

Maria Emília de Oliveira Montez Rath, Ph.D.
Curriculum Vitae – October 2017

EDUCATION

- 2008 **Ph.D. Biostatistics**, Boston University
Dissertation topic: *Models for non-additive interaction effects*.
Proposed a series of models that account for interactions in data with reduced complexity and easy interpretation.
Advisor: Cindy L. Christiansen
- 2001 **M.S. Statistics**, Univ. of Massachusetts, Amherst
- 1999 **B.S. Computer Oriented Mathematics**, Univ. of Massachusetts, Dartmouth
Minors in Physics and Portuguese

QUALIFICATIONS

- Expertise: Claims data analysis, methods for complex survey data, multiple imputation, survival analysis, linear regression, generalized linear models, mixed models, two-part models, bootstrap, visualization techniques
- Statistical Packages: SAS, Stata, R
- Computer Experience: C, Pascal, Prolog
- Languages: Portuguese (native), English (fluent), German (basic)
- Fast learner with excellent people skills
- Critical thinker who is always looking for better solutions

PROFESSIONAL EXPERIENCE

December 2016 to Present – **Senior Research Engineer: Senior Biostatistician**, Director of the Biostatistics Core, Division of Nephrology, Stanford University, Palo Alto, CA

- Place: Division of Nephrology, Department of Medicine, Stanford University School of Medicine, Palo Alto, CA
- Main responsibilities: Managing statistics personnel effort and project assignment to all clinical research projects within the division. Supervise master level biostatisticians. Provide statistical and programming support to researchers in the division.
- 40 hours/week

September 2013 to December 2016 – **Research Engineer: Biostatistician**, Stanford University, Palo Alto, CA

- Place: Division of Nephrology, Department of Medicine, Stanford University School of Medicine, Palo Alto, CA
- Main responsibilities: Provide statistical and programming support to researchers in the division. Managing statistics personnel effort and project assignment to all clinical research projects within the division. Supervise master level biostatisticians. Co-investigator in grant titled “The Handling of Missing Data Induced by Time-Varying Covariates in Comparative Effectiveness Research Involving HIV Patients.”
- 36 hours/week, 30 hours/week prior to April 2015

November 2010 to August 2013 – **Biostatistician**, Stanford University, Palo Alto, CA

- Place: Division of Nephrology, Department of Medicine, Stanford University School of Medicine, Palo Alto, CA
- Main responsibilities: Provide statistical and programming support to researchers in the division.
- 30 hours/week after November 2012, 10-15 hours/week prior to November 2012

June 2006 to May 2007 – **Junior Statistician**, Boston University, Boston, MA

- Place: Center for Health Quality, Outcomes and Economic Research (CHQOER), Veterans Health Administration (VA), Medical Center, Bedford, MA
- Main responsibilities: Statistical consultant providing statistical and programming support in several projects in health services quality and patient safety research including study design and statistical analysis.
- Projects:
 - o Study of gender differences in VA mental health service use with particular interest on the effects of age and psychiatric diagnosis
 - o Study looking at the racial disparities in patient safety indicator (PSI) in the VA
 - o Study of inappropriate prescribing for the elderly looking at the effects of the health care system and geriatric care.
- 10 hours/week

July 2001 to June 2006 – **Senior Programmer**, Boston University, Boston

- Place: CHQOER, VA Medical Center, Bedford, MA
- Main responsibilities: Main programmer for grant titled “Development and Application of Psychiatric Risk Adjustment Methods in the VA.” Responsible for data cleaning, data analysis, and elaboration of reports and manuscripts. Data collected for almost one million patients. Initial datasets contained several records per patient.
- Projects:
 - o Development of a risk adjustment system for patients with mental health and substance abuse use
 - o Comparison of different statistical models for cost prediction of psychiatric patients
 - o Comparison of different risk adjustment systems when applied to models to predict cost of treatment of psychiatric patients
 - o Comparison of use of the VA versus Medicare for patients using both health care systems
- 40 hours/week. In July 04 hours decreased to 20 hours per week.

