

Kyle D. Rudser

Division of Biostatistics, School of Public Health, University of Minnesota
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Education

University of Washington, Seattle, WA Ph.D. Biostatistics	2007
University of Washington, Seattle, WA M.S. Biostatistics	2005
St. Olaf College, Northfield, MN 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

Professor Division of Biostatistics, School of Public Health Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2021 – Present
Associate Professor Division of Biostatistics, School of Public Health Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2016 – 2021
Assistant Professor Division of Biostatistics, School of Public Health Biostatistical Design and Analysis Center, Clinical and Translational Science Institute University of Minnesota	2008 – 2016
Postdoctoral Senior Fellow Resuscitation Outcomes Consortium (ROC) Department of Biostatistics, University of Washington	2007 – 2008
Research Assistant Resuscitation Outcomes Consortium (ROC) Department of Biostatistics, University of Washington	2007
Statistical Consultant Division of Nephrology, University of Washington	2002 – 2007

Honors and Awards

University of Minnesota Clinical and Translational Science Institute Biostatistician Mentor of the Year Award	2016
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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	2020 – Present
Appointment, Promotion and Tenure Committee, School of Public Health	2021 – Present
Faculty Search Committee, Division of Biostatistics	2010, 2015, 2020, 2021 (x2)
Search Committee, Biostatistical Design and Analysis Center	2010, 2016, 2018 (x2), 2020
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 Functional Biostatistics Computing	2005 – 2007
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
International Biometric Society - Eastern North American Region	2009 – present
American Statistical Association	2009 – present
Society for Clinical Trials	2011 – present
Association of Clinical and Translational Statisticians	2019 – present
American Association for Public Opinion Research	2020 – 2021

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

CTSA Consortium Biostatistics/Epidemiology/Research Design (BERD) Key Function Committee: 2011 – 2014

Society for Clinical Trials Meeting Program Committee: 2020, 2021

Special Emphasis Panel Grant Review for NIDDK: 2020, 2021

Special Emphasis Panel Grant Review for NEI: 2017, 2018, 2020, 2021

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:10.1097/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., Metzigg, 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., Metzigg, A., Thalim, 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., Nestrasil, 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 α -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: 10.1007/9904_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- α 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
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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 14(4)623-640. doi: 10.1108/IJPHM-01-2020-0005
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. Besignor, 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. Bramante, C., Palzer, E., **Rudser, K.**, Ryder, J., Fox, C., Bomberg, E., Oberle, M., Gross, A., Kelly, A. "BMI Metrics and Their Association With Adiposity, Cardiometabolic Risk Factors, and Biomarkers in Children and Adolescents." *Int J Obes (Lond)* 2021 Oct 30. doi: 10.1038/s41366-021-01006-x.
138. Newman, D., Cain, C., Gahagan, S., Harlow, B., Low, L., Palmer, M., **Rudser, K.** and the PLUS Research Consortium "Toileting Behaviors and Lower Urinary Tract Symptoms: A Cross-sectional Study of Diverse Women in the United States." (Accepted: *Int J Nurs Stud*)
139. Saiote, C., Sutter, E., Xenopoulos-Oddsson, A., Rao, R., Georgieff, M., **Rudser, K.**, Dean, D., McAdams, R., Gillick, B. "Perinatal Stroke: Longitudinal Assessment of Infant Brain Organization and Recovery through Neuroexcitability, Neuroimaging and Motor Development" (Accepted: *Pediatric Physical Therap*)
140. Sutcliffe, S., Cain, C., Bavendam, T., Epperson, N., Fitzgerald, C., Gahagan, S., Markland, A., Shoham, D., Smith, A., Townsend, M., **Rudser, K.** and the PLUS Research Consortium "Insight Into Bladder Health Changes Over Time: The Relation Between Incident Lower Urinary Tract Symptoms and Interference With Activities in Women in the Boston Area Community Health Survey." (Accepted: *J Urol*)

