

Curriculum Vitae

Til Stürmer

PERSONAL

Place of Birth: Basel, Switzerland

Business Address: Department of Epidemiology, School of Public Health
University of North Carolina at Chapel Hill
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EDUCATION

2001 **“Habilitation” (Doctor of Philosophy Degree equivalent; see <http://en.wikipedia.org/wiki/Habilitation>):**
Epidemiology
University of Heidelberg, Germany
Dissertation: Increase in power and efficiency of case-control studies by novel strategies of frequency matching
Advisor: Dr. Hermann Brenner

1993 **Master of Public Health:**
Epidemiology
Harvard School of Public Health
Advisor: Dr. Alexander M. Walker

1989 **“Dr. med.” (European Doctorate in Medicine):**
Medicine
University of Basel, Switzerland
Thesis: Epidemiologic follow-up study of the health impact of analgesic abuse in Switzerland: overall and cause-specific mortality 1967 – 1986.
Advisor: Dr. Ulrich C. Dubach

1984 **“Staatsexamen” (Doctor of Medicine M.D. equivalent):**
Medicine
University of Basel, Switzerland

1978 **“Abitur” (Bachelor of Science equivalent):**
Mathematics, Physics, Chemistry, Languages
Bäumlihofgymnasium Basel, Switzerland

PROFESSIONAL EXPERIENCE

Nancy A. Dreyer Distinguished Professor and Chair

2018 – Present Department of Epidemiology, Gillings School of Global Public Health
University of North Carolina at Chapel Hill

Director

2013 – Present Comparative Effectiveness Research (CER), NC TraCS Institute, UNC Clinical and Translational Science Award (CTSA)

Chair, Admissions Committee

2013 – 2018 Department of Epidemiology, Gillings School of Global Public Health
University of North Carolina at Chapel Hill

Adjunct Professor

2011 – Present University of Aarhus, Faculty of Health Sciences, Institute for Clinical Medicine

Adjunct Professor of Pharmacy

2011 – Present UNC Eshelman School of Pharmacy
University of North Carolina at Chapel Hill

Professor of Epidemiology

2010 – Present Department of Epidemiology, Gillings School of Global Public Health
University of North Carolina at Chapel Hill

Head, pharmacoepidemiology program

Director, Center for Pharmacoepidemiology

2008 – 2018 Department of Epidemiology, Gillings School of Global Public Health
University of North Carolina at Chapel Hill

Associate Professor of Epidemiology (tenured)

2008 – 2010 Department of Epidemiology, Gillings School of Global Public Health
University of North Carolina at Chapel Hill

Adjunct Head

2006 – 2010 Section Pharmacoepidemiology
Department of Clinical Pharmacology and Pharmacoepidemiology
University Hospital
University of Heidelberg, Germany

Associate Professor of Medicine

2005 – 2008 Department of Internal Medicine
Division of Pharmacoepidemiology and Pharmacoeconomics
Division of Preventive Medicine
Brigham and Women's Hospital
Harvard Medical School

Boston, MA

Visiting Associate Professor of Medicine

2003 – 2005
Department of Internal Medicine
Division of Pharmacoepidemiology and Pharmacoeconomics
Division of Preventive Medicine
Brigham and Women's Hospital
Harvard Medical School
Boston, MA

Adjunct Associate Professor of Medicine

2001 – Present
Faculty of Medicine
University of Heidelberg, Germany

Associate Professor of Epidemiology (tenured)

2000 – 2003
Department of Epidemiology
German Centre for Research on Aging
University of Heidelberg, Germany

Assistant Professor of Epidemiology

1996 – 2000
Department of Epidemiology
University of Ulm, Germany

Lecturer in Epidemiology

1995
Department of Medical Sociology
University of Hamburg, Germany

Research Fellow

1992 – 1994
Division of Preventive Medicine
Brigham and Women's Hospital
Harvard Medical School
Boston, MA

Resident in Internal Medicine

1989 – 1991
Department of Internal Medicine
University Hospital
University of Basel, Switzerland

Intern in Internal Medicine

1988 – 1989
Department of Internal Medicine
University Policlinic
University of Basel, Switzerland

Postdoctoral Research Assistant

1987 – 1988
Swiss National Science Foundation
University of Basel, Switzerland

Intern in Pathology

1985 – 1986
Department of Pathology
University Hospital Liestal

University of Basel, Switzerland

HONORS AND MEMBERSHIPS

2018 – Present	Member, UNC CFAR Administrative Core Internal Advisory Board
2013 – Present	Director, Comparative Effectiveness Research (CER), NC TraCS Institute, UNC Clinical and Translational Science Award (CTSA)
2017 - Present	Consultant, Food and Drug Administration Drug Safety and Risk Management Advisory Committee
2013 – 2017	Member, Food and Drug Administration Drug Safety and Risk Management Advisory Committee
2013 – 2014	President, International Society for Pharmacoepidemiology
2012 – 2015	Member, Executive Committee, International Society for Pharmacoepidemiology
2010 – 2013	Principal Investigator, University of North Carolina at Chapel Hill Developing Evidence to Inform Decisions about Effectiveness (DEcIDE) Center (Agency for Healthcare Research and Quality)
2009 – 2012	Chair, Public Policy and Ethics committee of the International Society for Pharmacoepidemiology
2008 – 2018	Director, Center for Pharmacoepidemiology (fka: UNC-GSK Center of Excellence in Pharmacoepidemiology and Public Health), Department of Epidemiology, UNC Gillings School of Global Public Health
2008 – Present	Member, UNC Lineberger Comprehensive Cancer Center
2008 – Present	Research Fellow, Cecil G. Sheps Center for Health Services Research
2007 – 2009	Chair-Elect, Public Policy and Ethics committee of the International Society for Pharmacoepidemiology
2007 – 2013	Co-representative of the International Society for Pharmacoepidemiology in the Joint Policy Committee of the Societies for Epidemiology (JPC-SE) representing 13 national and international epidemiologic associations
2006 – Present	Fellow, International Society for Pharmacoepidemiology
2006 – 2008	Member, International Society for Clinical Biostatistics
2004 – Present	Fellow, American College of Epidemiology
2003 – 2005	Recipient of competitive 2-year international stipend from the

	German Research Foundation (STU 235/9-1) to study the value of Propensity Scores in Assessing Pharmacoprevention in the Elderly (declined due to funding restrictions)
2000	Board Certification in Epidemiology, Germany
1998 – Present	Member, German Society for Drug Utilization and Pharmacoepidemiology
1996 – Present	Member, International Society for Pharmacoepidemiology
1996 – Present	Member, Society for Epidemiologic Research
1996 – Present	Member, German Society for Medical Informatics, Biometry and Epidemiology
1996 – Present	Member, German Society of Epidemiology (former Association)
1996	Recipient of competitive stipend of the German Academic Exchange Service (D/96/17743)
1995 – 2003	Member, German Society of Medicine
1994	Board Certification in Internal Medicine, Switzerland
1992 – 1994	Recipient of competitive 2-year stipend of the Swiss National Science Foundation to study epidemiology in the US (823B-33287)
1985	Board Certification in Medicine (license to practice), Switzerland

PUBLICATIONS

Books and Chapters

2021

Htoo PT and **Stürmer T**. Unmeasured Confounding with and without randomization. In: Pragmatic Randomized Trials: Using Primary Data Collection and Electronic Health Records. Girman C and Ritchey MB [ed]; 1st edition. Academic Press ISBN: 9780128176634

2006

Dreinhöfer K, Dieppe P, Flören M, Günther KP, **Stürmer T**, Puhl W. Evaluation der Indikationsstellung zum Hüftgelenkersatz. In: Hez M, Maschewsky-Schneider U (eds.). Kursbuch Versorgungsforschung. MWV Medizinisch Wissenschaftliche Verlagsgesellschaft, Berlin; 2006. p. 62-63. ISBN 10: 3-939069-12-4. ISBN 13: 978-3-939069-12-6

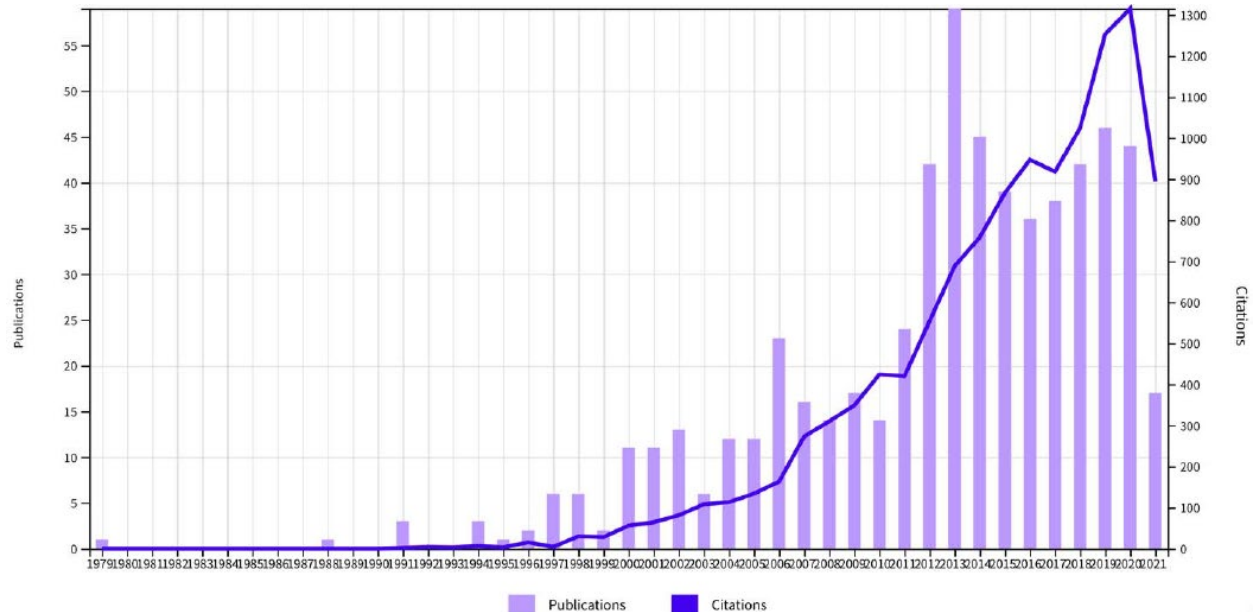
2003

Whelton A, **Stürmer T**, Porter GA. Non-steroidal anti-inflammatory drugs. In: DeBroe ME, Porter GA, Bennett WM, Verpooten GA (eds.). Clinical Nephrotoxins - Renal Injury from Drugs and Chemicals (2nd ed). Kluwer Academic Publishers, Dordrecht; 2003. p. 279-306

Refereed Articles (♣ indicates that the first author is a student or postdoctoral fellow for which I was/am the primary or co-primary mentor)

For all publications see: [http://www.ncbi.nlm.nih.gov/pubmed/?term=sturmer+t\[au\]](http://www.ncbi.nlm.nih.gov/pubmed/?term=sturmer+t[au])

Web of Science, October 6, 2021: 11,807 times cited; 10,033 citing articles; h-index: 56



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310. Klimeka M, Büchele G, Rehman M, Beyersmann J, Günther KP, Brenner H, **Stürmer T**, Brenner RE, Rothenbacher D. Long-term mortality of patients with osteoarthritis after joint replacement: Prognostic value of pre- and postoperative pain and function. *Arthritis Care & Research* ACR-21-0182.R1 [in press]
309. Young JC, Dasgupta N, Chidgey BA, **Stürmer T**, Pate V, Hudgens M, Jonsson Funk M. Impacts of Initial Prescription Length and Prescribing Limits on Risk of Prolonged Postsurgical Opioid Use. *Medical Care* MDC-D-20-00774R2 [in press]
308. Alexopoulos AS, Kahkoska AR, Pate V, Bradley MC, Niznik J, Thorpe C, **Stürmer T**, Buse J. Deintensification of treatment with sulfonylurea and insulin following severe hypoglycemia among older adults with diabetes. *JAMA Netw Open* [In Press]
307. Chun DS, Hicks B, Peacock Hinton S, Jonsson-Funk M, Gooden K, Keil A, Tan HJ, **Stürmer T**, Lund JL. Comparison of approaches for measuring adherence and persistence to oral oncologic therapies in patients diagnosed with metastatic renal cell carcinoma. *Cancer Epidemiology, Biomarkers & Prevention* MS# EPI-21-0341R [in press]
306. Keil LG, Nash AB, **Stürmer T**, Golightly YM, Lin FC, Stone JD, Sanders JO, Louer CR. When is a Growth-friendly Strategy Warranted? A Matched Comparison of Growing Rods Versus Primary Posterior Spinal Fusion in Juveniles With Early-onset Scoliosis. *Journal of Pediatric Orthopaedics* August 19, 2021 Publish Ahead of Print doi: 10.1097/BPO.0000000000001926

