

# CHRISTOPHER T. RENTSCH



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## ACADEMIC QUALIFICATIONS

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- PhD** Epidemiology & Population Health, London School of Hygiene & Tropical Medicine, UK **2018**  
Thesis: *Point-of-contact interactive record linkage between demographic surveillance and health facilities to measure patterns of HIV service utilization in Tanzania*  
Thesis Advisor: Professor Basia Żaba
- PGDip** Advanced Quantitative Research Methods, London School of Hygiene & Tropical Medicine, UK **2017**  
Awarded with Distinction in Demography, Epidemiology & Population Health
- MPH** Global Epidemiology, Rollins School of Public Health, Emory University, US **2011**  
Thesis: *Acceptability of couples-based HIV counseling and testing amongst MSM in Cape Town, South Africa*  
Thesis Advisors: Dr. Rob Stephenson and Dr. Patrick Sullivan (GPA: 3.7/4.0)
- BA** Sociology, The Ohio State University, US **2008**  
Cum Laude with Honors in Arts and Sciences (GPA: 3.7/4.0)

## EMPLOYMENT

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- 08/20- Assistant Professor, Electronic Health Record Research Group, Department of Non-Communicable Disease Epidemiology, Faculty of Epidemiology & Population Health, London School of Hygiene & Tropical Medicine
- 09/14- Assistant Professor Adjunct of Medicine, Section of General Internal Medicine, Yale University/Research Consultant, VA Connecticut Healthcare System, US Department of Veterans Affairs
- 10/19-08/20 Research Fellow, Electronic Health Record Research Group, Department of Non-Communicable Disease Epidemiology, Faculty of Epidemiology & Population Health, London School of Hygiene & Tropical Medicine
- 11/18-09/19 Research Fellow, Health Protection Research Unit in Immunisation, Department of Infectious Disease Epidemiology, Faculty of Epidemiology & Population Health, London School of Hygiene & Tropical Medicine
- 03/12-09/14 Research Fellow, Department of Infectious Diseases, Atlanta VA Medical Center
- 05/11-03/12 Research Assistant, Department of Infectious Diseases, Atlanta VA Medical Center
- 08/10-05/11 Graduate Research Assistant, Hubert Department of Global Health, Rollins School of Public Health, Emory University

## HONORARY APPOINTMENTS

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- 04/20- Honorary Agreement, OpenSAFELY, NHS England
- 11/19- Honorary Research Fellow, Institute of Cardiovascular Science - Population Science and Experimental Medicine, University College London
- 01/19- Honorary Research Fellow, Bristol Medical School Population Health Sciences, University of Bristol

## OTHER PROFESSIONAL ROLES

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<i>Scientific Review Committee, The Health Improvement Network (THIN), IQVIA, UK</i>	2021 – current
<i>Co-Chair, VA Medications Safety &amp; Effectiveness Collaboratory, US Dept of Veterans Affairs</i>	2020 – 2021
<i>Steering Committee, Antiretroviral Cohort Collaboration (ART-CC), University of Bristol, UK</i>	2020 – current
<i>Chair, International Society of Pharmacoepidemiology (ISPE) Membership Committee</i>	2020 – current
<i>Chair, Real-World Evidence (RWE) Methods Training group on the ISPE RWE Task Force</i>	2019 – current
<i>Co-chair, VACS Polypharmacy Workgroup, US Dept of Veterans Affairs</i>	2019 – current
<i>Fellow, Royal Statistical Society, UK</i>	2019 – current
<i>Member, UK Pharmacogenetics &amp; Stratified Medicine Network</i>	2018 – current
<i>Member, International Society of Pharmacoepidemiology (ISPE) Membership Committee</i>	2018 – current
<i>Member, International Society of Pharmacoepidemiology (ISPE)</i>	2018 – current
<i>Member, British Society of Population Studies</i>	2017 – 2018
<i>Steering Committee, VACS Design and Analysis Core, US Dept of Veterans Affairs</i>	2017 – current
<i>Member, VACS PI/Executive Committee, US Dept of Veterans Affairs</i>	2017 – current
<i>Member, VACS Opioid Workgroup, US Dept of Veterans Affairs</i>	2017 – current
<i>Co-chair, VACS Antiviral Therapy Workgroup, US Dept of Veterans Affairs</i>	2015 – current
<i>PhD Student Representative, LSHTM Population Studies Group, LSHTM</i>	2016 – 2018

## TEACHING EXPERIENCE

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### Course Organiser and Lecturer

- *Pharmacoepidemiology in the era of COVID-19: how to interpret research into the effects of medicines*  
London School of Hygiene & Tropical Medicine 2021
- *Real-World Evidence in Pharmacoepidemiology: a practical course using electronic health records*  
London School of Hygiene & Tropical Medicine 2019 – current

### Distance Learning Tutor

- *Advanced Statistical Methods in Epidemiology: London School of Hygiene & Tropical Medicine* 2018 – current

### Course Designer and Instructor

- *Introduction to Epidemiology and Biostatistics - Statistical Lab: School of Medicine, Emory University* 2012 – 2013

### Guest Lecturer

- *Manchester Digital Epidemiology Summer School: Centre for Epidemiology, The University of Manchester* 2021
- *Introduction to Epidemiology and Biostatistics: School of Medicine, Emory University* 2013
- *Methods in HIV Epidemiology: Rollins School of Public Health, Emory University* 2012 – 2013

### Teaching Assistant

- *Population Dynamics & Projections: London School of Hygiene & Tropical Medicine* 2016 – 2017
- *Methods in HIV Epidemiology: Rollins School of Public Health, Emory University* 2012
- *Programming in SAS: Rollins School of Public Health, Emory University* 2010

### Course Editor

- *Demographic Impact of HIV in sub-Saharan Africa: London School of Hygiene & Tropical Medicine* 2016

## SUPERVISORY AND ADVISORY ROLES

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### Doctoral Degree Supervision

- Bokern, Marleen. *PhD, LSHTM*. Investigating bias in COVID-19 drug related research and development of tools for quantitative bias analysis. 2021 – current
- Mansi, Elizabeth. *PhD, University of Edinburgh*. Sedatives and antipsychotics prescribed after discharge from the ICU: what are the risks? 2021 – current

- Muzambi, Rutendo. *PhD, LSHTM*. The effect of common infections on cognition and dementia in people with diabetes. 2018 – current

### MSc Supervision

- Van den Akker, Daan. 2021. *MSc in Epidemiology, LSHTM*. Associations between chronic pain and self-reported depression by HIV status.
- Pierret, Chloe. 2020. *MSc in Epidemiology, LSHTM*. Predictors of hepatitis C cure in a large US patient population receiving direct-acting antivirals.
- Bak, Jeongeun. 2019. *MSc in Epidemiology, LSHTM*. Social determinants of pertussis vaccine uptake over sequential pregnancies.
- Roth, Leonard. 2019. *MSc in Medical Statistics, LSHTM*. Predictors of change in grip strength in the UK Biobank population.

### Statistical Advisor

- Moore, Jonathan. *PharmD, Emory University*. Retrospective Analysis of the Rate of Vancomycin Induced Nephrotoxicity with High Serum Vancomycin Levels. 2014.
- Ross, Denise. *PharmD, Emory University*. Association of Proton-Pump Inhibitors and Occurrence of *Clostridium difficile* Infection. 2014.
- Frasch, Tyler. *PharmD, Emory University*. Latent Tuberculosis and HIV Co-Infection Clinic Operated by a Clinical Pharmacist: Implications for Treatment Completion and Adherence. 2013.
- George, Allison. *PharmD, Emory University*. Impact of Concurrent Antiretroviral Therapy on the Safety and Efficacy of Clopidogrel. 2013.
- Thomason, Jenna. *MD/MPH, Emory University*. Association between Methicillin-Resistant *Staphylococcus Aureus* Infection and Vitamin D Deficiency. 2011.