September 2000 to May 2001 – **Statistical Consultant**, Univ. of Massachusetts, Amherst

- Place: Statistical Consulting Center and Data Analysis Group at the OIT services
- Main responsibilities: Consulting university researchers and companies in statistical questions and providing both statistical and programming support.
- 20 hours/week

June 2000 to August 2000 – **Programmer**, Univ. of Massachusetts, Amherst

- Place: Mathematics and Statistics Department
- Main responsibilities: Taking part in research project on automatic music accompaniment.
- 20 hours/week

September 1999 to May 2000 – **Teaching Assistant**, Univ. of Massachusetts, Amherst

- Place: Mathematics and Statistics Department
- Main responsibilities: Teaching review sessions, correcting homework and quizzes, as well as assisting students in an elementary statistics course.
- 20 hours/week

September 1997 to May 1999 – **Mathematics and Statistics Tutor**, Univ. of Massachusetts, Dartmouth

- Place: Math and Business Center
- Main responsibilities: Tutor. Helping students in their various mathematics and statistics courses. Teaching assistant for introductory statistics course.
- 20 hours/week

HONORS AND AWARDS

- American Statistical Association, Health Policy Statistics Section, Student Paper Award, 2004
- Anthony J. John Award for excellency in mathematics, UMass Dartmouth, 1998
- Participated in the 1998 and 1999 National Putnam Mathematical Exam (scored among top 15% of all participants).
- Chancellor's list all semesters at UMass Dartmouth.

GRANTS

Current Awards

- Patient-Centered Outcomes Research Institute (Desai PI) 10/01/13-10/31/16
Title: The handling of missing data induced by the inclusion of time-varying covariates in comparative effectiveness research involving HIV patients
Goal: To develop concrete guidelines on how to use MI in the context of partially observed outcomes and time-varying covariates.
Role: Co-Investigator

PUBLICATIONS

Montez-Rath, M.E., Kapphahn, K., Mathur, M.B., Mitani, A.A., Hendry, D.J. and Desai, M., 2017. Guidelines for Generating Right-Censored Outcomes from a Cox Model Extended to Accommodate Time-Varying Covariates. *Journal of Modern Applied Statistical Methods*, 16(1), p.6.

O'Shaughnessy MM, Liu S, **Montez-Rath ME**, Lafayette RA, Winkelmayr WC. Kidney Transplantation Rates Across Glomerulonephritis Subtypes in the United States. *Transplantation*. 2017 Oct;101(10):2636-2647. doi: 10.1097/TP.0000000000001657. PubMed PMID: 28207635.

Montez-Rath ME, Zheng Y, Tamura MK, Grubbs V, Winkelmayr WC, Chang TI. Hospitalizations and Nursing Facility Stays During the Transition from CKD to ESRD on Dialysis: An Observational Study. *J Gen Intern Med*. 2017 Aug 14. doi: 10.1007/s11606-017-4151-6. [Epub ahead of print] PubMed PMID: 28808869.

Kurella Tamura M, Liu S, **Montez-Rath ME**, O'Hare AM, Hall YN, Lorenz KA. Persistent Gaps in Use of Advance Directives Among Nursing Home Residents Receiving Maintenance Dialysis. *JAMA Intern Med*. 2017 Aug 1;177(8):1204-1205. doi: 10.1001/jamainternmed.2017.1618. PubMed PMID: 28520863.

Lin E, Kurella Tamura M, **Montez-Rath ME**, Chertow GM. Re-evaluation of re-hospitalization and rehabilitation in renal research. *Hemodial Int*. 2017 Jul;21(3):422-429. doi: 10.1111/hdi.12497. Epub 2016 Oct 20. PubMed PMID: 27766736; PubMed Central PMCID: PMC5398945.

Kim SM, Liu S, Long J, **Montez-Rath ME**, Leonard MB, Chertow GM. Declining Rates of Hip Fracture in End-Stage Renal Disease: Analysis From the 2003-2011 Nationwide Inpatient Sample. *J Bone Miner Res*. 2017 Jun 22. doi: 10.1002/jbmr.3201. [Epub ahead of print] PubMed PMID: 28639740.

Rhee JJ, Zheng Y, **Montez-Rath ME**, Chang TI, Winkelmayr WC. Associations of Glycemic Control With Cardiovascular Outcomes Among US Hemodialysis Patients With Diabetes Mellitus. *J Am Heart Assoc*. 2017 Jun 7;6(6). pii: e005581. doi: 10.1161/JAHA.117.005581. PubMed PMID: 28592463.

