glomerular filtration rate estimates in young adults with a history of pediatric chronic kidney disease. *Kidney Int* 2018;94:170-177. PMID: PMC6015546 (Letter to the Editor by L Selistre et al. 94(4):827-8; Response on pages 828-9.)

Ricardo AC, Pereira LN, Betoko A, Goh V, Amarah A, Warady BA, Moxey-Mims M, Furth S, Lash JP. Parental health literacy and progression of Chronic Kidney Disease in Children. *Pediatr Nephrol* 2018;33:1759-1764. PMID: PMC6129202

Schwartz GJ, Wang H, Erway B, Nordin G, Seegmiller J, Lieske JC, Back S-E, Miller WG, Eckfeldt JH. Multicenter laboratory comparison of iohexol measurement. *J Appl Lab Med* 2018;2:711-724. PMID: PMC6608591

Sgambat K, Roem J, Mitsnefes M, Portale A, Furth S, Warady B, Moudgil A. Waist-to-height ratio, body mass index, and cardiovascular risk profile in children with chronic kidney disease. *Pediatr Nephrol* 2018;33:1577-1583. PMID: PMC6281775

2017 Publications N=12

Abraham AG, Betoko A, Fadrowski JJ, Pierce C, Furth SL, Warady BA, Muñoz A. Renin-angiotensin II-aldosterone system blockers and time to renal replacement therapy in children with CKD. *Pediatr Nephrol* 2017;32:643-649. PMID: PMC5336532

Brady TM, Townsend K, Schneider MF, Cox C, Kimball T, Madeume P, Warady B, Furth S, Mitsnefes M. Cystatin C and cardiac measures in children and adolescents with CKD. *Am J Kidney Dis* 2017;69:247-256. PMID: PMC5263171

Chen W, Ducharme-Smith K, Davis L, Hui WF, Warady B, Furth SL, Abraham AG, Betoko A. Dietary sources of energy and nutrient intake among children and adolescents with CKD. *Pediatr Nephrol*. 2017;32:1233-1241. PMID: PMC5633852

Fuhrman DY, Schneider MF, Dell KM, Blydt-Hansen TD, Mak R, Saland J, Furth SL, Warady BA, Moxey-Mims MM, Schwartz GJ. Albuminuria, proteinuria and renal progression in children with CKD. *Clin J Am Soc Nephrol* 2017;7;12:912-920. PMID: PMC5460717 (Article Summary Podcast by Schwartz G: http://cjasn.asnjournals.org/site/misc/CJASNPodcast_17_06_b.mp3)

Hui WF, Betoko A, Savant JD, Abraham AG, Greenbaum LA, Warady B, Moxey-Mims MM, Furth SL. Assessment of dietary intake of children with chronic kidney disease. *Pediatr Nephrol* 2017;32:485-494. PMID: PMC5642285

Knight A, Kogon AJ, Matheson MB, Warady BA, Furth SL, Hooper SR. Cognitive function in children with lupus nephritis: a cross-sectional comparison with children with other glomerular chronic kidney diseases. *J Pediatr* 2017;189:292-188. PMID: PMC5614831

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Ng DK, Schwartz GJ, Warady BA, Furth SL, Muñoz A. Relationships of measured iohexol GFR and estimated GFR with CKD-related biomarkers in children. *Am J Kidney Dis* 2017;70:397-405. PMID: PMC5572310

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2016 Publications N=15

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Dell K, Matheson M, Hartung EA, Warady BA, Furth SL. Kidney Disease Progression in Autosomal Recessive Polycystic Kidney Disease. *J Pediatr* 2016;171:196-201. PMID: PMC5349855

Denburg MR, Kumar J, Jemielita T, Brooks ER, Skversky A, Portale AA, Salusky IB, Warady BA, Furth SL, Leonard MB. Fracture Burden and Risk Factors in Childhood CKD: Results from the CKiD Cohort Study. *J Am Soc Nephrol*. 2016;27:543-550.

(Commentary by Allison, SJ in Nature Reviews Nephrology 2016;27:543-550. PMCID: PMC4731126

Hartung EA, Dell KM, Matheson M, Warady BA, Furth SL. Growth in Children with Autosomal Recessive Polycystic Kidney Disease in the CKiD Cohort Study. *Front Pediatr*. 2016 Aug 10;4:82. PMCID: PMC4978942

Hooper SR, Gerson AC, Johnson RJ, Mendley SR, Shinnar S, Lande M, Matheson MB, Gipson D, Morgenstern B, Warady BA, Furth SL. Neurocognitive, Social-Behavioral, and Adaptive Functioning in Preschool Children with Mild to Moderate Kidney Disease. *J Dev Behav Pediatr* 2016;37:231-238. PMCID: PMC4818179

Kogon AJ, Matheson MB, Flynn JT, Gerson AC, Warady BA, Furth SL, Hooper SR. Depressive symptoms in children with chronic kidney disease. *J Pediatr* 2016;168:164-170. PMCID: PMC4854431