### FUNDING AWARDED

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2018 - 2022	US Department of Veterans Affairs <i>Genetic Vulnerability for Sustained Multi-Substance Use in the Million Veteran Program</i> Collaborator (Co-PIs: Amy Justice & Henry Kranzler) \$600k/£475k
2017 - 2022	National Institute on Alcohol Abuse and Alcoholism <i>COMpAAAS Tripartite: Antiretroviral Therapy – Cohort Collaboration (ART-CC), Kaiser Permanente (KP), and the US Department of Veterans Affairs (VA)</i> Collaborator (PI: Amy Justice) \$3.3m/£2.6m
2015 - 2020	National Institute on Alcohol Abuse and Alcoholism <i>Safety and Comparative Effectiveness of New Medications for Unhealthy Alcohol Use in HIV</i> Collaborator (Co-PIs: David Fiellin & Janet Tate) \$1.2m/£1.0m
2014 - 2018	Economic and Social Research Council (PhD Studentship) <i>Point-of-contact interactive record linkage between demographic surveillance and health facilities to measure patterns of HIV service utilization in Tanzania</i> Principal Investigator, £75k/\$96k
2011 - 2021	National Institute on Alcohol Abuse and Alcoholism <i>COMpAAAS Observational Study: Alcohol and Multi-Substance Use in the Veterans Aging Cohort Study</i> Collaborator (PI: Amy Justice) \$6.1m/£4.7m

**PUBLICATIONS** (n=52, citations=2488, h-index=16, i10-index=25, †contributed equally)**2021**

- Bhaskaran K, Bacon SCJ, Evans SJW, Bates CJ, **Rentsch CT**, MacKenna B, Tomlinson L, Walker AJ, Schultze A, Morton CE, Grint D, Mehrkar A, Eggo RM, Inglesby P, Douglas IJ, McDonald HI, Cockburn J, Williamson EJ, Evans D, Curtis HJ, Hulme WJ, Parry J, Hester F, Harper S, Spiegelhalter D, Smeeth L, Goldacre B. Factors associated with deaths due to COVID-19 versus other causes: population-based cohort analysis of UK primary care data and linked national death registrations within the OpenSAFELY platform. *Lancet Reg Health Eur* 2021 (in press)
- Gerlovin H, Posner DC, Ho Y, **Rentsch CT**, Tate JP, King Jr. JT, Kurgansky KE, Danciu I, Linares FA, Goethert ID, Jacobson DA, Freiberg MS, Begoli E, Muralidhar S, Ramoni RB, Tourassi G, Gaziano JM, Justice AC, Gagnon DR, Cho K. Pharmacoepidemiology, machine learning, and COVID-19: an intent-to-treat analysis of hydroxychloroquine, with or without azithromycin, and COVID-19 outcomes amongst hospitalized US Veterans. *Am J Epidemiol* 2021 (in press)
- Mathur R<sup>†</sup>, **Rentsch CT**<sup>†</sup>, Morton CE<sup>†</sup>, Hulme WJ, Schultze A, MacKenna B, Eggo R, Bhaskaran K, Wong AYS, Williamson EJ, Forbes H, Wing K, McDonald HI, Bates C, Bacon S, Walker AJ, Evans D, Inglesby P, Mehrkar A, Curtis HJ, DeVito NJ, Croker R, Drysdale H, Cockburn J, Parry J, Hester F, Harper S, Douglas IJ, Tomlinson L, Evans SJW, Grieve R, Harrison D, Rowan K, Khunti K, Chaturvedi N, Smeeth L, Goldacre B. Ethnic differences in COVID-19 infection, hospitalisation, and mortality: an OpenSAFELY analysis of 17 million adults in England. *Lancet* 2021 (in press)
- Grint DJ, Wing K, Williamson E, McDonald HI, Bhaskaran K, Evans D, Evans SJW, Walker AJ, Hickman G, Nightingale E, Schultze A, **Rentsch CT**, Bates C, Cockburn J, Curtis HJ, Morton CE, Bacon S, Davy S, Wong AYS, Mehrkar A, Tomlinson L, Douglas IJ, Mathur R, Blomquist P, MacKenna B, Inglesby P, Croker R, Parry J, Hester F, Harper S, DeVito NJ, Hulme W, Tazare J, Goldacre B, Smeeth L, Eggo RM. Case fatality risk of the SARS-CoV-2 variant of concern B.1.1.7 in England, 16 November to 5 February. *Euro Surveill* 2021; 26(11): pii=2100256. DOI: 10.2807/1560-7917.ES.2021.26.11.2100256
- Forbes H, Morton C, Bacon S, McDonald H, Minassian C, Brown J, **Rentsch CT**, Mathur R, Schultze A, DeVito N, MacKenna B, Hulme W, Croker R, Walker A, Williamson E, Bates C, Mehrkar A, Curtis H, Evans D, Wing K, Inglesby P, Drysdale H, Wong AYS, Cockburn J, McManus R, Parry J, Hester F, Harper S, Douglas I, Smeeth L, Evans SJW, Bhaskaran K, Eggo R, Goldacre B, Tomlinson L. Association between living with children and outcomes from COVID-19: an OpenSAFELY cohort study of 12 million adults in England. *BMJ* 2021 (in press)
- **Rentsch CT**, Beckman JA, Tomlinson L, Gellad WF, Alcorn C, Kidwai-Khan F, Skanderson M, Brittain E, King JT, Ho Y-L, Eden S, Kundu S, Lann MF, Greevy RA, Ho PM, Heidenreich PA, Jacobson DA, Douglas IJ, Tate JP, Evans SJ, Atkins D, Justice AC, Freiberg MS. Early initiation of prophylactic anticoagulation for prevention of coronavirus disease 2019 mortality in patients admitted to hospital in the United States: cohort study. *BMJ* 2021; 372: n311. DOI: 10.1136/bmj.n311
- **Rentsch CT**, DeVito NJ, MacKenna B, Morton CE, Bhaskaran K, Brown JP, Schultze A, Hulme WJ, Croker R, Walker AJ, Williamson EJ, Bates C, Bacon S, Mehrkar A, Curtis HJ, Evans D, Wing K, Inglesby P, Mathur R, Drysdale H, Wong AYS, McDonald HI, Cockburn J, Forbes H, Parry J, Hester F, Harper S, Smeeth L, Douglas IJ, Dixon WG, Evans SJW, Tomlinson L, Goldacre B. Hydroxychloroquine treatment does not reduce COVID-19 mortality; underdosing to the wrong patients? – Authors' reply. *Lancet Rheumatology* 2021; 3(3): e172-e173. DOI: 10.1016/S2665-9913(21)00030-8
- Walker JL, Grint DJ, Strongman H, Eggo RM, Peppas M, Minassian C, Mansfield KE, **Rentsch CT**, Douglas IJ, Mathur R, Wong AYS, Quint JK, Andrews N, Bernal JL, Scott JA, Ramsay M, Smeeth L, McDonald H. UK prevalence of underlying conditions which increase the risk of severe COVID-19 disease: a point prevalence study using electronic health records. *BMC Public Health* 2021; 21(1): 484. DOI: 10.1186/s12889-021-10427-2
- Wong AY, MacKenna B, Morton CE, Schultze A, Walker AJ, Bhaskaran K, Brown JP, **Rentsch CT**, Williamson E, Drysdale H, Croker R, Bacon S, Hulme W, Bates C, Curtis HJ, Mehrkar A, Evans D, Inglesby P, Cockburn J, McDonald HI, Tomlinson L, Mathur R, Wing K, Forbes H, Eggo RM, Parry J, Hester F, Harper S, Evans SJ, Smeeth L, Douglas IJ, Goldacre B. Use of non-steroidal anti-inflammatory drugs and risk of death from COVID-19: an OpenSAFELY cohort

analysis based on two cohorts. *Ann Rheum Dis* 2021; (online ahead of print). DOI: 10.1136/annrheumdis-2020-219517