Vangala C, Lenihan CR, **Montez-Rath ME**, Nair SS, Navaneethan SD, Ramanathan V, Winkelmayr WC. Statin use and hip fractures in U.S. kidney transplant recipients. *BMC Nephrol*. 2017 May 1;18(1):145. doi: 10.1186/s12882-017-0559-9. PubMed PMID: 28460645; PubMed Central PMCID: PMC5412039.

Lenihan CR, Sukumaran Nair S, Vangala C, Ramanathan V, **Montez-Rath ME**, Winkelmayr WC. Proton Pump Inhibitor Use and Risk of Hip Fracture in Kidney Transplant Recipients. *Am J Kidney Dis*. 2017 May;69(5):595-601. doi: 10.1053/j.ajkd.2016.09.019. Epub 2016 Nov 17. PubMed PMID: 27866965.

Shen JI, Saxena AB, **Montez-Rath ME**, Chang TI, Winkelmayr WC. Angiotensin-converting enzyme inhibitor/angiotensin receptor blocker use and cardiovascular outcomes in patients initiating peritoneal dialysis. *Nephrol Dial Transplant*. 2017 May 1;32(5):862-869. doi: 10.1093/ndt/gfw053. PubMed PMID: 27190342.

Shen JI, Saxena AB, **Montez-Rath ME**, Leng L, Chang TI, Winkelmaye WC. Comparative effectiveness of angiotensin receptor blockers vs. angiotensin-converting enzyme inhibitors on cardiovascular outcomes in patients initiating peritoneal dialysis. *J Nephrol*. 2017 Apr;30(2):281-288. doi: 10.1007/s40620-016-0340-3. Epub 2016 Aug 2. PubMed PMID: 27485007; PubMed Central PMCID: PMC5446246.

Lenihan CR, **Montez-Rath ME**, Winkelmaye WC, Chang TI. Drug-Eluting Stents Versus Bare Metal Stents for Percutaneous Coronary Intervention in Kidney Transplant Recipients. *Transplantation*. 2017 Apr;101(4):851-857. doi: 10.1097/TP.0000000000001446. PubMed PMID: 27517730.

Kurella Tamura M, **Montez-Rath ME**, Hall YN, Katz R, O'Hare AM. Advance Directives and End-of-Life Care among Nursing Home Residents Receiving Maintenance Dialysis. *Clin J Am Soc Nephrol*. 2017 Mar 7;12(3):435-442. doi: 10.2215/CJN.07510716. Epub 2017 Jan 5. PubMed PMID: 28057703; PubMed Central PMCID: PMC5338713.

Saran R, Robinson B, Abbott KC, Agodoa LY, Albertus P, Ayanian J, Balkrishnan R, Bragg-Gresham J, Cao J, Chen JL, Cope E, Dharmarajan S, Dietrich X, Eckard A, Eggers PW, Gaber C, Gillen D, Gipson D, Gu H, Hailpern SM, Hall YN, Han Y, He K, Hebert H, Helmut M, Herman W, Heung M, Hutton D, Jacobsen SJ, Ji N, Jin Y, Kalantar-Zadeh K, Kapke A, Katz R, Kovesdy CP, Kurtz V, Lavalee D, Li Y, Lu Y, McCullough K, Molnar MZ, **Montez-Rath M**, Morgenstern H, Mu Q, Mukhopadhyay P, Nallamothu B, Nguyen DV, Norris KC, O'Hare AM, Obi Y, Pearson J, Pisoni R, Plattner B, Port FK, Potukuchi P, Rao P, Ratkowiak K, Ravel V, Ray D, Rhee CM, Schaubel DE, Selewski DT, Shaw S, Shi J, Shieu M, Sim JJ, Song P, Soohoo M, Steffick D, Streja E, Tamura MK, Tentori F, Tilea A, Tong L, Turf M, Wang D, Wang M, Woodside K, Wyncott A, Xin X, Zang W, Zepel L, Zhang S, Zho H, Hirth RA, Shahinian V. US Renal Data System 2016 Annual Data Report: Epidemiology of Kidney Disease in the United States. *Am J Kidney Dis*. 2017 Mar;69(3 Suppl 1):A7-A8. doi: 10.1053/j.ajkd.2016.12.004. Erratum in: *Am J Kidney Dis*. 2017 May;69(5):712. PubMed PMID: 28236831.

O'Shaughnessy MM, Cheng XS, **Montez-Rath ME**, Lafayette RA, Winkelmaye WC. Validating identification of patients with small vessel vasculitis, with or without renal involvement, using administrative healthcare records. *Clin Nephrol*. 2017 Mar;87 (2017)(3):159-162. doi: 10.5414/CN109035. PubMed PMID: 28102817.