- 305.♣ Bloch RA, Papich MG, **Stürmer T**. Veterinary antimicrobial prescribing practices for presumptive sporadic urinary tract infections in dogs seen at primary care practices in the United States (2010-2019). *Journal of the American Veterinary Medical Association* JAVMA-21-03-0123.R1 [in press]
304. Shmuel S, Pate V, Pepin MJ, Bailey JC, Golightly YM, Hanson LC, **Stürmer T**, Naumann RB, Gnjidic D, Lund JL. Effects of Anticholinergic and Sedative Medication Use on Fractures: A Self-Controlled Design Study. *Journal of the American Geriatric Society* 2021 Jul 22. doi: 10.1111/jgs.17377. Online ahead of print.
303. Young JC, Dasgupta N, Chidgey BA, **Stürmer T**, Pate V, Hudgens M, Jonsson Funk M. Day-of-Surgery Gabapentinoids and Prolonged Opioid Use: A Retrospective Cohort Study of Medicare Patients using Electronic Health Records. *Anesthesia and Analgesia*. 2021 Jul 14. doi: 10.1213/ANE.0000000000005656. Online ahead of print.
302. Kahkoska AR, Abrahamsen TJ, Caleb AG, Bennett TD, Chute CG, Haendel MA, Klein KR, Mehta H, Miller JD, Moffitt RA, **Stürmer T**, Kvist K, Buse J. Association Between Glucagon-like Peptide 1 Receptor Agonist and Sodium Glucose Co-transporter 2 Inhibitor Use and COVID-19 Outcomes. *Diabetes Care* 2021;44(7):1564-72.
- 301.♣ Webster-Clark M, Keil AP, Sanoff HK, **Stürmer T**, Westreich D, Lund JL. Introducing Longitudinal Cumulative Dose to Describe Chemotherapy Patterns Over Time: Case Study of a Colon Cancer Trial. *International Journal of Cancer* 2021;149(2):394-402.
300. Heilbronner U, Papiol S, Budde M, Andlauer TFM, Strohmaier J, Streit F, Frank J, Degenhardt F, Heilmann-Heimbach S, Witt S, Forstner AJ, Loerbroks A, Amelang M, **Stürmer T**, Müller-Myhsok B, Nöthen MM, Rietschel M, Schulze TG. “The Heidelberg Five” Personality Dimensions: Genome-wide Associations, Polygenic Risk for Neuroticism, and Psychopathology 20 Years after Assessment. *American Journal of Medical Genetics B Neuropsychiatric Genetics* 2021;186(2):77-89.
299. Conover M, Rothman KJ, **Stürmer T**, Ellis AR, Poole C, Jonsson Funk M. Propensity-score trimming mitigates bias due to covariate measurement error in inverse-probability of treatment weighted analyses: a plasmode simulation. *Statistics in Medicine* 2021;40(9):2101-12.
298. Gaber CE, Kinlaw AC, Edwards JK, Lund JL, **Stürmer T**, Peacock Hinton S, Pate V, Bartelt LA, Sandler RS, Peery AF. Comparative Effectiveness and Harms of Antibiotics for Outpatient Diverticulitis: Two Nationwide Cohort Studies. *Annals of Internal Medicine* 2021;174(6):737-46.
- 297.♣ Webster-Clark M, **Stürmer T**, Wang T, Man K, Marinac-Dabic D, Rothman KJ, Ellis AR, Gokhale M, Lunt M, Girman C, Glynn RJ. Using Propensity Scores to Estimate Effects of Treatment Initiation Decisions: State of the Science. *Statistics in Medicine* 2021;40(7):1718-35.
296. Catalino MP, Kessler BA, Pate V, Cutshaw D, **Stürmer T**, Bhowmick DA. Gender Disparities in Surgical Treatment of Axis Fractures in Older Adults. *Global Spine Journal* 2021;11(1):71-5. First published November 25, 2019
<https://doi.org/10.1177/2192568219890573>
295. Irwin DE, Kelly K, Winer I, **Stürmer T**, Zura R. Methodologies for validation of diagnoses in real-world data: BONES – a case study. *Journal of Orthopaedic Trauma* 2021;35(Suppl 1):S28-S32.
294. **Stürmer T**, Webster-Clark M, Lund JL, Wyss R, Ellis AR, Lunt M, Rothman KJ, Glynn RJ. Propensity Score Weighting and Trimming Strategies to Reduce Variance and Bias

- of Treatment Effect Estimates: a Simulation Study. *American Journal of Epidemiology* 2021;190(8):1659-70.
293. Suarez E, Boggess K, Engel S, **Stürmer T**, Lund JL, Jonsson Funk M. Ondansetron Use in Early Pregnancy and the Risk of Late Pregnancy Outcomes. *Pharmacoepidemiology and Drug Safety* 2021;30:114–25.
292. Suarez E, Boggess K, Engel S, **Stürmer T**, Lund JL, Jonsson Funk M. Ondansetron use in early pregnancy and the risk miscarriage. *Pharmacoepidemiology and Drug Safety* 2021;30(2):103-13.
291. Shmuel S, Pate V, Pepin MJ, Bailey JC, Hanson LC, **Stürmer T**, Naumann RB, Golightly YM, Gnjjidic D, Lund JL. Quantifying Cumulative Anticholinergic and Sedative Drug Load Among US Medicare Beneficiaries. *Pharmacoepidemiology and Drug Safety* 2021;30(2):144-56.

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290. Lund JL, Webster-Clark MA, Hinton SP, Shmuel S, **Stürmer T**, Sanoff HK. Effectiveness of adjuvant FOLFOX versus 5FU/LV in adults over age 65 with stage II and III colon cancer using a novel hybrid approach. *Pharmacoepidemiology and Drug Safety* 2020;29:1579–87.
- 289.♣ Gaggi M, **Stürmer T**, Kshirsagar AV, Layton JB. The Comparative Risk of Acute Kidney Injury of Vancomycin Relative to other Common Antibiotics. *Scientific Reports* 2020;10(1):17282. doi.org/10.1038/s41598-020-73687-9.
288. Repky S, Büchele G, Günther K-P, Huch K, Brenner H, **Stürmer T**, Beyersmann J, Brenner RE, Rothenbacher D. Five years' trajectories of functionality and pain in patients after hip or knee replacement and association with long-term patient survival. *Scientific Reports* 2020;10:14388 doi.org/10.1038/s41598-020-71277-3.
287. Yang JY, Moon AM, Kim H, Pate V, Barritt S, Crowley MJ, Buse JB, **Stürmer T**, Alexopoulos AS. Newer second-line glucose-lowering drugs versus thiazolidinediones on cirrhosis risk among older US adult patients with type 2 diabetes. *Journal of Diabetes and its Complications* 2020:107706. doi: 10.1016/j.jdiacomp.2020.107706. [Online ahead of print].
- 286.♣ Webster-Clark M, Jonsson Funk M, **Stürmer T**. Single-Arm Trials with External Comparators and Confounder Misclassification: How Adjustment Can Fail. *Medical Care* 2020;58(12):1116–21.
285. Zeitouni D, Catalino M, Kessler B, Pate V, **Stürmer T**, Quinsey C, Bhowmick D. 1-year mortality and surgery incidence in older US adults with cervical spine fracture. *World Neurosurgery* 2020;141:e858-e863. doi.org/10.1016/j.wneu.2020.06.070.
284. Requena G, Ma L, **Stürmer T**, Layton JB, DiBello J. Association between an acute, drug-induced decrease in high-density lipoprotein cholesterol levels and risk of cardiovascular events. *Clinical Drug Investigation* 2020;40(8):747-754. doi: 10.1007/s40261-020-00935-1.
283. Gokhale M, Dusetzina SB, Pate V, Chun D, Buse JB, **Stürmer T**, Gower E. Decreased antihyperglycemic drug use driven by high out-of-pocket costs despite the reduction or closure of Medicare coverage gap. *Diabetes Care* 2020 Jul; dc191880. https://doi.org/10.2337/dc19-1880.
- 282.♣ Webster-Clark M, **Stürmer T**, Edwards JK, Poole C, Simpson RJ, Lund JL. Real-World On-Treatment and Initial Treatment Absolute Risk Differences for Dabigatran vs

- Warfarin in Older US Adults. *Pharmacoepidemiology and Drug Safety* 2020;29:832–41
DOI: 10.1002/pds.5069.
281. Gokhale M, **Stürmer T**, Buse JB. Real World Evidence – the devil is in the details. *Diabetologia* 2020; 63(9):1694-1705.
280. Catalino MP, Pate V, **Stürmer T**, Bhowmick DA. Comparative Propensity-Weighted Mortality After Isolated Acute Traumatic Axis Fractures in Older Adults. *Geriatric Orthopaedic Surgery & Rehabilitation*. doi: 10.1177/2151459320911867 [Epub ahead of print]
- 279.♣ Webster-Clark M, Lund JL, **Stürmer T**, Poole C, Simpson RJ, Edwards JK. Reweighting Oranges to Apples: Transported RE-LY Trial vs Non-experimental Effect Estimates of Anticoagulation in Atrial Fibrillation. *Epidemiology* 2020;31(5):605-613. doi: 10.1097/EDE.0000000000001230.
- Winner of Society for Epidemiologic Research (SER) 2020 Tyroler Student Prize Paper Award*
278. Lau B, Duggal P, Ehrhardt S, Armenian H, Branas CC, Colditz GA, Fox MP, Hawes SE, He J, Hofman A, Keyes K, Ko AI, Lash TL, Levy D, Lu M, Morabia A, Ness R, Nieto FJ, Schisterman EF, **Stürmer T**, Szklo M, Werler M, Wilcox AJ, Celentano DD. Perspectives on the future of epidemiology: a framework for training. *American Journal of Epidemiology* 2020. pii: kwaa013. doi: 10.1093/aje/kwaa013. [Epub ahead of print]
277. Yang JY, Wang T, Pate V, Buse JB, **Stürmer T**. Real-World Evidence on Sodium-Glucose Cotransporter-2 Inhibitor Use and Risk of Fournier’s Gangrene. *BMJ Open Diabetes Research & Care* 2020;8(1). pii: e000985. doi: 10.1136/bmjdr-2019-000985.
276. de Las Fuentes L, Sung YJ, Sitlani CM, Avery CL, Bartz TM, Keyser C, Evans DS, Li X, Musani SK, Ruiter R, Smith AV, Sun F, Trompet S, Xu H, Arnett DK, Bis JC, Broeckel U, Busch EL, Chen YI, Correa A, Cummings SR, Floyd JS, Ford I, Guo X, Harris TB, Ikram MA, Lange L, Launer LJ, Reiner AP, Schwander K, Smith NL, Sotoodehnia N, Stewart JD, Stott DJ, **Stürmer T**, Taylor KD, Uitterlinden A, Vasan RS, Wiggins KL, Cupples LA, Gudnason V, Heckbert SR, Jukema JW, Liu Y, Psaty BM, Rao DC, Rotter JI, Stricker B, Wilson JG, Whitsel EA. Genome-Wide Meta-analysis of Variant-by-Diuretic Interactions as Modulators of Lipid Traits in Persons of European and African Ancestry. *Pharmacogenomics J* 2019. doi: 10.1038/s41397-019-0132-y. [Epub ahead of print]
- 275.♣ Kinsey TL, **Stürmer T**, Jonsson Funk M, Poole C, Simpson RJ, Glynn RJ. Incidence of venous thromboembolism following initiation of non-steroidal anti-inflammatory drugs in U.S. women. *Rheumatology* 2020. pii: kez653. doi: 10.1093/rheumatology/kez653. [Epub ahead of print]
274. Pratt NL, Mack CD, Meyer AM, Davis KJ, Hamill BG, Hampp C, Setoguchi S, Raman SR, Chun DS, **Stürmer T**, Lund JL. Data linkage in pharmacoepidemiology: A call for rigorous evaluation and reporting. *Pharmacoepidemiology and Drug Safety* 2020;29(1):9-17.
273. Bush M, Kucharska-Newton A, Simpson RJ Fang G, **Stürmer T**, Brookhart MA. Effect of Initiating Cardiac Rehabilitation after Myocardial Infarction on Subsequent Hospitalization in Older Adults. *Journal of Cardiopulmonary Rehabilitation and Prevention* 2020;40(2):87-93.