- Garfield V, Farmaki A-E, Fatemifar G, Eastwood SV, Mathur R, **Rentsch CT**, Denaxas S, Bhaskaran K, Smeeth L, Chaturvedi N. The relationship between glycaemia, cognitive function, structural brain outcomes and dementia: A Mendelian randomization study in the UK Biobank. *Diabetes* 2021; db200895. DOI: 10.2337/db20-0895
- Garfield V, Farmaki A-E, Eastwood SV, Mathur R, **Rentsch CT**, Bhaskaran K, Smeeth L, Chaturvedi N. Brain health across the entire glycaemic spectrum: the UK Biobank. *Diabetes Obes Metab* 2021; 23(5): 1140-1149. DOI: 10.1111/dom.14321
- Adams JW, Li Y, Barry DT, Gordon KS, Kerns RD, Oldfield B, **Rentsch CT**, Marshall BDL, Edelman EJ. Long-term patterns of self-reported opioid use, VACS Index, and mortality among people with HIV engaged in care. *AIDS & Behavior* 2021 (online ahead of print). DOI: 10.1007/s10461-021-03162-7
- **Rentsch CT**, DeVito NJ, MacKenna B, Morton CE, Bhaskaran K, Brown JP, Schultze A, Hulme WJ, Croker R, Walker AJ, Williamson EJ, Bates C, Bacon S, Mehrkar A, Curtis HJ, Evans D, Wing K, Inglesby P, Mathur R, Drysdale H, Wong AYS, McDonald HI, Cockburn J, Forbes H, Parry J, Hester F, Harper S, Smeeth L, Douglas IJ, Dixon WG, Evans SJW, Tomlinson L, Goldacre B. Effect of pre-exposure use of hydroxychloroquine on COVID-19 mortality: a population-based cohort study in patients with rheumatoid arthritis or systemic lupus erythematosus using the OpenSAFELY platform. *Lancet Rheumatology* 2021; 3(1): e19-e27. DOI: 10.1016/S2665-9913(20)30378-7
- Bhaskaran K, **Rentsch CT**, MacKenna B, Schultze A, Mehrkar A, Bates CJ, Eggo RM, Morton CE, Bacon SCJ, Inglesby P, Douglas IJ, Walker AJ, McDonald HI, Cockburn J, Williamson EJ, Evans D, Forbes HJ, Curtis HJ, Hulme WJ, Parry J, Hester F, Harper S, Evans SJW, Smeeth L, Goldacre B. HIV infection and COVID-19 death: a population-based cohort analysis of UK primary care data and linked national death registrations within the OpenSAFELY platform. *Lancet HIV* 2021; 8(1): e24-e32. DOI: 10.1016/S2352-3018(20)30305-2
- Bedimo RJ, Park LS, Shebl FM, Sigel K, **Rentsch CT**, Crothers K, Rodriguez-Barradas MC, Goetz MB, Butt AA, Brown ST, Gibert C, Justice AC, Tate JP. Statin exposure and risk of cancer in people with and without HIV infection. *AIDS* 2021; 35(2): 325-334. DOI: 10.1097/QAD.0000000000002748

## 2020

- King Jr JT, Yoon JS, **Rentsch CT**, Tate JP, Park LS, Kidwai-Khan F, Skanderson M, Hauser RG, Jacobson DA, Erdos J, Cho K, Ramoni R, Gagnon DR, Justice AC. Development and validation of a 30-day mortality index based on pre-existing medical administrative data from 13,323 COVID-19 patients: The Veterans Health Administration COVID-19 (VACO) Index. *PLoS ONE* 2020; 15(11): e0241825. DOI: 10.1371/journal.pone.0241825
- Schultze A, Walker AJ, MacKenna B, Morton CE, Bhaskaran K, Brown JP, **Rentsch CT**, Williamson E, Drysdale H, Croker R, Bacon S, Hulme W, Bates C, Curtis HJ, Mehrkar A, Evans D, Inglesby P, Cockburn J, McDonald HI, Tomlinson L, Mathur R, Wing K, Wong AYS, Forbes H, Parry J, Hester F, Harper S, Evans SJW, Quint J, Smeeth L, Douglas IJ, Goldacre B. Risk of COVID-19-related death among patients with chronic obstructive pulmonary disease or asthma prescribed inhaled corticosteroids: an observational cohort study using the OpenSAFELY platform. *Lancet Respir Med* 2020; 8(11): 1106-1120. DOI: 10.1016/S2213-2600(20)30415-X
- **Rentsch CT**, Kidwai-Khan F, Tate JP, Park LS, King JT, Jr, Skanderson M, Hauser RG, Schultze A, Jarvis CI, Holodniy M, Lo Re III V, Akgün KM, Crothers K, Taddei TH, Freiberg MS, Justice AC. Patterns of COVID-19 testing and mortality by race and ethnicity among United States veterans: A nationwide cohort study. *PLoS Med* 2020; 17(9): e1003379. DOI: 10.1371/journal.pmed.1003379
- **Rentsch CT**, Farmer RE, Eastwood SV, Mathur R, Garfield V, Farmaki AE, Bhaskaran K, Chaturvedi N, Smeeth L. Risk of 16 cancers across the full glycaemic spectrum: A population-based cohort study using the UK Biobank. *BMJ Open Diabetes Research & Care* 2020; 8: e001600. DOI: 10.1136/bmjdr-2020-001600
- Williamson EJ, Tazare J, Bhaskaran K, Walker AJ, McDonald HI, Tomlinson L, Bacon S, Bates C, Curtis HJ, Forbes H, Minassian C, Morton CE, Nightingale E, Mehrkar A, Evans D, Nicholson BD, Leon D, Inglesby P, MacKenna B, Cockburn J, Davies NG, Hulme W, Morley J, Douglas IJ, **Rentsch CT**, Mathur R, Wong A, Schultze A, Croker R, Parry J, Hester F, Harper S, Perera R, Grieve R, Harrison D, Steyerberg E, Eggo RM, Diaz-Ordaz K, Keogh R, Evans SJW, Smeeth L, Goldacre B. Study protocol: Comparison of different risk prediction modelling approaches for COVID-19

related death using the OpenSAFELY platform [version1; peer review: 1 approved]. *Wellcome Open Research* 2020; 5 (243). DOI: 10.12688/wellcomeopenres.16353.1

- Williamson EJ, Walker AJ, Bhaskaran K, Bacon S, Bates C, Morton CE, Curtis HJ, Mehrkar A, Evans D, Inglesby P, Cockburn J, McDonald HI, MacKenna B, Tomlinson L, Douglas IJ, **Rentsch CT**, Mathur R, Wong AYS, Grieve R, Harrison D, Forbes H, Schultze A, Croker R, Parry J, Hester F, Harper S, Perera R, Evans SJW, Smeeth L, Goldacre B. OpenSAFELY: factors associated with COVID-19 death in 17 million patients. *Nature* 2020; 584: 430-436. DOI: 10.1038/s41586-020-2521-4
- Rentsch CT**, Morford KL, Fiellin DA, Bryant KJ, Justice AC, Tate JP. Safety of gabapentin prescribed for any indication in a large clinical cohort of 571,718 US Veterans with and without alcohol use disorder. *Alcohol Clin Exp Res* 2020; 44(0): 1807-1815. DOI: 10.1111/acer.14408
- Zhou H, **Rentsch CT**, Cheng Z, Kember RL, Nunez YZ, Tate JP, Dao C, Xu K, Polimanti R, Farrer LA, Justice AC, Kranzler HR, the VA Million Veteran Program, Gelernter J. GWAS including 82,707 subjects identifies functional coding variant in OPRM1 gene associated with opioid use disorder. *JAMA Psych* 2020; 77(10): 1072-1080. DOI: 10.1001/jamapsychiatry.2020.1206
- Edelman EJ, Li Y, Barry D, Braden JB, Crystal S, Kerns RD, Gaither JR, Gordon KS, Manhapra A, Merlin JS, Moore BA, Oldfield BJ, Park LS, **Rentsch CT**, Skanderson M, Williams EC, Justice AC, Tate JP, Becker WC, Marshall BDL. Trajectories of self-reported opioid use among patients with HIV engaged in care. *J Acquir Immune Defic Syndr* 2020; 84(1): 26-36. DOI: 10.1097/qai.0000000000002310
- Edelman EJ, **Rentsch CT**, Justice AC. Polypharmacy in HIV: recent insights and future directions. *Current Opinion in HIV and AIDS* 2020; 15(2): 126-33. DOI: 10.1097/COH.0000000000000608
- Gordon KS, McGinnis K, Dao C, **Rentsch CT**, Small A, Smith RV, Kember FL, Gelernter J, Kranzler HK, Bryant KJ, Tate JP, Justice AC. Differentiating types of self-reported alcohol abstinence. *AIDS Behav* 2020; 24: 655-65. DOI: 10.1007/s10461-019-02638-x