Wilhelm-Leen E, **Montez-Rath ME**, Chertow G. Estimating the Risk of Radiocontrast-Associated Nephropathy. *J Am Soc Nephrol*. 2017 Feb;28(2):653-659. doi: 10.1681/ASN.2016010021. Epub 2016 Sep 29. PubMed PMID: 27688297; PubMed Central PMCID: PMC5280012.

O'Shaughnessy MM, Liu S, **Montez-Rath ME**, Lenihan CR, Lafayette RA, Winkelmaye WC. Kidney Transplantation Outcomes across GN Subtypes in the United States. *J Am Soc Nephrol*. 2017 Feb;28(2):632-644. doi: 10.1681/ASN.2016020126. Epub 2016 Jul 18. PubMed PMID: 27432742; PubMed Central PMCID: PMC5280017.

Anand S, Kondal D, **Montez-Rath M**, Zheng Y, Shivashankar R, Singh K, Gupta P, Gupta R, Ajay VS, Mohan V, Pradeepa R, Tandon N, Ali MK, Narayan KM, Chertow GM, Kandula N, Prabhakaran D, Kanaya AM. Prevalence of chronic kidney disease and risk factors for its progression: A cross-sectional comparison of Indians living in Indian versus U.S. cities. *PLoS One*. 2017 Mar 15;12(3):e0173554. doi: 10.1371/journal.pone.0173554. eCollection 2017. PubMed PMID: 28296920; PubMed Central PMCID: PMC5351850.

Hirozawa AM, **Montez-Rath ME**, Johnson EC, Solnit SA, Drennan MJ, Katz MH, Marx R. Multivariate Risk Adjustment of Primary Care Patient Panels in a Public Health Setting: A Comparison of Statistical Models. *J Ambul Care Manage*. 2016 Oct-Dec;39(4):333-42. doi: 10.1097/JAC.000000000000065. PubMed PMID: 27576054.

Eneanya ND, Hailpern SM, O'Hare AM, Kurella Tamura M, Katz R, Kreuter W, **Montez-Rath ME**, Hebert PL, Hall YN. Trends in Receipt of Intensive Procedures at the End of Life Among Patients Treated With Maintenance Dialysis. *Am J Kidney Dis*. 2016 Sep 29. pii: S0272-6386(16)30412-7. doi: 10.1053/j.ajkd.2016.07.028. PubMed PMID: 27693262.

Chang TI, Zheng Y, **Montez-Rath ME**, Winkelmayer WC. Antihypertensive Medication Use in Older Patients Transitioning from Chronic Kidney Disease to End-Stage Renal Disease on Dialysis. *Clin J Am Soc Nephrol*. 2016 Aug 8;11(8):1401-12. doi: 10.2215/CJN.10611015. Epub 2016 Jun 27. PubMed PMID: 27354656; PubMed Central PMCID: PMC4974886.

Hollander SA, **Montez-Rath ME**, Axelrod DM, Krawczeski CD, May LJ, Maeda K, Rosenthal DN, Sutherland SM. Recovery From Acute Kidney Injury and CKD Following Heart Transplantation in Children, Adolescents, and Young Adults: A Retrospective Cohort Study. *Am J Kidney Dis*. 2016 Aug;68(2):212-8. doi: 10.1053/j.ajkd.2016.01.024. Epub 2016 Mar 9. PubMed PMID: 26970941.

Kim SM, Long J, **Montez-Rath ME**, Leonard MB, Norton JA, Chertow GM. Rates and Outcomes of Parathyroidectomy for Secondary Hyperparathyroidism in the United States. *Clin J Am Soc Nephrol*. 2016 Jul 7;11(7):1260-7. doi: 10.2215/CJN.10370915. Epub 2016 Jun 6. PubMed PMID: 27269300; PubMed Central PMCID: PMC4934842.

Goldstein BA, Pencina MJ, **Montez-Rath ME**, Winkelmayer WC. Predicting mortality over different time horizons: which data elements are needed? *J Am Med Inform Assoc*. 2016 Jun 29. pii: ocw057. doi: 10.1093/jamia/ocw057. [Epub ahead of print] PubMed PMID: 27357832.

