

# Kyle D. Rudser

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## Education

<b>University of Washington, Seattle, WA</b> Ph.D. Biostatistics	2007
<b>University of Washington, Seattle, WA</b> M.S. Biostatistics	2005
<b>St. Olaf College, Northfield, MN</b> B.A. Chemistry and Mathematics with concentration in Statistics	2002

## Statistical Research Interests

Design, monitoring, and analysis of clinical trials; survival analysis; longitudinal analysis; and nonparametric approaches

## Statistical Appointments and Positions

<b>Director</b> Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2022 – Present
<b>Professor</b> Division of Biostatistics and Health Data Science, School of Public Health Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2021 – Present
<b>Associate Professor</b> Division of Biostatistics*, School of Public Health (*Division of Biostatistics and Health Data Science as of Oct 24, 2023) Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2016 – 2021
<b>Assistant Professor</b> Division of Biostatistics, School of Public Health (*Division of Biostatistics and Health Data Science as of Oct 24, 2023) Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2008 – 2016
<b>Postdoctoral Senior Fellow</b> Resuscitation Outcomes Consortium (ROC) Department of Biostatistics, University of Washington	2007 – 2008
<b>Research Assistant</b> Resuscitation Outcomes Consortium (ROC) Department of Biostatistics, University of Washington	2007
<b>Statistical Consultant</b> Division of Nephrology, University of Washington	2002 – 2007

## Honors and Awards

University of Minnesota Office of Academic Clinical Affairs (OACA) Academy for Excellence in Team Science (Pediatric Obesity Medicine)	2023
University of Minnesota Clinical and Translational Science Institute Biostatistician Mentor of the Year Award	2016
Delta Omega Honorary Society in Public Health, Pi Chapter	2013
Runner-up, Biometric Society (WNAAR) Student Paper Competition - Written “Nonparametric Inference for Arbitrary Functionals of Survival”	2007
Winner, UW Biostatistics Student Poster Competition - Faculty’s Choice “Nonparametric Inference for Arbitrary Survival Functionals”	2006
Runner-up, UW Biostatistics Student Poster Competition “Error Spending Functions for Group Sequential Trial Designs”	2005
NIH Cancer Epidemiology and Biostatistics Training Grant	2005 – 2007
Magna Cum Laude, St. Olaf College	2002
Phi Lambda Upsilon Honorary Chemical Society	2002
Buntrock Regent Scholar, St. Olaf College	1999 – 2002
Academic All-American	1999 – 2002
Dean’s List, St. Olaf College	1999 – 2002
Eagle Scout	1994

## Departmental Service

### *University of Minnesota*

Biostatistical Design and Analysis Center RA Supervisor	2010 – Present
Research Committee (Chair), Division of Biostatistics and Health Data Data Science	2020 – Present
Research Committee, School of Public Health	2022 – Present
Appointment, Promotion and Tenure Committee, School of Public Health	2021 – Present
Doctoral Dissertation Fellowship Committee, School of Public Health	2022
Search Committee, Biostatistical Design and Analysis Center	2010, 2016, 2018 (x2), 2020, 2022
Faculty Search Committee, Division of Biostatistics	2010, 2015, 2020, 2021 (x2)
Exam Committee, Division of Biostatistics	2020
Research Sunrise Planning Committee, School of Public Health	2020
Biostatistics Division Head Search Committee, School of Public Health	2018, 2019
Admissions Committee (Interim Chair 2013)	2010 – 2014, 2016 – 2019
MS Exam Grader, Division of Biostatistics	2009, 2012, 2015, 2019
CTSI Mentor of the Year committee	2017
Student Awards Committee, Division of Biostatistics	2017
Reviewer CTSI OCEH/CEARCH Community Health Collaborative grants	2014 – 2016
Faculty Search Committee, Division of Biostatistics	2010, 2015
Reviewer CTSI Clinical and Translational Research Services pilot grants	2013 – 2015
CEPH site visit Research, Service, Workforce Development Faculty Group	2014
CTSI Scientific Review Committee	2010 – 2013

**APT Ad Hoc Committee, School of Public Health** 2009  
**Course Development Committee** 2008 – 2009  
 Statistical Consulting; Data Analysis

*University of Washington*

**Computing Committee** 2005 – 2007  
**New Course Development** 2005 – 2007  
 Functional Biostatistics Computing  
**Faculty-Student Relations Committee** 2002 – 2006

**Professional Activities**

**Organizer, Invited Paper Session - JSM 2010**, Vancouver B.C., August 2010  
 “Survival Analysis: Alternatives to the Hazard Ratio as a Summary Measure”

**Organizer and Chair, Topic-Contributed Panel Session - JSM 2011**, Miami FL, August 2011  
 “Adaptive Clinical Trial Designs: Advantages over ‘Standard’ Group Sequential Designs?”

*Membership in Professional Societies:*

**International Biometric Society - Western North American Region** 2005 – 2008  
**Association of Clinical and Translational Statisticians** 2019 – 2021  
**American Association for Public Opinion Research** 2020 – 2021  
**International Biometric Society - Eastern North American Region** 2009 – present  
**American Statistical Association** 2009 – present  
**Society for Clinical Trials** 2011 – present

*Journal Manuscript Submission Review in:*

**Contemporary Clinical Trials, Obesity Surgery, Clinical Trials, Statistics in Medicine, Biometrics, BMC Medical Research Methodology, JAMA Open**

*External Advisory Boards and Committees:*

**Participant - Data and Safety Monitoring Committee**  
 Clinical Trial in Pancreatic Cancer; Pfizer Inc.

**Participant - Data and Safety Monitoring Committee**  
 Clinical Trial for Female Sterilization Device; Hologic, Cytyc, and Adiana

**Participant - Data and Safety Monitoring Committee**  
 Clinical Trial in Breast Cancer; Helsinn

**Participant - Data and Safety Monitoring Committee**  
 Three Clinical Trials in Breast Cancer; Pfizer Inc.

**Participant - Data and Safety Monitoring Board**  
 Clinical Trial of Hemofiltration after Out-Of-Hospital Cardiac Arrest; NIH/NHLBI

**Participant - Data and Safety Monitoring Board**  
 Clinical Trial of Hypothermia for ST-Elevation Myocardial Infarction; Velomedix

**Participant - Data and Safety Monitoring Committee**  
 Diabetic Retinopathy Clinical Research Network (DRCRnet); NIH/NEI

**Participant - Data and Safety Monitoring Committee**  
 Surgical Idiopathic Intracranial Hypertension Treatment Trial (SIGHT); NIH/NEI

**Participant - Data and Safety Monitoring Committee**  
 Diabetic Retinopathy Clinical Research Retina Network; NIH/NEI

**Chair - Data and Safety Monitoring Committee**

Rose Bengal Electromagnetic Activation with Green light for Infection Reduction (REAGIR) and Steroids and Cross-linking for Ulcer Treatment (SCUT II); NIH/NEI

**Participant - Data and Safety Monitoring Committee**

Arthroscopic vs. Open Stabilization for Shoulder Instability with Subcritical Bone Loss (OASIS); DoD

**Participant - Data and Safety Monitoring Board**

Midwest Area Research Consortium for Health (MARCH); UMN CTSI

**Participant - Data and Safety Monitoring Board**

Efficacy and Safety of SGLT2 Inhibitor Therapy in Overweight and Obese Subjects With Cystic Fibrosis-Related Diabetes

**CTSA Consortium Biostatistics/Epidemiology/Research Design (BERD) Key Function Committee: 2011 – 2014****Society for Clinical Trials Meeting Program Committee: 2020, 2021, 2022****Special Emphasis Panel Grant Review for NEI: 2017, 2018, 2020, 2021, 2022 (x2), 2023****Special Emphasis Panel Grant Review for NIDDK: 2020, 2021, 2023****Special Emphasis Panel Grant Review for NHLBI: 2020****Special Emphasis Panel Grant Review for NIDCR: 2019****Publications**

\_\_\_ = advised by Dr. Rudser

1. Kestenbaum B, Sampson JN, **Rudser KD**, Patterson DJ, Seliger SL, Young B, Sherrard DJ, Andress DL. "Serum phosphate levels and mortality risk among patients with early chronic renal disease." *J Am Soc Nephrol*: 2005; Feb; 16(2):520-528.
2. Smith JM, **Rudser K**, Gillen D, Kestenbaum B, Seliger S, Weiss N, McDonald RA, Davis CL, Stehman-Breen C. "Risk of lymphoma after renal transplantation varies with time: an analysis of the United States Renal Data System." *Transplantation*: 2006; Jan; 81(2):175-180.
3. B A Young, **K Rudser**, B Kestenbaum, S L Seliger, D Andress, E J Boyko. "Racial and ethnic differences in incident myocardial infarction in end-stage renal disease patients: The USRDS." *Kidney Int*: 2006; May; 69(9):1691-1698.
4. Kestenbaum, B., **Rudser, K.**, Shlipak, M., Fried, L., Newman, A., Katz, R., Sarnak, M., Seliger, S., Stehman-Breen, C., Prineas, R., Siscovick, D. "Kidney Function, Electrocardiographic Findings, and Cardiovascular Events Among Older Adults." *Clin J Am Soc Nephrol*: 2007; May; 2(3):501-508.
5. **Rudser, KD.**, deBoer, IH., Dooley, A., Young, B., Kestenbaum, B. "Fracture Risk Following Parathyroidectomy Among Chronic Hemodialysis Patients." *J Am Soc Nephrol* 2007; Aug; 18(8):2401-2407, doi:10.1681/ASN.2007010022.
6. deBoer, I., Astor, B., Kramer, H., Palmas, W., **Rudser, K.**, Seliger, S., Shlipak, M., Siscovick, D., Tsai, M., Kestenbaum, B., "Mild elevations of urine albumin excretion are associated with atherogenic lipoprotein abnormalities in the Multi-ethnic Study of Atherosclerosis (MESA)." *Atherosclerosis* 2008; Mar; 197(1):407-414, doi:10.1016/j.atherosclerosis.2007.06.018. PMID: PMC2288670
7. Kestenbaum, B., **Rudser, K.**, deBoer, I., Peralta, C., Fried, L., Shlipak, M., Palmas, W., Stehman-Breen, C., Siscovick, D. "Differences in Kidney Function and Incident Hypertension: The Multi-Ethnic Study of Atherosclerosis." *Ann Intern Med* 2008; Apr; 148(7):501-508. PMID: PMC3044648
8. **Rudser, K.** and Emerson, S. "Implementing Type I & Type II Error Spending for Two-Sided Group Sequential Designs." *Contemp Clin Trials* 2008; May; 29(3):351-358, doi:10.1016/j.cct.2007.09.002.

