

ANDREW R. ZULLO, Pharm.D., Ph.D.

Department of Epidemiology
Brown University School of Public Health
121 South Main Street, Box G-S121-2
Providence, RI, 02912
Office: Room 213
Tel: 401-863-6309 (office)
Email: andrew_zullo@brown.edu

1. DATE OF PREPARATION

January 8, 2025

2. EDUCATION

Ph.D. (Pharmacoepidemiology) 2012-2017
Department of Health Services, Policy, and Practice Providence, Rhode Island
Brown University

- Thesis: Use, safety, and effectiveness of diabetes medications in older nursing home residents.
- Chair: David Dore
- Committee Members: Robert J. Smith, Roe Gutman, & Vincent Mor

Sc.M. (Epidemiology) 2012-2015
Department of Epidemiology Providence, Rhode Island
Brown University

- Thesis: Estimating the effect of health insurance on personal prescription drug importation.
- Advisor: Chanelle Howe
- Reader: Omar Galárraga

Pharm.D. (Clinical Pharmacy) 2006-2012
School of Pharmacy Piscataway, New Jersey
Rutgers University

3. POSTDOCTORAL TRAINING

Postdoctoral Research Fellow (Health Services Research) Oct 2017 – May 2020
Center of Innovation in Long-Term Services and Supports Providence, Rhode Island
Providence Veterans Affairs Medical Center

- Primary Mentor: Amal Trivedi
- Secondary Mentors: James Rudolph & Kerry LaPlante

Postdoctoral Research Fellow (Patient-Centered Outcomes Research) Sep 2015 – Jul 2018
Center for Evidence Synthesis in Health Providence, Rhode Island
Brown University

Note: Postdoctoral training was concurrent with PhD training due to prior PharmD degree.

- Primary Mentor: Issa Dahabreh
- Secondary Mentors: Thomas Trikalinos & Ethan Balk

4. EMPLOYMENT RECORD

Associate Professor (Tenure Track) Jan 2023 – Present
Assistant Professor (Secondary Appointment) Oct 2017 – Jun 2022
Department of Epidemiology Providence, Rhode Island
Brown University School of Public Health

Associate Professor (Secondary Appointment) Jan 2023 – Present
Associate Professor (Research Scholar Track) Jul 2022 – Dec 2022
Assistant Professor (Research Scholar Track) Oct 2017 – Jun 2022
Investigator Sep 2015 – Sep 2017
Research Assistant Aug 2013 – Aug 2015
Department of Health Services, Policy, and Practice Providence, Rhode Island
Brown University School of Public Health

Research Health Science Specialist May 2020 – Present
Research Fellow Oct 2017 – May 2020
Health Services, Research, and Development Providence, Rhode Island
Providence VA Medical Center

Clinical Pharmacist Specialist Sep 2015 – Present
Staff Pharmacist Aug 2012 – Aug 2015
Department of Pharmacy Providence, Rhode Island
Lifespan – Rhode Island Hospital/Hasbro Children’s Hospital

Adjunct Assistant Professor Sep 2016 – Sep 2020
College of Pharmacy Kingston, Rhode Island
University of Rhode Island

Adjunct Assistant Professor Sep 2016 – Sep 2018
School of Pharmacy Storrs, Connecticut
University of Connecticut

5. MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS & SOCIETIES

1) American Public Health Association 2019 – present

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|---------------------------------------------------|----------------|
| 2) American Geriatrics Society | 2015 – present |
| 3) International Society for Pharmacoepidemiology | 2013 – present |
| 4) Society for Epidemiologic Research | 2013 – present |
| 5) American Society of Health-System Pharmacists | 2010 – present |

6. PUBLICATIONS

A. BOOK CHAPTERS

- 1) None.

B. REFEREED JOURNAL ARTICLES

* denotes mentee serving as first or second author

- 1) **Zullo AR**, Gravenstein S, Howe CJ. Exacerbation of racial disparities in COVID-19 outcomes by Alzheimer’s Disease and Related Dementias among nursing home residents. *American Journal of Epidemiology*. In Press.
- 2) Zhang T, Santostefano CM, Harris D, Coe AB, **Zullo AR**, Gerlach LB, Joshi R, Bynum JPW, Shireman TI. Effects of visitation restriction on antipsychotic drug use among nursing home residents with ADRD during the COVID-19 pandemic. *JAMDA Journal of the American Medical Directors Association*. In Press
- 3) *Gantenberg JR, van Aalst R, Diakun D, Limone BL, Nelson CB, Savitz DA, Bengston AM, **Zullo AR**. Healthcare Utilization During Acute Medically Attended RSV LRTI Episodes Among Infants in the United States. *PLoS One*. In Press.
- 4) *Gantenberg JR, Thompson KD, van Aalst R, Smith DM, Richards M, Melson CB, La Via WV, Chaves SS, Bengtson AM, Savitz DA, **Zullo AR**. Inpatient Service Utilization Amongst Infants Diagnosed with Respiratory Syncytial Virus Infection (RSV) in the United States. *PLoS One*. In Press.
- 5) **Zullo AR**, Riester MR, Varma H, Daiello L, Gerlach LB, Coe AB, Thomas KS, Joshi R, Zhang T, Shireman TI, Bynum JPW. Effects of Nursing Home Changes in Antipsychotic Use on Outcomes Among Residents with Dementia. *J Am Med Dir Assoc*. 2024 Dec 28:105439. doi: 10.1016/j.jamda.2024.105439. Epub ahead of print. PMID: 39740766.
- 6) Visaria A, McDonald W, Mancini J, Ambrosy AP, Kwak MJ, Hashemi A, Lachs MS, **Zullo AR**, Safford M, Levitan EB, Goyal P. Changes in Medication Complexity and Post-Hospitalization Outcomes in Older Adults Hospitalized for Heart Failure. *Drugs Aging*. 2024 Dec 27. doi: 10.1007/s40266-024-01166-1. Epub ahead of print. PMID: 39729264.