## 2019

- Rentsch CT**, Edelman EJ, Justice AC, Marshall BDL, Xu K, Smith AH, Crystal S, Gaither JR, Gordon AJ, Smith RV, Kember RL, Polimanti R, Gelernter J, Fiellin DA, Tate JP, Kranzler HR, Becker WC. Patterns and correlates of prescription opioid receipt among US Veterans: a national, 18-year observational cohort study. *AIDS Behav* 2019; 23: 3340-49. DOI: 10.1007/s10461-019-02608-3
- Womack JA, Murphy TE, **Rentsch CT**, Tate JP, Bathulapalli H, Smith AC, Bates J, Jarad S, Gibert CL, Rodriguez-Barradas MC, Tien PC, Yin MT, Gill TM, Friedlaender G, Brandt CA, Justice AC. Polypharmacy, hazardous alcohol and illicit substance use and serious falls among PLWH and uninfected comparators. *J Acquir Immune Defic Syndr* 2019; 82(3): 305-13. DOI: 10.1097/QAI.0000000000002130
- Tate JP, Sterne JAC, Justice AC, and n=24 Writing Group Members from the Veterans Aging Cohort Study (VACS) and Antiretroviral Therapy Cohort Collaboration (ART-CC). Albumin, white blood cell count, and body mass index improve discrimination of mortality in HIV-positive individuals. *AIDS* 2019; 33(5): 903-12. DOI: 10.1097/QAD.0000000000002140
- Rentsch CT**, Fiellin DA, Bryant KJ, Justice AC, Tate JP. Association between gabapentin receipt for any indication and AUDIT-C scores among clinical sub-populations with and without alcohol use disorder. *Alcohol Clin Exp Res* 2019; 43(3): 522-30. DOI: 10.1111/acer.13953
- Rentsch CT**, Tate JP, Steel T, Butt AA, Gibert CL, Huang L, Pisani M, Soo Hoo GW, Crystal S, Rodriguez-Barradas MC, Brown ST, Freiberg MS, Graber CJ, Kim JW, Rimland D, Justice AC, Fiellin DA, Crothers KA, Akgün KM. Medical intensive care unit admission among patients with and without HIV, hepatitis C virus, and alcohol-related diagnoses in the United States: a national, retrospective cohort study, 1997-2014. *J Acquir Immune Defic Syndr* 2019; 80(2): 145-51. DOI: 10.1097/QAI.0000000000001904
- Bradley H, Althoff KN, Buchacz K, Brooks JT, Gill MJ, Horberg MA, Kitahata MM, Marconi V, Mayer KH, Mayor A, Moore R, Mugavero M, Napravnik S, Paz-Bailey G, Prejean J, Rebeiro PF, **Rentsch CT**, Shouse RL, Silverberg M, Sullivan PS, Thorne PE, Yehia B, Rosenberg ES. Viral suppression among persons in HIV care in the United States during 2009–2013: Sampling bias in Medical Monitoring Project (MMP) surveillance estimates. *Annals of Epidemiology* 2019; (31): 3-7 DOI: 10.1016/j.annepidem.2018.11.005

## 2018

- **Rentsch CT**, Harron K, Urassa M, Todd J, Reniers G, Žaba B. Impact of linkage quality on inferences drawn from analyses using data with high rates of linkage errors in rural Tanzania. *BMC Med Res Meth* 2018; 18: 165. DOI: 10.1186/s12874-018-0632-5
- **Rentsch CT**, Reniers G, Machemba R, Slaymaker E, Marston M, Wringe A, Eaton JW, Gourlay A, Rice B, Kabudula CW, Urassa M, Todd J, Žaba B. Non-disclosure of HIV testing history in population-based surveys: implications for estimating a UNAIDS 90-90-90 target. *Global Health Action* 2018; 11(1): 1553470. DOI: 10.1080/16549716.2018.1553470
- **Rentsch CT**, Wringe A, Machemba R, Michael D, Urassa M, Todd J, Reniers G, and Žaba B. Linkage to care and antiretroviral therapy initiation by testing modality among individuals newly diagnosed with HIV in Tanzania, 2014-2017. *Tropical Medicine & International Health* 2018; 23(12): 1384-93. DOI: 10.1111/tmi.13153
- **Rentsch CT**, Cartwright EJ, Gandhi NR, Brown ST, Rodriguez-Barradas MC, Goetz MB, Marconi VC, Gibert CL, Lo Re III V, Fiellin DA, Justice AC, Tate JP. Provider verification of electronic health record receipt and nonreceipt of direct-acting antivirals for the treatment of hepatitis C virus infection. *Annals of Epidemiology* 2018; 28(11): 808-11. DOI: 10.1016/j.annepidem.2018.08.007
- **Rentsch CT**, Kabudula CW, Catlett J, Beckles D, Machemba R, Mtenga B, Masilela N, Michael D, Natalis R, Urassa M, Todd J, Žaba B, and Reniers G. Point-of-contact Interactive Record Linkage (PIRL): A software tool to prospectively link demographic surveillance and health facility data [version 2; referees: 2 approved]. *Gates Open Research* 2018; 1(8). DOI: 10.12688/gatesopenres.12751.2

## ≤2017

- **Rentsch CT**, Reniers G, Kabudula C, Machemba R, Mtenga B, Harron K, Mee P, Michael D, Natalis R, Urassa M, Todd J, and Žaba B. Point-of-contact interactive record linkage (PIRL) between demographic surveillance and health facility data in rural Tanzania. *International Journal for Population Data Science* 2017; 2(1). DOI: 10.23889/ijpds.v2i1.408
- Salinas JL, **Rentsch CT**, Marconi VC, Tate J, Budoff M, Butt AA, Freiberg MS, Gibert CL, Goetz MB, Leaf D, Rodriguez-Barradas MC, Justice AC, Rimland D. Baseline, Time-Updated, and Cumulative HIV Care Metrics for Predicting Acute Myocardial Infarction and All-Cause Mortality. *Clinical Infectious Diseases* 2016; 63(11): 1423-30. DOI: 10.1093/cid/ciw564
- Guest J, Moanna A, Schlueter-Wirtz S, Carruth EC, **Rentsch CT**, Marconi VD, Rimland D. Cohort Profile: The HIV Atlanta Veterans Affairs Cohort Study (HAVACS). *International Journal of Epidemiology* 2016; 46(3): 790-1. DOI: 10.1093/ije/dyw071
- **Rentsch CT**, Tate JP, Akgün KM, Crystal S, Wang KH, Greysen SR, Wang EA, Bryant KJ, Fiellin DA, Justice AC, Rimland D. Alcohol-Related Diagnoses and All-Cause Hospitalization Among HIV-Infected and Uninfected Patients: A Longitudinal Analysis of United States Veterans from 1997 to 2011. *AIDS and Behavior* 2016; 20(3): 555-564. DOI: 10.1007/s10461-015-1025-y
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- Ross D, Gable C, **Rentsch CT**. Association between proton pump inhibitor exposure and *Clostridium difficile* infection in elderly, hospitalized patients. *Federal Practitioner* 2015; 32(11): 21-25.
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- Stephenson R, **Rentsch CT**, Sullivan PS. High levels of acceptability of couples-based HIV testing among MSM in South Africa. *AIDS Care* 2012; 24(4): 529-535. DOI:10.1080/09540121.2011.617413
- Stephenson R, Salazar LF, **Rentsch CT**, Sullivan PS. Dyadic Characteristics and Intimate Partner Violence among Men who have Sex with Men. *Western Journal of Emergency Medicine* 2011;12(3):324-332