Kim SM, Long J, **Montez-Rath M**, Leonard M, Chertow GM. Hip Fracture in Patients with Non-Dialysis-Requiring Chronic Kidney Disease. *J Bone Miner Res*. 2016 May 4. doi: 10.1002/jbmr.2862. [Epub ahead of print] PubMed PMID: 27145189.

Abdalla S, **Montez-Rath ME**, Parfrey PS, Chertow GM. The win ratio approach to analyzing composite outcomes: An application to the EVOLVE trial. *Contemp Clin Trials*. 2016 May;48:119-24. doi: 10.1016/j.cct.2016.04.001. Epub 2016 Apr 11. PubMed PMID: 27080930.

May LJ, **Montez-Rath ME**, Yeh J, Axelrod DM, Chen S, Maeda K, Almond CS, Rosenthal DN, Hollander SA, Sutherland SM. Impact of ventricular assist device placement on longitudinal renal function in children with end-stage heart failure. *J Heart Lung Transplant*. 2016 Apr;35(4):449-56. doi: 10.1016/j.healun.2015.10.039. Epub 2015 Nov 11. PubMed PMID: 26653933.

O'Shaughnessy MM, **Montez-Rath ME**, Zheng Y, Lafayette RA, Winkelmayr WC. Differences in Initial Hemodialysis Vascular Access Use Among Glomerulonephritis Subtypes in the United States. *Am J Kidney Dis*. 2016 Apr;67(4):638-47. doi: 10.1053/j.ajkd.2015.11.019. Epub 2016 Jan 8. PubMed PMID: 26774466.

Chang TI, **Montez-Rath ME**, Tsai TT, Hlatky MA, Winkelmayr WC. Drug-Eluting Versus Bare-Metal Stents During PCI in Patients With End-Stage Renal Disease on Dialysis. *J Am Coll Cardiol*. 2016 Mar 29;67(12):1459-69. doi: 10.1016/j.jacc.2015.10.104. PubMed PMID: 27012407; PubMed Central PMCID: PMC4808241.

Tuohy CV, **Montez-Rath ME**, Turakhia M, Chang TI, Winkelman JW, Winkelmayr WC. Sleep disordered breathing and cardiovascular risk in older patients initiating dialysis in the United States: a retrospective observational study using medicare data. *BMC Nephrol*. 2016 Feb 9;17:16. doi: 10.1186/s12882-016-0229-3. PubMed PMID: 26861778; PubMed Central PMCID: PMC4748630.

O'Shaughnessy MM, **Montez-Rath ME**, Zheng Y, Lafayette RA, Winkelmayr WC. Differences in Initial Hemodialysis Vascular Access Use Among Glomerulonephritis Subtypes in the United States. *Am J Kidney Dis*. 2016 Apr;67(4):638-47. doi: 10.1053/j.ajkd.2015.11.019. Epub 2016 Jan 8. PubMed PMID: 26774466.

Kim SM, Shu AD, Long J, **Montez-Rath ME**, Leonard MB, Norton JA, Chertow GM. Declining Rates of Inpatient Parathyroidectomy for Primary Hyperparathyroidism in the US. *PLoS One*. 2016 Aug 16;11(8):e0161192. doi: 10.1371/journal.pone.0161192. eCollection 2016. PubMed PMID: 27529699; PubMed Central PMCID: PMC4986953.

O'Shaughnessy MM, **Montez-Rath ME**, Lafayette RA, Winkelmayr WC. Differences in initial treatment modality for end-stage renal disease among glomerulonephritis subtypes in the USA. *Nephrol Dial Transplant*. 2016 Feb;31(2):290-8. doi: 10.1093/ndt/gfv386. Epub 2015 Nov 25. PubMed PMID: 26610594.

Shen JI, **Montez-Rath ME**, Lenihan CR, Turakhia MP, Chang TI, Winkelmayr WC. Outcomes After Warfarin Initiation in a Cohort of Hemodialysis Patients With Newly Diagnosed Atrial Fibrillation. *Am J Kidney Dis*. 2015 Oct;66(4):677-88. doi: 10.1053/j.ajkd.2015.05.019. Epub 2015 Jul 7. PubMed PMID: 26162653; PubMed Central PMCID: PMC4584203.