- 7) Deng Y, Hayes KN, Zhao Y, Chachlani P, **Zullo AR**, Djibo DA, McMahon-Walraven CN, Mor V, Harris DA. Variation in the time to complete the primary COVID-19 vaccine series by race, ethnicity, and geography among older US adults. *Vaccine*. 2024 Nov 7;43(Pt 2):126501. doi: 10.1016/j.vaccine.2024.126501. Epub ahead of print. PMID: 39515194.
- 8) *Sisti A, **Zullo AR**, Gutman R. A Bayesian method for adverse effects estimation in observational studies with truncation by death. *Stat Methods Med Res*. 2024 Nov 5:9622802241283170. doi: 10.1177/09622802241283170. Epub ahead of print. PMID: 39501712.
- 9) Hayes KN, Niznik JD, Gnjdic D, Tran N, Moriarty F, Coe AB, **Zullo AR**, Zhang S, Alcusky M, Bennett D, Hartikainen S, Laroche ML, Li, X, Lin, KJ, Lund JL, Sessa M, Shmuel S, Sirois C, Talbot D, Tiihonen J, Wen X, Sawan MJ, Moga DC. Evaluation of real-world evidence to assess health outcomes related to deprescribing in older adults: an ISPE-sponsored systematic review of methodology. *Am J Epidemiol*. 2024 Nov 4:kwae425. doi: 10.1093/aje/kwae425. Epub ahead of print. PMID: 39572376.
- 10) **Zullo AR**, Riester MR, Hayes KN, Zhang Y, Berry SD, Belanger E, Cupp-Buxton M, Beaudoin FL. Analgesic Regimens among Older Adults Receiving Skilled Nursing Facility Care Following Hip Fracture. *BMC Geriatr*. 2024 Oct 30;24(1):897. doi: 10.1186/s12877-024-05486-0. PMID: 39478461; PMCID: PMC11523817.
- 11) **Zullo AR**, Riester MR, D'Amico AM, Bhuma MR, Khan MA, Curry AE, Pfeiffer MR, Margolis SA, Ott BR, Bayer TA, Joyce NR. Medication Changes Among Older Drivers Involved in Motor Vehicle Crashes. *JAMA Netw Open*. 2024 Oct 1;7(10):e2438338. doi: 10.1001/jamanetworkopen.2024.38338. PMID: 39382896.
- 12) Hayes KN, *Cupp MA, Joshi R, Riester MR, Beaudoin FL, **Zullo AR**. Differences in opioid prescriptions by race among U.S. older adults with a hip fracture transitioning to community care. *J Am Geriatr Soc*. 2024 Sep 11. doi: 10.1111/jgs.19160. Epub ahead of print. PMID: 39257240.
- 13) Coe AB, Zhang T, **Zullo AR**, Gerlach LB, Daiello LA, Varma H, Lo D, Joshi R, Bynum JPW, Shireman TI. Association of nursing home antipsychotic reduction policies with antipsychotic use in community dwellers with dementia. *J Am Geriatr Soc*. 2024 Sep 6. doi: 10.1111/jgs.19184. Epub ahead of print. PMID: 39242359.
- 14) *Cupp MA, Berry SD, Hayes KN, Daiello LA, Ko D, Riester MR, **Zullo AR**. Cholinesterase Inhibitor Initiation Does Not Increase the Risk of Fall-Related Injury in Older Adults Treated with Beta-blockers: a self-controlled case series design. *J Gerontol A Biol Sci Med Sci*. 2024 Nov 1;79(11):glae219. doi: 10.1093/gerona/glae219. PMID: 39215654; PMCID: PMC11500602.
- 15) Shireman TI, Coulibaly N, Zhang T, **Zullo AR**, Gerlach LB, Coe AB, Daiello LA, Lo D, Bynam JPW. Impact of federal antipsychotic use policy in nursing homes on new diagnoses for approved indications in dementia residents. *J Am Geriatr Soc*. 2024 Aug 23. doi: 10.1111/jgs.19129. Epub ahead of print. PMID: 39177336.

- 16) Riester MR, *Bosco E, Beaudoin FL, Gravenstein S, Mor V, **Zullo AR**. Initial and Long-term Use of Opioids and Non-steroidal Anti-inflammatory Drugs Following Total Hip and Knee Arthroplasty. *Geriatr Orthop Surg Rehabil*. 2024 Aug 13;15:21514593241266715. doi: 10.1177/21514593241266715. PMID: 39149698; PMCID: PMC11325315.
- 17) Ko D, Lee Y, Kim DH, Shah SJ, Hayes KN, **Zullo AR**, Berry SD. Antiplatelet and Anticoagulant Use in Nursing Home Residents with Atrial Fibrillation. *JAMA Intern Med*. 2024 Aug 12:e243819. doi: 10.1001/jamainternmed.2024.3819. Epub ahead of print. PMID: 39133502; PMCID: PMC11320326.
- 18) Joyce NR, Lombardi LR, Pfeiffer MR, Curry AE, Margolis S, Ott BR, **Zullo AR**. Implications of using administrative healthcare data to identify risk of motor vehicle crash-related injury: the importance of distinguishing crash from crash-related injury. *Inj. Epidemiol*. 2024 Aug 12;11(1):38. doi: 10.1186/s40621-024-00523-3. PMID: 39135173; PMCID: PMC11318118.
- 19) *Stettenbauer EG, Berry SD, Lee Y, **Zullo AR**, Daiello LA. Evaluating Lecanemab Eligibility for Patients in Skilled Nursing Facilities With Alzheimer Disease or Mild Cognitive Impairment. *J Am Med Dir Assoc*. 2024 Aug 6:105192. doi: 10.1016/j.jamda.2024.105192. Epub ahead of print. PMID: 39122236.
- 20) Moyo P, Choudry E, George M, **Zullo AR**, Ritter AZ, Rahman M. Disparities in Access to Highly Rated Skilled Nursing Facilities Among Medicare Beneficiaries With Opioid Use Disorder. *J Am Med Dir Assoc*. 2024 Aug 5:105190. doi: 10.1016/j.jamda.2024.105190. Epub ahead of print. PMID: 39117298.
- 21) Wen K, Harris DA, Chachlani P, Hayes KN, McCarthy E, **Zullo AR**, Smith-Ray RL, Singh T, Djibo DA, McMahill-Walraven CN, Hiris J, Conti RM, Gruber J, Mor V. COVID-19 Vaccines: Moderna And Pfizer-BioNTech Use Varied By Urban, Rural Counties. *Health Aff (Millwood)*. 2024 May;43(5):659-665. doi: 10.1377/hlthaff.2023.00813. PMID: 38709973; PMCID: PMC11148879.
- 22) **Zullo AR**, *Khan MA, Pfeiffer MR, Margolis SA, Ott BR, Curry AE, Bayer TA, Riester MR, Joyce NR. Non-benzodiazepine Hypnotics and Police-Reported Motor Vehicle Crash Risk among Older Adults: A Sequential Target Trial Emulation. *Am J Epidemiol*. 2024 Jul 2:kwae168. doi: 10.1093/aje/kwae168. Epub ahead of print. PMID: 38957996.
- 23) *Gantenberg JR, van Aalst R, Reddy Bhuma M, Limone B, Diakun D, Smith DM, Nelson CB, Bengtson AM, Chaves SS, La Via WV, Rizzo C, Savitz DA, **Zullo AR**. Risk Analysis of Respiratory Syncytial Virus Among Infants in the United States by Birth Month. *J Pediatric Infect Dis Soc*. 2024 Jun 28;13(6):317-327. doi: 10.1093/jpids/piae042. PMID: 38738450; PMCID: PMC11212365.

