Kyle D. Rudser

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

University of Washington, Seattle, WA 2007
Ph.D. Biostatistics

University of Washington, Seattle, WA 2005
M.S. Biostatistics

St. Olaf College, Northfield, MN 2002
B.A. Chemistry and Mathematics with concentration in Statistics

Statistical Research Interests

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

Statistical Appointments and Positions

Director 2022 – Present
Biostatistical Design and Analysis Center, Clinical and Translational Science Institute
University of Minnesota

Professor 2021 – Present
Division of Biostatistics and Health Data Science, School of Public Health
Biostatistical Design and Analysis Center, Clinical and Translational Science Institute
University of Minnesota

Associate Professor 2016 – 2021
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

Assistant Professor 2008 – 2016
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

Postdoctoral Senior Fellow 2007 – 2008
Resuscitation Outcomes Consortium (ROC)
Department of Biostatistics, University of Washington

Research Assistant 2007
Resuscitation Outcomes Consortium (ROC)
Department of Biostatistics, University of Washington

Statistical Consultant 2002 – 2007
Division of Nephrology, University of Washington

Honors and Awards

University of Minnesota Office of Academic Clinical Affairs (OACA) Academies 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 (WNAR) 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 – 2024
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 NCATS: 2024

Special Emphasis Panel Grant Review for NEI: 2017, 2018, 2020, 2021, 2022 (x2), 2023, 2024

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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: PMC3181275

18. Kelly, A., Metzig, 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. PMCID: PMC3684414

19. Kelly, A., Gonzalez-Campoy, M., **Rudser, K.**, Katz, H., Metzig, 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: PMC3644851

27. Kelly, A., **Rudser, K.**, Nathan, B., Fox, C., Metzig, 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. PMCID: 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. PMCID: 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. PMCID: PMC4137866

30. Wey, A., Wang, L., **Rudser, K.** "Censored Quantile Regression with Recursive Partitioning Based Weights." *Biostatistics* 2014; Jan; 15(1):170-181. PMCID: 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. PMCID: PMC3939822

32. Wang, R., Braunlin, E., **Rudser, K.**, Dengel, D., Metzig, 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: PMC4420175

39. Kelly, A., **Rudser, K.**, Dengel, D., Kaufman, C., Reiff, M., Norris, A., Metzig, 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: 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. PMCID: PMC4762067

54. Perkins, S., Bacchetti, P., Davey, C., Lindsell, C., Mazumdar, M., Oster, R., Peduzzi, P., Rocke, 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. PMCID: PMC5074551

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Submitted Work

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174. 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*)

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179. Nodora, J., Rodriguez-Ponciano, D., Klusaritz, H., Williams, B., James, A., Putnam, S., **Rudser, K.**, Ayala, A., Hardacker, C., McGwin, G., Rockwood, T., and the PLUS Research Consortium "PLUS Consortium Latina/e Cross Cultural Review and Adaptation: A Systematic Approach for Cultural and Linguistic Adaptation of Study Instruments and Related Materials." (Submitted: *SSM Popul Health*)

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181. Low, L., Falke, C., Brady, S., Klusaritz, H., **Rudser, K.**, Norton, J., Sutcliffe, S., Cunningham, S., for the PLUS Research Consortium "Knowledge and Agentic Beliefs About Bladder Health in United States Community Dwelling Women: Associations With Social Drivers of Health." (Submitted: *Soc Sci Med*)

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 – 2024

Instructor

PubH 8494 Directed Research in Biostatistics — Spring 2011
"Group Sequential Clinical Trial Designs"
Partial fulfillment of Ph.D. requirements for a graduate student in Health Informatics with Biostatistics as the supporting program

Guest Lecturer

KIN 8980 - Graduate Research Seminar — Spring 2016
"Topics in Biostatistics: Statistics in Clinical and Translational Science"

University of Washington

Lecturer

BIOST 578 & 580 - Functional Biostatics Computing — Summer 2005 – 2007
(number change in 2006)

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 – Summer 2022
Ling Chen, M.S.	Fall 2021 – Spring 2023
Yuntian Zuo, M.S.	Fall 2021 – Spring 2023
Zilin Wang, M.S.	Fall 2022 – Summer 2024
Wei, Wang, Ph.D.	Fall 2022 – Present
Srinivasan, Aparna, M.S.	Fall 2023 – Present
Yuxuan Pan, M.S.	Fall 2024 – 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 Palzer	Fall 2017 – Spring 2022
Kollin Rott	Summer 2022
Justin Clark	Fall 2019 – Spring 2022; Fall 2022 – Summer 2024
Jack Wolf	Fall 2020 – Fall 2024
Chloe Falke	Fall 2021 – Spring 2022; Fall 2022 – Present
Lingfeng Huo	Fall 2024 – Present
Jamie Forschmiedt	Fall 2024 – 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"

Yuntian Zuo, Division of Biostatistics 2023
"Competing Risk Analysis of Adverse Events for Gemcitabine-Antibacterial Treatment

on Multiple Discontinued Reasons"

*Zilin Wang, Division of Biostatistics 2024
"Leveraging of External Data in Adaptive Sequential Pragmatic Trials: A Simulation of Hybrid Pragmatic Trials"

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"

Chen Ling, Division of Biostatistics 2023
"Sample Size and Power Calculations Accounting for Planned Imputation of Missing Data"

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"