Razzak Chaudhary S, Workeneh BT, **Montez-Rath ME**, Zolopa AR, Klotman PE, Winkelmayr WC. Trends in the outcomes of end-stage renal disease secondary to human immunodeficiency virus-associated nephropathy. *Nephrol Dial Transplant*. 2015

Oct;30(10):1734-40. doi: 10.1093/ndt/gfv207. Epub 2015 Jul 13. PubMed PMID: 26175146; PubMed Central PMCID: PMC4829059.

O'Shaughnessy MM, **Montez-Rath ME**, Lafayette RA, Winkelmayr WC. Patient characteristics and outcomes by GN subtype in ESRD. *Clin J Am Soc Nephrol*. 2015 Jul 7;10(7):1170-8. doi: 10.2215/CJN.11261114. Epub 2015 Jun 19. PubMed PMID: 26092830; PubMed Central PMCID: PMC4491300.

Anand S, Shivashankar R, Ali MK, Kondal D, Binukumar B, **Montez-Rath ME**, Ajay VS, Pradeepa R, Deepa M, Gupta R, Mohan V, Narayan KM, Tandon N, Chertow GM, Prabhakaran D; CARRS Investigators. Prevalence of chronic kidney disease in two major Indian cities and projections for associated cardiovascular disease. *Kidney Int*. 2015 Jul;88(1):178-85. doi: 10.1038/ki.2015.58. Epub 2015 Mar 18. PubMed PMID: 25786102; PubMed Central PMCID: PMC4490055.

Lenihan CR, **Montez-Rath ME**, Shen JI, Scandling JD, Turakhia MP, Chang TI, Winkelmayr WC. Correlates and outcomes of warfarin initiation in kidney transplant recipients newly diagnosed with atrial fibrillation. *Nephrol Dial Transplant*. 2015 Feb;30(2):321-9. doi: 10.1093/ndt/gfu323. Epub 2014 Oct 21. PubMed PMID: 25335507; PubMed Central PMCID: PMC4318917.

Arce CM, Lenihan CR, **Montez-Rath ME**, Winkelmayr WC. Comparison of longer-term outcomes after kidney transplantation between Hispanic and non-Hispanic whites in the United States. *Am J Transplant*. 2015 Feb;15(2):499-507. doi: 10.1111/ajt.13043. Epub 2014 Dec 30. PubMed PMID: 25556854.

Winkelmayr WC, Herzog CA, **Montez-Rath ME**, Chang TI, Chertow GM. Use of novel oral anticoagulants in patients with end-stage renal disease. *Hemodial Int*. 2015 Jan;19(1):150-3.

Chang TI, **Montez-Rath ME**, Shen JI, Solomon MD, Chertow GM, Winkelmayr WC. Thienopyridine use after coronary stenting in low income patients receiving maintenance dialysis enrolled in Medicare Part D. *J Am Heart Assoc*; 2014;3:e001356, originally published October 21, 2014,doi:10.1161/JAHA.114.001356

Sukumaran Nair S, Lenihan CR, **Montez-Rath ME**, Lowenberg DW, Chertow GM, Winkelmayr WC. Temporal trends in the incidence, treatment, and outcomes of hip fracture after first kidney transplantation in the United States. *Am J Transpl*. 2014; 14:943–951.

Shen JI, **Montez-Rath ME**, Mitani AM, Erickson KF, Winkelmayr WC. Correlates and variance decomposition analysis of heparin dosing for maintenance hemodialysis in older US patients. *Pharmacoepidemiol Drug Saf*. 2014; 23:515-525.

Montez-Rath ME, Winkelmayr WC, Desai M. Addressing missing data in clinical studies of kidney diseases. *Clin J Am Soc Nephrol*. 2014; 9:1328-35.

Cheung KL, **Montez-Rath ME**, Chertow GM, Winkelmayr WC, Periyakoil VS, Kurella Tamura M. Prognostic stratification in older adults commencing dialysis. *J Gerontol A Biol Sci Med Sci*; 2014; 69:1033-1039.

Lenihan CR, **Montez-Rath ME**, Winkelmayr WC, Chang TI. Multivessel coronary revascularization and outcomes in kidney transplant recipients. *Transpl Internat*. 2013; 26:1080-1087.

Lenihan CR, **Montez-Rath ME**, Scandling JC, Turakhia MP, Winkelmayr WC. Outcomes of kidney transplant recipients with preexisting atrial fibrillation. *Am J Transplant*. 2013;13:1566-75. doi: 10.1111/ajt.12197.