- 24) *Shakya I, **Zullo AR**, Hayes KN, Joshi R, Berry SD. Risk factors for urinary tract infections among nursing home residents initiating sodium-glucose cotransporter-2 inhibitors. *J Am Geriatr Soc*. 2024 Jun 8. doi: 10.1111/jgs.19029. Epub ahead of print. PMID: 38850171.
- 25) Riester MR, Zhang Y, Hayes KN, Beaudoin FL, **Zullo AR**. Use of electronic health record data to examine administrations of pro re nata analgesics during hip fracture post-acute care. *Pharmacoepidemiol Drug Saf*. 2024 Jun;33(6):e5846. doi: 10.1002/pds.5846. PMID: 38825963; PMCID: PMC11149906.
- 26) Riester MR, **Zullo AR**, Joshi R, Daiello LA, Hayes KN, Ko D, Kim DH, Munshi M, Berry SD. Comparative safety and cardiovascular effectiveness of sodium-glucose cotransporter-2 inhibitors and glucagon-like peptide-1 receptor agonists in nursing homes. *Diabetes Obes Metab*. 2024 Aug;26(8):3403-3417. doi: 10.1111/dom.15682. Epub 2024 May 23. PMID: 38779879; PMCID: PMC11233240.
- 27) *Bosco E, Riester MR, Beaudoin FL, Schoenfeld AJ, Gravenstein S, Mor V, **Zullo AR**. Comparative safety of tramadol and other opioids following total hip and knee arthroplasty. *BMC Geriatr*. 2024 Apr 5;24(1):319. doi: 10.1186/s12877-024-04933-2. PMID: 38580920; PMCID: PMC10996118.
- 28) *McConeghy KW, Hur K, Dahabreh IJ, Jiang R, Pandey L, Gellad WF, Glassman P, Good CB, Miller DR, **Zullo AR**, Gravenstein S, Cunningham F. Early Mortality After the First Dose of COVID-19 Vaccination: A Target Trial Emulation. *Clin Infect Dis*. 2024 Mar 20;78(3):625-632. doi: 10.1093/cid/ciad604. PMID: 38319989; PMCID: PMC10954332.
- 29) *Silva JBB, Riester MR, **Zullo AR**. Antibiotic Prescribing Patterns for Urinary Tract Infections and Pneumonia by Prescriber Type and Specialty in Nursing Home Care, 2016-2018. *J Am Med Dir Assoc*. 2024 May;25(5):769-773.e9. doi: 10.1016/j.jamda.2024.01.019. Epub 2024 Feb 27. PMID: 38428833; PMCID: PMC11259097.
- 30) Harris DA, Chachlani P, Hayes KN, McCarthy EP, Wen KJ, Deng Y, **Zullo AR**, Djibo DA, McMahill-Walraven CN, Smith-Ray RL, Gravenstein S, Mor V. COVID-19 and influenza vaccine co-administration among older U.S. adults. *Am J Prev Med*. 2024 Jul;67(1):67-78. doi: 10.1016/j.amepre.2024.02.013. Epub 2024 Feb 23. PMID: 38401746; PMCID: PMC11193626.
- 31) *Tat DP, **Zullo AR**, Mor V, Hayes KN. Sliding Scale Insulin Use in Nursing Homes Before and After Onset of the COVID-19 Pandemic. *J Am Med Dir Assoc*. 2024 Mar;25(3):459-464. doi: 10.1016/j.jamda.2024.01.004. Epub 2024 Jan 30. PMID: 38307122; PMCID: PMC10923121.
- 32) **Zullo AR**, Riester MR, Goldberg EM, Cupp MA, Berry SD, Beaudoin FL. Long-Term Care Pharmacy Market Shares and Differences in Skilled Nursing Facilities Served. *J Aging Soc Policy*. 2024 Jan 2;36(1):104-117. doi: 10.1080/08959420.2023.2182997. Epub 2023 Feb 25. PMID: 36841755; PMCID: PMC10450092.

- 33) Riester MR, Douglas CM, Silva JBB, Datta R, **Zullo AR**. Clinicians who primarily practice in nursing homes and outcomes among residents with urinary tract infection or pneumonia. *Antimicrob Steward Healthc Epidemiol*. 2023 Dec 6;3(1):e253. doi: 10.1017/ash.2023.527. PMID: 38178878; PMCID: PMC10762639.
- 34) Berry SD, Hayes K, Lee Y, Zhang Y, Kim DH, Ko D, Kiel DP, Daiello L, Zhang T, **Zullo AR**. Fall risk and cardiovascular outcomes of first-line antihypertensive medications in nursing home residents. *J Am Geriatr Soc*. 2024 Mar;72(3):682-692. doi: 10.1111/jgs.18702. Epub 2023 Dec 5. PMID: 38051600; PMCID: PMC10947930.
- 35) Hayes KN, Zhang T, Kim DH, Daiello LA, Lee Y, Kiel DP, Berry SD, **Zullo AR**. Benefits and Harms of Standard Versus Reduced-Dose Direct Oral Anticoagulant Therapy for Older Adults With Multiple Morbidities and Atrial Fibrillation. *J Am Heart Assoc*. 2023 Nov 7;12(21):e029865. doi: 10.1161/JAHA.122.029865. Epub 2023 Nov 6. PMID: 37929769.
- 36) Hayes KN, Harris DA, **Zullo AR**, Djibo DA, Smith-Ray RL, Taitel MS, Singh TG, McMahill-Walraven C, Chachlani P, Wen KJ, McCarthy EP, Gravenstein S, McCurdy S, Baird KE, Moran D, Fenson D, Deng Y, Mor V. Data resource profile: COVID VAXines effects on the aged (COVVAXAGE). *Int J Popul Data Sci*. 2023 Oct 16;8(6):2170. doi: 10.23889/ijpds.v8i6.2170. PMID: 38425722; PMCID: PMC10900297.
- 37) Riester MR, D'Amico AM, Khan MA, Joyce NR, Pfeiffer MR, Margolis SA, Ott BR, Curry AE, Bayer TA, **Zullo AR**. Changes in the burden of medications that may impair driving among older adults before and after a motor vehicle crash. *J Am Geriatr Soc*. 2024 Feb;72(2):444-455. doi: 10.1111/jgs.18643. Epub 2023 Oct 31. PMID: 37905738; PMCID: PMC10922040.
- 38) Gadbois EA, Meehan A, Uth R, Baier RR, Gravenstein S, **Zullo AR**, Kabler H, Loiacono MM, Bardenheier BH. Identifying strategies that promote staff and resident influenza and COVID-19 vaccination in nursing homes: Perspectives from nursing home staff. *Geriatr Nurs*. 2023 Nov-Dec;54:205-210. doi: 10.1016/j.gerinurse.2023.09.006. Epub 2023 Oct 14. PMID: 37844537.
- 39) Shireman TI, Fashaw-Walters S, Zhang T, **Zullo AR**, Gerlach LB, Coe AB, Daiello L, Lo D, Strominger J, Bynum JPW. Federal Nursing Home Policies on Antipsychotics had Similar Impacts by Race and Ethnicity for Residents With Dementia. *J Am Med Dir Assoc*. 2023 Sep;24(9):1283-1289.e4. doi: 10.1016/j.jamda.2023.03.027. Epub 2023 Apr 28. PMID: 37127131.
- 40) *Silva JBB, Howe CJ, Jackson JW, Bardenheier BH, Riester MR, van Aalst R, Loiacono MM, **Zullo AR**. Geospatial Distribution of Racial Disparities in Influenza Vaccination in Nursing Homes. *J Am Med Dir Assoc*. 2024 Jun;25(6):104804. doi: 10.1016/j.jamda.2023.08.018. Epub 2023 Sep 20. PMID: 37739348; PMCID: PMC10950839.
- 41) Chambers LC, Hollowell BD, **Zullo AR**, Paiva TJ, Berk J, Gaither R, Hampson AJ, Beaudoin FL, Wightman RS. Buprenorphine Dose and Time to Discontinuation Among Patients With Opioid Use Disorder in the Era of Fentanyl. *JAMA Netw Open*. 2023 Sep 5;6(9):e2334540. doi: 10.1001/jamanetworkopen.2023.34540. PMID: 37721749; PMCID: PMC10507490.