9. Haneuse, S., **Rudser, K.**, Gillen, D. “The separation of timescales in Bayesian survival modeling of the time-varying effect of a time-dependent exposure.” *Biostatistics* 2008; Jul; 9(3):400-410, doi:10.1093/biostatistics/kxm038.
10. Shoben, A., **Rudser, K.**, deBoer, I., Young, B., Kestenbaum, B. “Association of Oral Calcitriol with Survival in Nondialyzed CKD.” *J Am Soc Nephrol* 2008; Aug; 19(8):1613-1619, doi:10.1681/ASN.2007111164. PMID: PMC2488261
11. Buchwald, H., Menchaca, H., Michalek, V., **Rudser, K.**, Rohde, T., O’Dea, T., Connett, J., Gorlin, J. “Oxygen Transport Rate of Banked Red Blood Cells Pilot Study and New Paradigm For Transfusions.” *Vox Sang* 2009; Jan; 96(1):44-48, doi: 10.1111/j.1423-0410.2008.01121.x.
12. Newgard, C., **Rudser, K.**, Atkins, D., Berg, R., Osmond, M., Bulger, E., Davis, D., Schreiber, M., Warden, C., Rea, T., Emerson, S.; ROC Investigators “The Availability and Use of Out-of-Hospital Physiologic Information to Identify High Risk Injured Children in a Multisite, Population-Based Cohort.” *Prehosp Emerg Care* 2009; Oct-Dec; 13(4):420-431, doi: 10.1080/10903120903144882. PMID: PMC3008574
13. Newgard, C., **Rudser, K.**, Hedges, J., Kerby, J., Stiell, I., Davis, D., Morrison, L., Bulger, E., Terndrup, T., Minei, J., Bardarson, B., Emerson, S.; ROC Investigators “A Critical Assessment of the Out-of-Hospital Trauma Triage Guidelines For Physiologic Abnormality.” *J Trauma* 2010; Feb; 68(2):452-462, doi: 10.1097/TA.0b013e3181ae20c9. PMID: PMC3785297
14. Buchwald, H., **Rudser, K.**, Williams, S., Michalek, V., Vagasky, J., Connett, J. “Overall Mortality, Incremental Life Expectancy, and Cause of Death at 25 Years in the Program On the Surgical Control of the Hyperlipidemias.” *Ann Surg* 2010; June; 251(6):1034-1040, doi:101097/SLA.0b013e3181deb4d0.
15. Emerson, SC, **Rudser, KD**, Emerson, SS “Exploring the Benefits of Adaptive Sequential Designs in Time to Event Endpoint Settings.” *Stat Med* 2011; May; 30(11):1199-1217. doi: 10.1002/sim.4156. PMID: PMC3085096
16. Yannopoulos, D., Matsuura, T., Schultz, J., **Rudser, K.**, Halperin, H., Lurie, K. “Sodium nitroprusside enhanced cardiopulmonary resuscitation improves survival with good neurological function in a porcine model of prolonged cardiac arrest.” *Crit Care Med* 2011; Jun; 39(6): 1269-1274, doi: 10.1097/CCM.0b013e31820ed8a6. PMID: PMC4051346
17. Yang, L., **Rudser, K.**, Higgins, L., Rosen, H., Zaman, A., Corless, C., David, L., Gourley, G. “Novel Biomarker Candidates to Predict Hepatic Fibrosis in Hepatitis C Identified by Serum Proteomics.” *Dig Dis Sci* 2011; Nov; 56(11): 3305-3315, doi: 10.1007/s10620-011-1745-4. PMID: PMC3181275
18. Kelly, A., Metzger, A., **Rudser, K.**, Fitch, A., Fox, C., Nathan, B., Deering M., Schwartz, B., Abuzzahab, M., Gandrud, L., Moran, A., Billington, C., Schwarzenberg, S. “Exenatide as a Weight-Loss Therapy in Extreme Pediatric Obesity: A Randomized, Controlled Pilot Study.” *Obesity (Silver Spring)* 2012; Feb; 20(2):364-370, doi: 10.1038/oby.2011.337. PMID: PMC3684414
19. Kelly, A., Gonzalez-Campoy, M., **Rudser, K.**, Katz, H., Metzger, A., Thalin, M., Bank, A. “Carvedilol - Lisinopril Combination Therapy and Endothelial Function in Obese Individuals with Hypertension.” *J Clin Hypertens (Greenwich)* 2012; Feb; 14(2):85-91, doi: 10.1111/j.1751-7176.2011.00569.x.
20. Utz, J., Lorentz, C., Markowitz, D., **Rudser, K.**, Diethelm-Okita, B., Erickson, D., Whitley, C. “START, a Double Blind, Placebo-controlled Pharmacogenetic Test of Responsiveness to Saproterin Dihydrochloride in Phenylketonuria Patients.” *Mol Genet Metab* 2012; Feb; 105(2):193-197, doi: 10.1016/j.ymgme.2011.10.014.
21. Drake, T., **Rudser, K.**, Seaquist, E., Saeed, A. “Chromium Infusion in Hospitalized Patients with Severe Insulin Resistance: A Retrospective Analysis.” *Endocr Pract* 2012; May-Jun; 18(3):394-398, doi: 10.4158/EP11243.OR.

22. **Rudser, K.**, LeBlanc, M., Emerson, S. “Distribution-free Inference on Contrasts of Arbitrary Summary Measures of Survival.” *Stat Med* 2012; Jul 20;31(16):1722-1737, doi: 10.1002/sim.4505.
23. Shapiro, E., Guler, O., **Rudser, K.**, Delaney, K., Bjoraker, K., Whitley, C., Tolar, J., Orchard, P., Provenzale, J., Thomas, K. “An Exploratory Study of Brain Function and Structure in Mucopolysaccharidosis Type I: Long Term Observations Following Hematopoietic Cell Transplantation (HCT).” *Mol Genet Metab* 2012; Sep; 107(1-2):116-121, doi: 10.1016/j.ymgme.2012.07.016. PMID: PMC3444648
24. Polgreen, L., **Rudser, K.**, Deyo, M., Smith, A., Baker, K.S., Petryk, A. “Changes in Biomarkers of Bone Resorption Over the First 6 Months After Pediatric Hematopoietic Cell Transplantation.” *Pediatr Transplant* 2012; Dec; 16(8):852-857, doi: 10.1111/j.1399-3046.2012.01780.x. PMID: PMC3492510
25. Eisengart, J., **Rudser, K.**, Tolar, J., Orchard, P., Kivisto, T., Ziegler, R., Whitley, C., Shapiro, E. “Enzyme replacement is associated with better cognitive outcomes after transplant in Hurler syndrome.” *J Pediatr* 2013; Feb; 162(2):375-380.e1. doi: 10.1016/j.jpeds.2012.07.052. PMID: PMC3524404
26. Dyke, J., Sondhi, D., Voss, H., Shungu, D., Mao, X., Yohay, K., Worgall, S., Hackett, N., Hollmann, C., Yeotsas, M., Jeong, A., van de Graaf, B., Cao, I., Kaminsky, S., Heier, L., **Rudser, K.**, Souweidane, M., Kaplitt, M., Kosofsky, B., Crystal, R., Ballon, D. “Assessment of Disease Severity in Late Infantile Neuronal Ceroid Lipofuscinosis Using Multiparametric MR Imaging.” *Am J Neuroradiol* 2013; Apr; 34(4):884-889, doi: 10.3174/ajnr.A3297. PMID: PMC3644851
27. Kelly, A., **Rudser, K.**, Nathan, B., Fox, C., Metzger, A., Coombes, B., Fitch, A., Bomberg, E., Abuzzahab, M. “The Effect of Glucagon-Like Peptide-1 Receptor Agonist Therapy on Body Mass Index in Adolescents with Severe Obesity: A Randomized, Placebo-Controlled, Clinical Trial.” *JAMA Pediatr* 2013; Apr; 1;167(4):355-360, doi: 10.1001/jamapediatrics.2013.1045. PMID: PMC4010226
28. Potegal, M., Yund, B., **Rudser, K.**, Ahmed, A., Delaney, K., Nestrail, I., Whitley, C., Shapiro, E. “Mucopolysaccharidosis Type IIIA presents as a variant of Klüver-Bucy Syndrome.” *J Clin Exp Neuropsychol* 2013; Jul; 35(6):608-616, doi: 10.1080/13803395.2013.804035. PMID: PMC3931576
29. Segal, B., Pogatchnick, B., Henn, L., **Rudser, K.**, Sivils, K. “Pain Severity and Neuropathic Pain Symptoms in Primary Sjögren’s Syndrome: A Comparison Study of Seropositive and Seronegative Sjögren’s Syndrome.” *Arthritis Care Res* 2013; Aug; 65(8):1291-1298, doi: 10.1002/acr.21956. PMID: PMC4137866
30. Wey, A., Wang, L., **Rudser, K.** “Censored Quantile Regression with Recursive Partitioning Based Weights.” *Biostatistics* 2014; Jan; 15(1):170-181. PMID: PMC3862210
31. Ahmed, A., Whitley, C., Cooksley, R., **Rudser, K.**, Cagle, S., Ali, N., Delaney, K., Yund, B., Shapiro, E. “Neurocognitive and neuropsychiatric phenotypes associated with the mutation L238Q of the  $\alpha$ -L-iduronidase gene in Hurler-Scheie syndrome.” *Mol Genet Metab* 2014; Feb; 111(2):123-127. doi: 10.1016/j.ymgme.2013.11.014. PMID: PMC3939822
32. Wang, R., Braunlin, E., **Rudser, K.**, Dengel, D., Metzger, A., Covault, K., Polgreen, L., Shapiro, E., Steinberger, J., Kelly, A. “Carotid Intima-Media Thickness Is Increased In Patients With Treated Mucopolysaccharidoses Types I and II, and Correlates With Arterial Stiffness.” *Mol Genet Metab* 2014; Feb; 111(2):128-132. doi: 10.1016/j.ymgme.2013.11.001. PMID: PMC3946737
33. **Rudser, K.**, Bendert, E., Koopmeiners, J. “Sample Size and Screening Size Trade Off in the Presence of Subgroups with Different Expected Treatment Effects.” *J Biopharm Stat* 2014; 24(2):344-358. doi: 10.1080/10543406.2013.860154.
34. Janson, C., Romanova, L., **Rudser, K.**, Haines, S. “Improvement in Clinical Outcomes Following Optimal Targeting of Brain Ventricular Catheters with Intraoperative Imaging.” *J Neurosurg* 2014; Mar; 120(3):684-696. doi: 10.3171/2013.8.JNS13250.