## SOFTWARE TOOL

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- Kabudula C, **Rentsch CT**, Catlett J, Beckles D, Masilela N, Žaba B, Reniers G. 2017. Kisesa-HDSS Record Linkage. [Online]. GitHub. DOI:10.5281/zenodo.998867 Available open source from: [https://github.com/LSHTM-ALPHAnetwork/PIRL\\_RecordLinkageSoftware](https://github.com/LSHTM-ALPHAnetwork/PIRL_RecordLinkageSoftware). Description: Point-of-contact Interactive Record Linkage (PIRL) software developed to prospectively link patient information in HIV services offered in Kisesa Health Centre – including HIV care and treatment clinic, HIV testing and counseling clinic, and the antenatal clinic – with the Kisesa demographic sentinel surveillance system.

## PRESENTATIONS (n=35 oral; n=42 poster; \*= Invited talk; §=Best Poster award; †contributed equally)

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### 2021

- Farokhnia M<sup>†</sup>, Chuong V<sup>†</sup>, **Rentsch CT**<sup>†</sup>, Gregory-Flores A, Tunstall B, McGinn A, Fiellin DA, Koob G, Justice AC, Leggio L, Vendruscolo L. Spironolactone as a potential pharmacotherapy for alcohol use disorder: preliminary evidence from rodent and human studies. Oral presentation at the 2021 American Society of Clinical Psychopharmacology (ASCP), June 1-4, 2021; virtual
- Crist RC, Vickers-Smith R, Kember RL, Rentsch CT, Hartwell EE, Edelman EJ, Kampman KM, Kranzler HR. Treatment outcomes differ by race and ethnicity among buprenorphine-treated Veterans in MVP. Poster presentation at the 83<sup>rd</sup> College on Problems of Drug Dependence (CPDD) conference, June 21-24, 2021; virtual
- Oldfield BJ, Vickers-Smith R, Becker WC, Barry D, Crystal S, Gordon K, Kerns R, Rentsch CT, Marshall BDL, Edelman EJ. Sociodemographic and clinical correlates of gabapentin receipt with and without opioids among a national cohort of patients with HIV. Poster presentation at the Society of General Internal Medicine (SGIM) conference, April 20-23, 2021; virtual
- Cartwright EJ, Pierret C, **Rentsch CT**, Minassian C, Tate JP, Fiellin DA, Justice AC, Lo Re III V. Relationship between alcohol use and sustained virologic response to HCV DAA therapy. Science Spotlight oral presentation at the 2021 Conference on Retroviruses and Opportunistic Infections (CROI), March 6-10, 2021; virtual
- Li J, Humes E, Hanna DB, Lee JS, Althoff KN, Moore R, Crane H, Colasanti J, Horberg MA, Nijhawan A, D'Souza G, **Rentsch CT**, Gebo K, Buchacz K. Disparities in timely receipt of ART prescription in HIV care in the US, 2012-2018. Oral presentation at the 2021 Conference on Retroviruses and Opportunistic Infections (CROI), March 6-10, 2021; virtual

### 2020

- Adams JW, Li Y, Barry DT, Gordon KS, Justice AC, Kerns RD, Oldfield B, **Rentsch CT**, Marshall BDL, Edelman EJ. Long-term patterns of self-reported opioid use, VACS Index, and mortality among people with HIV engaged in care. Poster presentation at the 2020 Society for Epidemiologic Research (SER) conference, December 16-18, 2020; virtual
- Kember RL, **Rentsch CT**, Zhou H, Lynch J, Vujkovic M, Freiberg M, Gelernter J, Voight BF, Chang KM, Gaziano JM, Justice AC, Kranzler HR, Assimes TL. A Mendelian randomization study of moderate alcohol use and ASCVD outcomes in a multi-ethnic population: the Million Veteran Program. Oral presentation at the 2020 American Society of Human Genetics (ASHG), October 27-30, 2020; virtual
- Gray JC, Murphy MA, **Rentsch CT**, Kranzler HR, Leggio, L. Taking Stock of Genes Associated with Problematic Alcohol Use: Protein-Protein Interactions Yield Disease Relevant Biological Networks. Poster presentation at the 2020 Virtual World Congress of Psychiatric Genetics (WCPG), October 19-21, 2020; virtual
- **Rentsch CT (presenting author)**, Kember RL, Farokhnia M, Tunstall BJ, Kranzler HR, Gregory-Flores A, Bryant KJ, Koob GF, Vendruscolo LF, Justice AC, Fiellin DA, Leggio L, Tate JP. Polygenic risk for alcohol consumption predicts drinking response to a mineralocorticoid receptor antagonist. Oral presentation at the 36<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), September 16-17, 2020; virtual
- **Rentsch CT (presenting author)**, Farokhnia M, Tate JP, Tunstall BJ, Gregory-Flores A, Bryant KJ, Koob GF, Vendruscolo LF, Fiellin DA, Leggio L, Justice AC. Mineralocorticoid receptor as a novel therapeutic target for alcohol use disorder? Preliminary evidence in rodents and humans. Poster presentation at the 36<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), September 16-17, 2020; virtual
- Torgersen J, Newcomb CW, Carbonari DM, **Rentsch CT**, Park LS, Mehta R, D'Addeo K, Taddei T, Justice AC, Lo Re III V. Risk of acute liver injury with protease inhibitor-based antiviral therapy for hepatitis C. Poster presentation at the 36<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), September 16-17, 2020; virtual
- Park LS, **Rentsch CT**, Sigel K, Rodriguez-Barradas M, Brown ST, Goetz MB, Williams EC, Althoff K, Bräu N, Aoun-Barakat L, Tseng A, Justice AC, Tate JP. COVID-19 in the largest US HIV cohort. Poster presentation at the 23<sup>rd</sup> International AIDS Conference (AIDS 2020), July 6-10, 2020; virtual
- \* **Rentsch CT** and Justice AC. Health disparities and social determinants in medicine. Invited talk and open panel discussion with Yale University research students. June 22, 2020; virtual
- Farokhnia M, **Rentsch CT**, Tunstall BJ, Gregory-Flores A, Tate JP, Koob GF, Fiellin DA, Vendruscolo LF, Justice AC, Leggio L. Mineralocorticoid receptor as a novel therapeutic target for alcohol use disorder? Preliminary evidence in rodents and humans. Poster presentation at the 43<sup>rd</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 20-24, 2020; New Orleans, LA, US
- Adams JW, Li Y, Barry DT, Gordon KS, Justice AC, Kerns RD, Oldfield B, **Rentsch CT**, Marshall BDL, Edelman EJ. Trajectories of self-reported opioid use and mortality prognosis for patients with HIV and engaged in care. Poster presentation at the 82<sup>nd</sup> College on Problems of Drug Dependence (CPDD) conference, June 20-23, 2020; virtual
- **Rentsch CT (presenting author)**, Thiébaud R, Touloumi G, Thompson J, Gordon KS, Justice AC, Tate JP. Dragon's Den follow-up: Comparing methods to investigate alcohol interactions with neurocognitively-acting medications. Oral presentation at the 24<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 26-28, 2020; Sitges, Spain.
- Trickey A, Sterne J, Zhang L, Boyd A, Burkholder G, Cavassini M, Crane H, Gill MJ, Jarrin I, Obel N, **Rentsch CT**, Zangerle R, Ingle S, Wittkop L. Contribution of alcohol use to all-cause mortality in HIV/HCV co-infection. Poster presentation at the 24<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 26-28, 2020; Sitges, Spain.
- **Rentsch CT**, Amirthalingam G, Andrews N, Minassian C, Peppia M, Grint D, Donegan K, Campbell H, Bryan P, Mangtani P, Stowe J, McDonald H. Safety of pertussis vaccination during pregnancy in England 2013-17: do biases arising from the healthy vaccine effect differ by outcome? Oral presentation at the 2020 Public Health England (PHE) Public Health Research and Science Conference, March 31-April 1 2020; Manchester, UK.