- 42) *Li AB, Yang B, Li Y, Huynh R, Shim S, Lo K, Li J, **Zullo AR**, Wu WC, Liu S. A network meta-analysis of association between cardiometabolic risk factors and COVID-19 outcome severity. *J Diabetes*. 2023 Nov;15(11):968-977. doi: 10.1111/1753-0407.13445. Epub 2023 Aug 30. PMID: 37649300; PMCID: PMC10667650.
- 43) Berry SD, Hecker EJ, McConnell ES, Xue TM, Tsai T, **Zullo AR**, Colón-Emeric C. Nursing Home PRevention of Injury in DEmentia (NH PRIDE): A pilot study of a remote injury prevention service for NH residents. *J Am Geriatr Soc*. 2023 Oct;71(10):3267-3277. doi: 10.1111/jgs.18564. Epub 2023 Aug 19. PMID: 37596877; PMCID: PMC10592133.
- 44) Harris DA, Hayes KN, **Zullo AR**, Mor V, Chachlani P, Deng Y, McCarthy EP, Djibo DA, McMahill-Walraven CN, Gravenstein S. Comparative Risks of Potential Adverse Events Following COVID-19 mRNA Vaccination Among Older US Adults. *JAMA Netw Open*. 2023 Aug 1;6(8):e2326852. doi: 10.1001/jamanetworkopen.2023.26852. PMID: 37531110; PMCID: PMC10398407.
- 45) Robison RD, Singh M, Jiang L, Riestler M, Duprey M, McGeary JE, Goyal P, Wu WC, Erqou S, **Zullo AR**, Rudolph JL, Rogus-Pulia N. Acute Antipsychotic Use and Presence of Dysphagia Among Older Veterans with Heart Failure. *J Am Med Dir Assoc*. 2023 Sep;24(9):1303-1310. doi: 10.1016/j.jamda.2023.06.009. Epub 2023 Jul 18. PMID: 37478895. PMCID: PMC10527768.
- 46) Liu E, Nahid M, Musse M, Chen L, Hilmer SN, **Zullo AR**, Kwak MJ, Lachs M, Levitan EB, Safford MM, Goyal P. Prescribing patterns of fall risk-increasing drugs in older adults hospitalized for heart failure. *BMC Cardiovasc Disord*. 2023 Jul 26;23(1):372. doi: 10.1186/s12872-023-03401-w. PMID: 37495948; PMCID: PMC10373421.
- 47) Zhang T, **Zullo AR**, Hayes KKN, Kim DH, Lee Y, Daiello LA, Kiel DP, Berry SD. Use of Diabetes Medications before and after a Heart Failure-Related Hospitalization among Nursing Home Residents. *J Am Med Dir Assoc*. 2024 Mar;25(3):454-458. doi: 10.1016/j.jamda.2023.06.033. Epub 2023 Aug 5. PMID: 37553080; PMCID: PMC10839110.
- 48) Hayes KN, Harris DA, **Zullo AR**, Chachlani P, Wen KJ, Smith-Ray RL, Djibo DA, McCarthy EP, Pralea A, Singh TG, McMahill-Walraven C, Taitel MS, Deng Y, Gravenstein S, Mor V. Racial and ethnic disparities in COVID-19 booster vaccination among U.S. older adults differ by geographic region and Medicare enrollment. *Front Public Health*. 2023 Aug 10;11:1243958. doi: 10.3389/fpubh.2023.1243958. PMID: 37637796; PMCID: PMC10456997.
- 49) Zhang Y, Hayes KN, Riestler MR, Silva JBB, Cupp MA, Lee Y, **Zullo AR**. Trends in COVID-19-Related Medication Use in US Nursing Homes, 2018-2022. *J Am Med Dir Assoc*. 2023 Aug;24(8):1120-1126.e1. doi: 10.1016/j.jamda.2023.05.013. Epub 2023 May 25. PMID: 37336494; PMCID: PMC10209440.
- 50) *Bayer TA, Jiang L, Erqou S, Kunicki ZJ, Singh M, Duprey M, Bozzay M, McGeary JE, **Zullo AR**, Wu WC, Gravenstein S, Rudolph JL. Incidence of New Dementia Diagnosis in Veterans

Admitted to Nursing Homes After Heart Failure Hospitalization. *J Alzheimers Dis.* 2023;94(4):1397-1404. doi: 10.3233/JAD-221300. PMID: 37424463; PMC11016306.

- 51) Riester MR, Beaudoin FL, Joshi R, Hayes KN, Cupp MA, Berry SD, **Zullo AR**. Evaluation of post-acute care and one-year outcomes among Medicare beneficiaries with hip fractures: a retrospective cohort study. *BMC Med.* 2023 Jul 3;21(1):232. doi: 10.1186/s12916-023-02958-9. PMID: 37400841; PMCID: PMC10318833.
- 52) Sarri G, Liu W, Zobotka L, Freitag A, Claire R, Wangge G, Elvidge J, Dawoud D, Bennett D, Wen X, Li X, Rentsch CT, Uddin MJ, Ali MS, Gokhale M, Déruaz-Luyet A, Moga DC, Guo JJ, **Zullo AR**, Patorno E, Lin KJ. Prognostic Factors of COVID-19: An Umbrella Review Endorsed by the International Society for Pharmacoepidemiology. *Clin Pharmacol Ther.* 2023 Sep;114(3):604-613. doi: 10.1002/cpt.2977. Epub 2023 Jul 20. PMID: 37342987.
- 53) *Silva JBB, Howe CJ, Jackson JW, Riester MR, Bardenheier BH, Xu L, Puckrein G, van Aalst R, Loiacono MM, **Zullo AR**. Geographic Variation in Racial Disparities in Receipt of High-Dose Influenza Vaccine Among US Older Adults. *J Racial Ethn Health Disparities.* 2024 Jun;11(3):1520-1529. doi: 10.1007/s40615-023-01628-z. Epub 2023 May 15. PMID: 37184814; PMCID: PMC10184628.
- 54) Datta R, Pirruccio G, Fried TR, O'Leary JR, **Zullo AR**, Cohen A. Antimicrobial resistance in Escherichia coli and Klebsiella pneumoniae urine isolates from a national sample of home-based primary care patients with dementia. *Infect Control Hosp Epidemiol.* 2023 May 22:1-4. doi: 10.1017/ice.2023.98. Epub ahead of print. PMID: 37211919; PMCID: PMC10663380.
- 55) *Cupp MA, Beaudoin F, Hayes KN, Riester M, Berry S, Joshi R, **Zullo AR**. Post-Acute Care Setting after Hip Fracture Hospitalization and Subsequent Opioid Use in Older Adults. *J Am Med Dir Assoc.* 2023 Jul;24(7):971-977.e4. doi: 10.1016/j.jamda.2023.03.012. Epub 2023 Apr 17. PMID: 37080246; PMCID: PMC10293035.
- 56) Zhang T, **Zullo AR**, James HO, Lee Y, Taylor DCA, Daiello LA. The Burden and Treatment of Chronic Constipation Among US Nursing Home Residents. *J Am Med Dir Assoc.* 2023 Aug;24(8):1247-1252.e5. doi: 10.1016/j.jamda.2023.05.006. Epub 2023 Jun 9. PMID: 37308090.
- 57) Riester MR, *Deng Y, **Zullo AR**. Antibiotic Prescribing in United States Nursing Homes, 2013-2017. *J Infect Dis.* 2023 Aug 16;228(4):464-468. doi: 10.1093/infdis/jiad087. PMID: 37017192; PMCID: PMC10428191.
- 58) Hayes KN, Berry SD, Munshi MN, **Zullo AR**. Adoption of sodium-glucose cotransporter-2 inhibitors among prescribers caring for nursing home residents. *J Am Geriatr Soc.* 2023 Aug;71(8):2585-2592. doi: 10.1111/jgs.18360. Epub 2023 Apr 20. PMID: 37078149; PMCID: PMC10528819.