Yang JY, Lee TC, **Montez-Rath ME**, Chertow GM, Winkelmayr WC. Risk factors of short-term mortality after acute nonvariceal upper gastrointestinal bleeding in patients on dialysis: a population-based study. *BMC Nephrol* 2013; 14:97 doi:10.1186/1471-2369-14-97

Lenihan CR, **Montez-Rath ME**, Mora-Mangano CT, Chertow GM, Winkelmayr WC. Trends in acute kidney injury, associated use of dialysis, and mortality following cardiac surgery (1999-2008). *Ann Thorac Surg*; 2013; 95:20-28.

Chang TI, Shilane D, Kazi DS, **Montez-Rath ME**, Hlatky MA, Winkelmayr WC. Multivessel coronary artery bypass grafting versus percutaneous coronary intervention in ESRD. *J Am Soc Nephrol*; 2012; 23:2042–2049

Yang JY, Lee TC, **Montez-Rath ME**, Desai M, Winkelmayr WC: Trends in the Incidence of Intestinal Perforation in U.S. Dialysis Patients (1992-2005). *J Nephrol*; 2013;26:281-8.

Yang JY, Lee TC, **Montez-Rath ME**, Paik J, Chertow GM, Desai M, Winkelmayr WC: Trends in Acute Nonvariceal Upper Gastrointestinal Bleeding in Dialysis Patients. *J Am Soc Nephrol*; 2012; 23:495-506.

Chatterjee S, **Rath ME**, Spiro A 3rd, Eisen S, Sloan KL, Rosen AK. Gender Differences in Veterans Health Administration Mental Health Service Use: Effects of Age and Psychiatric Diagnosis. *Womens Health Issues*. 2009 May-Jun;19(3):176-84.

Shimada, S.L., **Montez-Rath, M.E.**, Loveland, S.A., Zhao, S., Kressin, N.R. & Rosen, A.K. Racial Disparities in Patient Safety Indicator (PSI) Rates in the Veterans Health Administration. In Henriksen K, Battles JB, Keyes MA, Grady ML, editors. *Advances in patient safety: New directions and alternative approaches*. Vol. 1. Assessment. AHRQ Publication No. 08-0034-1. Rockville, MD: Agency for Healthcare Research and Quality; August 2008.

Carey K, **Montez-Rath ME**, Rosen AK, Christiansen C, Loveland S, Ettner S. Use of VA and Medicare Services By Dually Eligible Veterans with Psychiatric Problems. *Health Services Research* 2008, 43(4):1164-1183

Pugh MJ, Rosen AK, **Montez-Rath M**, Amuan M, Fincke B, Burk M, Bierman A, Cunningham F, Berlowitz D. Potentially Inappropriate Prescribing for the Elderly: Effects of the Health Care System and Geriatric Care? *Medical Care* 2008, 46(2):167-173.

Montez-Rath M, Christiansen CL, Ettner SL, Loveland S, Rosen AK. Performance of statistical models to predict mental health and substance abuse cost. *BMC Medical Research Methodology* 2006, 6:53 (26Oct2006).

Rosen AK, Zhaos S, Rivard P, Loveland S, **Montez M**, Elixhauser A, and Romano P. Tracking Rates of Patient Safety Indicators over Time: Lessons from the VA. *Medical Care* 2006, 44(9): 850-861.

Sloan KL, **Montez-Rath ME**, Spiro A III, Christiansen CL, Loveland S, Shokeen P, Herz L, Eisen S, Breckenridge, JN, Rosen AK. Development and validation of a psychiatric case-mix system. *Medical Care* 2006, 44:568-580.

Rosen AK, Christiansen CL, **Montez ME**, Loveland S, Shokeen P, Sloan KL, and Ettner SL. Evaluating risk-adjustment methodologies for patients with mental health and substance abuse disorders in the Veterans Health Administration. *International Journal of Healthcare Technology and Management* 2006, 7 (1/2): 43-81.

Rosen AK, Gardner JA, **Montez ME**, Loveland S, Hendricks A. Dual system use: are there implications for risk adjustment and quality assessment? *American Journal of Medical Quality*, July/August 2005, 20 (4): 182-194.

Rosen AK, Wang F, **Montez ME**, Rakovski CC, Berlowitz DR, Lucove JC. Identifying Future High-Healthcare Users: Exploring the Value of Diagnostic and Prior Utilization Information. *Disease Management and Health Outcomes* 2005 13(2): 117-127.