## 2019

- **Rentsch CT (presenting author)**, Tate JP, Tarko L, Honerlaw J, Cho K, Ho Y, Justice AC. Does an index composed of routine labs discriminate risk of mortality better than the Charlson index? Flash oral and breakout session presentations at the 2019 Million Veteran Program (MVP) Science Meeting, September 12-13, 2019; Philadelphia, PA, US.
- Zhou H, **Rentsch CT**, Cheng Z, Kember RL, Nunez YZ, Tate JP, Dao C, Polimanti R, Justice AC, Kranzler HR, Gelernter J. Functional coding variant in *OPRM1* gene associated with opioid use disorder: evidence from GWAS on large cohorts. Oral presentation at the 2019 Million Veteran Program (MVP) Science Meeting, September 12-13, 2019; Philadelphia, PA, US.
- Kember RL, **Rentsch CT**, Zhou H, Lynch J, Vujkovic M, Freiberg M, Gelernter J, Voight B, Chang K, Gaziano M, Justice AC, Kranzler HR, Assimes TL. A Mendelian Randomization study of moderate alcohol use and ASCVD outcomes in a multi-ethnic population: the Million Veteran Program. Poster presentation at the 2019 Million Veteran Program (MVP) Science Meeting, September 12-13, 2019; Philadelphia, PA, US.
- Vickers-Smith R, Justice AC, Becker WC, **Rentsch CT**, Tate JP, Kranzler HR. African-American Veterans are more likely than white Veterans to receive an alcohol use disorder diagnosis at hazardous levels of self-reported drinking: implications for alcohol-related phenotyping in MVP. Oral presentation at the 2019 Million Veteran Program (MVP) Science Meeting, September 12-13, 2019; Philadelphia, PA, US.
- Lee KM, Anglin T, Hilliard A, **Rentsch CT**, Assimes TL, Vassy J, Voora D. Phenotyping statin-associated musculoskeletal symptoms (SAMS) in MVP for genetic association studies. Poster presentation at the 2019 Million Veteran Program (MVP) Science Meeting, September 12-13, 2019; Philadelphia, PA, US.
- **Rentsch CT (presenting author)**, Fiellin DA, Bryant KJ, Justice AC, Tate JP. Baclofen decreases alcohol consumption in real-world clinical populations. Oral presentation at the 35<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), August 24-28, 2019; Philadelphia, PA, US.
- **Rentsch CT (presenting author)**, Tate JP, Gordon KS, Akgün KM, Krishnan S, Tseng A, Womack JA, Rodriguez-Barradas MC, Gibert CL, Bryant KJ, Edelman EJ, Justice AC. Concurrent use of neurocognitively-acting medications and alcohol increases risk of community-acquired pneumonia. Oral presentation at the 35<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), August 24-28, 2019; Philadelphia, PA, US.
- \* **Rentsch CT**. Polypharmacy and alcohol interactions on patient outcomes. Invited talk to present at the Perelman School of Medicine at the University of Pennsylvania. August 22, 2019; Philadelphia, PA, US.
- McGinnis KA, Gordon K, Dao C, **Rentsch CT**, Small A, Smith R, Kember R, Gelernter J, Kranzler H, Bryant K, Justice AC. Differentiating types of alcohol abstinence to enhance genetic discovery. Poster presentation at the 42<sup>nd</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 22-26, 2019; Minneapolis, MN, US.
- Edelman EJ, Li Y, Barry DT, Becker W, Braden JB, Chang J, Crystal S, Gaither JR, Gordon KS, Kerns R, Manhapra A, Moore BA, Oldfield BJ, Park L, **Rentsch CT**, Skanderson M, Tate JP, Justice AC, Fiellin DA, Marshall B. Trajectories of self-reported illicit opioid use among people living with HIV. Poster presentation at the 81<sup>st</sup> College on Problems of Drug Dependence (CPDD) conference, June 15-19, 2019; San Antonio, TX, US.
- **Rentsch CT**, Tate JP, Tarko L, Honerlaw J, Cho K, Ho Yuk-Lam, Justice AC. Does an index composed of routine labs discriminate risk of mortality better than the Charlson Index? Poster presentation at the Society of General Internal Medicine (SGIM) conference, May 8-11, 2019; Washington, DC, US.
- McGinnis KA, Skanderson M, Wang EA, Akgün KM, Duggal M, Gordon A, Marconi V, McInnes K, **Rentsch CT**, Justice AC. Validating homeless data from the Veterans Health Administration Electronic Health Record. Poster presentation at the Society of General Internal Medicine (SGIM) conference, May 8-11, 2019; Washington, DC, US.
- Walker JL, **Rentsch CT**, Andrews NJ, Minassian C, McDonald HI, Edelstein M, Thomas SL. Social determinants of uptake of influenza and pertussis vaccines in pregnancy. Oral presentation at the 2019 Public Health England Annual Conference, September 10-11, 2019; Manchester, UK.

- Akgün K, Krishnan S, Tate J, Pisani M, **Rentsch CT**, Crothers K, Gordon K, Justice AC. Potentially inappropriate medications increase delirium more in HIV+ than uninfected. Oral presentation at the 2019 Annual American Delirium Society (ADS) Conference, June 16-18, 2019; Boston, MA, US.
- **Rentsch CT (presenting author)**, on behalf of the VACS Project Team. My proposed research question, “Does the impact of alcohol consumption on the effectiveness or toxicity of non-ART medications differ between HIV-negative and HIV+ people?”, was selected for the first-ever Methodology Event at the 23rd International Workshop on HIV Observational Databases (IWHOD), March 28-30, 2019; Athens, Greece. After I present the question on stage, three teams of analysts will pitch their ideas for solutions to answer the research question. I then select the team with which to collaborate.
- **Rentsch CT (presenting author)**, Tate JP, Gordon KS, Akgün KM, Niehoff KM, Tseng A, Crystal S, Gibert CL, Womack JA, Edelman EJ, Justice AC. Neurocognitively-acting potentially inappropriate medications, alcohol, and community-acquired pneumonia among patients with and without HIV. Poster presentation at the 23rd International Workshop on HIV Observational Databases (IWHOD), March 28-30, 2019; Athens, Greece.
- Krishnan S, Akgün K, Tate J, Bryant K, Crystal S, Lo Re III V, **Rentsch CT**, Crothers K, Gordon K, Oursler KA, Justice AC. Potentially inappropriate medications increase delirium more in HIV+ than uninfected. Poster presentation at the 23rd International Workshop on HIV Observational Databases (IWHOD), March 28-30, 2019; Athens, Greece.