35. Rumsey, R., **Rudser, K.**, Delaney, K., Potegal, M., Whitley, C., Shapiro, E. “Acquired Autistic Behaviors in Children with MPSIIIA.” *J Pediatr* 2014; May; 164(5):1147-1151.e1. doi: 10.1016/j.jpeds.2014.01.007. PMID: PMC4041612
36. Mendenhall, T., Harper, P., Henn, L., **Rudser, K.**, Schoeller, B. “Community-based Participatory Research to Decrease Smoking Prevalence in a High-Risk Young Adult Population: An Evaluation of the Students Against Nicotine and Tobacco Addiction (SANTA) Project.” *Fam Syst Health* 2014 Mar; 32(1):78-88. doi: 10.1037/fsh0000003.
37. Delaney, K., **Rudser, K.**, Yund, B., Whitley, C., Haslett, P., Shapiro, E. “Methods of neurodevelopmental assessment in children with neurodegenerative disease: Sanfilippo syndrome.” *J Inherit Metab Dis* 2014; 13:129-137. doi: 10.1007/8904.2013.269. PMID: PMC4110329
38. Stevenson, D., **Rudser, K.**, Kunin-Batson, A., Fung, E., Viskochil, D., Shapiro, E., Orchard, P., Whitley, C., Polgreen, L. “Biomarkers of Bone Remodeling in Children with Mucopolysaccharidosis Types I, II, and VI.” *J Pediatr Rehabil Med* 2014 Jan 1; 7(2):159-165. doi: 10.3233/PRM-140285. PMID: PMC4420175
39. Kelly, A., **Rudser, K.**, Dengel, D., Kaufman, C., Reiff, M., Norris, A., Metzger, A., Steinberger, J. “Cardiac Autonomic Dysfunction and Arterial Stiffness Among Children and Adolescents with Attention Deficit Hyperactivity Disorder Treated with Stimulants.” *J Pediatr* 2014 Oct; 165(4):755-759. doi: 10.1016/j.jpeds.2014.05.043.
40. Fox, C., Marlatt, K., **Rudser, K.**, Kelly, A. “Topiramate for Weight Reduction in Adolescents with Severe Obesity.” *Clin Pediatr (Phila)* 2015 Jan; 54(1):19-24. doi: 10.1177/0009922814542481.
41. Taylor, N., Dengel, D., Lund, T., **Rudser, K.**, Orchard, P., Steinberger, J., Whitley, C., Polgreen, L. “Isokinetic Muscle Strength Differences in Patients with Mucopolysaccharidosis I, II, and VI.” *J Pediatr Rehabil Med* 2014 Jan; 7(4):353-360. doi: 10.3233/PRM-140305. PMID: PMC4438747
42. Rudser, A., **Rudser, K.**, Patterson, R., VanderVelden, H., Reid, S. “Ovarian Torsion in Pediatric Patients: A Review of Eleven Years’ Experience.” *Global Pediatric Health* 2014 Jan-Dec: 1-4. doi: 10.1177/2333794X14564443
43. Yund, B., **Rudser, K.**, Ahmed, A., Kovac, V., Nestrasil, I., Raiman, J., Mamak, E., Harmatz, P., Steiner, R., Lau, H., Vekaria, P., Wozniak, J., Lim, K., Delaney, K., Whitley, C., Shapiro, E. “Cognitive, Medical, and Neuroimaging Characteristics of Attenuated Mucopolysaccharidosis Type II.” *Mol Genet Metab* 2015 Feb; 114(2):170-177. doi: 10.1016/j.ymgme.2014.12.299. PMID: PMC4312717
44. Shapiro, E., Nestrasil, I., Ahmed, A., Wey, A., **Rudser, K.**, Delaney, K., Rumsey, R., Haslett, P., Whitley, C., Potegal, M. “Quantifying behaviors of children with Sanfilippo syndrome: The Sanfilippo Behavior Rating Scale.” *Mol Genet Metab* 2015 Apr; 114(4):594-598. doi: 10.1016/j.ymgme.2015.02.008. PMID: PMC4390542
45. Wey, A., Connett, J., **Rudser, K.** “Combining Parametric, Semi-parametric, and Non-parametric Survival Models With Stacked Survival Models.” *Biostatistics* 2015 Jul; 16(3):537-549. doi: 10.1093/biostatistics/kxv001.
46. Shapiro, E., Nestrasil, I., **Rudser, K.**, Delaney, K., Kovac, V., Ahmed, A., Yund, B., Orchard, P., Eisengart, J., Niklason, G., Raiman, J., Mamak, E., Cowan, M., Bailey-Olson, M., Harmatz, P., Shankar, S., Cagle, S., Ali, N., Steiner, R., Wozniak, J., Lim, K., Whitley, C. “Neurocognition Across the Spectrum of Mucopolysaccharidosis Type I: Age, Severity, and Treatment.” *Mol Genet Metab* 2015 Sep-Oct; 116(1-2):61-8. doi: 10.1016/j.ymgme.2015.06.002. PMID: PMC4561597
47. Gillick, B., Menk, J., Mueller, B., Meekins, G., Krach, L., Feyma, T., **Rudser, K.** “Synergistic Effect of Combined Transcranial Direct Current Stimulation/Constraint-Induced Movement Therapy in Children and Young Adults with Hemiparesis: study protocol.” *BMC Pediatr* 2015; Nov; 15:178. doi: 10.1186/s12887-015-0498-1. PMID: PMC4642615

48. Ryder, J., O'Connell, M., Bosch, T., Chow, L., **Rudser, K.**, Dengel, D., Fox, C., Steinberger, J., Kelly, A. "Impaired Cardiac Autonomic Nervous System Function is Associated with Pediatric Hypertension Independent of Adiposity." *Pediatr Res* 2016; Jan; 79(1-1):49-54. doi: 10.1038/pr.2015.188. PMID: PMC4724304
49. Kelly, A., Ryder, J., Marlatt, K., **Rudser, K.**, Jenkins, T., Inge, T. "Changes in Inflammation, Oxidative Stress, and Adipokines Following Bariatric Surgery Among Adolescents with Severe Obesity." *Int J Obes (Lond)* 2016; Feb; 40(2):275-280. doi: 10.1038/ijo.2015.174.
50. Gross, A., Fox, C., **Rudser, K.**, Foy, A., Kelly, A. "Eating Behaviours are Different in Youth with Obesity and Severe Obesity." *Clin Obes* 2016; Feb; 6(1):68-72. doi: 10.1111/cob.12127.
51. Nathan, B., **Rudser, K.**, Abuzzahab, M., Fox, C., Coombes, B., Bomberg, E., Kelly, A. "Predictors of Weight-Loss Response with Glucagon-Like Peptide-1 Receptor Agonist Treatment Among Adolescents with Severe Obesity." *Clin Obes* 2016; Feb; 6(1):73-78. doi: 10.1111/cob.12128. PMID: PMC4721217
52. Shapiro, E., Nestrasil, I., Delaney, K., **Rudser, K.**, Kovac, V., Nair, N., Richard, C., Haslett, P., Whitley, C. "A prospective natural history study of Mucopolysaccharidosis Type IIIA." *J Pediatr* 2016; Mar; 170:278-287.e4. doi: 10.1016/j.jpeds.2015.11.079. PMID: PMC4769976
53. Shapiro, E., King, K., Ahmed, A., **Rudser, K.**, Rumsey, R., Yund, B., Delaney, K., Nestrasil, I., Whitley, C., Potegal, M. "The Neurobehavioral Phenotype in Mucopolysaccharidosis Type IIIB: an Exploratory Study." *Mol Genet Metab Rep* 2016; Mar; 1(6):41-47. PMID: PMC4762067
54. Perkins, S., Bacchetti, P., Davey, C., Lindsell, C., Mazumdar, M., Oster, R., Peduzzi, P., Roche, D., **Rudser, K.**, Kim, M & the Biostatistics, Epidemiology, and Research Design (BERD) Key Function Committee of the Clinical and Translational Science (CTSA) Consortium. "Best Practices for Biostatistical Consultation and Collaboration in Academic Health Centers." *Am Stat* 2016; Apr; 70(2):187-194. doi: 10.1080/00031305.2015.1077727. PMID: PMC5074551
55. Polgreen, L., Vehe, R., **Rudser, K.**, Kunin-Batson, A., Utz, J., Dickson, P., Shapiro, E., Whitley, C. "Elevated TNF- $\alpha$  is Associated With Pain and Physical Disability in Mucopolysaccharidosis Types I, II, and VI." *Mol Genet Metab* 2016; Apr; 117(4):427-430. doi: 10.1016/j.ymgme.2016.01.012. PMID: PMC4851859
56. Ahmed, A., Shapiro, E., **Rudser, K.**, Kunin-Batson, A., King, K., Whitley, C. "Association of somatic burden of disease with age and neuropsychological measures in attenuated mucopolysaccharidosis types I, II and VI." *Mol Genet Metab Rep* 2016; Apr; 1(7):27-31. doi: 10.1016/j.ymgmr.2016.03.006. PMID: PMC4832083
57. Shapiro, E., **Rudser, K.**, Ahmed, A., Steiner, R., Delaney, K., Yund, B., King, K., Kunin-Batson, A., Eisengart, J., Whitley, C. "A longitudinal study of emotional adjustment, quality of life and adaptive function in attenuated MPS II." *Mol Genet Metab Rep* 2016; Apr; 1(7):32-39. doi: 10.1016/j.ymgmr.2016.03.005. PMID: PMC4832084
58. Ahmed, A., **Rudser, K.**, Kunin-Batson, A., Delaney, K., Whitley, C., Shapiro, E. "Mucopolysaccharidosis (MPS) Physical Symptom Score: Development, Reliability and Validity." *J Inherit Metab Dis Rep* 2016; 26:61-68. doi: 10.1007/8904.2015.485. PMID: PMC4864710
59. Ryder, J., O'Connell, M., **Rudser, K.**, Fox, C., Solovey, A., Hebbel, R., Kelly, A. "Reproducibility of Circulating Endothelial Cell Enumeration and Activation in Children and Adolescents." *Biomark Med* 2016; May; 10(5):463-471. doi: 10.2217/bmm-2015-0051. PMID: PMC5827818
60. Dyke, J., Sondhi, D., Voss, H., Yohay, K., Hollmann, C., Mancenido, D., Kaminsky, S., Heier, L., **Rudser, K.**, Kosofsky, B., Casey, B., Crystal, R., Ballon, D. "Brain Region Specific Degeneration with Disease Progression in Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2 Disease)." *Am J Neuroradiol* 2016; Jun; 37(6):1160-1169. doi: 10.3174/ajnr.A4669. PMID: PMC4907890

61. Kelly, A., Fox, C., **Rudser, K.**, Gross, A., Ryder, J. “Pediatric Obesity Pharmacotherapy: Current State of the Field, Review of the Literature, and Clinical Trial Considerations.” *Int J Obes (Lond)* 2016; Jul; 40(7):1043-1050. doi: 10.1038/ijo.2016.69. PMID: PMC5546093
62. Schneider, J., Burmeister, L., **Rudser, K.**, Whitley, C., Utz, J. “Hypothyroidism in Late-Onset Pompe Disease.” *Mol Genet Metab Rep* 2016; Jul; 8:24-27. doi: 10.1016/j.ymgmr.2016.06.002. PMID: PMC4932620
63. Wey, A., Vock, D., Connett, J., **Rudser, K.** “Estimating Restricted Mean Treatment Effects with Stacked Survival Models.” *Stat Med* 2016; Aug; 30;35(19):3319-3332. doi: 10.1002/sim.6929. PMID: PMC4938776
64. Svatkova, A., Nestrail, I., **Rudser, K.**, Fine, J., Bledsoe, J., Semrud-Clikeman, M. “Unique White Matter Microstructural Patterns in ADHD Presentations: A Diffusion Tensor Imaging Study.” *Hum Brain Mapp* 2016; Sep; 37(9):3323-3336. doi: 10.1002/hbm.23243. PMID: PMC5663221
65. Fox, C., Gross, A., **Rudser, K.**, Foy, A., Kelly, A. “Depression, Anxiety and Severity of Obesity in Adolescents: Is Emotional Eating the Link?” *Clin Pediatr (Phila)* 2016; Oct;55(12):1120-1125. doi: 10.1177/0009922815615825. PMID: PMC5958895
66. Kunin-Batson, A., Shapiro, E., **Rudser, K.**, Lavery, C., Bjoraker, K., Jones, S., Wynn, R., Vellodi, A., Tolar, J., Orchard, P., Wraith, J. “Long-term Cognitive and Functional Outcomes in Children with Mucopolysaccharidosis (MPS)-IH (Hurler Syndrome) Treated with Hematopoietic Cell Transplantation.” *J Inherit Metab Dis Rep* 2016; 29:95-102; PMID: PMC5059216
67. Yang, L., **Rudser, K.**, Golnik, A., Wey, A., Higgins, L., Gourley, G. “Urine Protein Biomarker Candidates for Autism.” *J Proteomics Bioinform* S14:004. doi:10.4172/jpb.S14-004
68. Ryder, J., **Kaizer, A., Rudser, K.**, Daniels, S., Kelly, A. “Utility of Body Mass Index in Identifying Excess Adiposity in Youth Across the Obesity Spectrum.” *J Pediatr* 2016; Oct; 177:255-261.e2. doi: 10.1016/j.jpeds.2016.06.059. PMID: PMC5905327
69. Fox, C., **Kaizer, A., Rudser, K.**, Nathan, B., Gross, A., Sunni, M., Abuzzahab, M., Schwartz, B., Kumar, S., Petryk, A., Billington, C., Ryder, J., Kelly, A. “Meal Replacements Followed by Topiramate for the Treatment of Adolescent Severe Obesity: A Pilot Randomized Controlled Trial.” *Obesity (Silver Spring)* 2016; Dec; 24(12):2553-2561. doi: 10.1002/oby.21633. PMID: PMC5125846
70. Ryder, J., **Rudser, K.**, Kelly A. “Reproducibility of circulating endothelial cell enumeration and activation; lack of methodological issues.” *Biomark Med* 2016; Dec; 10(12):1217-1218. doi: 10.2217/bmm-2016-0201.
71. Shoben, A., **Rudser, K.**, Emerson, S. “More data, less information? Potential for nonmonotonic information growth using GEE.” *J Biopharm Stat* 2017; 27(1):135-147. doi: 10.1080/10543406.2016.1167071. PMID: PMC5620018
72. Wanous, A., **Wey, A., Rudser, K.**, Roberts, K. “Feasibility of Laryngeal Mask Airway Device Placement in Neonates.” *Neonatology* 2017;111(3):222-227. doi: 10.1159/000450691. PMID: PMC5362334
73. Ryder, J., **Kaizer, A., Rudser, K.**, Gross, A., Kelly, A., Fox, C. “Effect of Phentermine on Weight Reduction in a Pediatric Weight Management Clinic.” *Int J Obes (Lond)* 2017 Jan;41(1):90-93. doi: 10.1038/ijo.2016.185. PMID: PMC5891125.
74. Polgreen, L., Kunin-Batson, A., **Rudser, K.**, Vehe, R., Utz, J., Whitley, C., Dickson, P. “Pilot Study of the Safety and Effect of Adalimumab on Pain, Physical Function, and Musculoskeletal Disease in Mucopolysaccharidosis Types I and II.” *Mol Genet Metab Rep* 2017 Jan 15;10:75-80. doi: 10.1016/j.ymgmr.2017.01.002. PMID: PMC5238608