2019 (27)

272. Edwards JK, Htoo PT, **Stürmer T**. Keeping the demons at bay when handling time varying exposures: beyond avoiding immortal person time. *American Journal of Epidemiology* 2019;188(6):1016-22.
271. Irvin MR, Sitlani CM, Floyd JS, Psaty BM, Bis JC, Wiggins KL, Whitsel EA, **Sturmer T**, Stewart J, Raffield L, Sun F, Liu CT, Xu H, Cupples AL, Tanner RM, Rossing P, Smith A, Zilhão NR, Launer LJ, Noordam R, Rotter JI, Yao J, Li X, Guo X, Limdi N, Sundaresan A, Lange L, Correa A, Stott DJ, Ford I, Jukema JW, Gudnason V, Mook-Kanamori DO, Trompet S, Palmas W, Warren HR, Hellwege JN, Giri A, O'Donnell C, Hung AM, Edwards TL, Ahluwalia TS, Arnett DK, Avery CL; VA Million Veteran Program and the CHARGE Pharmacogenetics Working group. Genome wide association study of apparent treatment resistant hypertension in the CHARGE consortium: The CHARGE Pharmacogenetics Working Group. *American Journal of Hypertension* 2019;32(12):1146-53.
270. Landi SN, Radke S, Engel S, **Stürmer T**, Howe A, Jonsson Funk M. Comparative effectiveness of metformin versus insulin for gestational diabetes. *Pharmacoepidemiology and Drug Safety* 2019;28(12):1609-19.
- 269.♣ Wang T, Yang JY, Buse JB, Pate V, Tang H, Barnes EL, Sandler RS, **Stürmer T**. Dipeptidyl Peptidase-4 Inhibitors and Risk of Inflammatory Bowel Disease: Real World Evidence in US Adults. *Diabetes Care* 2019;42(11):2065-74.
- 268.♣ Wang T, Lu W, Li D, Tang H, Yang JY, Buse JB, **Stürmer T**. Assessing the Association Between Dipeptidyl Peptidase 4 Inhibitor Use and Inflammatory Bowel Disease Through Drug Adverse Event Reporting. *Diabetes Care* 2019;42(6):e89-e91.
267. **Stürmer T**, Wang T, Golightly YM, Keil AP, Lund JL, Jonsson Funk M. Methodological Considerations When Analyzing and Interpreting Real-world Data. *Rheumatology* 2020;59:14-25.
- 266.♣ Bushnell GA, Gaynes BN, Compton SN, Dusetzina SB, Olfson M, **Stürmer T**. Incident substance use disorder following anxiety disorder in privately insured youth. *Journal of Adolescent Health* 2019;65(4):536-42.
- 265.♣ Garry EM, Buse JB, Gokhale M, Lund JL, Nielson M, Pate V, **Stürmer T**. Study Design Choices for Evaluating Comparative Safety of Diabetic Medications: An Evaluation of Pioglitazone and Bladder Cancer Risk Among Older US Adults with Type-2 Diabetes. *Diabetes Obesity and Metabolism* 2019;21(9):2096-106.
264. Glynn RJ, Lunt M, Rothman KJ, Poole C, Schneeweiss S, **Stürmer T**. Comparison of alternative approaches to trim subjects in the tails of the propensity score distribution. *Pharmacoepidemiology and Drug Safety* 2019;28(10):1290-8.
263. Yang JY, Webster-Clark M, Lund JL, Sandler RS, Dellon ES, **Stürmer T**. Propensity score methods to control for confounding in observational cohort studies: a statistical primer and application to endoscopy research. *Gastrointestinal Endoscopy* 2019;90(3):360-9.
262. Li X, Cole SR, Kshirsagar AV, Fine JP, **Stürmer T**, Brookhart MA. Safety of Dynamic Intravenous Iron Administration Strategies in Hemodialysis Patients. *Clinical Journal of the American Society of Nephrology* 2019;14:728–37.
- 261.♣ Zhang HT, McGrath LJ, Ellis AR, Wyss R, Lund JL, **Stürmer T**. Restriction of Pharmacoepidemiologic Cohorts to Initiators of Unrelated Preventive Drug Classes Can Reduce Confounding by Frailty in Older Adults. *American Journal of Epidemiology* 2019;188(7):1371-82.

- 260.♣ Htoo PT, **Stürmer T**, Jonsson Funk M, Pate V, Simpson RJ, Lund JL. Renin-Angiotensin-Aldosterone System-Based Antihypertensive Agents and the Risk of Colorectal Cancer Among Medicare Beneficiaries. *Epidemiology* 2019;30(6):867-75.
259. Yang JY, Wang T, Pate V, Gower EW, Crowley MJ, Buse JB, **Stürmer T**. Sodium-Glucose Cotransporter-2 Inhibitor Use and Risk of Lower-Extremity Amputation: Evolving Questions, Evolving Answers. *Diabetes, Obesity and Metabolism* 2019;21(5):1223-36.
258. Gilbertson DT, Rothman KJ, Chertow G, Bradbury BD, Brookhart MA, Liu J, Winkelmayer W, **Stürmer T**, Monda K, Herzog C, Ashfaq A, Collins AJ, Wetmore JB. Excess Deaths Attributable to Influenza-Like Illness in the End-Stage Renal Disease Population. *Journal of the American Society of Nephrology* 2019;30:346–53.
- 257.♣ Bushnell GA, Dusetzina SB, Compton SN, Gaynes BN, Brookhart MA, **Stürmer T**. Psychotherapy claims surrounding pharmacotherapy initiation in children and adolescents with anxiety disorders. *Journal of Child and Adolescent Psychopharmacology* 2019;29(2):100-6.
256. Crowley MJ, Gokhale M, Pate V, **Stürmer T**, Buse JB. Impact of metformin use on the cardiovascular effects of DPP-4 inhibitors: an analysis of Medicare claims data 2007-2015. *Diabetes Obesity and Metabolism* 2019;21:854-65.
255. Mayer SE, Tan HJ, Peacock Hinton S, Sanoff HK, **Stürmer T**, Hester LL, Faurot KR, Jonsson Funk M, Lund JL. Comparison of Medicare claims-based measures of poor physical function and associations with treatment receipt and mortality in older colon cancer patients. *Medical Care* 2019;57:286-94.
254. Yoshida K, Solomon DH, Haneuse S, Kim SC, Paterno E, Tedeschi SK, Lyu H, Franklin JM, **Stürmer T**, Hernandez-Diaz S, Glynn RJ. Multinomial Extension of Propensity Score Trimming Methods: A Simulation Study. *American Journal of Epidemiology* 2019;188(3):609-16.
- 253.♣ Kinsey T, **Stürmer T**, Poole C, Rothman KJ, Glynn RJ. Changing predictors of statin initiation in U.S. women over two decades. *Pharmacoepidemiology and Drug Safety* 2019;28(3):305-14.
252. Chun D, Lund JL, **Stürmer T**. *Pharmacoepidemiology and Drug Safety's* special issue on validation studies. *Pharmacoepidemiology and Drug Safety* 2019;28(2):123-5.
- 251.♣ Austin CA, O’Gorman T, Stern E, Emmett D, **Stürmer T**, Carson S, Busby-Whitehead J. The Impact of Post-operative Delirium After Major Non-Emergent Surgery on Long-Term Cognitive Function. *JAMA Surgery* 2019;154(4):328-34.
250. Landi SN, Radke S, Engel S, **Stürmer T**, Howe A, Boggess K, Jonsson Funk M. Association of long-term child growth and developmental outcomes with metformin versus insulin treatment for gestational diabetes. *JAMA Pediatrics* 2019;173(2):160-8.
- 249.♣ Bushnell GA, Gaynes BN, Compton SN, Dusetzina SB, Brookhart MA, **Stürmer T**. Incidence of mental health hospitalizations, treated self-harm, and emergency room visits following new anxiety disorder diagnoses in privately insured US children. *Depression and Anxiety* 2019;36(2):179-89.
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23. Henry T. Zhang¹; Robert J. Glynn²; Til Stürmer. Identifying drug classes whose initiation may be a proxy for frailty. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):226 DOI: 10.1002/pds.4864
24. Tracy L. Kinsey; Til Stürmer; Michele Jonsson Funk; Charles Poole; Ross J. Simpson; Jr; Robert J. Glynn. Analytic and design approaches to unmeasured confounding by body mass index. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):309 DOI: 10.1002/pds.4864
25. Tiansheng Wang¹; Magdalene M. Assimon²; Virginia Pate¹; Emily W. Gower¹; Jennifer L. Lund¹; Michele L. Jonsson-Funk¹; John B. Buse²; Til Stürmer. Bias reduction with multiple imputation of lab results from a limited internal sample. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):313 DOI: 10.1002/pds.4864
26. Michael Webster-Clark; Til Stürmer; Jessie K. Edwards; Ross Simpson; Charles Poole; Jennifer L. Lund. Classes and prevalence of prevalent new users: An example in Medicare. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):404 DOI: 10.1002/pds.4864
27. Phyto T. Htoo¹; Michele Jonsson-Funk¹; Gang Fang²; Virginia Pate¹; John Buse¹; Jessie K. Edwards¹; Nabarun Dasgupta³; Til Stürmer. Comparative performance of trend-intrend design and instrumental variable methods in an active comparator new user setting. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):404-5 DOI: 10.1002/pds.4864
28. Danielle S. Chun¹; Mugdha Gokhale²; Stacie B. Dusetzina³; Virginia Pate¹; John B. Buse⁴; Emily Gower¹; Til Stürmer. Increased out-of-pocket costs lead to decreased adherence and delayed treatment reinitiation of branded diabetes drugs in Medicare patients. *Pharmacoepidemiol Drug Saf.* 2019;28(S2):426 DOI: 10.1002/pds.4864

29. Comparison of propensity score (PS) weighting and trimming strategies to reduce variance and bias of treatment effect estimates: A simulation study. Til Stürmer¹; Kenneth J. Rothman²; Alan R. Ellis³; Richard Wyss⁴; Mitchell Conover¹; Mark Lunt⁵; Robert J. Glynn⁴. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S53
30. A flexible approach to evaluating the validity of commonly used claims-based cancer algorithms. Monica D'Arcy¹; Til Stürmer²; Jennifer L. Lund². *Pharmacoepidemiol Drug Saf* 2018;27(S2):S124
31. Multiple imputation of clinical variables in FFS Medicare population. Tiansheng Wang; Emily W. Gower; Jennifer L. Lund; Michele Jonsson Funk; Virginia Pate; John B. Buse; Til Sturmer. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S165-6.
32. Variation in risk estimates from different cohort selection strategies when using recurrent index events. Henry T. Zhang; Mitchell M. Conover; Til Stürmer. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S166-7.
33. Implementation of the prevalent new user study design in the US Medicare population: Benefit versus harm. Elizabeth Garry¹; John B. Buse²; Mugdha Gokhale¹; Jennifer L. Lund¹; Virginia Pate¹; Til Stürmer¹. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S167
34. Strategies for selecting start of follow up in longitudinal studies with multiple eligible index opportunities. Mitchell M. Conover¹; Henry T. Zhang¹; Til Stürmer¹; Robert J. Glynn²; Charles Poole¹; Michele Jonsson Funk¹. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S168-9.
35. Application of the prevalent new-user design among commercially insured US patients (MarketScan 2006-2015). Arti Virkud; Jeff Yang; Virginia Pate; Til Stürmer. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S225-6.
36. Potential omissions of angiotensin inhibition treatment among older US adults after an acute myocardial infarction. Marcela Jiron¹; Virginia Pate²; Laura C. Hanson³; Jennifer Lund²; Michele Jonsson Funk²; Til Stürmer². *Pharmacoepidemiol Drug Saf* 2018;27(S2):S291-2.
37. Potential omissions of oral anticoagulant among older US adults with newly diagnosed atrial fibrillation. Marcela Jiron¹; Virginia Pate²; Laura C. Hanson³; Jennifer Lund³; Michele Jonsson Funk³; Til Stürmer³. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S292
38. Improving population-level PIM exposure metrics using Medicare claims data. Jennifer L. Lund¹; Virginia Pate¹; Marcela Jiron²; Laura C. Hanson¹; Shahar Shmuel¹; Michael A. Webster-Clark¹; Joel F. Farley³; Til Sturmer¹. *Pharmacoepidemiol Drug Saf* 2018;27(S2):S297.