## 2018

- \* **Rentsch CT (presenting author)**, Reniers G, Žaba B. Point-of-contact interactive record linkage between demographic surveillance and health facilities to measure patterns of HIV service utilization in Tanzania. Invited talk from the Tanzania Network. November 12, 2018; London, UK.
- **Rentsch CT**, Tate JP, Gordon KS, Tseng A, Niehoff KM, Crothers KC, Edelman EJ, Justice AC. Neurocognitively-acting potentially inappropriate medications, alcohol, and community-acquired pneumonia among patients with and without HIV. Poster presentation at Infectious Diseases Society of America (IDSA) IDWeek 2018, October 3-7, 2018; San Francisco, CA, US.
- Cartwright EJ, **Rentsch CT**, Esserman DA, Tate JP, Fiellin DA, Lo Re III V, Justice AC. Receipt and virologic outcomes of HCV direct-acting antivirals by alcohol use and HIV status. Poster presentation at Infectious Diseases Society of America (IDSA) IDWeek 2018, October 3-7, 2018; San Francisco, CA, US.
- **Rentsch CT (presenting author)**, Reniers G, Harron K, Machemba R, Mtenga B, Michael D, Kabudula C, Natalis R, Urassa M, Todd J, Žaba B. Impact of linkage quality on inferences drawn from analyses using imperfectly matched data with high rates of linkage errors. Oral presentation at the International Population Data Linkage Network (IPDLN) Conference, September 12-14, 2018; Banff, Canada.
- **Rentsch CT (presenting author)**, Esserman DA, Cartwright EJ, Tate JP, Fiellin DA, Justice AJ, Lo Re III V. Receipt and virologic outcomes of HCV direct-acting antivirals by alcohol use and HIV status. Poster presentation at the 34<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), August 22-26, 2018; Prague, Czech Republic. DOI: 10.1002/pds.4629
- **Rentsch CT (presenting author)**, Fiellin DA, Bryant KJ, Justice AC, Tate JP. Neurologic adverse events with baclofen among clinical sub-populations with and without alcohol use disorders, HIV, and HCV. Poster presentation at the 34<sup>th</sup> International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE), August 22-26, 2018; Prague, Czech Republic. DOI: 10.1002/pds.4629
- **Rentsch CT**, Tate JP, Bryant KJ, Justice AC, Fiellin DA. Association between baclofen receipt for any indication and changes in reported drinking among clinical sub-populations with and without alcohol use disorders. Poster presentation at the 41<sup>st</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 16-20, 2018; San Diego, CA, US.
- **Rentsch CT**, Edelman EJ, Justice AC, Marshall BDL, Kransler HR, Xu K, Crystal S, Gaither JR, Gordon AJ, Fiellin DA, Tate JP, Becker WC. Validating electronic health record (EHR)-based prescription opioid phenotypes for genetic discovery. Oral presentation at the 80<sup>th</sup> College on Problems of Drug Dependence (CPDD) conference, June 9-14, 2018; San Diego, CA, US.

- Marshall BDL, Banerjee G, Chang J, Becker WC, Barry D, Brennan Braden J, Crystal S, Gordon A, Gordon K, Kerns RD, Merlin J, Oldfield BJ, Park LS, **Rentsch CT**, Skanderson M, Tate JP, Justice AC, Fiellin DA, Edelman EJ. Trajectories of non-medical use of prescription opioids among people living with HIV. Poster presentation at the Society of General Internal Medicine (SGIM) conference, April 11-14, 2018; Denver, CO, US.
- **Rentsch CT (presenting author)**, Edelman EJ, Justice AC, Marshall BDL, Kransler HR, Xu K, Crystal S, Gaither JR, Gordon AJ, Fiellin DA, Tate JP, Becker WC. Validating electronic health record (EHR)-based prescription opioid phenotypes for genetic discovery. Poster presentation at the 22nd International Workshop on HIV Observational Databases (IWHOD), March 22-24, 2018; Fuengirola, Spain.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Mtenga B, Michael D, Kabudula C, Natalis R, Urassa M, Todd J, Žaba B. Time from HIV diagnosis to care by testing modality in a rural Tanzanian community. Poster presentation at the 22nd International Workshop on HIV Observational Databases (IWHOD), March 22-24, 2018; Fuengirola, Spain.

#### ≤2017

- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Mtenga B, Kabudula C, Michael D, Urassa M, Todd J, Žaba B. Point-of-contact interactive record linkage (PIRL) between demographic surveillance and healthy facility data in rural Tanzania. Oral presentation at the 28<sup>th</sup> International Population Conference of the International Union for the Scientific Study of Population (IUSSP), October 29-November 4, 2017; Cape Town, SA.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Slaymaker E, Marston M, Wringe A, Urassa M, Todd J, Žaba B. Underreporting of HIV positive diagnosis and its implications for measuring progress along the HIV treatment cascade: evidence from a community cohort study with linked clinical data. Poster presentation at the 28<sup>th</sup> International Population Conference of the International Union for the Scientific Study of Population (IUSSP), October 29-November 4, 2017; Cape Town, SA.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Mtenga B, Kabudula C, Michael D, Urassa M, Todd J, Žaba B. Real-time record linkage between demographic surveillance and healthy facility data in rural Tanzania. Oral presentation at the 2017 British Society for Population Studies (BSPS) Annual Conference, September 6-8, 2017; Liverpool, UK.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Slaymaker E, Marston M, Wringe A, Urassa M, Todd J, Žaba B. Bias in the 'first 90' of the UNAIDS 90-90-90 target: evidence from a community cohort study with linked clinical data. Oral presentation at the 2017 British Society for Population Studies (BSPS) Annual Conference, September 6-8, 2017; Liverpool, UK.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Slaymaker E, Marston M, Wringe A, Urassa M, Todd J, Žaba B. Bias in the 'first 90' of the UNAIDS 90-90-90 target: evidence from a community cohort study with linked clinical data. Poster presentation at the 2017 British Society for Population Studies (BSPS) Annual Conference, September 6-8, 2017; Liverpool, UK.
- **Rentsch CT**, Tate JP, Bryant KJ, Justice AC, Fiellin DA. Association between gabapentin receipt and AUDIT-C scores among clinical populations with and without HIV, HCV, and unhealthy alcohol use. Poster presentation at the 40<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 24-28, 2017; Denver, CO, US.
- **Rentsch CT**, Tate JP, Steel T, Butt AA, Gibert CL, Huang L, Pisani M, Soo Hoo GW, Crystal S, Rimland D, Justice AC, Fiellin D, Crothers KA, Akgün KM. Medical intensive care unit (MICU) admission rates by HIV serostatus and alcohol-related diagnosis in the combination antiretroviral era. Poster presentation at the American Thoracic Society (ATS) International Conference, May 19-24, 2017; Washington, D.C., US.
- **Rentsch CT (presenting author)**, Tate JP, So-Armah K, Marconi VC, Budoff M, Butt AA, Freiberg MS, Gibert CL, Goetz MB, Rodriguez-Barradas MC, Rimland D, Justice AC. Among Veterans Aging Cohort Study (VACS) Index components, age and anemia are the principal predictors of acute myocardial infarction for HIV-infected patients. Poster presentation at the 21<sup>st</sup> International Workshop on HIV Observational Databases (IWHOD), March 30-April 1, 2017; Lisbon, Portugal.
- **Rentsch CT (presenting author)**, Tate JP, Steel T, Butt AA, Gibert CL, Huang L, Pisani M, Soo Hoo GW, Crystal S, Rimland D, Justice AC, Fiellin D, Crothers KA, Akgün KM. Hepatitis C (HCV) has become a major driver of medical

intensive care unit (MICU) admission among patients with HIV. Poster presentation at the 21<sup>st</sup> International Workshop on HIV Observational Databases (IWHOD), March 30-April 1, 2017; Lisbon, Portugal.

