

**Andrew Wiese, MPH, PhD**  
**Curriculum Vitae**

August 2019

**PERSONAL INFORMATION**

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**Office Address:** Division of Pharmacoepidemiology  
Department of Health Policy  
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Vanderbilt University Medical Center  
Nashville, TN 37212

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**EDUCATION**

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2014 – 2017    **PhD in Epidemiology**  
Vanderbilt University

2010 – 2012    **MPH in Epidemiology**  
Summa cum Laude  
Saint Louis University

2006 – 2010    **Bachelor of Science in Biology, Option in Microbiology/Cell  
Biology/Molecular/Biology/Biotechnology**  
Summa cum Laude  
Southeast Missouri State University

**PROFESSIONAL EXPERIENCE**

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2019-Present    Assistant Professor, Vanderbilt University School of Medicine  
*Department of Health Policy*

2017 – 2019    Postdoctoral Research Fellow, Vanderbilt University School of Medicine  
*Department of Health Policy*

2014 – 2017    Graduate Research Assistant, Vanderbilt University School of Medicine  
*Department of Health Policy*

2012 – 2014    CDC/CSTE Applied Epidemiology Fellow, Tennessee Department of Health  
*Healthcare-Associated Infections and Antimicrobial Resistance Program*

2011 – 2012    Epidemiology Intern, BJC  
*Center for Clinical Excellence*

2010 – 2012    Graduate Research Assistant, Saint Louis University  
*Research Compliance (2011-2012)*  
*Division of Epidemiology (2010-2011) and Biostatistics (2011)*

**PROFESSIONAL ORGANIZATIONS**

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- 2018–Present Member, Society for Epidemiologic Research
- 2018–Present Member, ISPOR – Professional Society for Health Economics and Outcomes Research
- 2016–Present Member, Association for Clinical and Translational Science
- 2014–Present Member, International Society for Pharmacoepidemiology
- 2013–Present Member, Delta-Omega – Alpha Delta Chapter
- 2018 Fellow, Regulatory Affairs Fellowship Program, *Johns Hopkins University*
- 2012–2014 Fellow, CDC/CSTE Applied Epidemiology Fellowship Program
- 2012–2014 Member, Council of State and Territorial Epidemiologists
- 2011–2012 Member, American Public Health Association
- 2010–2012 Member, Community Health Association for Students, Saint Louis University
- 2010–2012 Guest Attendee, St. Louis African American Aids Alliance
- 2009–2012 Member, Phi Kappa Phi
- 2007–2009 Member, Student Athletic Advisory Committee

**PROFESSIONAL ACTIVITIES**

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**Intramural Activities**

- 2018-2019 Vanderbilt Postdoctoral Association, Vanderbilt University
- 2017 Graduate Student Representative, Vanderbilt Traffic and Parking Committee

**Extramural Activities**

**Ad hoc Grant Proposal Review**

- 2017 Kansas City Area Life Sciences Institute (KCALSI) Blue KC Outcomes Review

**Ad hoc Journal Review**

- 2020 Pharmacoepidemiology and Drug Safety
- 2019 *Annals of Internal Medicine* (*highlighted as a Top Reviewer in 2019*), Thorax, Pharmacoepidemiology and Drug Safety, The Journal of Pediatrics, Vaccine
- 2018 Cancer Management and Research, Journal of Geriatric Psychiatry and Neurology
- 2016 Vaccine

**Ad hoc Abstract Review**

- 2019 Society for Epidemiologic Research Conference
- 2019 International Conference for Health Economics and Outcomes Research
- 2015-2019 International Conference on Pharmacoepidemiology & Therapeutic Risk Management

**Academic or Professional Honors**

- 2019 Daryl K. Granner Diabetes Scholar Award (best diabetes-related postdoctoral work), *Vanderbilt University*
- 2017 Graduate Travel Award, *Vanderbilt University*  
University Graduate Honor Fellowship, *Vanderbilt University*  
TL1 Scholar Award, *Vanderbilt University*
- 2016 Graduate Travel Award, *Vanderbilt University*  
University Graduate Honor Fellowship, *Vanderbilt University*  
TL1 Scholar Award, *Vanderbilt University*