Other Unrefereed Works

Invited oral presentations

National

2019

31. Where Have We Come From – Where Are We Now – Where Are We Going? Session IV: Methodological and Analytical Considerations for Observational Studies. Developing Real-World Data and Evidence to Support Regulatory Decision-Making. Duke Margolis Center for Health Policy, Center for Drug Evaluation and Research (CDER), National Press Club, Washington DC, October 3, 2019

2018

30. Representative Sampling Is Not Necessary. Session on Balancing internal and external validity – can one really have it all? Chaired by Catherine Lesko and Matthew Fox. Society of Epidemiologic Research Annual Conference, Baltimore, MD

2017

29. Causal Inference in Pharmacoepidemiology. SERTalks – North Carolina. “Applications of Causal Inference Methods in Four Substantive Areas: New methods, what works (and what doesn’t), and future directions”. September 2017, Chapel Hill, NC
28. Design Considerations to Improve the Validity of Nonexperimental Comparative Effectiveness Research. University of Florida College of Pharmacy, Department of Pharmaceutical Outcomes & Policy, Gainesville, FL

2016

27. Design Considerations to Improve the Validity of Nonexperimental Comparative Effectiveness Research. GlaxoSmithKline Quantitative Sciences (QSci) Annual Meeting, Upper Providence, Collegeville, PA
26. RTI/UNC Contributions to 32nd International Conference on Pharmacoepidemiology & Therapeutic Risk Management, August 2016, Dublin Ireland, RTI, RTP, NC

2015

25. The Role of Study Design to Reduce the Potential for Confounding. Addressing Inadequate Information on Important Health Factors. Public Workshop organized by FDA in collaboration with UMD, under M-CERSI grant, Silver Spring, MD

2013

24. Current Landscape of Pharmacoepidemiologic Research. Amgen Observational Research Symposium, Thousand Oaks, CA
23. Using external validation studies to quantify the magnitude of confounding by an unmeasured covariate. Symposium on “Old studies, new questions: maximizing the utility of existing data and minimizing the biases that can result”. Society for Epidemiologic Research, Boston, MA

2012

22. Threats to Validity: Confounding in Rheumatic Disease Research. 2012 American College of Rheumatology Annual Meeting in Washington, DC
21. Design Issues in Nonexperimental Comparative Effectiveness Studies. University of Alabama at Birmingham. Symposium jointly hosted by UAB Division of Preventive Medicine; UAB Center for Outcomes and Effectiveness Research and Education (COERE); UAB Center for Education and Research on Therapeutics (CERTs)

20. Issues and Limitations of Current Design Options for Nonexperimental Comparative Effectiveness Studies. Amgen Observational Research Symposium “Being Successful in the Era of Comparative Effectiveness”, Thousand Oaks, CA
19. Standards and Validity of Observational Studies; academic perspective. GlaxoSmithKline extended leadership team of the Quantitative Sciences Group discussion on “How to improve the quality of observational studies published in journals”. RTP, NC

2011

18. Nonexperimental Comparative Effectiveness Research, Novel Methods. Comparative Effectiveness Research: Methods and Applications. 6th Annual Chapel Hill Drug conference. Chapel Hill, NC
17. Confounding and Propensity Scores. American Pharmacists Association Annual Meeting & Exposition. Seattle, WA

2010

16. The UNC DEClDE Center. Agency for Healthcare Research and Quality annual meeting. Washington, DC
15. Non-Experimental Comparative Effectiveness Research Using Automated Databases. Epidemiology Symposium “Data linkages in clinical epidemiology: are we being brave or foolhardy?” (Kaufman J, Hernan M), 43rd annual meeting of the Society for Epidemiologic Research, June 2010, Seattle, WA
14. Statistical Issues in Epidemiology. Boston Chapter of the American Statistical Association. Boston, MA
13. The Use of Propensity Scores in Etiological Research. Session on Recent Advances in the Study of Healthcare-Related Infectious Disease Epidemiology. 5th Decennial International Conference on Healthcare-Associated Infections co-organized by the Society for Healthcare Epidemiology of America (SHEA), the Centers for Disease Control and Prevention (CDC), the Association for Professionals in Infection Control and Epidemiology (APIC), and the Infectious Diseases Society of America (IDSA), Atlanta, GA

2009

12. Dealing with confounding and selection bias. Advanced epidemiologic/statistical methods (moderator: Art Sedrakyan). Methodologies for post-approval studies of medical devices. Food and Drug Administration, Silver Spring, MD
11. Propensity Scores in Pharmacoepidemiologic Research. University of Massachusetts Medical School, Worcester, MA

2008

10. Pharmacoepidemiology. GlaxoSmithKline, RTP, NC
9. Control of Unmeasured Confounding in Pharmacoepidemiology. Merck & Co., Inc., West Point, PA

8. Bias Estimation for Propensity Score Calibration. SER Spotlight Session on Exposure Measurement Error. 41st Annual meeting Society for Epidemiologic Research, Chicago, IL

2007

7. Control of unmeasured confounding in pharmacoepidemiology. Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, NC
6. Single imputation to control unmeasured confounding using a validation study. 40th annual meeting, Society for Epidemiologic Research, Boston, MA
5. Propensity Score Calibration with Validation Data. Joint Statistical Meetings of the American Statistical Association, International Biometric Society, Institute of Mathematical Statistics, and Statistical Society of Canada, Salt Lake City, UT

2006

4. Adjustments for Unmeasured Confounders in Pharmacoepidemiology Database Studies using External Information. Symposium of the Agency for Healthcare Research and Quality (AHRQ) on Comparative Effectiveness and Safety: Emerging Methods, Rockville, MD
3. Propensity scores in pharmacoepidemiology. Department of Biostatistics, Harvard School of Public Health, Seminar “Working Group in Statistical Methods in Epidemiology (B. Rosner)”, Boston, MA

2005

2. Propensity scores in pharmacoepidemiology. Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, NC

2004

1. Propensity scores in pharmacoepidemiology: increasing use, persisting questions, and new possibilities. Harvard School of Public Health, Boston, MA

International

2019

47. Propensity scores – principles, implications, and use for study design. Keynote, German Society for Epidemiology annual meeting (DGEpi 2019), Ulm, Germany
46. The Role of the Active Comparator, New User Study Design: Insights from Pharmacoepidemiology. Symposium of the Danish Epidemiological Association on Ways to Bypass Unmeasured Confounding in Observational Research. Copenhagen, Denmark

2018

45. New versus prevalent user designs in PE: time to get principled about when we can be pragmatic. Hot Topic Session (chair), 34th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Prague, Czech Republic
44. Pharmacoepidemiology: Methods and Data Developments. Keynote. Pharmakoepidemiologie-Workshop der Arbeitsgruppe Pharmakoepidemiologie der Deutschen Gesellschaft für Epidemiologie (DGEpi) und der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie (GMDS), Bremen, Germany

2017

43. Principled versus pragmatic pharmacoepidemiology: do we need to take sides? 6th Bordeaux Pharmacoepidemiology Festival, Bordeaux, France

2016

42. Screening and Diagnostic Detection of Pre-Clinical Cancer in Pharmacoepidemiologic Studies. 9th meeting of the Nordic PharmacoEpidemiological Network (NorPEN), Stockholm, Sweden

2015

41. The Role of Study Design to Reduce the Potential for Confounding. London School of Hygiene and Tropical Medicine, London, UK
40. Unmeasured Confounding in Nonexperimental Pharmacoepidemiologic Studies: Design and Analytic Considerations. McGill University, Montreal, Canada

2014

39. Control for unmeasured confounding in PE studies: study design and analytic considerations. Satellite Symposium of ICPE. Institute of Clinical Pharmacy and Pharmaceutical Sciences, National Cheng Kung University (NCKU), Tainan, Taiwan

2013

38. Advances in Pharmacoepidemiology Research. Keynote, 8th Asian Conference on Pharmacoepidemiology, Hong Kong, China
37. Improvement of 1:M Matching Using an Adaptive Algorithm: Proof of Concept. International Society for Pharmacoepidemiology, Montreal, Canada
36. Rationale for and Practical Implementation of Trimming Strategies in Study Design for 2-Cohort Comparisons. Symposium on "Strategies To Enhance Validity in the Design of Comparative Effectiveness Studies". International Society for Pharmacoepidemiology, Montreal, Canada
35. Joint workshop on "Methodological challenges in epidemiological studies on the effectiveness of drugs – the example of statins" with Centre for Pharmacoepidemiology, Karolinska Institute, and AstraZeneca, Stockholm, Sweden

2012

34. Propensity scores for confounder adjustment. 6th Nordic Pharmacoepidemiologic Network (NorPEN) meeting, Karolinska Institutet, Stockholm, Sweden

2011

33. Methodological challenges in register-based observational studies. Workshop on methodological issues in pharmacoepi research using the Nordic registers. Nordic Pharmacoepidemiologic Network (NorPEN). Centre for Pharmacoepidemiology, Karolinska Institutet, Sweden
32. Keynote (methods): Biases due to frailty in population based studies of medical interventions: outline of the problem and methods to address it. Canadian Association for Population Therapeutics meeting on “Knowledge to Provide Evidence for Health Care Decision-Makers: Clinical Practice and Research Methodology”. Ottawa, Ontario, Canada

2010

31. Why & how to use Propensity Scores? National Institute of Public Health, Oslo, Norway
30. Treatment decisions and propensity scores. World Pharma 2010, Copenhagen, Denmark

2009

29. Propensity Scores in Pharmacoepidemiology. Novartis, Basel, Switzerland
28. Propensity Scores in Pharmacoepidemiology. PMV Forschungsgruppe, University of Cologne, Germany

2008

27. Practical issues in measuring cessation and re-initiation of drug use in databases (discussant). 24th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark
26. Propensity Scores in Pharmacoepidemiology. GSF-Institute for Epidemiology, Neuherberg, Germany
25. Colorectal cancer: epidemiology and prevention. University of Ulm, Germany
24. Epidemiology and prevention of colorectal cancer. University of Basel, Switzerland

2007

23. Control of unmeasured confounding in epidemiology. Institute for Social and Preventive Medicine, University of Bern, Switzerland
22. Epidemiology and preventive medicine – the example of nonsteroidal anti-inflammatory drugs and colorectal cancer. Faculty of Medicine, University of Regensburg, Germany