- 59) **Zullo AR**, Riester MR, Hayes KN, Munshi MN, Berry SD. Comparative safety of sulfonylureas among U.S. nursing home residents. *J Am Geriatr Soc*. 2023 Apr;71(4):1047-1057. doi: 10.1111/jgs.18160. Epub 2022 Dec 10. PMID: 36495141; PMCID: PMC10089954.
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C. COMMENTARIES & EDITORIALS

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D. WORK UNDER REVIEW (SELECTED)

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- 196) Nolan K, MacLeod H, Taman M, McCarthy B, Collins C, **Zullo AR**. Closing the Pharmacy Sector's Skills Gap: The Solutions Training and Teamwork (STAT) Program's Approach to Workforce Development and Diversity Enhancement. (Submitted to *Am J Health Syst Pharm*).
- 197) Dow PM, George M, **Zullo AR**, Ritter AZ, Rahman M. Health Service Use and Mortality among Skilled Nursing Facility Residents by Opioid Use Disorder Status. (Submitted to *Am J Public Health*).
- 198) Sendhil SR, Cadarette SM, Aggarwal S, Berry SD, **Zullo AR**, Oganisian A, Hayes KN. Follow-on therapy after denosumab discontinuation among Medicare beneficiaries. (Submitted to *JAMA Network Open*).

- 199) Kayes KN, Sendhil SR, Aggarwal S, **Zullo AR**, Berry SD, Oganisian A, Adegboye M, Cadarette SM. Real-world differences in denosumab persistence, reinitiation, and switching among cohorts of older adults in Canada and the United States. (Submitted to *Plus J Bone Miner Res*).
- 200) Khan MA, Joyce NR, Pfeiffer MR, Riester MR, Ott BR, Oganisian A, Curry AE, Margolis SA, **Zullo AR**. Risk of Motor Vehicle Crash Among Older Adults with Depression by Antidepressant Subclass. (Submitted to *JAMA Psychiatry*).
- 201) Cheng Y, **Zullo AR**, Yin Y, Shao Y, Ahmed A, Liu S, Zeng-Treitler Q, Wu WC. Non-Prescription Magnesium Supplement Use and Risk of Heart Failure in Patients with Diabetes Mellitus: A Target Trial Emulation. (Submitted to *JAHA: Journal of the American Heart Association*).
- 202) Hayes KN, **Zullo AR**, Berry SD, Oganisian A, Aggarwal S, Adegboye M, Cadorette SM. Osteoporosis medication use over time in the United States and Canada. (Submitted to *Osteoporosis International*).
- 203) McAnena AP, **Zullo AR**, Joshi R, Daiello LA, Berry SD. High Anticholinergic Burden of Patients Hospitalized for Hip Fracture Reveals a Target for Deprescribing. (Submitted to *Journal of the American Geriatrics Society*)
- 204) Berry SD, Toles M, Travison TG, McConnell ES, **Zullo AR**, Little M, Gwyther L, McDermott CL, Lee R, Cary M, Syme M, Kissam S, Hecker E, MacLean KG, Colon-Emeric C. PReventing Injury in Skilled nursing facilities through optimizing Medications (PRISM), a protocol for a cluster randomized trial to reduce injurious falls in post-acute care. (Submitted to *Trials*)
- 205) Riester MR, Ryskina, KL, White EM, Hayes KN, Harris DA, **Zullo AR**. Approaches to identify nursing home specialists using Medicare claims data. (Submitted to *Medical Care*).
- 206) *Cupp MA, Hayes KN, Beaudoin FL, Riester MR, Berry SD, Joshi R, **Zullo AR**. Association between opioid use after hip fracture and one-year risk of subsequent hip fracture: a self-controlled case series analysis. (Submitted to *Pharmacoepidemiology and Drug Safety*).
- 207) Sawan MJ, Clough AJ, Hillen J, **Zullo AR**, Moga DC, Soulsby N, Gnjudic D. Variation in the potentially inappropriate use of antipsychotic and benzodiazepine medications in Australian long term care facilities. (Submitted to *International Journal of Pharmacy Practice*).

E. ABSTRACTS (SELECTED)

- 1) Hayes KN, **Zullo AR**, Berry SD, Oganisian A, Aggarwal S, Sendhil SR, Adegboye M, Cadarette SM. Denosumab discontinuation rates among older adults in the US versus Canada. [Abstract] Poster presentation, American Society for Bone and Mineral Research Annual Meeting, Toronto, Canada, September 27-30, 2024.
- 2) *Deng Y, Hayes KN, Zhao Y, Chachlani P, **Zullo AR**, Djibo DA, McMahill-Walraven CN, Mor V, Harris DA. Variation in the time to complete the primary COVID-19 vaccine series by race,

ethnicity, and geography among older US adult. [Abstract] Poster presentation, ISPE International Society for Pharmacoepidemiology Annual Meeting, Berlin, Germany, August 24-28, 2024.