- 2015 University Graduate Honor Fellowship, *Vanderbilt University*  
TL1 Scholar Award, *Vanderbilt University*
- 2014 University Graduate Honor Fellowship, *Vanderbilt University*
- 2013 Co-author on Outstanding Poster Presentation Award Winner – Infectious Disease, CSTE  
2013 Conference, Pasadena, CA, *CDC/CSTE Applied Epidemiology Fellowship*
- 2012 Alumni Association Achievement Award, *Saint Louis University*  
Elected to Delta Omega, *Saint Louis University*
- 2009 Governor’s Scholarship, *Southeast Missouri State University*  
SEMO Scholar Athlete, *Southeast Missouri State University*  
Ohio Valley Conference Commissioner’s Honor Roll, *Southeast Missouri State University*  
Ohio Valley Conference Medal of Honor, *Southeast Missouri State University*
- 2008 Governor’s Scholarship, *Southeast Missouri State University*  
SEMO Scholar Athlete, *Southeast Missouri State University*  
Ohio Valley Conference Commissioner’s Honor Roll, *Southeast Missouri State University*  
Ohio Valley Conference Medal of Honor, *Southeast Missouri State University*
- 2007 Governor’s Scholarship, *Southeast Missouri State University*  
SEMO Scholar Athlete, *Southeast Missouri State University*  
Ohio Valley Conference Commissioner’s Honor Roll, *Southeast Missouri State University*  
Ohio Valley Conference Medal of Honor, *Southeast Missouri State University*
- 2006 Governor’s Scholarship, *Southeast Missouri State University*  
SEMO Scholar Athlete, *Southeast Missouri State University*  
Ohio Valley Conference Commissioner’s Honor Roll, *Southeast Missouri State University*

**TEACHING ACTIVITIES**

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- 2019-Present Primary Instructor, PUBH 5516-01 Public Health Practice, *Vanderbilt MPH Program*  
*Course details:* This course covers the three key public health functions (i.e. assessment, policy development, assurance) and competencies (e.g. cultural competency, systems thinking, public health surveillance, environmental health)
- 2018–Present Instructor, PLAN Course, *VUMC School of Medicine*  
*Course details:* This course introduces students to the basic concepts and principles of research through a series of practical sessions that allows students to actively engage in the process of developing their own research project.
- 2016–Present Teaching Assistant, PUBH 5501-01 Epidemiology I, *Vanderbilt MPH Program*  
*Course details:* This introductory epidemiology course focuses on the use of epidemiologic tools (i.e. measures of disease frequency and association, observational study design, and diagnostic and screening tests) and the role of epidemiology in measuring disease, estimating risks, and influencing public policy.
- 2015–2019 Instructor, STATA Bootcamp Course, *Vanderbilt MPH/MSCI Programs*

*Course details:* This short course offers a refresher in the very basics of Stata programming and involves interactive sessions with students to provide exposure to the statistical package and to provide hands-on practice.

- 2018 Assistant Instructor, PUBH 5516-01 Public Health Practice, *Vanderbilt MPH Program*  
*Course details:* This course covers the three key public health functions (i.e. assessment, policy development, assurance) and competencies (e.g. cultural competency, systems thinking, public health surveillance, environmental health)
- 2016 Teaching Assistant, Applied Epidemiological Methods, *PhD Epidemiology Program*  
*Course details:* Concepts and applications, including logistic regression, binomial regression, ordinal regression, multinomial regression, quantile regression, model building strategy, additive and multiplicative interaction, clustered and longitudinal data, and graphical exploration. Includes computer-based experience with real data, and an emphasis on logistic regression.