Warner G, Hoenig, H, **Montez ME**, Wang F, Rosen AK. Evaluating diagnosis-based risk-adjustment methods in the spinal cord dysfunction population. *Archives of Physical Medicine and Rehabilitation* 2004, 85(2): 218-226.

OTHER PUBLICATIONS

Rosen AK, Trivedi P, Amuan M, & **Montez M**. The John Hopkins Adjusted Clinical Groups (ACGs) case-mix system: A risk-adjustment methodology currently available at the VA Austin Automation Center. VIREC Insights Vol. 4, No. 1. Hines, IL: VA Information Resource Center, 2003. Available at <http://virec.research.med.va.gov>.

Montez-Rath, M.E., Kapphahn, K., Mathur, M.B., Purington, N., Joyce, V.R. and Desai, M., 2017. Simulating realistically complex comparative effectiveness studies with time-varying covariates and right-censored outcomes. arXiv preprint arXiv:1709.10074.

Maya B. Mathur, Kristopher Kappahn, Ariadna Garcia, Manisha Desai and **Maria E. Montez-Rath** (2017). SimTimeVar: Simulate Longitudinal Dataset with Time-Varying Correlated Covariates. R package version 1.0.0.
<https://CRAN.R-project.org/package=SimTimeVar>

CONFERENCE PRESENTATIONS

Guidelines for generating right-censored outcomes from a Cox model extended to accommodate time-varying covariates (**Maria E. Montez-Rath**, Kristopher Kappahn, Maya Mathur, Aya Mitani, David Hendry, and Manisha Desai). Annual Meeting of the American Statistical Association/Joint Statistical Meetings, Seattle, WA, August 2015.

Generating Studies with Time-to-Event Outcomes and Correlated Time-Dependent Covariates (**Montez-Rath ME**, Mitani A, Kappahn K, Desai M). Annual Meeting of the American Statistical Association/Joint Statistical Meetings, Boston, MA, August 2014.

Performance of statistical models to predict mental health and substance abuse cost (**Montez-Rath ME**, Christiansen CL, Ettner SL, Loveland S, and Rosen AK). Annual Meeting of the American Statistical Association/Joint Statistical Meetings, Seattle, WA, August 2006.

Statistical Model Comparisons for Prediction of Mental Health and Substance Abuse Cost in the Veterans Health Administration (**Montez ME**, Christiansen CL, Loveland S, Ettner SL, Shokeen P, Rosen AK). Annual Meeting of the American Statistical Association/Joint Statistical Meetings, Toronto, Canada, August 2004.

Using Diagnoses-Based Risk-Adjustment Measures as Screening Tools for Identifying Future High-Risk Cases (**Montez M**, Rosen AK, Wang F, Rakovski C, Lucove J, Berlowitz D.) 2003 International Conference on Health Policy Research: Methodological Issues in Health Services and Outcomes Research, Chicago, Illinois October 2003.

Improving Prediction of a Risk-Adjustment Model for Patients with Mental Health and Substance Abuse Disorders. (**Montez M**, Loveland S, Trivedi P, Christiansen C, Spiro R III, Rosen AK) Academy Health Annual Research Meeting. Nashville, TN, June 2003.

Do Different Risk-Adjustment Measures Affect Assessments of Provider Efficiency? (Rosen AK, Trivedi P, **Montez M**, Loveland S, Christiansen C) Academy Health Annual Research Meeting. Nashville, TN, June 2003.

Dual Utilization: Implications for Concurrent and Prospective Risk-Adjustment Applications. (Rosen AK, Gardner J, **Montez M**, Loveland S, Hendricks A) International Health Economics Association (IHEA) Fourth International Conference, San Francisco, CA June 2003.

Do Different Outcomes and Modeling Techniques Affect Assessments of Network Efficiency in the VA?

Maria Montez, Amy Rosen, Carter Rakovski, Susan Loveland, Dan Berlowitz, Cindy Christiansen, 2002 International Johns Hopkins ACG Users Conference, Baltimore, Maryland April 2002.

How Well Does the CDPS Predict Utilization: a Comparison to Other Case-Mix Measures. (**Maria Montez**, Amy Rosen, Carter Rakovski, Susan Loveland, Cindy Christiansen, Dan Berlowitz) HSR&D 2002 National Meeting HSR&D, Washington D.C., February 2002

REFERENCES

References available upon request.