- **Rentsch CT**, Tate JP, Marconi VC, Budoff M, Butt AA, Freiberg MS, Goetz MB, Rodriguez-Barradas MC, Rimland D, Justice AC. VACS Index is superior to nadir CD4 count for predicting AMI and mortality. Poster presentation at the 24<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI), February 13-16, 2017; Seattle, WA, US
- Fiellin DA, Tate JP, **Rentsch CT**, Bryant KJ, Justice AC. Neurologic adverse events with gabapentin: the impact of alcohol-related diagnoses, HIV, and HCV. Poster presentation at the 39<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 25-29, 2016; New Orleans, LA, US.
- \* **Rentsch CT**. Real-time record linkage between HDSS and health facility data in rural Tanzania. Invited talk from the Scientific Panel on *Innovations for Strengthening Civil Registration and Vital Statistical Systems* of the International Union for the Scientific Study of Populations (IUSSP), organized in collaboration with the Population Association of America (PAA) and the World Bank Group. April 4-5, 2016; Washington, DC, US. URL: <http://iussp.org/en/towards-next-generation-record-linkage-studies>
- § **Rentsch CT (presenting author)**, Reniers G, Urassa M, Todd J, Marston M, Žaba B. Using record linkage to improve engagement in HIV care. Poster presentation at the 2016 Research Degrees Poster Day at the London School of Hygiene & Tropical Medicine. February 3, 2016; London, UK.
- **Rentsch CT (presenting author)**, Reniers G, Machemba R, Mtenga B, Kabudula C, Michael D, Urassa M, Todd J, Žaba B. Real-time record linkage between demographic surveillance and health facility data for monitoring access and utilization of services in rural Tanzania. Oral presentation at the 7<sup>th</sup> Union for African Population Studies (UAPS) Conference, November 30-December 4, 2015; Pretoria, South Africa.
- Perkins MM, Halpin SN, Cooper H, Justice AC, Johnson TM, McInnes DK, **Rentsch CT**, Rimland D. Social Determinants of Health of Veterans Aging with HIV: A Phenomenological Study. Oral presentation at the 68<sup>th</sup> Annual Gerontological Society of America's (GSA) Scientific Meeting, November 18-22, 2015; Orlando, FL, US.
- \* **Rentsch CT**. Monitoring Access to HIV Services in Kisesa, Tanzania: Real-Time Record Linkage. Oral presentation at the 8<sup>th</sup> Annual Mwanza Intervention Trials Unit Board Meeting, July 2, 2015; Mwanza, Tanzania.
- **Rentsch CT**, Tate JP, Akgün KM, Crystal S, Wang KH, Greysen SR, Wang EA, Bryant KJ, Fiellin DA, Justice AC, Rimland D. Alcohol-Related Diagnoses and All-Cause Hospitalization Among HIV-Infected and Uninfected Patients: A Longitudinal Analysis of United States Veterans from 1997 to 2011. Poster presentation at the 38<sup>th</sup> Annual Research Society on Alcoholism (RSA) Scientific Meeting, June 20-24, 2015; San Antonio, TX, US.
- \* **Rentsch CT**. Introducing Record Linkage. Oral presentation at the 1<sup>st</sup> London School of Hygiene & Tropical Medicine-Tanzania Network Launch Meeting, April 13, 2015; Dar es Salaam, Tanzania.
- Salinas JL, **Rentsch CT**, Marconi VC, Tate JP, Butt AA, Freiberg MS, Goetz MB, Rodriguez-Barradas M, Justice AC, Rimland D. Cumulative HIV Care Measures Highly Associated with Acute Myocardial Infarction. Poster presentation at the 22<sup>nd</sup> Conference on Retroviruses and Opportunistic Infections (CROI), February 22-26, 2015; Seattle, WA, US.
- **Rentsch CT (presenting author)**, Tate JP, Akgün K, Crystal S, Wang K, Greysen SR, Justice AC, Rimland D. Alcohol diagnoses and hospitalization rates among HIV-infected and uninfected Veterans from 1997 to 2009. Oral presentation at the 1<sup>st</sup> Consortia for HIV/AIDS and Alcohol Research Translation Scientific Meeting (CHAART), May 14-16, 2014; Washington, DC, US.
- **Rentsch CT (presenting author)**, Salinas JL, Tate JP, Justice AC, Rimland D. Which Predicts Mortality Among HIV+ Veterans Better: Baseline, Time-Updated, or Cumulative HIV-1 RNA, CD4 Count, or VACS Index? Poster presentation at the 1<sup>st</sup> Consortia for HIV/AIDS and Alcohol Research Translation Scientific Meeting (CHAART), May 14-16, 2014; Washington, DC, US.
- **Rentsch CT (presenting author)**, Tate JP, Akgün K, Crystal S, Wang K, Greysen SR, Justice AC, Rimland D. Hospitalization rates among HIV-infected and uninfected Veterans from 1997 to 2009. Oral presentation at the 18<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 27-29, 2014; Sitges, Spain.

- Guest J, **Rentsch CT**, Marconi V, Rimland D. A 30 Year Perspective on Causes of Death in the HIV Atlanta Veterans Affairs Cohort Study (HAVACS). Oral presentation at the 18<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 27-29, 2014; Sitges, Spain.
- Guest J, **Rentsch CT**, Rimland D. The Absence of Racial Disparity in the HIV Atlanta Veterans Affairs Cohort Study (HAVACS). Poster presentation at the 18<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 27-29, 2014; Sitges, Spain.
- Moanna A, **Rentsch CT**, Rimland D. The Incidence of Herpes Zoster Among Veterans. Oral presentation at the American Federation for Medical Research Southern Regional Meeting, February 22-22, 2014; New Orleans, LA, US.
- Cartwright E, **Rentsch CT**, Rimland D. A Comparison of Clinical Co-morbidities, Substance Abuse, and Vital Status in Veterans Tested for Hepatitis C Infection between 1992 and 1995. Poster presentation at IDWeek, October 2-6, 2013; San Francisco, CA, US.
- Guest J, **Rentsch CT (presenting author)**, Bebu I, Richard P, Kronmann K, Rimland D, Agan B, Marconi V. Differences in baseline comorbidities between the US Military HIV Natural History Study (NHS) and the HIV Atlanta Veterans Affairs Cohort Study (HAVACS). Poster presentation at the 17<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), April 11-13, 2013; Cavtat, Croatia.
- **Rentsch CT (presenting author)**, Guest J, Weintrob A, Rimland D, Bradley W, Agan B, Marconi V. Combining epidemiologic and biostatistical tools to enhance variable selection for multivariate models. Oral presentation at the 16<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 29-31, 2012; Athens, Greece.
- Guest J, **Rentsch CT (presenting author)**, Rimland D. Comparison of colorectal cancer screening and diagnoses in HIV-positive and HIV-negative age and race matched men at the Atlanta Veterans Affairs Medical Center. Poster presentation at the 16<sup>th</sup> International Workshop on HIV Observational Databases (IWHOD), March 29-31, 2012; Athens, Greece.
- Guest J, Weintrob A, Rimland D, **Rentsch CT**, Bradley W, Agan B, Marconi V. A comparison of HAART outcomes between the US Military HIV Natural History Study (NHS) and HIV Atlanta Veterans Affairs Cohort Study (HAVACS). Poster presentation at the 19<sup>th</sup> Conference on Retroviruses and Opportunistic Infections (CROI), March 5-8, 2012; Seattle, WA, US.
- **Rentsch CT**. The acceptability of couples-based HIV counseling and testing amongst MSM in Cape Town, South Africa. Oral presentation at a Global Field Experience Seminar, Emory University, October 2010; Atlanta, GA, US.
- Kerr ZY, Whybark S, **Rentsch CT**, Lannaman C. Tailoring the Popular Opinion Leader Intervention to Columbus MSM: Sparking community interest, promoting participant retention. Oral presentation at the 2009 National HIV Prevention Conference, August 23-26, 2009; Atlanta, GA, US.

## SKILLS & CERTIFICATIONS

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### Research Methods

Pharmacoepidemiology, longitudinal data analysis, propensity scores, causal inference in epidemiology, trajectory analysis, difference-in-difference repeated measures models, survival analysis, logistic regression, Poisson regression, linear regression, geographic information systems

### Programming Languages & Software

- Statistical and computer programming  
SAS, STATA, SQL Database Design and Querying, T-SQL, R, Object-Oriented C# Programming
- Software  
Gephi, ArcGIS, MS Office, Adobe Design Suite

**Certifications:** SAS Base Programming for SAS 9, Rapid HIV/STI Testing Training and Counseling, Phlebotomy

## OTHER ACTIVITIES

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<i>Founder and Chair, LGBT Equal Employment Opportunity Committee, Atlanta VA Medical Center</i>	<b>2012 – 2013</b>
<i>Post-test STI Clinic Counselor, AIDAtlanta, Atlanta, GA</i>	<b>2009 – 2011</b>
<i>Member, The Ohio State University Marching Band, The Ohio State University</i>	<b>2008</b>