75. Cheung, C., Wyman, J., Bronas, U., McCarthy, T., **Rudser, K.**, Mathiason, M. “Managing Knee Osteoarthritis with Yoga or Aerobic/Strengthening Exercise Programs in Older Adults: A Pilot Randomized Controlled Trial.” *Rheumatol Int* 2017 Mar; 37(3):389–398. doi: 10.1007/s00296-016-3620-2. PMID: PMC5569242
76. Rodgers, N., Kaizer, A., Miller, W., **Rudser, K.**, Orchard, P., Braunlin, E. “Mortality After Hematopoietic Stem Cell Transplantation For Severe Mucopolysaccharidosis Type I: The 30-year University of Minnesota Experience.” *J Inherit Metab Dis* 2017 Mar; 40(2):271–280. doi: 10.1007/s10545-016-0006-2.
77. Osborn, M., Webber, B., McElmurry, R., **Rudser, K.**, DeFeo, A., Muradian, M., Petryk, A., Halgrimsson, B., Blazar, B., Tolar, J., Braunlin, E. “Angiotensin Receptor Blockade Mediated Amelioration of Mucopolysaccharidosis Type I Cardiac and Craniofacial Pathology.” *J Inherit Metab Dis* 2017 Mar;40(2):281-289. doi: 10.1007/s10545-016-9988-z. PMID: PMC5335863
78. Loor, G., Brown, R., Kelly, R., **Rudser, K.**, Shumway, S., Cich I., Holley, C., Quinlan, C., Hertz, M. “Gender Differences in Long-Term Survival Post-transplant: A Single-Institution Analysis in the Lung Allocation Score Era.” *Clin Transplant* 2017 Mar; 31(3). doi: 10.1111/ctr.12889. PMID: PMC5336403
79. Wang, R., **Rudser, K.**, Dengel, D., Braunlin, E., Steinberger, J., Jacobs, D., Sinaiko, A., Kelly, A. “The Carotid Intima-Media Thickness and Arterial Stiffness of Pediatric Mucopolysaccharidosis Patients Are Increased Compared to Both Pediatric and Adult Controls.” *Int J Mol Sci* 2017 Mar 15;18(3). pii: E637. doi: 10.3390/ijms18030637. PMID: PMC5372650
80. Chen, C., Georgieff, M., Elison, J., Chen, M., Stinear, J., Mueller, B., Rao, R., **Rudser, K.**, Gillick, B. “Understanding Brain Reorganization in Infants With Perinatal Stroke Through Neuroexcitability and Neuroimaging.” *Pediatr Phys Ther* 2017 Apr; 29(2):173-178. doi: 10.1097/PEP.0000000000000365. PMID: PMC5560124
81. Karimian, Z., Whitley, C., **Rudser, K.**, Utz, J. “Delayed Infusion Reactions to Enzyme Replacement Therapies.” *J Inherit Metab Dis Rep* 2017; 34:63-70. doi: 10.1007/8904\_2016\_8. PMID: PMC5509557
82. Rich, T., Menk, J., **Rudser, K.**, Feyma, T., Gillick, B. “Less-Affected Hand Function in Children With Hemiparetic Unilateral Cerebral Palsy: A Comparison Study With Typically Developing Peers.” *Neurorehabil Neural Repair* 2017 Oct-Nov; 31(10-11):965–976. doi: 10.1177/1545968317739997. PMID: PMC5729110
83. Rich, T., Menk, J., **Rudser, K.**, Chen, M., Meekins, G., Peña, E., Feyma, T., Bawroski, K., Bush, C., Gillick, B. “Determining Electrode Placement for Transcranial Direct Current Stimulation: A Comparison of EEG- Versus TMS-Guided Methods.” *Clin EEG Neurosci* 2017 Nov; 48(6):367-375. doi: 10.1177/1550059417709177. PMID: PMC5933436.
84. Uithoven, K., Ryder, J., Brown, R., **Rudser, K.**, Evanoff, N., Dengel, D., Kelly, A. “Determination of Bilateral Symmetry of Carotid Artery Structure and Function in Children and Adolescents.” *J Vasc Diagn* 2017; 5:1-5. doi: 10.2147/JVD.S123063. PMID: PMC5948187.
85. Holley, C., Kelly, R., Shumway, S., Brown, R., Hertz, M., **Rudser, K.**, Quinlan, C., Cich, I., Loor, G. “Clinical Implications of Donor Age: A Single Institution Analysis Spanning 3 Decades.” *J Thorac Cardiovasc Surg* 2017 Dec; 154(6):2126–2133.e2. doi: 10.1016/j.jtcvs.2017.06.029.
86. Ryder, J., Gross, A., Fox, C., Kaizer, A., **Rudser, K.**, Jenkins, T., Ratcliff, M., Kelly, A., Kirk S., Siegel, R., Inge, T. “Factors Associated with Long-term Weight Loss Maintenance Following Bariatric Surgery in Adolescents with Severe Obesity” *Int J Obes (Lond)* 2018 Jan; 42(1):102–107. doi: 10.1038/ijo.2017.193. PMID: PMC5891093.

87. Roberts, K., T., Brown, R., Lampland, A., Leone, T., **Rudser, K.**, Finer, N., Rich, W., Merritt, T., Czynski, A., Kessel, J., Tipnis, S., Stepka, E., Mammel, M. “Laryngeal Mask Airway for Surfactant Administration in Neonates: A Randomized, Controlled Trial.” *J Pediatr* 2018 Feb; 193:40–46.e1. doi: 10.1016/j.jpeds.2017.09.068. PMID: PMC5362334.
88. Nestrasil, I., Ahmed, A., **Rudser, K.**, Whitley, C., Utz, J. “Distinct Progression Patterns of Brain Disease in Infantile and Juvenile Gangliosidoses: Volumetric Quantitative MRI Study.” *Mol Genet Metab* 2018 Feb; 123(2):97–104. doi: 10.1016/j.ymgme.2017.12.432. PMID: PMC5832355.
89. Eisengart, J., **Rudser, K.**, Xue, Y., Orchard, P., Miller, W., Lund, T., Van der Ploeg, A., Mercer, J., Jones, S., Mengel, K., Gökce, S., Guffon, N., Giugliani, R., de Souza, C., Shapiro, E., Whitley, C. “Long-term Outcomes of Systemic Therapies for Hurler Syndrome: An International Multicenter Comparison.” *Genet Med* 2018 Mar 8. doi: 10.1038/gim.2018.29. PMID: PMC6129229.
90. Fox, C., **Kaizer, A.**, Ryder, J., **Rudser, K.**, Kelly, A., Kumar, S., Gross, A., on behalf of POWER Work Group “Cardiometabolic Risk Factors of Treatment-Seeking Youth versus Population Youth with Obesity.” *Obes Sci Pract* 2018 Apr 10; 4(3):207-215. doi: 10.1002/osp4.166. eCollection 2018 Jun. PMID: PMC6009991.
91. Gillick, B., Rich, T., Nemanich, S., Chen, C-Y., Menk, J., Mueller, B., Chen, M., Ward, M., Meekins, G., Feyma, T., Krach, L., **Rudser, K.** “Transcranial Direct Current Stimulation and Constraint-Induced Therapy in Cerebral Palsy: A Randomized, Blinded, Sham-Controlled Clinical Trial.” *Eur J Paediatr Neurol* 2018 May; 22(3):358–368. doi: 10.1016/j.ejpn.2018.02.001. Epub 2018 Feb 11. PMID: PMC5899638.
92. Fyfe-Johnson, A., Ryder, J., Alonso, A., MacLehose, R., **Rudser, K.**, Fox, C., Gross, A., Kelly, A. “Ideal Cardiovascular Health and Adiposity: Implications in Youth.” *J Am Heart Assoc* 2018 Apr 13;7(8). pii: e007467. doi: 10.1161/JAHA.117.007467. PMID: PMC6015406.
93. Gross, A., **Kaizer, A.**, Ryder, J., Fox, C., **Rudser, K.**, Dengel, D., Kelly, A. “Relationships of Anxiety and Depression with Cardiovascular Health in Youth with Normal Weight to Severe Obesity” *J Pediatr* 2018 Aug; 199:85-91. doi: 10.1016/j.jpeds.2018.03.059. PMID: PMC6063783.
94. Drawz, P., Brown, R., De Nicola, L., Fujii, N., Gabbai, F., Gassman, J., He, J., Iimuro, S., Lash, J., Minutolo, R., Philips, R., **Rudser, K.**, Ruilope, L., Steigerwalt, S., Townsend, R., Xie, D., Rahman, M., and the CRIC Study Investigators “Variations in 24 Hour BP Profiles in Cohorts of Patients with Kidney Disease around the World: The I-DARE Study.” *Clin J Am Soc Nephrol* 2018 Sep; 13(9):1348-1357. doi: 10.2215/CJN.13181117. PMID: PMC6140571.
95. Nestrasil, I., Svatkova, A., **Rudser, K.**, Chityala, R., Wakumoto, A., Mueller, B., Bednařík, P., Tuite, P., Wu, X., Bushara, K. “White Matter Measures Correlate with Essential Tremor Severity – A Pilot Diffusion Tensor Imaging Study.” *Brain Behav* 2018 Aug; 8(8):e01039. doi: 10.1002/brb3.1039. PMID: PMC6085909.
96. Lutsey, P., Chen, L., **Eaton, A.**, Jaeb, M., **Rudser, K.**, Neaton, J., Alonso, A. “A Pilot Randomized Trial of Oral Magnesium Supplementation on Supraventricular Arrhythmias.” *Nutrients* 2018 Jul 10;10(7). pii: E884. doi: 10.3390/nu10070884. PMID: PMC6073799.
97. Spratt, J., Tomic, R., Brown, R., **Rudser, K.**, Loor, G., Hertz, M., Shumway, S., Kelly R. “Single versus Bilateral Lung Transplant for Idiopathic Pulmonary Fibrosis in the Lung Allocation Score Era.” *J Surg Res* 2019 Feb; 234:84–95. doi: 10.1016/j.jss.2018.08.054.
98. Gross, A., **Kaizer, A.**, Kelly, A., **Rudser, K.**, Ryder, J., Borzutzky, C., Santos, M., Tucker, J., Yee, J., Fox, C.; POWER Work Group. “Long and Short of It: Early Response Predicts Longer-Term Outcomes in Pediatric Weight Management.” *Obesity (Silver Spring)* 2019 Feb; 27(2):272–279. doi: 10.1002/oby.22367. PMID: PMC6352906