2006

21. Propensity scores in epidemiology. Institute for Social- and Preventive Medicine, University of Basel, Switzerland
20. Propensity scores in epidemiology. Institute for Social- and Preventive Medicine, University of Bern, Switzerland
19. Introduction into pharmacoepidemiology. Bremen Institute for Prevention Research and Social Medicine, University of Bremen, Germany
18. Propensity scores in pharmacoepidemiology. Bremen Institute for Prevention Research and Social Medicine, University of Bremen, Germany
17. Tumor-epidemiology in the Comprehensive Cancer Center Freiburg. Faculty of Medicine, University of Freiburg, Germany
16. Preventive oncology at the German Cancer Research Center and the National Center for Tumor Diseases. German Cancer Research Center and faculty of Medicine, University of Heidelberg, Germany
15. Control of unmeasured confounding. Symposium organized together with Kenneth J. Rothman at the 22nd International Conference on Pharmacoepidemiology & Therapeutic
14. Performance of propensity score calibration – a simulation study. 27th Annual Conference of the International Society for Clinical Biostatistics, Geneva, Switzerland
13. Propensity scores and unmeasured confounding. Danish Society for Pharmacoepidemiology symposium on pharmacoepidemiological methods. Odense, Denmark

2005

12. Risk for colorectal cancer after initiation of regular nonsteroidal antiinflammatory drug use. Institute for Social- and Preventive Medicine, University of Bern, Switzerland
11. Risk for colorectal cancer after initiation of regular nonsteroidal antiinflammatory drug use. Institute for Medical Biometry, Epidemiology and Informatics, University of Mainz, Germany
10. Clinical epidemiology in a comprehensive cancer center. Comprehensive Cancer Center, University of Freiburg, Germany
9. The Heidelberg Longitudinal Study on Risk Factors and Diagnosis of Chronic Disease as basis for interdisciplinary research on prevention. Faculty of Clinical Medicine Mannheim, University of Heidelberg, Germany
8. Propensity Scores in Pharmacoepidemiology. Workshop on “Propensity scores in epidemiology – theory and practice”. Organized by Dirk Taeger and myself (Joint Working Group on Statistical Methods in Epidemiology of the German Epidemiologic Association and German Chapter of the International Biometric Society) at the 12th annual meeting, German Epidemiologic Association, Freiburg, Germany

2004

7. Colorectal cancer: epidemiology and prevention. University of Tirol, Innsbruck, Austria
6. Propensity scores in medical research: increasing use, unanswered questions, and new possibilities. University of Tirol, Innsbruck, Austria

5. Colorectal cancer: epidemiology and prevention. University of Basel, Switzerland
4. Controlling confounding using propensity scores: increasing use, persisting questions, and new venues. University of Freiburg, Germany
3. Correcting effect estimates for unmeasured confounding in cohort studies with validation data using propensity score calibration. Workshop: Advanced methods for survival analysis; statistical methods in epidemiology and medicine, organized by Dirk Taeger and myself, co-sponsored by the working groups on Statistical Methods in Medicine (German Chapter of the International Biometric Society), Statistical Methods in Clinical Research (German Society for Medical Informatics, Biometry and Epidemiology), and Statistical Methods in Epidemiology (German Epidemiologic Association and German Chapter of the International Biometric Society), Halle, Germany

2001

2. Increasing power and efficiency of case-control studies using novel strategies of frequency matching. University of Erlangen-Nuremberg, Germany
1. Novel strategies for frequency matching in case-control studies. University of Bielefeld, Germany

Educational Materials

3. “Insights into different results from different causal contrasts in the presence of effect-measure modification” (2006). This Excel-spreadsheet can be downloaded free of charge from (<http://www.brighamandwomens.org/pharmacoevid>). It allows the direct comparison of results obtained by different novel and conventional analytic techniques for specific parameter constellations (see ref. # 70).
2. “A computer program to estimate power and relative efficiency of flexibly matched case-control studies” (2006). This SAS-macro can be downloaded free of charge from (<http://www.imbe.med.uni-erlangen.de/issan/issan.htm>). It allows the calculation of power and efficiency to estimate main effects of matched case-control studies for specific parameter constellations (see ref. # 59).
1. “Power and relative efficiency to assess multiplicative interactions in flexibly matched case-control studies” (2004). This SAS-macro can be downloaded free of charge from (<http://www.imbe.med.uni-erlangen.de/issan/issan.htm>). It allows the calculation of power and efficiency to estimate interactions (e.g. gene-environment interactions) of matched case-control studies for specific parameter constellations (see ref. # 49).

TEACHING ACTIVITIES

Courses Taught

University of North Carolina at Chapel Hill

Co-Instructor EPID 799A: PhD Seminar for 1st year students
2019 – (Gerardo Heiss)
19 students

Lead Instructor 2009 –	EPID 765: Pharmacoepidemiology 25 students, 25 hours preparation, 35 contact hours, taught every other year in the spring semester
Co-Instructor 2016	EPID 799B: Special Topics in Pharmacoepidemiology Pharmacoepidemiology of Older Adults: Challenges and Opportunities (Jennifer Lund) 14 students
Co-Instructor 2016	EPID 726: Grant writing 6 students
Lead Instructor 2008 – 2015	EPID 893: Pharmacoepidemiology Seminar 30 students, 5 hours preparation, 35 contact hours, held every semester
Co-Instructor 2015	EPID 725: Grant writing 6 students
Co-Instructor 2010 – 2014	EPID 799: Advanced pharmacoepidemiologic methods (M Alan Brookhart) 15 students, 5 hours preparation, 10 contact hours, taught every other year in the spring semester
Co-Instructor 2011 - 2013	EPID 690: Problems in epidemiology: epidemiologic research with healthcare databases (M Alan Brookhart) 26 students, 10 hours preparation, 5 contact hours, taught every other year in the spring semester
Lecturer 2010 – 2013	Nonexperimental Comparative Effectiveness Research; CER seminar (HPM 496, Morris Weinberger, Sally Stearns) 20 researchers; 4 hours preparation, 2 contact hours
Lecturer 2009 – 2014	Propensity scores (EPID 718, David Richardson) 35 students; 4 hours preparation, 1 contact hour
Co-Instructor 2012	EPID 726: Grant writing (Marilie Gammon) 5 students, 10 hours preparation, 30 contact hours
Consultant 2010	Propensity scores (General Epidemiologic Methods Journal Club, EPID 719, Charles Poole) 35 students; 4 hours preparation, 2 contact hours

University of Aarhus, Denmark

Lead Instructor 2011, 12, 15, 16, 18	Pharmacoepidemiology summer school 40 students, 40 hours preparation, 25 contact hours
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University of Odense, Denmark

Instructor	Pharmacoepidemiology course
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2008, 2011 25 students, 5 hours preparation, 5 contact hours

Harvard Medical School

Conference leader Clinical Epidemiology and Population Health (AC511.0)
2007 – 2008 Member of the course steering group
150 medical students; 20 hours preparation, 20 contact hours

Conference leader Principles of Pharmacology for Clinical Investigators
2005 – 2007 Pharmacoepidemiology and Pharmacoeconomics module
50 physicians; 1 hour preparation, 2 contact hours

Harvard School of Public Health

Lecturer Introduction to Clinical Epidemiology (EPI208) literature session
2007 15 students in clinical effectiveness program; 1 hour preparation,
2 contact hours

University of Heidelberg, Germany

Instructor Pharmacoepidemiology summer school in Heidelberg, Germany
2010 approx. 30 students, 40 hours preparation, 15 contact hours

Faculty of Medicine, University of Mainz, Germany

Instructor Pharmacoepidemiology course
2009 25 students, 5 hours preparation, 5 contact hours

University of Ulm, Germany

Lead Instructor Pharmacoepidemiology summer school in Ulm, Germany
2008 24 students, 40 hours preparation, 15 contact hours

Faculty of Biosciences (Pharmacy), University of Heidelberg, Germany

Course Co-Director Epidemiology
2005 – 2010 30 – 50 graduate students; 4 hours preparation, 2 contact hours

Pre-conference courses

Instructor Lessons about Confounding and Selection Bias Taught by the
New User Design
2012 International Society for Pharmacoepidemiology Mid-Year
meeting, Miami, FL

Course Co-Director Confounding Control in Healthcare Database Research
2010 Annual Scientific Sessions of the American College of
Epidemiology, San Francisco

Instructor Update on Propensity Scoring
2010 26th International Conference on Pharmacoepidemiology and
Therapeutic Risk Management, Brighton, UK

Webinars

- Lecturer**
2012 "Propensity Score Trimming"
Agency for Healthcare Research and Quality DEcIDE Methods
Webinar Series
- Lecturer**
2011 "Treatment Effects in the Presence of Unmeasured Confounding:
Dealing With Observations in the Tails of the Propensity Score
Distribution"
International Society for Pharmacoepidemiology Webinar Series
for student members

GRADUATE STUDENT SUPERVISION

University of North Carolina at Chapel Hill

Department of Epidemiology, UNC Gillings School of Global Public Health

Current Advisees

PhD Students (prior to thesis proposal defense)

Olawore, Oluwasolape Motolani

Rachel Sendor

Peter Classi

Chair of Doctoral Committee

20. Sophie Mayer (Statins, metformin and evidence for breast cancer chemoprevention: the role of differential use of screening mammography), graduation expected fall 2021
19. Tiansheng Wang (Machine Learning Analysis of Heterogeneous Treatment Effects for Dipeptidyl Peptidase 4 Inhibitors' Cardiovascular Outcome in Older Adults with Type 2 Diabetes), graduation expected spring 2022
18. Henry Zhang (Using Information on Initiation of Medication Use to Improve Frailty Prediction in Older Adults), graduation expected fall 2021
17. Kanecia Zimmermann (Comparative effectiveness of drug up-titration versus drug addition in an effort to improve sedation in mechanically-ventilated children), graduation expected fall 2021
16. Phyo Than Htoo (Estimating treatment effects in the presence of calendar time trends in prescribing: instrumental variables and trend-in-trend design), graduated March 2020
15. Tracy Kinsey (Initiation of non-steroidal anti-inflammatory drug use and risk for venous thromboembolism in U.S. women), graduated August 2019
14. Elizabeth Garry (TZDs and bladder cancer), graduated December 2018
13. Greta Bushnell (Pediatric anxiety: pharmacotherapy and psychotherapy utilization and serious adverse outcomes), graduated May 2017
12. Jennifer Jones (Antihypertensives and fractures among older adults), graduated December 2016
11. Alan Kinlaw (Antibiotic prescribing in the first year of life and asthma incidence), graduated September 2016

10. Mugdha Gokhale (Oral antidiabetics and cardiovascular outcomes), graduated April 2016
9. Jin-Liern Hong (Breast Cancer Risk after Metformin Initiation in Older Women – the Role of Study Design, Potential Confounding by Body Mass Index, and Differential Detection), graduated March 2015
8. Richard Wyss (Disease Risk Scores for Confounding Control When Evaluating Evolving Drug Therapies), graduated February 2015
7. Christina Mack (Improving the validity of nonexperimental comparative effectiveness research: The impact of calendar time on prescribing of novel chemotherapeutic therapies for stage III colon cancer), graduated May 2013
6. Hoa Van Le (Evaluation of the performance of the high dimensional propensity score adjustment in studies of treatment effects using health care claims data), graduated July 2012
5. Emily Brouwer (Comparative effects of different combination antiretroviral therapies on the risk for myocardial infarction among HIV patients enrolled in Medicaid), graduated June 2012
4. Jennifer Lund (Utilization and Dissemination of Oxaliplatin in Stage II/III Colorectal Cancer), graduated, December 2011
3. Zhiwen Liu (Severe hypoglycemia, risk of recurrent events and weight gain on insulin therapy in patients with type 1 diabetes mellitus), graduated December 2010