- 3) *Stettenbauer EG, Berry SD, Lee Y, **Zullo AR**, Daiello LA. Evaluating Lecanemab Eligibility for Residents in Skilled Nursing Facilities with Alzheimer's Disease or Mild Cognitive Impairment, Abstract submitted to International Society for Pharmacoepidemiology (ISPE) Annual Meeting, Berlin, Germany, August 24-28, 2024.
- 4) Harris D, Chachlani P, Hayes KN, Mor V, **Zullo AR**. COVID-19 and influenza vaccine co-administration among older U.S. adults. Abstract submitted to International Society for Pharmacoepidemiology (ISPE) Annual Meeting, Berlin, Germany, August 24-28, 2024. Poster presentation.
- 5) Moyo P, Rahman M, Ritter AZ, **Zullo AR**, George M. Emerging issues in hospitalization for behavioral health. AcademyHealth Annual Research Meeting, Baltimore, MD. June 29 - July 2, 2024. Oral Presentation.
- 6) *Khan MA, Joyce NR, Pfeiffer MR, Margolis SA, Ott BR, Curry AE, Riester MR, **Zullo AR**. Comparative safety of antidepressants on motor-vehicle crash risk among older adults with depression: a sequential target trial emulation. Society of Epidemiologic Research (SER), Austin, Texas, June 18-21, 2024. Poster Presentation.
- 7) *Cupp MA., Berry SD., Hayes KN., Daiello L, Ko D, Riester, MR, and **Zullo AR**. Concurrent use of Cholinesterase Inhibitors and Beta-Blockers and Risk of Fall-Related Injury: a self-controlled case series analysis. International Society for Pharmacoepidemiology (ISPE) Mid-Year Meeting 2024, Orlando, FL. April 14-16, 2024. Oral Presentation.
- 8) Chambers LC, Hallowell BD, **Zullo AR**, Rodriguez M, Khan MA, Berk J, Gaither R, Beaudoin BL, Wightman RS. Risk of Overdose While Engaged in Buprenorphine Treatment for Opioid Use Disorder in the Fentanyl Era. Poster Submission, Rx and Illicit Drug Summit, April 1-4, 2024, Atlanta, Georgia. Poster Presentation.
- 9) Hayes KN, Aggarwal S, Adegboye M, **Zullo AR**, Berry SD, Oganisian A, Cheung AM, Cadarette SM. Differences in long-term bisphosphonate treatment between older adults in the United States and Canada. JBMR Plus, In press. American Society for Bone and Mineral Research Annual Meeting, Oct 13-16, 2023, Vancouver, Canada. Poster Presentation.
- 10) **Zullo AR**, Khan MA, Pfeiffer MR, Margolis SA, Ott BR, Curry AE, Joyce NR. Effect of non-benzodiazepine hypnotics on motor vehicle crashes among older adults: A Sequential Target Trial Emulation. International Society for Pharmacoepidemiology Conference, August 23-27, 2023. Halifax, Nova Scotia, Canada. Poster Presentation.
- 11) *Cupp MA, Hayes KN, Berry S, Riester M, Beaudoin F, Joshi R, **Zullo AR**. Opioid use after hip fracture and one-year risk of subsequent fracture: a self-controlled case series analysis.

Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Oral Presentation.

- 12) *Khan MA, Joyce NR, Pfeiffer MR, Margolis SA, Ott BR, Curry AE, Konieczny K, **Zullo AR**. Effect of non-benzodiazepine hypnotics on motor vehicle crashes among older adults. Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Poster Presentation.
- 13) *Shakya I, Joshi R, **Zullo AR**, Berry SD. Incidence of SGLT2I medication adverse events among older adults with multimorbidity. Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Poster Presentation.
- 14) Harris D, Hayes KN, Chachlani P, **Zullo AR**, Mor V, Gravenstein S. Comparative risk of adverse events following BNT162b2 and mRNA-1273 mRNA vaccination in 6.4 million US older adults: A difference in safety or early effectiveness? Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Poster Presentation.
- 15) Harris D, Hayes KN, Chachlani P, **Zullo AR**, Mor V, Gravenstein S. Comparative safety and early effectiveness of mRNA vaccines for SARS-CoV-2: Assessing potential effect modification by frailty. Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Poster Presentation
- 16) Hayes KN, Harris D, **Zullo AR**, Mor V, COVID-19 booster vaccination by race, ethnicity, and frailty among 11.3 million older Adults. Society for Epidemiologic Research Conference, June 13 – 16, 2023, Portland, OR. Poster Presentation.
- 17) Harris DA, Hayes KN, **Zullo AR**, Mor V. Comparative safety of BNT162b2 and mRNA-1273 vaccines across frailty subgroups among 6.4 million older adults. [Abstract] Poster presentation, American Geriatrics Society Annual Meeting, May 2023, Long Beach, United States.
- 18) *Silva JBB, Howe C, Jackson JW, Riester MR, Bardenheier BH, Xu L, Puckrein G, Van Aalst R, Loiacono MM, **Zullo AR**. Racial Disparities in Receipt of High-Dose Influenza Vaccine Among Older Adults in the United States. AcademyHealth Annual Research Meeting, June 24 – 27, 2023, Seattle, WA. Poster Presentation.
- 19) Harris D, Hayes KN, Chachlani P, **Zullo AR**, Mor V, Gravenstein S. Comparative Safety and Early Effectiveness of mRNA Vaccines for Sars-Cov-2: Assessing Variation By Frailty in 6.4 Million Older Adults. Abstract: AcademyHealth Annual Research Meeting, June 24 – 27, 2023, Seattle, WA. Poster Presentation.
- 20) *Silva JBB, Riester MR, Van Aalst R, Loiacono MM, **Zullo AR**. Nursing Home Specialty: Assessing Provider Antibiotic Prescribing Practices for Urinary Tract Infections and Pneumonia. Abstract selected for poster presentation. International Society for Pharmacoepidemiology Conference, August 23-27, 2023, Halifax, Nova Scotia, Canada.

- 21) *Silva JBB, Howe C, Jackson JW, Riester MR, Bardenheier BH, Xu L, Puckrein G, Van Aalst R, Loiacono MM, **Zullo AR**. High-Dose Influenza Vaccine Receipt: Geographic Variation in Racial Health Disparities. Abstract Selected for oral presentation. International Conference on Pharmacoepidemiology and Therapeutic Risk Management (ICPE 2023), August 23-27, 2023, Nova Scotia, Canada.
- 22) *Tat D, **Zullo AR**, Mor V, Hayes KN. Sliding Scale Insulin Use in Nursing Homes Before and After Onset of the COVID-19 Pandemic. Annual Scientific Meeting of the American Geriatrics Society, May 4 – 6 (pre-conference day: Wednesday, May 3) in Long Beach, CA. Poster Presentation.
- 23) *O'Neill ET, *Bosco E, Persico E, Silva JBB, Riester MR, Moyo P, van Aalst R, Loiacono MM, Chit A, Gravenstein S, **Zullo AR**. Correlation of long-term care facility vaccination practices between seasons and resident types. Population Association of America Annual Meeting, April 12-15, 2023. Abstract no. 1980.
- 24) *Cupp MA, Beaudoin F, Hayes KN, Riester M, Berry S, Joshi R, **Zullo AR**. Post-Acute Care Setting after Hip Fracture Hospitalization and Subsequent Opioid Use in Older Adults. Abstract selected for oral presentation, ISPE Mid-Year Meeting 2023, April, Reykjavik, Iceland.
- 25) Moyo P, Goodyear K, Jutkowitz E, Thomas K, **Zullo AR**. Discharge Locations after Hospitalizations Involving Opioid Use Disorder among Medicare Enrollees. [Abstract] The Gerontological Society of America Annual Scientific Meeting, November 2022, Indianapolis, IN.
- 26) Gantenberg J, van Aalst R, Diakun DR, Limone BL, Nelson CB, Savitz DA, **Zullo AR**. Healthcare Utilization During Acute Medically Attended Respiratory Syncytial Virus (RSV) Episodes among Infants in the United States. IDWeek, October 19-23, 2022. Abstract no. 1262760.
- 27) Sawan MJ, Clough AJ, Hillen J, **Zullo AR**, Moga DC, Gnjidic D. Variation in the potentially inappropriate use of antipsychotic medications in Australian long term care facilities. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark.
- 28) *Cupp MA, Beaudoin F, Joshi R, Riester M, Hayes KN, **Zullo AR**. One-year opioid use following discharge from post-acute care after hip fracture. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark.
- 29) Hayes KN, Riester MR, Zhang Y, Beaudoin F, **Zullo AR**. Administrations of pro re nata (PRN) analgesics among skilled nursing facility residents following a hip fracture. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark.