99. Marlatt, K., Steinberger, J., **Rudser, K.**, Dengel, D., Sadak, K., Lee, J., Blaes, A., Duprez, D., Perkins, J., Ross, J., Kelly, A. “The Effect of Atorvastatin on Vascular Function and Structure in Young Adult Survivors of Childhood Cancer: A Randomized, Placebo-Controlled Pilot Clinical Trial.” *J Adolesc Young Adult Oncol* 2019; 8(4):442 – 450. doi: 10.1089/jayao.2017.0075. PMID: PMC6689188.
100. Eisengart, J., Pierpont, E., Kaizer, A., **Rudser, K.**, King, K., Pasquali, M., Polgreen, P., Dickson, P., Le, S., Miller, W., Tolar, J., Orchard, P., Lund, T. “Intrathecal Enzyme Replacement For Hurler Syndrome: Biomarker Association With Neurocognitive Outcomes.” *Genet Med* 2019 Nov;21(11):2552-2560. doi: 10.1038/s41436-019-0522-1. PMID: PMC6831510
101. Spratt, J., Brown, R., **Rudser, K.**, Goswami, U., Hertz, M., Patil, J., Cich, I., Shumway, S., Loor, G. “Greater Survival Despite Increased Complication Rates Following Lung Transplantation for Alpha-1-Antitrypsin Deficiency Compared to Chronic Obstructive Pulmonary Disease.” *J Thorac Dis* 2019 Apr;11(4):1130-1144. doi: 10.21037/jtd.2019.04.40. PMID: PMC6531741
102. Nemanich, S., Rich, T., Chen, C-Y., Menk, J., **Rudser, K.**, Chen, M., Meekins, G., Gillick, B. “Influence of Combined Transcranial Direct Current Stimulation and Motor Training On Corticospinal Excitability In Children with Unilateral Cerebral Palsy.” *Front Hum Neurosci* 2019 Apr 24;13:137. doi: 10.3389/fnhum.2019.00137. PMID: PMC6492624
103. King, K., **Rudser, K.**, Nestrasil, I., Kovac, V., Delaney, K., Wozniak, J., Mueller, B., Lim, K., Eisengart, J., Mamak, E., Raiman, J., Ali, N., Cagle, S., Harmatz, P., Whitley, C., Shapiro, E. “Attention and Corpus Callosum Volumes in Individuals with Mucopolysaccharidosis Type I.” *Neurology* 2019 May 14;92(20):e2321-e2328. doi: 10.1212/WNL.0000000000007496. PMID: PMC6598818
104. Sutcliffe, S., Bavendam, T., Cain, C., Epperson, N., Fitzgerald, C., Gahagan, S., Markland, A., Shoham, D., Smith, A., Townsend, M., **Rudser, K.**; Prevention of Lower Urinary Tract Symptoms Research Consortium. “The Spectrum of Bladder Health: The Relationship Between Lower Urinary Tract Symptoms and Interference with Activities.” *J Womens Health (Larchmt)* 2019 Jun; 28(6):827-841. doi: 10.1089/jwh.2018.7364. PMID: PMC6590721
105. Nemanich, S., Chen, C-Y., Chen, M., Zorn, E., Mueller, B., Peyton, C., Elison, J., Stinear, J., Rao, R., Georgieff, M., Menk, J., **Rudser, K.**, Gillick, B. “Safety and Feasibility of Transcranial Magnetic Stimulation as an Exploratory Assessment of Corticospinal Connectivity in Infants After Perinatal Brain Injury: An Observational Study” *Phys Ther* 2019 Jun 1;99(6):689-700. doi: 10.1093/ptj/pzz028. PMID: PMC6545276
106. Ahmed, A., Ou, L., **Rudser, K.**, Shapiro, E., Eisengart, J., King, K., Chen, A., Dickson, P., Whitley, C. “A Longitudinal Study of Neurocognition and Behavior in Patients with Hurler-Scheie Syndrome Heterozygous for the L238Q Mutation.” *Mol Genet Metab Rep* 2019 Jun 27;20:100484. doi: 10.1016/j.ymgmr.2019.100484. PMID: PMC6603334
107. Kowalski, J., Nemanich, S., Nawshin, T., Chen, M., Peyton, C., Zorn, E., Hickey, M., Rao, R., Georgieff, M., **Rudser, K.**, Gillick, B. “Motor Evoked Potentials as Potential Biomarkers of Early Atypical Corticospinal Tract Development in Infants with Perinatal Stroke.” *J Clin Med* 2019 Aug 13;8(8). pii: E1208. doi: 10.3390/jcm8081208. PMID: PMC6723226
108. Kelly, A., Kaizer, A., Bosch, T., **Rudser, K.**, Ryder, J., Gross, A., Chow, L., Fox, C., Dengel, D. “Reaching the Tipping Point: Identification of Thresholds at which Visceral Adipose Tissue May Steeply Increase in Youth.” *Obesity (Silver Spring)*. 2020 Jan; 28(1):139-145. doi: 10.1002/oby.22679. PMID: PMC6925316.
109. Chen, A., Harmatz, P., Nestrasil, I., Eisengart, J., King, K., **Rudser, K.**, Kaizer, A., Svatkova, A., Wakumoto, A., Le, S., Madden, J., Young, S., Zhang, H., Polgreen, L., Dickson, P. “Intrathecal Enzyme Replacement For Cognitive Decline in Mucopolysaccharidosis Type I, a Randomized, Open-label, Controlled Pilot Study.” *Mol Genet Metab* 2020 Feb; 129(2):80-90. doi: 10.1016/j.ymgme.2019.11.007. PMID: PMC7813548

110. Hebert-Beirne, J., Kane Low L., Burgio, K., Hardacker, C., Camenga, D., James, A., Newman, D., **Rudser, K.**, Nodora, J. on behalf of the PLUS Consortium “Novel (Multilevel) Focus Group Training for a Transdisciplinary Research Consortium.” *Health Promot Pract.* 2019 Oct; 20:1524839919875725. doi: 10.1177/1524839919875725. PMID: PMC7167340
111. Polgreen, L., Lund, T., Braunlin, E., Tolar, J., Miller, B., Fung, E., Whitley, C., Eisengart, J., Northrop, E., **Rudser, K.**, Miller, W., Orchard, P. “Clinical Trial of Laronidase in Hurler Syndrome After Hematopoietic Cell Transplantation.” *Pediatr Res* 2020 Jan; 87(1):104-111. doi: 10.1038/s41390-019-0541-2. PMID: PMC6960090
112. Kartha, R., Joers, J., Terluk, M., Travis, A., **Rudser, K.**, Tuite, P., Weinreb, N., Jarnes, J., Cloyd J., Öz, G. “Neurochemical Abnormalities in Patients with Type 1 Gaucher Disease on Standard of Care Therapy.” *J Inherit Metab Dis* 2019 Oct 15. doi: 10.1002/jimd.12182. PMID: PMC7156305
113. Harbin, M., Kelly, A., Dengel, D., **Rudser, K.**, Evanoff, N., Ryder, J. “Relation of Secondhand Smoke Exposure to Vascular Phenotypes in Children and Adolescents.” *Pediatr Res* 2020 Mar; 87(4):760-766. doi: 10.1038/s41390-019-0627-x. PMID: PMC7082180
114. Northrop, E., Milbauer, L., **Rudser, K.**, Fox, C., Solovey, A., Kaizer, A., Hebbel, R., Kelly, A., Ryder, J. “Reproducibility of Endothelial Microparticles in Children and Adolescents.” *Biomark Med* 2020 Jan; 14(1):43-51. doi: 10.2217/bmm-2019-0229. PMID: PMC7202266
115. Huddleston, S., Brown, R., **Rudser, K.**, Goswami, U., Tomic, R., Lemke, N., Shaffer, A., Soule, M., Hertz, M., Shumway, S., Kelly, R., Loor, G. “Need for Tracheostomy after Lung Transplant Predicts Decreased Mid- and Long-Term Survival.” *Clin Transplant* 2020 Jan; 34(1):e13766. doi: 10.1111/ctr.13766.
116. Rooney, M., **Rudser, K.**, Alonso, A., Harnack, L., Saenger, A., Lutsey, P. “Circulating Ionized Magnesium: Comparisons with Circulating Total Magnesium and the Response to Magnesium Supplementation in a Randomized Controlled Trial.” *Nutrients* 2020 Jan 20; 12(1). pii: E263. doi: 10.3390/nu12010263. PMID: PMC7019442
117. Sarafoglou, K., Petryk, A., Mishra, P., Polgreen, L., Panoskaltis-Mortari, A., Brown, R., Marino, B., Gremmels, D., Shepard, C., Kelly, A., Miller, B., **Rudser, K.**, McCracken, C., Kochilas, L. “Early Characteristics of Bone Deficits in Children with Fontan Palliation.” *Cardiol Young* 2020 Feb; 20:1-8. doi: 10.1017/S1047951120000293.
118. Wang, R., **Rudser, K.**, Dengel, D., Evanoff, N., Steinberger, J., Movsesyan, N., Garrett, R., Christensen, K., Boylan, D., Braddock, S., Shinawi, M., Gan, Q., Montaña, A. “Abnormally Increased Carotid Intima Media-Thickness and Elasticity in Patients With Morquio A Disease.” *Orphanet J Rare Dis* 2020 Mar 17; 15(1):73. doi: 10.1186/s13023-020-1331-y. PMID: PMC7079365
119. Ryder, J., Northrop, E., **Rudser, K.**, Kelly, A., Gao, Z., Khoury, P., Kimball, T., Dolan, L., Urbina, E. “Accelerated Early Vascular Aging Among Adolescents with Obesity and/or Type 2 Diabetes Mellitus.” *J Am Heart Assoc* 2020 May 18; 9(10):e014891. doi: 10.1161/JAHA.119.014891. PMID: PMC7660865
120. Schmitz, K., Bavendam, T., Brady, S., Brubaker, L., Burgio, K., Harlow, B., James, A., Lukacz, E., Miller, J., Newman, D., Palmer, M., **Rudser, K.**, Sutcliffe, S., for the Prevention of Urinary Tract Symptoms (PLUS) Consortium “Is the Juice Worth the Squeeze? Transdisciplinary Team Science in Bladder Health.” *Neurourol Urodyn* 2020 Jun;39(5):1601-1611. doi: 10.1002/nau.24357. PMID: PMC8112160
121. Alonso, A., Chen, L., **Rudser, K.**, Norby, F., Rooney, M., Lutsey, P. “Effect of Magnesium Supplementation on Circulating Biomarkers of Cardiovascular Disease.” *Nutrients* 2020 Jun 6; 12(6):1697. doi: 10.3390/nu12061697. PMID: PMC7352673