Member of Doctoral Committee

25. Shahar Shmuel (Anticholinergic and Sedative Drug Load in Older Adults), chair: Jennifer Lund, graduated May 2020
24. Jessica C. Young (Evaluating strategies to reduce prolonged opioid use following surgery in older adults), chair: Michele Jonsson Funk, graduated May 2020
23. Suzanne Landi (Comparative Effectiveness and Safety of Metformin versus Insulin for Gestational Diabetes: Maternal, Neonatal, and Child Outcomes), chair: Michele Jonsson Funk, graduated March 2018
21. Laura Hester (Impact of Comorbidities on Treatment Decisions and Prognosis among Older Adults with Indolent Non-Hodgkin Lymphoma in the United States), chair: Michele Jonsson Funk, graduated May 2017
20. Montika Bush (Secondary prevention methods after acute myocardial infarction), chair: M Alan Brookhart, graduated April 2017
19. Xiaojuan Li (Comparative Effectiveness of Intravenous Ion Treatment Regimens in Hemodialysis Patients), chair: M Alan Brookhart, graduated January 2017
18. Monica D’Arcy (Selective serotonin reuptake inhibitors and the risk of colorectal cancer), chair: Jennifer Lund, graduated October 2016
17. Amanda Seyerle (Pharmacogenomics of ventricular conduction in multi-ethnic populations), chair: Christy Avery, graduated March 2016
16. Mona Cai (Trends in oral anti-diabetic utilization and factors affecting effectiveness in children and young adults), chair: M Alan Brookhart, graduated January 2016

15. Wendy Camelo Castillo (Pharmacological Treatment of Gestational Diabetes and Association with Adverse Maternal and Neonatal Outcomes), chair: Michele Jonsson Funk, graduated May 2013
14. Catherine A. Panozzo (Patterns of rotavirus vaccine uptake, use, and effectiveness in privately-insured US children, 2006-2010), chair: M Alan Brookhart, graduated February 2013
13. Leah Sirkus (Influenza vaccine effectiveness among patients on hemodialysis: methods to control the healthy-user bias), chair: M Alan Brookhart, graduated June 2012
12. Bradley Layton (Acute kidney injury in statin initiators: patterns of initiation and applications in observational drug safety research), chair: M Alan Brookhart, graduated March 2012
11. Emily O'Brien (Community Patterns of Acute Myocardial Infarction Therapy and Survival), chair: Wayne Rosamond, graduated March 2012
10. Adam Goode (Lumbar spine individual radiographic features and osteoarthritis biomarkers), chair: Steve Marshall, graduated November 2011
9. Sudha Raman (Stimulant medication and unintentional injury risk among children with attention deficit hyperactivity disorder in the United Kingdom), chair: Steve Marshall, graduated December 2010
8. Yoonsook Lee (Erythromycin, macrolide antibiotics and prokinetic drugs in relation to infantile hypertrophic pyloric stenosis), chair: Charles Poole, did not complete

Chair of Master's Committee

7. Rebecca Bloch (Antibiotic Prescribing Patterns for Canine Urinary Tract Infections Seen at Primary Care Practices in the United States (2010-2019)), graduated November 2020
6. Martina Gaggl (The Incidence of Acute Kidney Injury after Intravenous Vancomycin compared to other common Intravenous Antibiotics), graduated May 2018
5. Charles (Adrian) Austin (The Impact of Post-operative Delirium After Major Non-Emergent Surgery on Long-Term Cognitive Function), graduated May 2018
4. Henry Zhang (Improving control for confounding by frailty when estimating influenza vaccine effectiveness in older adults), graduated May 2016
3. Greta Bushnell (Predicting persistence to antidepressant treatment in administrative claims data; Considering the influence of refill delays and prior persistence on other medications), graduated November 2013
2. Diane Reams (Progression from Chronic Kidney Disease to End Stage Renal Disease: Persistent Disparity Between Blacks and Whites, 1988 – 2004), graduated February 2012
1. Christina Mack (Race, oxaliplatin use, and treatment outcomes for Stage III colon cancer among Medicare patients), graduated summer 2010

Member of Master's Committee

8. L. Corbin Downey (Association of in utero magnesium exposure and spontaneous intestinal perforations in very low birth weight infants), graduated August 2012
7. Emily Bratton (Comparison and temporal trends of three groups with cryptococcosis: HIV-infected, solid organ transplant, and HIV-negative/non-transplant), graduated

6. Simon Asher (Safety of empirical Acyclovir in uninfected infants), graduated August 2012
5. Lauren Piper (Fluconazole loading dose pharmacokinetics and safety in infants), graduated December 2010
4. Jennifer Lund (Thiazolidinedione use and ulcerative colitis-related flares: an analysis of administrative data), graduated December 2009

UNC Eshelman School of Pharmacy

Member of Doctoral Committee

24. Michelle Vitko (Medication adherence change among elderly hypertensive patients after new diagnosis of type 2 diabetes mellitus), chair: Gang Fang, graduation expected 2018
22. Mrudula Borse (Comparative effectiveness and safety of anticoagulants in the management of venous thromboembolism in elective major orthopedic surgery patients), graduated October 2017
7. Patrick Ryan (Enhancing Drug Safety through Active Surveillance of Observational Healthcare Data), graduated spring 2011

University of Heidelberg, Germany

Faculty of Medicine (Graduiertenkolleg 793),

Chair of Doctoral Committee

2. Adrian Loerbroks (Determinants of changes in cognitive function in the elderly), graduated magna cum laude, November 2008
1. Desiree Debling (Prevalence and risk factors for impaired cognitive function in the elderly), graduated magna cum laude, November 2005

Member of Doctoral Committee

6. Jana Strohmaier (The psychiatric susceptibility gene CACNA1C and its sex-specific relationship with personality traits, resilience factors, and depressive symptoms in the general population), graduated 2011

German Centre for Research on Ageing

Member of Doctoral Committee

5. Susanne Lietzau (Antibiotic resistance in children, graduated 2006)
4. Andrea Erb (Prevalence and determinants of antibiotic resistance of E.coli in patients attending general practitioners, graduated cum laude 2003)

University of Ulm, Germany

Department of Epidemiology

Member of Doctoral Committee

3. Ute Fuchs (Quality of life three years after diagnosis of breast cancer), graduated 2006

2. Annelie Becker (Diagnostic delay in patients with breast cancer), graduated 2005
1. Gregor Schlindwein (Clinical diagnosis of ischemic versus hemorrhagic stroke), graduated 2002

Member of Master's Committee

3. Kiliana Suzart-Woischnik (Aspirin use and detection of colorectal cancer), graduated
2. Andrea Erb (Sequelae of chronic medication use in patients with osteoarthritis), graduated
1. Elvira Müller (Comparison of FFQ and DR with respect to the alcohol-HDL cholesterol association), graduated

MENTORING

Department of Epidemiology, UNC

Faculty

10. Whitney Robinson, PhD, Assistant Professor of Epidemiology (tenure track)
9. Bradley Layton, PhD, Assistant Professor of Epidemiology (research track)
8. Hazel Nichols, PhD, Assistant Professor of Epidemiology (tenure track)
7. Jennifer Lund, PhD, Assistant Professor of Epidemiology (tenure track)
6. Daniel Westreich, PhD Assistant Professor of Epidemiology (tenure track)
5. Karin Yeatts, PhD, Assistant Professor of epidemiology (research track)
4. Michele Jonsson Funk, PhD, Associate Professor of Epidemiology (research track)

Postdocs

3. Michael Webster-Clark, PharmD, PhD
2. Jin Liern Hong, PhD

University of Heidelberg, Germany

Faculty

3. Elke Raum, MD, PhD
2. Volker Arndt, MD, MPH, PhD

Postdocs

1. Adrian Loerbroks

University of Ulm, Germany

Faculty

1. Sun-Yi, MD

CONTRACTS AND GRANTS

Active

NA LCCC 07/01/20 – 06/30/21 \$50,000
Stürmer (PI)

Lineberger Comprehensive Cancer Center Tier 1 (Pilot Awards) in the Population Science category: Statins, metformin and evidence for breast cancer chemoprevention: the role of differential use of screening mammography (together with PhD student Sophie Mayer)

R01 MD011680 NIMHD

Robinson (PI) 09/26/17 – 06/30/22 \$

Racial Differences in Treatment with Hysterectomy: a Multilevel Investigation
Role: Co-I

R01 AG056479-01 NIA

Stürmer (PI) 09/15/17 – 04/30/21 \$1,948,930 1.2 cal months

Propensity scores and preventive drug use in the elderly
Insights into and development of different novel analytic strategies to control for selection and confounding bias in non-experimental research based on propensity scores and validation data.
Role: PI

1 U54 TR002255-01 NIH

Buse/Carey (PI) 05/01/18 – 04/30/23 \$60,891,563

UNC Clinical and Translational Science Award: A national consortium of medical research institutions, funded through Clinical and Translational Science Awards, is working together and shares a common vision: to improve the way biomedical research is conducted across the country, reduce the time it takes for laboratory discoveries to become treatments for patients, engage communities in clinical research efforts, and train the next generation of clinical and translational researchers.

Role: Co-Director of Biostatistics, Epidemiology, and Research Design (BERD)

GlaxoSmithKline, Merck Inc., UCB BioSciences, Takeda

Stürmer (Director 2013-Present \$1,425,000

Center for Pharmacoepidemiology

The Center provides unrestricted support for students, postdocs, and faculty affiliated with the pharmacoepidemiology program

Role: Director (2013-2018); member (2018-)

GlaxoSmithKline

N/A 2002-Present \$3,335,000

Center of Excellence in Pharmacoepidemiology and Public Health

The Center provides unrestricted support for students, postdocs, and faculty affiliated with the pharmacoepidemiology program

Role: Director 2008-2018; member (2018-)

Pending

R01 (submitted February 2017)

Ranapurwala (PI) 09/01/17- 08/31/21 0.6 cal months

Impact of the complete spectrum of opioid analgesic prescribing patterns on prescription opioid and heroin dependence, overdose, and overdose deaths

R01 NCI (submitted February 2017)

Lund (PI) 09/01/17- 08/31/21 0.6 cal months

A Hybrid Approach to Estimating the Effectiveness of Cancer Therapies

Combining inverse probability of selection weights with G methods to obtain treatment effect estimates from randomized controlled trials that reflect real world populations and treatment patterns.

Role: Co-investigator

Completed (\$ amounts are approximate assuming 1 € = 1.2 US\$)

UL1TR001111-02 NIH

Runge/Buse/Carey (PI) 09/26/13 – 04/30/18 \$7,324,022 1.8 cal months

UNC Clinical and Translational Science Award: A national consortium of medical research institutions, funded through Clinical and Translational Science Awards, is working together and shares a common vision: to improve the way biomedical research is conducted across the country, reduce the time it takes for laboratory discoveries to become treatments for patients, engage communities in clinical research efforts, and train the next generation of clinical and translational researchers.

Role: Director of Comparative Effectiveness Research Strategic Initiative

R01 HL118255 NHLBI

Jonsson Funk (PI) 5/1/2014–4/30/2018 \$512,523.00

Methods for Estimating Sex Differences in Safety and Effectiveness of Drugs

This study identifies conditions under which common analytical methods may produce biased estimates of sex-specific effects of cardiovascular pharmacotherapy and develops and validates alternative methods for quantifying sex differences when assessing the safety and effectiveness of treatments

Role: Co-investigator

AstraZeneca

Stürmer (PI) 10/1/14 – 9/30/18 \$367,598

Clinical Trial Generalizability: Estimating Treatment Effect in Real World

Based on individual data from an RCT (JUPITER) and individual data from the general population (CPRD) this project assesses the implementation of estimating treatment effects in trial populations that are reweighted to various real world target populations

Role: PI

R56 AG023178 NIA

Stürmer (PI) 10/01/15-02/28/17 \$411,000 1.2 cal months

Propensity scores and preventive drug use in the elderly

Insights into and development of different novel analytic strategies to control for selection and confounding bias in non-experimental research based on propensity scores and validation data.

Role: PI

R01 CA174453

Reeve (PI) 09/21/12-07/31/16

PROMIS validation in prospective population-based prostate cancer research study

This study will evaluate the measurement properties of the PROMIS measures using item response theory models and other psychometric methods.

Role: Co-investigator

R01 AG023178 NIA

Stürmer (PI) 04/01/12-03/31/16 \$997,101 1.2 cal months

Propensity scores and preventive drug use in the elderly

Insights into and development of different novel analytic strategies to control for selection and confounding bias in non-experimental research based on propensity scores and validation data.

Role: PI

EP09001.037 Merck and Co., Inc.
Stürmer (PI) 09/30/09-01/30/15 \$607,413 1.2 cal months
Evaluation of design options for pharmacoepidemiologic cohort studies addressing multiple outcomes

Evaluate different analytic methods when conducting pharmacoepidemiology comparison studies for single and multiple health outcomes of interest.