## RESEARCH SUPPORT

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### Current Support

- 2019-2022 **(PI: Wiese) Vanderbilt Faculty Research Scholars Program**  
 Vanderbilt Institute for Clinical and Translational Research: \$300,000  
**Principal Investigator:** Benzodiazepine restrictions and the prevention of adverse outcomes
- 2018-2020 **(PI: Wiese) PhRMA Foundation Postdoctoral Fellowship in Health Outcomes**  
 PhRMA Foundation: \$110,000  
**Principal Investigator:** Examining the impact of benzodiazepine policy restrictions on adverse health outcomes and the use of other psychotropic medications

### Past Support

- 2017-2019 **(PI: Rothman and Roumie) PCORI Award (CDRN-1306-04869)**  
 Patient-Centered Outcomes Research Institute  
**Investigator:** Diabetes Incidence, Prevalence and Medications Use in PCORnet
- 2015-2017 **Vanderbilt Clinical & Translational Research (VCTRS) TL1 Trainee**

## PUBLICATIONS AND PRESENTATIONS

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### Original articles in refereed journals

- [1] Kainer M, **Wiese AD**, Benedict K, Braden C, Brandt M, Harris J, Park BJ, Guh A, Jernigan J, Schaefer M, Weber JT, Wise M, Smith RM. Multistate outbreak of fungal infection associated with injection of methylprednisolone acetate solution from a single compounding pharmacy — United States, 2012, **MMWR** 2012 61(41);839-42 PMID: 23076093
- [2] Kainer MA, Reagan DR, Nguyen DB, **Wiese AD**, et al. Fungal infections associated with contaminated methylprednisolone in Tennessee. **N Engl J Med** 2012;367(23):2194-203. DOI: 10.1056/NEJMoa1212972. PMID: WOS:000311890600006. **PMCID: PMC4669562**
- Selected media coverage:*
- <https://www.usatoday.com/story/news/health/2012/11/08/meningitis-old-drugs/1691729/>
  - <https://www.usatoday.com/story/news/nation/2012/11/08/meningitis-steroids/1693135/>

- [3] Smith RM, Schaefer MK, Kainer MA, Wise M, Finks J, Duwve J, Fontaine E, Chu A, Carothers B, Reilly A, Fiedler J, **Wiese AD**, Feaster C, Gibson L, Griese S, Purfield A, Cleveland AA, Benedict K, Harris JR, Brandt ME, Blau D, Jernigan J, Weber JT, Park BJ, Multistate Fungal Infection Outbreak Response Team. Fungal Infections associated with Contaminated Methylprednisolone Injections. **N Engl J Med** 2013;369(17):1598-609. doi: 10.1056/NEJMoa1213978  
*Selected media coverage:*
- <https://www.npr.org/sections/health-shots/2017/01/24/511442863/victims-of-contaminated-steroids-still-hurting-my-lifes-upside-down>
  - <https://www.reuters.com/article/us-usa-meningitis-cdc/u-s-fungal-meningitis-outbreak-could-have-been-much-worse-cdc-idUSBRE8BI1MR20121219>
- [4] Dong G, Qian Z, Wang J, Chen W, Ma W, Trevathan E, Xaverius PK, DeClue R, **Wiese AD**, Langston M, Liu M, Wang D, Ren W. Associations between ambient air pollution and prevalence of stroke and cardiovascular disease in 33 Chinese communities. **Atmospheric Environment**. 2013;77:968-73. doi: 10.1016/j.atmosenv.2013.06.034
- [5] **Wiese AD**, Griffin MR, Stein CM, Mitchel EF, Grijalva CG. Opioid analgesics and the risk of serious infections among patients with rheumatoid arthritis: A self-controlled case series study. **Arthritis Rheumatol**. 2016;68(2):323-31. DOI: 10.1002/art.39462. **PMCID: PMC4728045**  
*Selected media coverage:*
- <https://news.vanderbilt.edu/2015/11/19/study-links-opioids-infection-risk-for-patients-with-rheumatoid-arthritis>
  - Altmetric attention score: 49
- [6] Muleta D, Kainer MA, Moore-Moravian L, **Wiese A**, Ward J, McMaster S, Nguyen D, Forbi JC, Mixson-Hayden T, Collier M. Notes from the Field: Hepatitis C Outbreak in a Dialysis Clinic – Tennessee, 2014. **MMWR Morb Mortal Wkly Rep**. 2016;64(50-51):1386-7. doi: 10.15585/mmwr.mm6450a5.
- [7] **Wiese AD**, Grijalva CG, Zhu Y, Mitchel Jr EF, Griffin MR. Changes in childhood pneumonia hospitalizations by race and sex associated with pneumococcal conjugate vaccines. **Emerg Infect Dis**. 2016;22(6):1109-12. doi: 10.3201/eid2206.152023. **PMCID: PMC4880071**
- [8] **Wiese AD**, Griffin MR, Zhu Y, Mitchel Jr EF, Grijalva CG. Changes in empyema among U.S. children in the pneumococcal conjugate vaccine era. **Vaccine**. 2016;34(50):6243-49. doi: 10.1016/j.vaccine.2016.10.062. **PMCID: PMC5552045**
- [9] **Wiese AD**, Griffin MR, Schaffner W, Stein CM, Greevy R, Mitchel, Jr. E, Grijalva CG. Opioid analgesic use and invasive pneumococcal diseases: a nested case-control study. **Annals of Internal Medicine**. 2018;168(6):396-404. doi:10.7326/M17-1907. **PMCID: 6647022**  
*Selected media coverage:*
- <https://www.nytimes.com/2018/02/21/well/live/opioids-tied-to-risk-of-fatal-infections.html>
  - <http://nashvillepublicradio.org/post/opioid-users-have-increased-risk-deadly-infections-vanderbilt-researchers-find#stream/0>
  - <https://www.youtube.com/watch?v=9sgjzRr01ZQ>
  - Altmetric attention score: 321 (high attention score and in top 5% of all research outputs)
- [10] **Wiese AD**, Griffin MR, Stein CM, Schaffner W, Greevy R, Mitchel, Jr. E, Grijalva CG. Validation of discharge diagnosis codes to identify serious infections among older adults. **BMJ Open**. 2018;8:e020857. doi:10.1136/bmjopen-2017-020857. **PMCID: PMC6009457**