122. Oberle, M., Northrop, E., Bramante, C., **Rudser, K.**, Gross, A., Kelly, A. “Associations Between Paediatric Fatigue and Eating Behaviors.” *Obes Sci Pract* 2020 Jun 17; 6(5):507-515. doi: 10.1002/osp4.422. PMID: PMC7556416
123. Sutcliffe, S., Cain, C., Bavendam, T., Epperson, N., Fitzgerald, C., Gahagan, S., Markland, A., Shoham, D., Smith, A., **Rudser, K.** and the PLUS Research Consortium “Revisiting the Spectrum of Bladder Health: Relationships Between Lower Urinary Tract Symptoms and Multiple Measures of Well-Being.” *J Womens Health (Larchmt)* 2020 Aug;29(8):1077-1090. doi: 10.1089/jwh.2019.8167. PMID: PMC7462007
124. Siegel, L., **Rudser, K.**, Sutcliffe, S., Markland, A, Brubaker, L, Gahagan, S., Stapleton, A, Chu, H. “A Bayesian Multivariate Meta-Analysis of Prevalence Data.” *Stat Med* 2020 Oct 15; 39(23):3105-3119. doi: 10.1002/sim.8593. PMID: PMC7571488
125. Lewis, J., Brady, S., Sutcliffe, S., Smith, A., Mueller, E., **Rudser, K.**, Markland, A., Stapleton, A., Gahagan, S., Cunningham, S., and the PLUS Research Consortium “Converging on bladder health through design thinking: From an ecology of influence to a focused set of research questions.” *Int J Environ Res Public Health* 2020 Jun 17; 17(12):4340. doi: 10.3390/ijerph17124340. PMID: PMC7345219
126. Rooney, M., Lutsey, P., Alonso, A., Selvin, E., Pankow, J., **Rudser, K.**, Dudley, S., Chen, L. “Serum Magnesium and Burden of Atrial and Ventricular Arrhythmias: The Atherosclerosis Risk in Communities (ARIC) Study.” *J Electrocardiol* Sep-Oct 2020;62:20-25. doi: 10.1016/j.jelectrocard.2020.07.008. Epub 2020 Jul 22. PMID: PMC7665977
127. Behan, M., Nawshin, T., Nemanich, S., Kowalski, J., Sutter, E., Francis, S., Dubinsky, J., Freese, R., **Rudser, K.**, Gillick, B. “A Crossed-Disciplinary Evaluation of Parental Perceptions Surrounding Pediatric Non-Invasive Brain Stimulation Research.” *Int J Pharm Healthc Mark* 2020 Dec 10;14(4):623-640. doi: 10.1108/ijphm-01-2020-0005. PMID: PMC8301229
128. Czeck, M., Northrop, E., Evanoff, N., Dengel, D., **Rudser, K.**, Kelly, A., Ryder, J. “Relationship of Apolipoproteins with Subclinical Cardiovascular Risk in Youth.” *J Pediatr* 2020 Dec;227:199-203.e1. doi: 10.1016/j.jpeds.2020.08.017. PMID: PMC7686115
129. Kartha, R., Terluk, M., Brown, R., Travis, A., Mishra, U., **Rudser, K.**, Lau, H., Jarnes, J., Cloyd J., Weinreb, N. “Patients with Gaucher Disease Display Systemic Oxidative Stress Dependent on Therapy Status.” *Mol Genet Metab Rep* 2020 Dec 9;25:100667. doi: 10.1016/j.ymgmr.2020.100667. PMID: PMC7733024
130. Lund, T., Doherty, T., Eisengart, J., Freese, R., **Rudser, K.**, Fung, E., Miller, B., White, K., Orchard, P., Whitley, C., Polgreen, L. “Biomarkers for Prediction of Skeletal Disease Progression in Mucopolysaccharidosis Type I.” *Mol Genet Metab Rep* 2020 Dec 8; 58(1):89-99. doi: 10.1002/jmd2.12190. PMID: PMC7932872
131. Soltero, E., Solovey, A., Hebbel, R., Palzer, E., Ryder, J., Shaibi, G., Olson, M., Fox, C., **Rudser, K.**, Dengel, D., Evanoff, N., Kelly, A. “Relationship of Circulating Endothelial Cells with Obesity and Cardiometabolic Risk Factors in Children and Adolescents.” *J Am Heart Assoc* 2021 Jan 5; 10(1):e018092. doi: 10.1161/JAHA.120.018092. PMID: PMC7955458
132. Lukacz, E., Constantine, M., Low, L., Lowder, J., Markland, A., Mueller, E., Newman, D., Rickey, L., Rockwood, T., **Rudser, K.**, Prevention of Lower Urinary tract Symptoms (PLUS) Research Consortium “Rationale and Design of the Validation of Bladder Health Instrument for Evaluation in Women (VIEW) Protocol.” *BMC Womens Health* 2021 Jan 7; 21(1):18. doi: 10.1186/s12905-020-01136-w. PMID: PMC7789348
133. Rickey, L., Constantine, M., Lukacz, E., Lowder, J., Newman, D., Brubaker, L., **Rudser, K.**, Lewis, C., Low, L., Palmer, M., Rockwood, T. and the PLUS Research Consortium “Measuring Bladder Health: Development and Cognitive Evaluation of Items for a Novel Bladder Health Instrument.” *J Urol* 2021 May;205(5):1407-1414. doi: 10.1097/JU.0000000000001581. PMID: PMC8068674

134. Bensignor, M., Bomberg, E., Bramante, C., Divyalasya, T., Hale, P., Ramesh, C., **Rudser, K.**, Kelly, A. “Effect of Liraglutide Treatment on Body Mass Index and Weight Parameters in Children and Adolescents With Type 2 Diabetes: Post Hoc Analysis of the Ellipse Trial.” *Pediatr Obes* 2021 Aug;16(8):e12778. doi: 10.1111/ijpo.12778. PMID: PMC8277686
135. Fox, C., Palzer, E., **Rudser, K.**, Ryder, J., Kelly, A., Oberle, M., Bomberg, E., Bramante, C., Gross, A. “Contribution of Hedonic Hunger and Binge Eating to Childhood Obesity.” *Child Obes* 2021 Jun;17(4):257-262. doi: 10.1089/chi.2020.0177. PMID: PMC8147497
136. Rooney, M., Bell, E., Alonso, A., Pankow, J., Demmer, R., **Rudser, K.**, Chen, L., Lutsey, P. “Proton Pump Inhibitor Use, Hypomagnesemia and Risk of Cardiovascular Diseases: The Atherosclerosis Risk in Communities (ARIC) Study.” *J Clin Gastroenterol* 2021 Sep 1;55(8):677-683. doi: 10.1097/MCG.0000000000001420. PMID: PMC7921206
137. Newman, D., Burgio, K., Cain, C., Hebert-Beirne, J., Low, L., Palmer, M., Smith, A., Rickey, L., **Rudser, K.**, Gahagan, S., Harlow, B., James, A., Lacoursiere, D. Y., Hardacker, C., Wyman, J., Prevention of Lower Urinary Tract Symptoms (PLUS) Research Consortium “Toileting Behaviors and Lower Urinary Tract Symptoms: A Cross-sectional Study of Diverse Women in the United States.” *Int J Nurs Stud Adv* 2021 Nov; 3:100052. doi: 10.1016/j.ijnsa.2021.100052. PMID: PMC9053318
138. Bramante, C., Palzer, E., **Rudser, K.**, Ryder, J., Fox, C., Bomberg, E., Bensignor, M., Gross, A., Sherwood, N., Kelly, A. “BMI Metrics and Their Association With Adiposity, Cardiometabolic Risk Factors, and Biomarkers in Children and Adolescents.” *Int J Obes (Lond)* 2022 Feb; 46(2):359-365. doi: 10.1038/s41366-021-01006-x. PMID: PMC8926007
139. Kovac, K., Shapiro, E., **Rudser, K.**, Mueller, B., Eisengart, J., Delaney, K., Ahmed, A., King, K., Yund, B., Cowan, M., Raiman, J., Mamak, E., Harmatz, P., Shankar, S., Ali, N., Cagle, S., Wozniak, J., Lim, K., Orchard, P., Whitley, C., Nestrail, I. “Quantitative Brain MRI Morphology in Severe and Attenuated Forms of Mucopolysaccharidosis Type I.” *Mol Genet Metab* 2022 Feb; 135(2): 122-132. doi: 10.1016/j.ymgme.2022.01.001. PMID: PMC8898074
140. Saiote, C., Sutter, E., Xenopoulos-Oddsson, A., Rao, R., Georgieff, M., **Rudser, K.**, Peyton, C., Dean, D., McAdams, R., Gillick, B. “Study Protocol: Multimodal Longitudinal Assessment of Infant Brain Organization and Recovery in Perinatal Brain Injury” *Pediatr Phys Ther* 2022 Apr 1; 34(2): 268 – 276. doi: 10.1097/PEP.0000000000000886. PMID: PMC9200232
141. Bomberg, E., Palzer, E., **Rudser, K.** Kelly, A., Bramante, C., Seligman, H., Noni, F., Fox, C. “Anti-Obesity Medication Prescriptions by Race/Ethnicity and Use of an Interpreter in a Pediatric Weight Management Clinic” *Ther Adv Endocrinol Metab* 2022 Apr; 11;13:20420188221090009. doi: 10.1177/20420188221090009. PMID: PMC9005816
142. Sutcliffe, S., Cain, C., Bavendam, T., Fitzgerald, C., Gahagan, S., Markland, A., Shoham, D., Smith, A., **Rudser, K.**, Prevention of Lower Urinary Tract Symptoms Research Consortium “Changes in Bladder Health over Time: A Longitudinal Analysis of Adult Women in the Boston Area Community Health Survey.” *J Urol* 2022 May; 207(5): 1086 – 1095. doi: 10.1097/JU.0000000000002393. PMID: PMC9020460
143. Ahmed, A., **Rudser, K.**, King, K., Eisengart, J., Orchard, P., Shapiro, E., Whitley, C. “Quantifying Medical Manifestations in Hurler Syndrome With the Infant Physical Symptom Score: Associations With Long-Term Physical and Adaptive Outcomes.” *Mol Genet Metab* 2022 May; 136(1):22 – 27. doi: 10.1016/j.ymgme.2022.03.003. PMID: PMC9261749
144. Fox, C., Clark, J., **Rudser, K.**, Ryder, J., Gross, A., Nathan, B., Sunni, M., Dengel, D., Billington, C., Bensignor, M., Kelly, A. “Exenatide for weight-loss maintenance in adolescents with severe obesity: A randomized, placebo-controlled trial.” *Obesity (Silver Spring)* 2022 May; 30(5):1105 – 1115. doi.org/10.1002/oby.23395. PMID: PMC9050846