- 30) Zhang Y, Hayes KN, Lee Y, **Zullo AR**. Trends in COVID-19-related medication use in United States nursing homes. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark.
- 31) Hayes KN, *Cupp MA, Commey A, Joshi R, Beaudoin F, **Zullo AR**. Differences in opioid use after hip fracture by race and post-acute care use among U.S. older adults. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark. Podium/Oral Presentation. Abstract #1223378.
- 32) Hayes KN, Daiello LA, **Zullo AR**, Berry SD. Use of large-scale electronic health record data to examine precise antihypertensive medication exposures immediately before a fall among US nursing home residents. [Abstract] International Conference in Pharmacoepidemiology and Therapeutic Risk Management, Aug 2022, Copenhagen, Denmark.
- 33) *Silva JBB, Howe CJ, Jackson JW, Bardenheier BH, Riester MR, Van Aalst R, Loiacono MM, **Zullo AR**. Influenza Vaccine Uptake among United States Nursing Home Residents: Measuring Geographic variation in Racial Health Disparities . Abstract poster presentation at International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Copenhagen, Denmark. August 24-28, 2022.
- 34) *Silva JBB, Howe CJ, Jackson JW, Bardenheier BH, Riester MR, Van Aalst R, Loiacono MM, **Zullo AR**. Estimation of Racial Disparities in Influenza Vaccine Use among Nursing Home Residents. Society for Epidemiologic Research Annual Meeting, Chicago, IL. June 15-17, 2022. Abstract no. 125942. Poster Session 3.
- 35) *Silva JBB, Howe CJ, Jackson JW, Bardenheier BH, Riester MR, Van Aalst R, Loiacono MM, **Zullo AR**. Disparities in Influenza Vaccine Use in Nursing Homes by Marginalized Racial Group Status and Geography. AcademyHealth Annual Research Meeting, Washington, DC. June 4-7, 2022.
- 36) Konieczny K, Joyce NR, Khan MA, **Zullo AR**. The effect of non-benzodiazepine hypnotics on motor vehicle crashes among older adults. New England Residency Conference and CSHP Great Eight Conference, Virtual, May 26, 2022, Hartford, Connecticut, United States.
- 37) Hayes KN, Zhang T, Berry SD*, **Zullo AR***. Benefits and Harms of Standard versus Reduced-Dose Direct Oral Anticoagulants for Frail Older Adults. [Abstract] Poster presentation, US Deprescribing Research Network Annual Meeting, May 2022, Orlando, United States.
*Drs. Berry and Zullo contributed equally.
- 38) Riester MR, *Bosco E, Bardenheier B, Moyo P, Baier RR, Eliot M, **Zullo AR**. Potential Sources of Racial and Ethnic Disparities in Nursing Home Influenza Vaccination. Gerontological Society of America Annual Meeting, Virtual, November 10-13, 2021. Abstract no. 1028093.
- 39) *Bosco E, Beaudoin F, Gravenstein S, Mor V, **Zullo AR**. Postoperative Safety of Tramadol Among Older Adults Following Total Hip and Knee Arthroplasty. International Conference on

Pharmacoepidemiology and Therapeutic Risk Management, Virtual, August 23-25, 2021. Abstract no. SP12E. (Selected as *Geriatrics Spotlight Poster Winner*).

- 40) **Zullo AR**. Improving Cardiovascular Medication Deprescribing through Collaborative Practice. How Much is Too Much? Navigating Medication Overload by Medication Deprescribing. American College of Cardiology Annual Scientific Session and Expo, Virtual, May 15th, 2021.
- 41) Curry AE, Joyce N, Pfeiffer M, **Zullo AR**. Driver's License Suspension Policies: A Transportation-Related Source of Health Inequity. Society for Advancement of Violence and Injury Research 2020 Annual Conference, Philadelphia, PA, April 27-29, 2020. Abstract no. 208. Oral podium presentation.
- 42) D'Andrea E., Vinals L., Patorno E., Franklin J.M., Bennett, D., Largent, J.A., Moga D.C., Yuan H., Wen X., **Zullo AR**, Debray T.P.A., Sarri G. Tools for assessing the validity of non-randomized studies: a systematic review. Recommendations by the International Society for Pharmacoepidemiology Comparative Effectiveness Research Special Interest Group (CER SIG). International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Berlin, Germany, August 26-30, 2020.
- 43) McMahan AW, Gazarian M, Hak E, Kim D, **Zullo AR**. Description And Linkage Of Functional And Clinical Data Sets In Vulnerable Populations. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Berlin, Germany, August 26-30, 2020. Abstract no. 2020-SW-4155-ISPE.
- 44) *Bosco E, **Zullo AR**. Influenza Vaccination Among Frail Older Adults Receiving Post-Acute and Long-Term Care. International Society for Pharmacoepidemiology Mid-Year Meeting, Orlando, FL. April 18, 2020. Abstract no. 73. Oral podium presentation. Awarded 2020 ICPE Student Scholarship.
- 45) **Zullo AR**, Lee Y, Daiello L, Zhang T, Kiel DP, Berry SD. Comparative Effectiveness of Non-Oral Drug Treatments for Hip Fracture Prevention in Nursing Home Residents. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2020. Abstract no. 3303612 (P3). Oral podium presentation.
- 46) **Zullo AR**, Danko K, Adam G, Beaudoin F, Moyo P, Carr DB, Balk EM. Prevention, Diagnosis, and Management of Opioids, Opioid Misuse, and Opioid Use Disorder in Older Adults. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2020. Abstract no. 3309205 (B262). Presidential Poster Session B.
- 47) *Silva JBB, **Zullo AR**, Bosco E, Quilliam D, Gravenstein S. Adherence to CDC Chemoprophylaxis Guidelines and Self-Established Policies for Long-Term Care Facility Influenza Outbreak Control. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2020. Abstract no. 3344421 (D233). Presidential Poster Session.