Kumar J, McDermott K, Abraham AG, Friedman LA, Johnson VL, Kaskel FJ, Furth SL, Warady BA, Portale AA, Melamed ML. Prevalence and correlates of 25-hydroxy vitamin D deficiency in the CKiD cohort. *Pediatr Nephrol* 2016;31:121-129. PMCID: PMC4884450

Lande MB, Mendley SR, Matheson MB, Shinnar S, Gerson AC, Samuels JA, Warady BA, Furth SL, Hooper SR. Association of blood pressure variability and neurocognition in children with chronic kidney disease. *Pediatr Nephrol* 2016;31: 2137-2144. PMCID: PMC5042825

Mitsnefes MM, Pierce C, Flynn J, Samuels J, Dionne J, Furth S, Warady B. Can office blood pressure readings predict masked hypertension? *Pediatr Nephrol* 2016;31:163-166. PMCID: PMC4651753

Ng DK, Moxey-Mims M, Warady BA, Furth SL, Munoz A. Racial differences in renal replacement therapy initiation among children with a non-glomerular cause of chronic kidney disease. *Ann Epidemiol* 2016;26: 780-787. PMCID: PMC5110248

Portale AA, Wolf MS, Messinger S, Perwad F, Jüppner H, Warady BA, Furth SL, Salusky IB. Fibroblast Growth Factor 23 and Risk of Chronic Kidney Disease Progression in Children. *Clin J Am Soc Nephrol* 2016;7:1989-1998. PMCID: PMC5108188

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Woroniecki RP, Ng DK, Limou S, Winkler CA, Reidy KJ, Mitsnefes M, Sampson MG, Wong CS, Warady BA, Furth SL, Kopp JB, Kaskel FJ. Renal and cardiovascular morbidities associated with APOL1 among African American and non-African American children with focal segmental glomerulosclerosis. *Front Pediatr*, 2016; 4:122. PMCID: PMC5110572

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2015 Publications N=7

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Fathallah-Shaykh S, Flynn J, Pierce C, Abraham A, Blydt-Hansen T, Massengill S, Moxey-Mims M, Warady B, Furth S, Wong C. Progression of pediatric CKD of non-glomerular origin in the CKiD cohort. *Clin J Am Soc Nephrol* 2015;10:571-577. PMID: PMC4386256

Mendley SR, Matheson MB, Shinnar S, Lande MB, Gerson AC, Butler RW, Warady BA, Furth SL, Hooper SR. Duration of chronic kidney disease reduces attention and executive function in pediatric patients. *Kidney Int* 2015;87:800-806. PMID: PMC4372504

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Warady BA, Abraham AG, Schwartz GJ, Wong CS, Muñoz A, Betoko A, Mitsnefes M, Kaskel F, Greenbaum LA, Mak RH, Flynn J, Moxey-Mims MM, Furth S. Predictors of rapid progression of glomerular and nonglomerular kidney disease in children and adolescents: the Chronic Kidney Disease in Children (CKiD) Cohort. *Am J Kidney Dis* 2015; 65:878-888. PMID: PMC4578873

Wuttke M, Schaefer F, Wong CS, Köttgen A. Genome-wide association studies in nephrology: using known associations for data checks. *Am J Kidney Dis* 2015;65:217-222. PMID: PMC4305458

2014 Publications N=12

Akchurin OM, Schneider MF, Mulqueen L, Brooks ER, Langman CB, Greenbaum LA, Furth SL, Moxey-Mims M, Warady BA, Kaskel FJ, and Skversky AL. Medication adherence and growth in children with chronic kidney disease. *Clin J Am Soc Nephrol* 2014;9:1519-1525. PMID: PMC4152804

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CKiD PRESENTATIONS

2012 Presentations

Abraham A. Protein Energy Wasting in Children with CKD: Do adult diagnostic criteria make sense? Renal Disease Interest Group, Baltimore, Maryland, February 2012.

Greenbaum L. Impact of Low Birth Weight on Growth in CKID. Ninth Symposium on Growth and Nutrition in Children with Chronic Kidney Disease, San Diego, California, April 2012.

Kaskel R. Update on CVD Risk in Pediatric CKD: Transition to Adulthood. National Kidney Foundation Annual Symposium of Greater New York, March 2012.

Mitsnefes M. Adipokines and CV abnormalities in children with CKD. Ninth Symposium on Growth and Nutrition in Children with Chronic Kidney Disease, San Diego, California, April 2012.

Mitsnefes M. Masked hypertension and CV abnormalities. Nephrology seminar, Miami, Florida, March 2012.

2011 Presentations

Flynn J. Cardiovascular Disease in Children with Chronic Kidney Disease. ALANEPE Latin American Congress of Pediatric Nephrology, Sao Paulo, Brazil, October 2011.