145. Bensignor, M., Wolf, J., **Rudser, K.**, Kelly, A., Arslanian, S. “Glucagon-Like Peptide-1 Receptor Agonists Prescribing Patterns in Adolescents with Type 2 Diabetes.” *Diabetes Obes Metab* 2022 Jul; 24(7):1380 – 1384. doi: 10.1111/dom.14681. PMID: PMC9177669
146. Wyman, J., Cain, C., Epperson, N., Fitzgerald, C., Gahagan, S., Newman, D., **Rudser, K.**, Smith, A., Vaughan, C., Sutcliffe, S., PLUS Research Consortium “Urination Frequency Ranges in Healthy Women” *Nurs Res* 2022 Sep-Oct; 71(5):341-352. doi: 10.1097/NNR.0000000000000595. PMID: PMC9420750
147. Saunders, S., Clark, J., **Rudser, K.** Chauhan, A., Ryder, J., Bolan, P. “Comparison of Automatic Liver Volumetry Performance Using Different Types of Magnetic Resonance Images” *Magn Reson Imaging* 2022 Sep; 91:16 – 23. doi: 10.1016/j.mri.2022.05.002. PMID: PMC9812021
148. Sahasrabudhe, S., Terluk, M., **Rudser, K.**, Cloyd J., Kartha, R. “Biological Variation in Peripheral Inflammation and Oxidative Stress Biomarkers in Individuals with Gaucher Disease.” *Int J Mol Sci* 2022 Aug; 23(16):9189. doi: 10.3390/ijms23169189. PMID: PMC9409136
149. Brubaker, L. Nodora, J., Bavendam, T., Connett, J., Claussen, A., Lewis, C., **Rudser, K.**, Sutcliffe, S., Wyman, J., Miller, J. “A Policy Toolkit for Authorship and Dissemination Policies May Benefit NIH Research Consortia.” *Account Res* 2022 Sep; 1-19. doi: 10.1080/08989621.2022.2116318. PMID: PMC9975116
150. Jang, S., Palzer, E., **Rudser, K.**, Fox, C., Heibel, R., Dengel, D., Milbauer, L., Kelly, A., Ryder, J. “Relationship of Endothelial Microparticles to Obesity and Cardiovascular Disease Risk in Children and Adolescents” *J Am Heart Assoc* 2022 Nov; 11(22):e026430. doi: 10.1161/JAHA.122.026430. PMID: PMC9750066
151. Cain, C., Murray, T., **Rudser, K.**, Rothman, A., Melzer, A., Joseph, A., Vock, D. “Design Considerations and Analytical Framework for Reliably Identifying a Beneficial Individualized Treatment Rule.” *Contemp Clin Trials* 2022 Dec; 123:106951. doi: 10.1016/j.cct.2022.106951.
152. Smith, A., **Rudser, K.**, Harlow, B., McGwin G., Barthold, J., Brady, S., Brubaker, L., Cunningham, S., Griffith, J., Kenton, K., Klusaritz, H., Lewis, C., Lukacz E., Maki, J., Markland, A., Mueller, E., Newman, D., Nodora, J., Rickey, L., Rockwood, T., Simon, M., Wyman, J., Sutcliffe, S., Prevention of Lower Urinary Tract Symptoms (PLUS) Research Consortium “RISE FOR HEALTH: Rationale and Protocol for a Prospective Cohort Study of Bladder Health in Women.” *Neurourol Urodyn* 2022 Nov; doi: 10.1002/nau.25074. PMID: PMC10151425
153. Lukacz, E., Falke, C., Geynisman-Tan, J., Wyman, J., Mueller, E., Markland, A., Rickey, L., Lowder, J., **Rudser, K.**, Low, L., Newman, D., and the PLUS Research Consortium “Healthy Bladder Storage and Emptying Functions in Community-Dwelling Women Measured by a 2-Day Bladder Health Diary.” *Neurourol Urodyn* 2023 Apr; 42(4):725–735. doi: 10.1002/nau.25169. Epub 2023 Mar 9. PMID: PMC10101892
154. Constantine, M., Rockwood, T., Rickey, L., Bavendam, T., Low, L., Lowder, J., Markland, A., McGwin, G., Mueller, E., Newman, D., Putnam, S., **Rudser, K.**, Smith, A., Stapleton, A., Miller, J., Lukacz, E., and the PLUS Research Consortium “Validation of Bladder Health Scales and Function Indices for Women’s Research.” *Am J Obstet Gynecol* 2023 May; 228(5):566.e1-566.e14. doi: 10.1016/j.ajog.2022.12.319. Epub 2022 Dec 31.
155. Brubaker, L., Barthold, J., Fitzgerald, C., Kenton, K., Lewis, C., Lowder, J., Lukacz E., Markland, A., Meister, M., Miller, J., Mueller, E., **Rudser, K.**, Smith, A., Newman, D., and the Prevention of Lower Urinary Tract Symptoms (PLUS) Research Consortium “The RISE FOR HEALTH Study: Methods for In-Person Assessment and Biospecimen Collection.” *Neurourol Urodyn* 2023 Jun; 42(5): 1011–1021. doi: 10.1002/nau.25108. PMID: PMC10290574
156. Fitzgerald, C., Fok, C., Kenton, K., Lukacz E., Markland, A., Meister, M., Newman, D., **Rudser, K.**, Smith, E., Wyman, J., Lowder, J., Prevention of Lower Urinary Tract Symptoms (PLUS) Research

- Consortium “The RISE FOR HEALTH Study: Methods for In-Person Musculoskeletal Assessment.” *Neurol Urodyn* 2023 Jun; 42(5): 1022–1035. doi: 10.1002/nau.25086. PMID: PMC10236941
157. Newman, D., Lowder, J., Meister, M., Low, L., Fitzgerald, C., Fok, C., Geynisman-Tan, J., Lukacz E., Markland, A., Putnam, S., **Rudser, K.**, Smith, A., Miller, J., and the Prevention of Lower Urinary Tract Symptoms (PLUS) Research Consortium “Comprehensive Pelvic Muscle Assessment: Developing and Testing a Dual e-Learning and Simulation-based Training Program.” *Neurol Urodyn* 2023 Jun; 42(5): 1036–1054. doi: 10.1002/nau.25125. PMID: PMC10293112
158. Beamish, A., Dengel, O., Palzer, E., Gronowitz, E., Kelly, A., Dengel, D., **Rudser, K.**, Brissman, M., Olbers, T., Dahlgren, J., Flodmark, C-E., Marcus, C., Ryder, J. “Changes in Adipose Tissue Distribution and Relation to Cardiometabolic Risk Factors After Roux-en-Y Gastric Bypass in Adolescents.” *Surg Obes Relat Dis* 2023 Oct;19(10):1154-1161. doi: 10.1016/j.soard.2023.04.326.
159. Markland, A., Bavendam, T., Cain, C., Epperson, N., Fitzgerald, C., LaCoursiere, Y., Shoham, D., Smith, A., Sutcliffe, S., **Rudser, K.**; Prevention of Lower Urinary Tract Symptoms Research Consortium “Occupational Groups and Lower Urinary Tract Symptoms: A Cross-Sectional Analysis of Women in the Boston Area Community Health Study.” *Neurol Urodyn* 2024 Jan;43(1):88-104. doi: 10.1002/nau.25292.
160. Wanous, A., Brown, R., **Rudser, K.**, Roberts, K. “Comparison of Laryngeal Mask Airway and Endotracheal Tube Placement in Neonates.” (Accepted: *J Perinatol*) 2023 Nov 2. doi: 10.1038/s41372-023-01818-x

## Submitted Work

\_\_\_ = advised by Dr. Rudser

161. DeCleene, J., Lam, T., Vempati, S., Butts, J., **Rudser, K.**, Jancik, J. “Comparison of two insulin regimens for the treatment of hyperkalemia in critically ill patients with renal insufficiency” (Submitted: *J Intensive Care Med*)
162. Bomberg, E., Clark, J., **Rudser, K.** Gross, A., Kelly, A., Fox, C. “Efficacy and Predictors of Weight Loss Response to Phentermine among Youth in a Pediatric Weight Management Clinical Setting.” (Submitted: *Obesity*)
163. Gross, A., Freese, R., Bensignor, M., Bomberg, E., Dengel, D., Fox, C., **Rudser, K.**, Ryder, J., Bramante, C., Raatz, S., Lim, F., Hur, C., Kelly, A. “Financial Incentives Enhance Treatment Outcomes in Adolescents with Severe Obesity: A Randomized Clinical Trial.” (Submitted: *JAMA*)
164. Rickey, L., Mueller, E., Newman, D., Markland, A., Falke, C., **Rudser, K.**, Smith, A., Mueller, M., Lowder, J., Lukacz, E., for the PLUS Research Consortium “Reliability of Uroflowmetry Pattern Interpretation in Adult Women.” (Submitted: *Neurol Urodyn*)
165. Lukacz, E., Fok, C., Bryant, M., Rodriguez-Ponciano, D., Meister, M., Mueller, M., Lewis, C., Lowder, J., Smith, A., Stapleton, A., Ayala, A., Pakpahan, R., Horstch, S., Putnam, S., **Rudser, K.**, Song, S., Knight, R., Brubaker, L., and the PLUS Research Consortium “Feasibility of Home Collection for Urogenital Microbiome Samples.” (Submitted: *Neurol Urodyn*)

## Book Chapters

1. Gillick, B., Friel, K., Menk, J., **Rudser, K.** “Therapeutic Brain Stimulation Trials in Children with Cerebral Palsy.” in Pediatric Brain Stimulation: Mapping and Modulating the Developing Brain edited by Kirton, A. and Gilbert, D. San Diego: Academic Press, 2016.

## Talks and Presentations

**International Biometric Society - WNAR 2005**, Anchorage, AK; June 2005

Contributed Talk: *Implementing Type I & Type II Error Spending For Two-Sided Group Sequential Designs*

**International Biometric Conference - IBC 2006**, Montreal, Canada; July 2006

Contributed Talk: *Nonparametric Regression Analysis of Restricted Means and Quantiles in the Presence of Right Censored Data*

**San Diego State University, Department of Statistics**, San Diego, CA; March 2007

Invited Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**University of Washington Department of Biostatistics**, Seattle, WA; May 2007

Invited Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**University of Colorado Denver Health Science Center, Division of Epidemiology and Biostatistics**, Denver, CO; May 2007

Invited Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**International Biometric Society - WNAR 2007**, Irvine, CA; July 2007

Contributed Talk: *Nonparametric Inference for Arbitrary Functionals of Survival*

**Joint Statistical Meetings - JSM 2007**, Salt Lake City, UT; August 2007

Contributed Talk: *Variable Importance in Highly Predictive Models*

**American Society of Nephrology Renal Week**, San Francisco, CA; November 2007

Contributed Poster: *Fracture Risk Following Parathyroidectomy Among Chronic Hemodialysis Patients*

**University of Minnesota, Division of Biostatistics**, Minneapolis, MN; February 2008

Invited Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**Oregon Health & Science University, Department of Public Health and Preventive Medicine**, Portland, OR; February 2008

Invited Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**International Biometric Conference - IBC 2008**, Dublin, Ireland; July 2008

Contributed Talk: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**Joint Statistical Meetings - JSM 2008**, Denver, CO; August 2008

Contributed Poster: *Separating Borrowing Information and Forming Contrasts: Nonparametric Inference for Arbitrary Functionals of Survival*

**Alport Syndrome Treatments and Outcomes Registry Research Collaborative Meeting**, Minneapolis, MN; July 2009

Invited Talk: *Alport Syndrome Research Collaborative Meeting: Statistical Aspects for Clinical Trial Options*

**Joint Statistical Meetings - JSM 2009**, Washington, D.C.; August 2009

Invited Talk: *Distribution-free Inference for Arbitrary Functionals of Survival*

**Lysosomal Disease Network WORLD Symposium**, Miami, FL; February 2010  
Invited Talk: *Statistical Issues in Clinical Trials: Information Growth in Longitudinal Trials*

**Joint Statistical Meetings - JSM 2010**, Vancouver B.C.; August 2010  
Invited Talk: *Distribution-free Inference for Arbitrary Functionals of Survival*

**Joint Statistical Meetings - JSM 2012**, San Diego, CA; August 2012  
Contributed Talk: *Recursive Partitioning and Locally Weighted Conditional Distributions for Censored Quantile Regression*

**University of Minnesota Community Research Institute**, Minneapolis, MN; November 2012  
Invited Talk: *Statistical Aspects for Study Design, Monitoring, and Analysis*

**Society for Clinical Trials Annual Meeting - SCT 2013**, Boston, MA; May 2013  
Contributed Talk: *Sample Size and Screening Size Trade Off in the Presence of Subgroups with Different Expected Treatment Effects*