Role: PI

IP2PI000075 PCORI Pilot Project
Stürmer (PI) 10/01/12-12/31/14 \$482,881 0.6 cal months

Methods to increase validity of comparative effectiveness research in the elderly
To address confounding by indication, selection bias due to non-persistence, heterogeneity of treatment effects, and mortality as a competing risk when assessing the comparative effectiveness of post myocardial infarction treatments with respect to the risk for re-infarction.

Role: PI

HHSN268201100012C

Stearns (PI) 11/15/10-11/14/14

Cardiovascular outcomes research center for atherosclerosis risk in communities

The aims of this study are to conduct comparative effectiveness research to determine the relative effectiveness of different interventions and strategies for the diagnosis, prevention, and treatment of heart failure and develop protocols for the evaluation of medical care for heart failure risk factors and heart failure.

Role: Co-investigator

AHRQ HHS290200500401

Stürmer (PI) 08/25/08-07/14/13 \$1,031,721 1.2 cal months

Developing evidence to inform decisions about effectiveness (DEcIDE)

UNC DEcIDE Centers 1 and 2 (master contracts): Effectiveness research to address important knowledge gaps confronting decision makers addressing knowledge gaps in the treatment of depression.

Role: PI

AHRQ HHS29020100014

Brookhart (PI) 09/27/12-07/24/14 \$1,112,042 0.72 cal months

Developing and evaluating methods for record linkage and reducing bias in patient registries

This study will strengthen observational studies that use linked registry data by developing and testing new methods to reduce confounding, improving generalizability in studies that use registries linked to clinical data, and developing a method to improve instrumental variable analysis in registries.

Role: Master Task Order PI/Task Co-investigator

R01 AG042845 NIA

Brookhart (PI) 09/01/12-08/31/14 \$456,000 0.36 cal months

A retrospective cohort study of the safety of testosterone therapy in older men

This study will assess the patterns of testosterone initiation in older men, estimate the risk of adverse events in initiators of testosterone therapy (including in vulnerable subgroups), assess the transient risk of acute adverse events, and determine the comparative safety of testosterone delivery mechanisms.

Role: Co-Investigator

550KR31220

Stürmer (PI) 08/01/12-07/31/13 \$50,000 0.48 cal months

Analysis of the relationship between the use of incretin-based therapies and cancer incidence

This study will investigate the effects of incretin-based anti-hyperglycemic therapies and comparator anti-hyperglycemic medications on diagnostic testing and pancreatic cancer in the Medicare population.

Role: PI

PO#3100063817 Sanofi-Aventis

Zhao (PI) 07/01/09-06/30/13 \$752,913 2.4 cal months

Risks of cancers in relation to insulin therapy in people with diabetes

Evaluate the effect of different insulin formulations on the risk for cancers in patients with diabetes.

Role: Co-Investigator

R01HS018731

Napravnik (PI) 04/01/10-03/31/13 \$343,084 0.6 cal months

Comparative safety of antiretrovirals among HIV infected patients: minimizing coronary heart disease outcomes

This study links cohort data with Medicaid data to validate myocardial infarction and uses claims data to assess the association between antiretrovirals and myocardial infarction.

Role: Co-Investigator

AHRQ HHSAA2900200500401

Brookhart (PI) 07/15/10-07/15/13 \$2,836,647 0.24 cal months

Comparative effectiveness of IV iron formulations in end-stage renal disease

The major goal of this project is to study the safety and effectiveness of iron sucrose versus sodium ferric gluconate in dialysis patients.

Role: Master Task Order PI/Task Co-investigator

NIMH: R01-MM5712

Miller (PI) 07/01/10-6/30/13 \$306,150 (UNC subcontract) 1.2 cal months

Suicide and unintentional injury among older Americans on psychotropics

This study assessed the magnitude of the effect of psychotropics on suicide risk in the population.

Role: Co-Investigator

R01HL103612

Whitsel (PI) 08/01/11-05/31/13 \$69,712(UNC subcontract) 0.48 cal months

Prospective meta-analysis of drug-gene interactions: CHARGE GWAS Consortium

We propose a study of genetic vulnerability to pharmacologically prolonged ventricular repolarization, reduced glomerular filtration, and impaired cognitive function.

Role: Co-Investigator

FDA HHSF2232010000024C

Stürmer (PI) 10/01/12-12/31/14 \$50,000 0.96 cal months

Advancing the specialized methodological expertise for medical device epidemiologists

This project will assess the level of training in advanced epidemiologic methods of medical device epidemiologists at the FDA. Following assessment, prioritized training topics will be developed and modules will be presented.

Role: PI

AHRQ HHS2902010000141

Stürmer (PI) 07/23/10 – 07/24/12 \$9,765 0.12 cal months

Developing Evidence to Inform Decisions about Effectiveness Research Network-2(DECIDE-2)

Specific Aims: The Agency for Healthcare Research and Quality (AHRQ) requests general program and administrative support for the Developing Evidence to Inform Decisions about

Effectiveness-2 (DEcIDE-2) centers. The purpose of these activities is to discuss, train, educate, and communicate about the DEcIDE-2 program, including findings from studies, new research methods, and administrative actions.

Role: PI

Gillings Innovation Laboratory (GIL) Award: GIL 200811.0010

Stürmer (PI) 8/1/2009-7/31/2011 \$250,000

Pharmacoepidemiology Gillings Innovation Lab (PEGIL) for the Population-Based Evaluation of Drug Benefits and Harms in Older Adults

This competitive award from the UNC Gillings School of Global Public Health uses national data available through Medicare Part D drug claims (introduced in 2006) to identify drug use and its benefits and harms to older adults using innovative pharmacoepidemiological methodologies.

NIA: R01-AG023178

Stürmer (PI) 4/1/2008-9/30/2011 \$1,024,845

Propensity Scores and Preventive Drug Use in the Elderly

Competing continuation of our study of the opportunities and challenges of propensity scores to validly assess the preventive effects of medication use in older patients. Focus on several unresolved new and distinct topics regarding the use of validation studies to adjust for confounding unmeasured in the main study and PSs.

Role: PI

NIA: R01-AG018833

Glynn (PI) 06/01/08-03/31/10 \$20,419 (UNC subcontract)

Medication Use, Co-morbidity and Outcomes in Aging Populations

The project will address possibilities to quantify unmeasured confounding by evaluating the time course of apparent mortality risk reduction associated with preventive drug use after stopping of the corresponding drug under the assumption that unmeasured confounding will be strongest right after stopping and then will gradually level off as those who were close to death when stopping have died and therefore are not part of the at risk group anymore.

Role: Co-investigator

AHRQ: HHSA290200500401

Murray (PI) 8/25/08-5/14/10 \$360,000

Developing Evidence to Inform Decisions about Effectiveness (DEcIDE)

Effectiveness research to address important knowledge gaps confronting decision makers addressing knowledge gaps in the treatment of depression.

Role: Co-PI

Swiss National Science Foundation

N/A 2007-2011

No salary support

This funding is to run a randomized trial on the role of vitamin D in the secondary prevention of knee osteoarthritis.

Role: Co-Investigator

German Research Foundation: Graduiertenkolleg 793 (3rd round)

Becker (PI) 07/01/08-06/30/11 \$1,260,000

No salary support

This funding is provided to a group of epidemiologists to allow teaching and conduct of research projects for 15 doctoral students in epidemiology. The specific project assessed the impact of psychiatric susceptibility genes on personality traits in the general population.

Role: Co-Investigator

NIA: R01 AG023178

Stürmer (PI) 6/15/05-11/30/07 \$920,000

Propensity Scores and Preventive Drug Use in the Elderly

This project allowed us to gain important insights and develop extensions of different novel analytic strategies to control for selection and confounding bias in non-experimental research.
Role: PI

GlaxoSmithKline

Avorn (PI) 4/1/03-12/31/07 \$2,400,000

Observational Cohort Study of Lotronex

Epidemiology Research Agreement to study the treatment of irritable bowel syndrome and characteristics of patients who receive drugs for this problem including Lotronex.

Role: Co-Investigator

German Research Foundation: Graduiertenkolleg 793 (2nd round)

Becker (PI) 07/01/05-06/30/08 \$1,200,000

This funding is provided to a group of epidemiologists to allow teaching and conduct of research projects for 15 doctoral students in epidemiology. The doctoral student of Dr. Stürmer is assessing changes in cognitive function in an ongoing cohort study using a telephone interview.

Role: Co-Investigator and PI of specific project doctoral student: Adrian Loerbroks

German Research Foundation: STU 235/10-2 and HE 2443/8-1

Stürmer (PI) 7/1/05-6/30/06 \$90,000

Pilot project: DNA-extraction from 4000 mouthwash samples of the Heidelberg Cohort Study on Psychology and Chronic Disease

This grant allowed us to extract DNA from mouthwash samples in an ongoing cohort study and prepare the DNA for long-term storage for later nested case-control analyses of chronic diseases during a 20 year follow-up.

Role: PI

German Research Foundation: STU 235/9-1

Stürmer (PI) 4/1/03-3/31/05 \$75,000

Research stipend: Value of Propensity Scores in Assessing Pharmacoprevention in the Elderly. This grant would have funded my stay in Boston for 2 years but could not be used towards my salary at Brigham and Women's Hospital because of the stipend regulations.

Role: PI

NIH/NIDA: R01DA/AR15507

Solomon (PI) 9/1/02-8/31/05 \$650,000

Pain Medication Use & Risk Factors for Opioid Dependence

This study examines chronic narcotic use in arthritis patients who receive drug benefits through the State of Pennsylvania. We will examine the factors associated with possibly problematic chronic opioid use and determine the rates and predictors of selected complications in taking chronic opioids.

Role: Co-investigator

German Research Foundation: Graduiertenkolleg 793 (1st round)

Becker (PI) 07/01/02-06/30/05 \$1,140,000

Epidemiology of communicable and chronic, non-communicable diseases and their interrelationship

This funding is provided to a group of epidemiologists to allow teaching and conduct of research projects for 15 doctoral students in epidemiology. The doctoral student of Dr. Stürmer is assessing cognitive function in an ongoing cohort study using a telephone interview.

Role: Co-Investigator and PI of specific project doctoral student: Desiree Debling

German Research Foundation: BR 1704/6-1 & CH 117/1-1

Brenner (PI) 10/01/02-09/30/04 \$415,000
Magnitude and Duration of Risk Reduction for Colorectal Cancer after Endoscopy
This is a large (600 cases and 600 controls) case-control study to assess risk factors for colorectal cancer with specific focus on screening examinations, including endoscopy. Specific aims include the association between use of non-steroidal anti-inflammatory drugs, screening behavior and risk for colorectal cancer.
Role: Co-investigator

Foundation Orthopaedic University Clinic Heidelberg: F.02-0008
Brenner (PI) 02/01/02-01/31/04 \$85,000
HSCRIP in Patients with Acute and Chronic Back Pain
The aim of this project is to assess the association between pain and high sensitivity C-reactive protein in orthopedic patients using repeated measurements and taking into account known and suspected long-term and short-term determinants of subclinical systemic inflammatory response.
Role: Co-PI

German Research Foundation: AM 37/19-1
Amelang (PI) 01/01/02-12/31/03 \$250,000
Heidelberg Cohort Study on Diagnosis and Prognosis of Chronic Diseases
This is an interdisciplinary cohort study on the role of psychological and environmental factors and their interaction with respect to risk for cardiovascular disease and cancer.
Role: Co-PI

Bertelsmann Foundation
Puhl (PI) 08/01/99-07/31/05 \$1,800,000
European collaborative database of cost and practice pattern of total hip replacement (EUROHIP)
The aim of this project is to compare different aspects of the practice of total hip replacement due to advanced osteoarthritis in different European countries. Dr. Stürmer is the epidemiologist in the team of project directors.
Role: Co-investigator