Submitted Work

___ = advised by Dr. Rudser

141. Markland, A., Bavendam, T., Cain, C., Epperson, N., LaCoursiere, Y., Shoham, D., Smith, A., Sutcliffe, S., Townsend, M., **Rudser, K.** on behalf of the PLUS Consortium "Occupational Groups and Lower Urinary Tract Symptoms in Women." (Submitted: *Occup Med*)
142. Nodora, J., **Rudser, K.**, Schmitz, K., Palmer, M., Connett, J., Miller, J., Wyman, J., Lewis, B., Chai, T., Sutcliffe, S., Bavendam, T., Brubaker, L. and the PLUS Consortium "Patterns and Practice of Team Science Authorship in NIH Research Consortia." (Submitted: *Account Res*)
143. Cain, C., Murray, T., Vock, D., **Rudser, K.** "Simulation Based Approach to Calculate the Probability to Identify a Beneficial Individualized Treatment Rule." (Submitted: *Stat Med*)
144. 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." (Submitted: *Neurology*)
145. Wyman, J., Cain, C., Epperson, N., Fitzgerald, C., Gahagan, S., Markland, A., Newman, D., Shoham, D., Smith, A., Vaughan, C., Sutcliffe, S., **Rudser, K.** and the PLUS Research Consortium "Daytime and Nighttime Urination Frequencies in Healthy Women: What is the Range of Normal?" (Submitted: *J Womens Health*)
146. Fox, C., **Rudser, K.**, Clark, J., Ryder, J., Gross, A., Nathan, B., Sunni, M., Dengel, D., Billington, C., Bensignor, M., Kelly, A. "Enhancing Weight Loss Maintenance with Pharmacotherapy in Adolescents with Severe Obesity: A Randomized, Placebo-Controlled Trial of Exenatide" (Submitted: *JAMA Pediatr*)
147. 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" (Submitted: *Ther Adv Endocrinol Metab*)
148. Saunders, S., Clark, J., **Rudser, K.** Chauhan, A., Ryder, J., Bolan, P. "Liver Volumetry from Magnetic Resonance Images with Convolutional Neural Networks" (Submitted: *Magn Reson Med*)
149. Bensignor, M., Wolf, J., **Rudser, K.**, Kelly, A., Arslanian, S. "Glucagon-Like Peptide-1 Receptor Agonists Prescribing Patterns in Adolescents with Type 2 Diabetes" (Submitted: *Pediatr Diabetes*)

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*

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 – 2021

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 Biostatistics 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 – Present
Justin Clark, Ph.D.	Fall 2019 – Present
Ling Chen, M.S.	Fall 2021 – Present
Yuntian Zuo, M.S.	Fall 2021 – 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 – Present
Elise Northrop	Fall 2017 – Present
Justin Clark	Fall 2019 – Present
Jack Wolf	Fall 2020 – Present
Conner Falke	Fall 2021 – 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	2015
“Assessing Treatment Effect Heterogeneity Using Conditional Inference Trees”	

- Luoxi Shi, Division of Biostatistics 2018
 “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”
- Elizabeth Gearhart, Division of Biostatistics 2018
 “A comparison of Bayesian methods for incorporating supplementary data into the analysis of a clinical trial”
- Tejaswini Phatak, Division of Health Policy and Management 2020
 “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”
- Sarah Raatz, Pediatric Obesity Medicine 2021
 “Impact of Parental Bariatric Surgery on Pediatric Weight Management Engagement”
- Yuxin Guo, Division of Biostatistics 2021
 “An Application of Bayesian GWAS with Structured and Non-Local Priors on Current Smokers in the COPDGene Study”
- M.S. Plan B Project (Thesis) Advisor:**
- Edward Bendert 2010
 “Design Considerations in the Presence of Subgroups with Different Expected Treatment Effects”
- Andrew Wey 2011
 “Recursive Partitioning Weights For Censored Quantile Regression”
- Kelsey Walt 2011
 “Using Relative Risk Regression to Estimate the Risk of Otitis Media From Smoking Exposure In Minnesota American Indians Under the Age of Two”
- Andrew Nicklawsky 2014
 “Stacked Survival Models for Censored Quantile Regression”
- James Normington 2016
 “Stacked Survival Models for Restricted Mean Regression”
- Michael Petzold 2019
 “Adjusted Survival Comparisons at Fixed Points in Time”
- Ph.D. Dissertation Committee:**
- Natalie Schmitz, Department of Experimental and Clinical Pharmacology 2018
 “Orphan Drug Development: The Regulatory, Economic and Scientific Aspects of Intravenous Baclofen”
- Mary Rooney, Division of Epidemiology 2019
 “Serum Magnesium and Atherosclerosis Risk”
- Charles Cain, Division of Biostatistics 2021
 “Statistical Considerations for Clinical Trials Aiming to Identify Individualized Treatment Rules”
- Mengli Xiao, Division of Biostatistics 2021
 “Innovative Statistical Methods for Meta-Analyses With Between-Study Heterogeneity”
- 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”