**University of Minnesota Advanced Research Program**, Minneapolis, MN; June 2013  
Invited Talk: *Statistical Aspects for Study Design, Monitoring, and Analysis*

**Joint Statistical Meetings - JSM 2013**, Montréal, Canada; August 2013  
Contributed Talk: *Trial Duration and Sample Size Trade Off When There Are Subgroups with Different Expected Treatment Effects*

**University of Minnesota Community Research Institute**, Minneapolis, MN; October 2013  
Invited Talk: *Statistical Aspects for Study Design, Monitoring, and Analysis*

**University of Minnesota Summer Institute in Biostatistics**, Minneapolis, MN; June 2014  
Invited Talk: *The Role of Biostatisticians in Clinical and Translational Science*

**University of Minnesota Advanced Research Program**, Minneapolis, MN; June 2014  
Invited Talk: *Formulating the Research Question: Statistical Aspects for Study Design, Monitoring, and Analysis*

**Joint Statistical Meetings - JSM 2014**, Boston, MA; August 2014  
Contributed Talk: *Stacked Survival Models for Weighted Methods with Censoring*

**International Biometric Society - ENAR 2015**, Miami, FL; March 2015  
Contributed Talk: *Stacked Survival Models for Censored Quantile Regression*

**Joint Statistical Meetings - JSM 2015**, Seattle, WA; August 2015  
Contributed Talk: *Stacked Survival Models for Censored Quantile Regression*

**University of Washington Department of Biostatistics, Department Retreat**, Semiahmoo, WA; September 2015  
Invited Talks: *Culture Shock: Transition from Graduate School to Faculty; Culture Shock: UW Biostatistics vs. Elsewhere; Future Biostatistical Needs*

**University of Minnesota Summer Institute in Biostatistics**, Minneapolis, MN; June 2016  
Invited Talk: *The Role of Biostatisticians in Clinical and Translational Science*

**University of Minnesota Summer Institute in Biostatistics**, Minneapolis, MN; June 2017  
Invited Talk: *The Role of Biostatisticians in Clinical and Translational Science*

**University of Minnesota Summer Institute in Biostatistics**, Minneapolis, MN; June 2018  
Invited Talk: *The Role of Biostatisticians in Clinical and Translational Science*

**University of Minnesota Human Research Protection Program**, Minneapolis, MN;  
December 2018  
Invited Talk: *Adaptive Clinical Trial Designs in HRPP Review*

**Center for Orphan Drug Research, University of Minnesota**, Minneapolis, MN; October 2019  
 Invited Talk: *Design of Pragmatic Clinical Trials*

**Joint Statistical Meetings - JSM 2020**; Virtual, August 2020  
 Contributed Talk: *Adjusted Survival Comparisons at Fixed Points in Time*

**American Association for Public Opinion Research - AAPOR 2021**; Virtual, May 2021  
 Contributed Talk: *Time to Break and Breakoff for Computer-Assisted Survey of Bladder Health*

**Research Day, School of Public Health, University of Minnesota**; Minneapolis, MN, April 2023  
 Invited Talk: *Community Engaged Research at the Division of Biostatistics Coordinating Centers for Biometric Research (CCBR)*

## Instruction

### *University of Minnesota*

#### **Courses**

PubH 7430 Statistical Methods for Correlated Data	Fall 2009
PubH 3415/7415 Clinical Trials	Summer 2016
PubH 7465 Biostatistics Consulting	Spring 2012 – 2015, 2017 – 2022; Fall 2022, 2023

#### **Instructor**

PubH 8494 Directed Research in Biostatistics “Group Sequential Clinical Trial Designs” Partial fulfillment of Ph.D. requirements for a graduate student in Health Informatics with Biostatistics as the supporting program	Spring 2011
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#### **Guest Lecturer**

KIN 8980 - Graduate Research Seminar “Topics in Biostatistics: Statistics in Clinical and Translational Science”	Spring 2016
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### *University of Washington*

#### **Lecturer**

BIOST 578 & 580 - Functional Biostatics Computing (number change in 2006)	Summer 2005 – 2007
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#### **Teaching Assistant**

STAT 512 - Statistical Inference	Fall 2003
STAT 513 - Statistical Inference	Winter 2004

#### **Guest Lecturer**

BIOST 517 & 518 - Applied Biostatistics I & II	2005 – 2007
BIOST 572 - Advanced Regression Methods: Machine Learning	2007

**Advising/Mentoring***University of Minnesota***Academic advisor:**

Li-Yu Lin, M.P.H.	Fall 2009 – 2011
Timothy Weaver, M.S.	Fall 2010 – Spring 2012
Xiaoye Ma, Ph.D.	Fall 2010 – Spring 2013
Reilly Hourigan, M.S.	Fall 2012 – Spring 2014
Andrew Nicklawsky, M.S.	Fall 2012 – Spring 2014
Cynthia Basu, Ph.D.	Fall 2013 – Fall 2014
Eliseo Acevedo Diaz, M.S.	Fall 2015 – 2016
Jin Jin, M.S.	Fall 2014 – 2017
James Normington, M.S.	Fall 2014 – 2016
Luoxi Shi, M.S.	Fall 2016 – Spring 2018
Elizabeth Gearhart, M.S.	Fall 2016 – Fall 2018
Michael Petzold, M.S.	Fall 2016 – Summer 2019
Katherine Knutson, M.S.	Fall 2017 – Spring 2019
Yuxin Guo, Ph.D.	Fall 2018 – Spring 2022
Justin Clark, Ph.D.	Fall 2019 – Present
Ling Chen, M.S.	Fall 2021 – Present
Yuntian Zuo, M.S.	Fall 2021 – Present
Wang, Wei, Ph.D.	Fall 2022 – Present
Wang, Zilin, M.S.	Fall 2022 – Present

**Sponsored Research (RA) Advising:**

Edward Bendert	Fall 2008 – Summer 2010
Wei Feng	Summer 2009
Kelsey Walt	Spring 2010
Lisa Henn	Fall 2010 – Summer 2013
Brandon Coombes	Fall 2011 – Summer 2013
Jun Young Park	Fall 2013 – Spring 2014
Andrew Nicklawsky	Spring 2014
Andrew Wey	Summer 2010 – Summer 2014
Michael O'Connell	Fall 2013 – Summer 2015
Chuyu Deng	Fall 2016 – Spring 2017
Alex Kaizer	Fall 2014 – Summer 2017
Yuan Zhang	Fall 2017 – Summer 2018
Roland Brown	Fall 2014 – Summer 2019
Zhenxun Wang	Summer 2018 – Summer 2020
Michelle Sonnenberger	Fall 2019 – Summer 2020
Mengli Xiao	Fall 2020
Charles Cain	Fall 2016 – Summer 2021
Elise Northrop	Fall 2017 – Spring 2022
Kollin Rott	Summer 2022
Justin Clark	Fall 2019 – Spring 2022; Fall 2022 – Present
Jack Wolf	Fall 2020 – Present
Chloe Falke	Fall 2021 – Spring 2022; Fall 2022 – Present

**M.S. Plan B Project (Thesis) Committee:**

Xiaoye Ma, Division of Biostatistics	2012
“Tutorial in Biostatistics: Statistical Methods for Meta-analysis of Diagnostic Tests”	
Reilly Hourigan, Division of Biostatistics	2014
“Evaluating the Impact of Phase I Design Specification on the Drug Development Process”	

Lauren O’Keefe, Division of Biostatistics “Assessing Treatment Effect Heterogeneity Using Conditional Inference Trees”	2015
Luoxi Shi, Division of Biostatistics “Analysis of Area Under the Curve for Longitudinally Measured Biomarkers with Missing Data in a Randomized Trial Studying the Effect of Nicotine Reduction on Biomarker Exposure”	2018
Elizabeth Gearhart, Division of Biostatistics “A comparison of Bayesian methods for incorporating supplementary data into the analysis of a clinical trial”	2018
Tejaswini Phatak, Division of Health Policy and Management “Impact of Affordable Care Act on People with Pre-existing Conditions with Respect to Coverage and Access to Care Relative to Those Without Pre-Existing Conditions”	2020
Sarah Raatz, Pediatric Obesity Medicine “Impact of Parental Bariatric Surgery on Pediatric Weight Management Engagement”	2021
Yuxin Guo, Division of Biostatistics “An Application of Bayesian GWAS with Structured and Non-Local Priors on Current Smokers in the COPD Gene Study”	2021
Yuntian Zuo, Division of Biostatistics “Survival Analysis for Competing Risks in Longitudinal Data”	2022
<b>M.S. Plan B Project (Thesis) Advisor:</b>	
Edward Bendert “Design Considerations in the Presence of Subgroups with Different Expected Treatment Effects”	2010
Andrew Wey “Recursive Partitioning Weights For Censored Quantile Regression”	2011
Kelsey Walt “Using Relative Risk Regression to Estimate the Risk of Otitis Media From Smoking Exposure In Minnesota American Indians Under the Age of Two”	2011
Andrew Nicklawsky “Stacked Survival Models for Censored Quantile Regression”	2014
James Normington “Stacked Survival Models for Restricted Mean Regression”	2016
Michael Petzold “Adjusted Survival Comparisons at Fixed Points in Time”	2019
Chen Ling, Division of Biostatistics “Sample Size and Power Calculations Accounting for Planned Imputation of Missing Data”	2023
<b>Ph.D. Dissertation Committee:</b>	
Natalie Schmitz, Department of Experimental and Clinical Pharmacology “Orphan Drug Development: The Regulatory, Economic and Scientific Aspects of Intravenous Baclofen”	2018
Mary Rooney, Division of Epidemiology “Serum Magnesium and Atherosclerosis Risk”	2019
Charles Cain, Division of Biostatistics “Statistical Considerations for Clinical Trials Aiming to Identify Individualized Treatment Rules”	2021
Mengli Xiao, Division of Biostatistics “Innovative Statistical Methods for Meta-Analyses With Between-Study Heterogeneity”	2021

**Ph.D. Dissertation Advisor:**

Andrew Wey (Co-advised with Dr. John Connett) 2014  
“Efficient Estimation of Nuisance Parameters in Semi-Parametric Survival Models”

**CTSI Translational Research Development Program Mentor**

Dr. Justin Ryder Fall 2014 – Fall 2016  
“Longitudinal assessment of novel biomarkers for predicting cardiovascular disease in youth”

Dr. Alena Svatkova Summer 2015 – Spring 2017  
“Revealing the Core of White Matter Alteration and Cognitive Deficits in Mucopolysaccharidosis Type 2”

**CTSI Pre-K Scholar Mentor:**

Dr. Byron Vaughn Spring 2015 – Winter 2017  
“A pilot study to characterize bile acid metabolism and dysbiosis in primary sclerosing cholangitis and inflammatory bowel disease”

**KL2 Scholar Mentor:**

Dr. Bernadette Gillick Summer 2013 – Fall 2014  
“Non-Invasive Brain Stimulation and Constraint-Induced Movement Therapy in Pediatric Hemiparesis”

Dr. Jazmin Camchong Spring 2016 – Fall 2016  
“Brain Functional Connectivity During Early Recovery in Alcohol Use Disorder as a Marker for Relapse”

Dr. Stephanie Misono Summer 2015 – Spring 2018  
“Dysphonia, Distress, and Control: Technology-based Assessment and Intervention”

Dr. Carolyn Bramante Fall 2019 – Summer 2022  
“Self-Weighing For Weight Management in Adolescents with Obesity.”

**CTSI K to R01 Transition Grant Mentor:**

Dr. Paul Drawz Spring 2014 – Fall 2016  
“Treatment of Masked Hypertension”