- [11] **Wiese AD**, Griffin MR, Schaffner W, Stein CM, Greevy R, Mitchel, Jr. E, Grijalva CG. Long-acting opioid use and the risk of serious infection: a retrospective cohort study. **Clin Infect Dis.** 2019;68(11):1862-1869. doi:10.1093/cid/ciy809. **PMCID: PMC6522680**
- [12] Osmundson SS, **Wiese AD**, Min JY, Hawley RE, Patrick SW, Griffin MR, Grijalva CG. Delivery type, opioid prescribing, and the risk of persistent opioid use after delivery. **Am J Obstet Gynecol.** 2018;220(4):405-407. doi:10.1016/j.ajog.2018.10.026. **PMCID: PMC6546169**
- [13] **Wiese AD**, Roumie CL, Buse JB, Guzman H, Bradford R, Zalimeni E, Knoepp P, Morris H, Donahoo WT, Fanous N, Epstein BF, Katalenich BL, Ayala SG, Cook M, Worley KJ, Bachmann KN, Grijalva CG, Rothman RL, Chakkalakal RJ. Performance of a computable phenotype for identification of patients with diabetes within PCORnet: The Patient-Centered Clinical Research Network. **Pharmacoepidemiol Drug Saf.** 2019;28:632-639. doi: 10.1002/pds.4718. **PMCID: PMC6615719**
- [14] **Wiese AD**, Griffin MR, Huang X, Yu C, Mitchel, Jr. E, Grijalva CG. The impact of the 13-valent pneumococcal conjugate vaccine on acute otitis media episodes and pressure equalization tube insertions among young children in Tennessee. **Clin Infect Dis.** 2019 [Epub ahead of print]. doi: 10.1093/cid/ciz142
- [15] **Wiese AD**, Griffin MR, Grijalva CG. Impact of pneumococcal conjugate vaccines on hospitalizations for all-cause pneumonia. **Expert Review of Vaccines.** 2019;18:327-341. doi: 10.1080/14760584.2019.1582337. **PMCID: PMC6443450**

### **Invited Editorials**

- [1] **Wiese AD** and Grijalva CG. The use of prescribed opioid analgesics and the risk of serious infections. **Future Microbiology.** 2018;31:849-852. doi: 10.2217/fmb-2018-0101
- [2] **Wiese AD**, Grijalva CG. To boost or not to boost? Lessons from the Australian pneumococcal conjugate vaccination program. **Clin Infect Dis.** 2019 [Epub ahead of print]. doi: 10.1093/cid/ciz735