German Cancer Aid
Brenner (PI) 1996 – 1998 \$370,000
Diagnostic Delay in Patients with Cancer. Population-based recruitment of patients newly diagnosed with colorectal, breast, and stomach cancer in collaboration with the Saarland Cancer Registry.
Role: Co-investigator

Swiss National Science Foundation: 823B-33287
Stürmer (PI) 9/1/92-8/31/94 \$120,000
Competitive 2-year stipend to study epidemiology at the Harvard School of Public Health and for a Research Fellowship at the Division of Preventive Medicine, Brigham and Women's Hospital.
Role: PI

SERVICE

University of North Carolina at Chapel Hill

2018 – Member, committee to develop Gillings School of Global Public Health compensation model

- 2018 Member, rapid design team student services eco-system for Gillings School of Global Public Health
- 2018 – Chair, Department of Epidemiology
- 2017 Chair, working group on student chapter, graduate program review, department of epidemiology
- 2014 – 18 Chair, Admissions Committee, Department of Epidemiology, UNC Gillings School of Global Public Health
- 2011 – 14 Member, Appointment and Promotions Committee, UNC Gillings School of Global Public Health
- 2009 – Member, UNC Lineberger Comprehensive Cancer Center Data-Specimen Governance Committee
- 2008 – Member, Admissions Committee, Department of Epidemiology, UNC Gillings School of Global Public Health
- 2008 – 09 Member, UNC Health Informatics degree steering and planning committee

Professional and Public Service

- 2016 Invited reviewer, Gillings Innovation Laboratory proposals
- 2016 Invited reviewer for the Netherlands ZonMw's Health Technology Assessment (HTA) methodology Program
- 2015 – Member, Arthritis Research UK Centre for Epidemiology Scientific Advisory Board
- 2015 Invited reviewer for the Netherlands ZonMw's Health Technology Assessment (HTA) methodology Program
- 2014 – 17 Member, Drug Safety and Risk Management Advisory Committee, Food and Drug Administration, Washington
- 2015 – 17 Working group on industry-academia contracting, Public Policy and Ethics committee of the International Society for Pharmacoepidemiology
- 2015 Ad hoc grant reviewer, German Research Foundation (DFG)
- 2011 Ad hoc member, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, National Institutes of Health, Washington
- 2010 Co-chair of the International Society for Pharmacoepidemiology mid-year meeting in Raleigh, NC
- 2010 Invited reviewer, Gillings Innovation Laboratory proposals
- 2009 – 12 Chair, Public Policy and Ethics committee of the International Society for Pharmacoepidemiology
- 2009 Public Policy and Ethics committee of the International Society for Pharmacoepidemiology: preparation of the society's comments on the 2009 "ENCePP Code of Conduct (Doc. Ref. EMEA/489873/2008)" Draft for Public Consultation
- 2009 Ad hoc member, special emphasis panel, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, National Institute on Aging, National Institutes of Health Program Project (P01) grant application

- 2009 Ad hoc member, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, National Institute on Aging, National Institutes of Health, Washington (June 4)
- 2009 Public Policy and Ethics committee of the International Society for Pharmacoepidemiology: preparation of the society's comments on the 2008 CMS document "Possible Medicare Part D public use and supplemental characteristics files"
- 2009 Invited reviewer for the Netherlands ZonMw's Health Technology Assessment (HTA) methodology Program
- 2008 Ad hoc member, Fonds de la Recherche en Santé Québec (FRSQ) grant review sutdy section
- 2008 Ad hoc member, Council ZAG1 ZIJ-9 O3: review of Program Project Grant (PPG) application, National Institute on Aging at the National Institutes of Health (August 1)
- 2008 Ad hoc member, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, National Institutes of Health, Washington (June 16 and 17)
- 2008 Ad hoc member, special emphasis panel, Neurological, Aging and Musculoskeletal Epidemiology (NAME) Study Section, National Institutes of Health, teleconference (May 15)
- 2008 DEcIDE report reviewer, Agency for Healthcare Research and Quality
- 2007 Representing the International Society for Pharmacoepidemiology at the XIXth Session of the General Assembly of Council for International Organizations of Medical Sciences (CIOMS) established jointly by WHO and UNESCO in Geneva (December 4)
- 2007 Co-Chair and Chair-Elect, Public Policy and Ethics Committee of the International Society for Pharmacoepidemiology
- 2007 Revision of the Council for International Organizations of Medical Sciences (CIOMS) 1991 International Guidelines for Ethical Review of Epidemiological Studies. Invitation to represent the International Society for Pharmacoepidemiology in Geneva, Switzerland (June 4 – 6)
- 2007 Ad hoc grant reviewer, German Research Foundation (DFG)
- 2006 Public Policy and Ethics committee of the International Society for Pharmacoepidemiology: preparation of the society's comments on the 2006 CIOMS draft Special Ethical Considerations for Epidemiologic Research
- 2005 Public Policy and Ethics committee of the International Society for Pharmacoepidemiology: preparation of the society's comments on the March 2005 draft of the revision of the 1991 CIOMS International Guidelines for Ethical Review of Epidemiologic Studies

Thesis appraisal reports / thesis opponent

- 2017 Dirk Enders, PhD Designs and analytical strategies to control for unmeasured confounding in studies based on administrative health care databases, University of Bremen, Germany

- 2016 Thomas Cars, PhD Real-time monitoring of healthcare interventions using real-world data, Department of Medical Sciences, Uppsala University, Sweden
- 2011 Verena Schneider-Lindner, PhD Antibiotic use in children: Assessing the risk of methicillin resistance using different study designs, McGill University, Canada
- 2007 Lawrence McCandless, PhD Bayesian Propensity Score Analysis for Observational Data, Department of Statistics, University Of British Columbia, Canada
- 2006 Anthony R. S. Gichangi, PhD Analysing episodes of pharmacological care using prescription databases, Faculty of Health Sciences, University of Southern Denmark, Odense, Denmark
- Carmen Lilla, PhD Genetic polymorphisms in Phase II-metabolizing enzymes and susceptibility to colorectal cancer, University of Heidelberg, Germany

Editorial boards

- 2014 – 16 Editor, Pharmacoepidemiology Section, Current Epidemiology Reports
- 2013 – Member, Editorial Board, Epidemiology
- 2011 – Member, Editorial Board, Comparative Effectiveness Research
- 2010 – 14 Member, Editorial Board, Pharmacoepidemiology and Drug Safety
- 2009 – Associate Editor, American Journal of Epidemiology

Invited manuscript reviews

Epidemiology, Statistics, and Public Health

- 2009 – Value in Health
- 2007 – Pharmacoepidemiology and Drug Safety
- 2007 – Annals of Epidemiology
- 2006 – Emerging Themes in Epidemiology
- 2005 – Statistics in Medicine
- 2005 – Health Policy
- 2005 – Paediatric and Perinatal Epidemiology
- 2004 – Epidemiology
- 2003 – American Journal of Preventive Medicine
- 2003 – Journal of Clinical Epidemiology
- 2002 – American Journal of Epidemiology
- 2001 – Sozial- und Präventivmedizin
- 2000 – International Journal of Epidemiology

Others

- 2018 – New England Journal of Medicine
- 2016 – Diabetes, Obesity and Metabolism
- 2009 – Environmental Health Perspectives
- 2009 – Annals of Oncology
- 2009 – JAMA
- 2008 – Circulation
- 2007 – Journal of Pharmacy and Pharmacology
- 2007 – Journal of Psychosomatic Research

- 2007 – Journal of Medical Economics
- 2007 – Computational Statistics and Data Analysis
- 2007 – BMC Infectious Diseases
- 2007 – 10 PLoS Medicine
- 2007 – BMC Medical Research Methodology
- 2006 – Emerging Themes in Epidemiology
- 2006 – Digestive and Liver Disease
- 2006 – Seminars in Arthritis and Rheumatism
- 2005 – British Medical Journal
- 2005 – Statistics in Medicine
- 2004 – Annals of the Rheumatic Diseases
- 2004 – European Journal of Clinical Investigation
- 2004 – Methods of Information in Medicine
- 2004 – Scandinavian Journal of Rheumatology
- 2003 – American Journal of Kidney Disease
- 2003 – Gut
- 2003 – Maturitas
- 2002 – Age and Ageing
- 2002 – Drug Safety
- 2001 – International Journal of Cancer

Invited Abstract Reviews

- 2004 – Annual Scientific Meeting of the International Society for Pharmacoepidemiology
- 2006 – 2010 Annual Scientific Meeting of the Society for Epidemiologic Research
- 2003 – 2006 Annual Scientific Meeting of the German Society for Epidemiology

Professional Societies

- | | | |
|--------|---|--------|
| 2006 – | International Society for Pharmacoepidemiology | Fellow |
| 2006 – | International Society for Clinical Biostatistics | Member |
| 2004 – | American College of Epidemiology | Fellow |
| 1998 – | German Society for Drug Utilization and Pharmacoepidemiology | Member |
| 1996 – | German Association of Epidemiology | Member |
| 1996 – | German Society for Medical Informatics, Biometry and Epidemiology | Member |
| 1996 – | Society for Epidemiologic Research | Member |
| 1996 – | International Society for Pharmacoepidemiology | Member |
| 1995 – | German Society of Medicine | Member |

Professional educational leadership roles

- 2019 Core Scientific Program Committee for 36th International Conference on Pharmacoepidemiology, Berlin, Germany (transitioned into ICPE 2020 All Access due to SARS-CoV-2)
- 2018 Core Scientific Program Committee for 35th International Conference on Pharmacoepidemiology, Philadelphia, USA
- 2017 Core Scientific Program Committee for 34th International Conference on Pharmacoepidemiology, Prague, Czech Republic

- 2015 Core Scientific Program Committee for 31st International Conference on Pharmacoepidemiology, Boston, USA
- 2014 Core Scientific Program Committee for 30th International Conference on Pharmacoepidemiology, Taipei, Taiwan
- 2014 Core Scientific Program Committee for International Society for Pharmacoepidemiology Mid-Year Meeting, Rotterdam, Netherlands
- 2013 Core Scientific Program Committee for 29th International Conference on Pharmacoepidemiology, Montreal, Canada
- 2012 Core Scientific Program Committee for 28th International Conference on Pharmacoepidemiology, Barcelona, Spain
- 2009 Invited member, Comparative Effectiveness Research Curriculum Panel Meeting, PhRMA Foundation (consulting fee to be paid to UNC as unrestricted grant).
- 2009 – 12 Chair, Public Policy and Ethics Committee of the International Society for Pharmacoepidemiology. As chair I take the lead in shaping the society's responses to increasing public awareness of the important role for pharmacoepidemiology in safeguarding public health.
- 2009 Invited member, expert panel to discuss research issues related to the study of osteoporosis medications (consulting fee paid to UNC as unrestricted grant)
- 2007 – Member, GlaxoSmithKline Asthma Epidemiology Methods Advisory Board (consulting fee paid to Brigham and Women's Hospital as unrestricted grant)
- 2007 – Co-Chair and Chair-Elect, Public Policy and Ethics Committee of the International Society for Pharmacoepidemiology.
- 2007 – Representing the International Society for Pharmacoepidemiology in the Joint Policy Committee representing 13 national and international epidemiologic associations
- 2006 – Fellow of the International Society for Pharmacoepidemiology. Based on the recognition of my previous contributions to the Society I will expand my active involvement in this society.
- 2006 – Scientific program committee, Society for Epidemiologic Research: I see this involvement in the grading of abstracts as a first step into the scientific committee of this highest ranked epidemiologic meeting.
- 2005 – Active member of the Public Policy and Ethics Committee as well as the Strategic Planning Committee of the International Society for Pharmacoepidemiology. I took the lead in preparing several ISPE comments on CIOMS International Guidelines for Ethical Review of Epidemiologic Studies.
- 2004 – Scientific program committee, International Conference on Pharmacoepidemiology: I am actively involved in the grading and final selection of abstracts for the methods sessions of the annual meetings. Due to the increasing interest in propensity scores we were able to have a separate methods session on this topic since 2005.
- 2003 – 04 Scientific program committee, German Congress of Epidemiology: My role included chairing sessions on epidemiologic methods and pharmacoepidemiology at the annual meetings.