### **Letters**

- [1] **Wiese AD**, Griffin MR, Schaffner W, Stein CM, Grijalva CG. Opioid use and the risk of invasive pneumococcal disease – Author’s reply. **Annals of Internal Medicine.** 2018 Sep 4; 169(5):355. Doi: 10.7326/L18-0295
- [2] **Wiese AD**, Greevy RA, Grijalva CG. Response to Boettiger. **Clin Infect Dis.** 2019. [Epub ahead of print]. doi: 10.1093/cid/ciz1136

### **Works in Progress**

- [1] “Medication use and characteristics of patients with diabetes in PCORnet.” (senior author: Rosette Chakkalakal)
- [2] “Performance of a claims-based frailty phenotype for patients hospitalized with serious infections.” (senior author: Carlos Grijalva)
- [3] “Concurrent use of opioids and strong metabolic inhibitors and the risk of serious infections.” (senior author: Carlos Grijalva)
- [4] “Postpartum opioid prescribing and the risk of serious opioid-related events” (senior author: Carlos Grijalva)

**Presentations at Scientific Meetings**

- 2019 Oral: 2019 Vanderbilt Diabetes Day [invited]  
Oral: 35<sup>th</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management  
Oral: 2019 Vanderbilt Translational Research Forum [invited]  
Oral: Centers for Disease Control and Prevention Respiratory Branch Epidemiology Meeting [invited]
- 2018 Oral (2): 34<sup>th</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management  
Poster: 11<sup>th</sup> International Symposium on Pneumococci & Pneumococcal Diseases  
Poster: Translational Science - 2018
- 2017 Poster (2): 33<sup>rd</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management  
Poster: Translational Science – 2017 (CTSA TL1 Fellow Poster Award Nomination)
- 2016 Oral: 32<sup>nd</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management  
Poster (3): 10<sup>th</sup> International Symposium on Pneumococci & Pneumococcal Diseases  
Poster: Translational Science – 2016
- 2015 Oral: 31<sup>st</sup> International Conference on Pharmacoepidemiology & Therapeutic Risk Management  
Poster: IDWeek 2015
- 2014 Oral (3) / Poster (1): 2014 Council of State and Territorial Epidemiologists Conference
- 2013 Invited Speaker: Florida Professionals in Infection Control Annual Conference  
Oral (2): 2013 Council of State and Territorial Epidemiologists Conference (two oral)  
Poster (1): IDWeek 2013

**Full Abstract List Available Upon Request**

**Media**

- [1] **Wiese A.** (2013, August 19). What Happens in the Outpatient Clinic Doesn't Always Stay in the Outpatient Clinic: Lessons from a Regional Outbreak of Adenovirus-associated Epidemic Keratoconjunctivitis (EKC). *CDC Safe Healthcare*. Retrieved from: <https://blogs.cdc.gov/safehealthcare/authors/andrew-wiese-mp/>
- [2] **Wiese A.** (2015, December 10). Hypertension-related visits to emergency rooms on rise in U.S. *VUMC Reporter*. Retrieved from: <http://news.vanderbilt.edu/2015/12/hypertension-related-visits-to-emergency-rooms-on-rise-in-u-s/>
- [3] **Wiese A.** (2015, December 16). Immune response in transplantation. *VUMC Reporter*. Retrieved from: <http://news.vanderbilt.edu/2015/12/immune-response-transplantation/>
- [4] **Wiese A.** (Spring 2016). Study sheds new insights into how bacteria build cities. *BRET: Results and Discussion*. (3):11.
- [5] **Wiese A.** (Spring 2016). Future Directions: Laura Burns, Ph.D. Author and Photo Credit. *BRET: Results and Discussion*. (3):4-5.
- [6] **Wiese A.** (Fall 2016). Alumni Spotlight: Laura Burns, Brewmaster. Author and Photo Credit. Retrieved from <https://medschool.vanderbilt.edu/bret/alumni-spotlight-laura-burns-brewmaster>