- 48) Zhang T, **Zullo AR**, Daiello L, Shireman T, Wilson I, Berry S. Incidence rates of hip fracture in nursing home residents with and without HIV. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2020.
- 49) Lee DS, **Zullo AR**, Lee Y, Berry S. Discontinuation of Beta Blockers Among Nursing Home Residents at End of Life. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2021. Presidential Poster Session.
- 50) Krishnaswami A, Goyal P, **Zullo AR**, Orr N, Rich MW. Deprescribing Cardiovascular Medications in Older Adults: A Practical Approach. American Geriatrics Society Annual Meeting, Long Beach, CA. May 6, 2021. Abstract no. 3244539. Oral podium presentation.
- 51) Mintz J, Lee Y, **Zullo AR**, Berry S. Sample size trade-offs when identifying injurious falls using Medicare claims. American Geriatrics Society Annual Meeting, Long Beach, CA. May 7-9, 2020. Abstract no. 3352725 (B172). Presidential Poster Session.
- 52) Greene R, **Zullo AR**, Collins C. Incidence and Risk Factors for Propofol-Associated Hypertriglyceridemia. Society of Critical Care Medicine 49th Critical Care Congress, Orlando, FL. February 16-19, 2020. Abstract no. 900.
- 53) *Means H, **Zullo AR**, Collins C, Willis S. The impact of a penicillin delabeling pathway on care, clinical outcomes, and efficacy. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 54) *Ware L, **Zullo AR**, Collins C, Nagy J. Economic assessment of sugammadex use in the operating room. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 55) *Bendix KJ, Greene RA, **Zullo AR**, Collins C, Aliotta J. Safety and effectiveness of different anticoagulation strategies in critically ill patients with COVID-19. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 56) *Kohler B, Duprey M, **Zullo AR**, Collins C. Comparative Effectiveness of Dipeptidyl Peptidase-4 Inhibitors and Sulfonylureas among Frail Older Adults. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 57) *Lasorsa M, **Zullo AR**, Berry SD, Collins C. Comparative effects of antihypertensives on injurious falls in nursing home residents. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 58) *Abdelmeseh V, **Zullo AR**, Rogala B, Huynh JP, Berard-Collins C. Comparative cost savings of biosimilar and dose rounding utilization. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.

- 59) *Capuano AE, **Zullo AR**, Berry SD, Berard-Collins C. Development of a model to predict injurious falls in nursing home residents. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 60) *Dunton P, **Zullo AR**, Collins C, Whitehead S. Development of a risk-stratification tool for empiric anti-methicillin resistant staphylococcus aureus antibiotics from patient-specific risk factors in pneumonia. Vizient Pharmacy Network Virtual Meeting. December 1-3, 2020.
- 61) Joyce NR, **Zullo AR**, Wellenius G, Foss R, Metzger K, Curry A. The use of Quasi Induced Exposure to identify risk factors for motor vehicle crashes. 13th International Conference on Health Policy Statistics, San Diego, CA. January 6, 2020. Abstract no. 307893.
- 62) Joyce NR, Pfeiffer M, **Zullo AR**, Curry AE. Individual- and neighborhood-level variation in driver's license suspensions for non-driving-related offenses. American Public Health Association Annual Meeting, Philadelphia, PA. November 2-6, 2019. Abstract no. 433829. Oral podium presentation.
- 63) Zuern A, Wood M, **Zullo AR**, McAuliffe L. Standardization of transitions of care pharmacy education for COPD patients. American Society for Health System Pharmacists Annual Summer Meeting, Boston, MA. June 8-12, 2019. Abstract no. 22-T.
- 64) Lary C, Nevola K, Hinton A, Shireman T, Motyl K, Houseknecht K, Lucas L, Hallen S, **Zullo AR**, Berry S, Kiel D. Association of Beta Blocker Use and Bone Mineral Density using the Framingham Osteoporosis Study: Effects of Dose, Duration, and Drug. American Society for Bone and Mineral Research Annual Meeting, Orlando, FL. September 20-23, 2019. Abstract no. A19021050.
- 65) Panozzo CA, Jin R, Toh D, **Zullo AR**, Cocoros N. Patterns of Respiratory Syncytial Virus Disease Incidence in Commercial Claims Data Compared to National Respiratory and Enteric Virus Surveillance System Data, July 2012- June 2016. ID Week Annual Meeting, Washington, DC. October 2-6, 2019. Abstract no. 679221.
- 66) Lary CW, Nevola K, Hinton AC, Shireman TI, Motyl K, Houseknecht KL, Lucas FL, Hallen S, **Zullo AR**, Berry SD, Kiel DP. The Effect Of Beta Blocker Use On Bone Outcomes In The Framingham Osteoporosis Study. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Philadelphia, PA. August 24-28, 2019. Abstract no. 2019-A-6855-ISPE. Oral podium presentation.
- 67) *Bosco E, **Zullo AR**, McConeghy KW, Moyo P, van Aalst R, Chit A, Gravenstein S, Mor V. Variation In Vaccination For Respiratory Infections And Associated Outcomes Across Long-term Care Facilities. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Philadelphia, PA. August 24-28, 2019. Abstract no. 2019-A-5723-ISPE. Awarded 2019 ICPE Student Scholarship.

- 68) *Bosco E, **Zullo AR**, McConeghy KW, Moyo P, van Aalst R, Chit A, Mor V, Gravenstein S. Long-Term Care Facility Variation in the Incidence of Pneumonia and Influenza Hospitalizations. Gerontological Society of America Annual Scientific Meeting, Austin, TX. November 13-17, 2019. Abstract no. 643381. Oral podium presentation.
- 69) *Zuern A, *Wood M, **Zullo AR**, McAuliffe L, Collins C. Effect of a standardized pharmacist transitions of care intervention on chronic obstructive pulmonary disease outcomes. American College of Clinical Pharmacy Annual Meeting, New York, NY. October 28, 2019. Abstract no. 50439.
- 70) **Zullo AR**, McConeghy KW, Zhang T, Lee Y, Daiello LA, Mor V, Kiel DP, Berry SD. Predictors of Hip Fracture among Frail Older Adults Treated with Bisphosphonates. American Geriatrics Society Annual Meeting, Portland, OR. May 2, 2019. Abstract no. 3152121. Post ID B141.
- 71) Greene R, **Zullo AR**, Mailloux CM, Amass T. Impact of Best Practice Advisories on Sedation Protocol Compliance and Adverse Event Mitigation. Society of Critical Care Medicine 48th Critical Care Congress, San Diego, CA. February 18, 2019. Abstract no. 1294. (Selected for *Gold Snapshot Top Ten Scoring Abstract Award*)
- 72) Berry SD, **Zullo AR**, Zhang T, McConeghy KW, Daiello LA, Kiel DP. Studying Fractures in Nursing Home Residents Using Linked Datasets. Gerontological Society of America's 70th Annual Scientific Meeting, Boston, MA. November 14, 2018. Abstract no. 45907. Oral symposia presentation.
- 73) *Sine K, Lee Y, **Zullo AR**, Daiello LA, Zhang T, Berry SD. Incidence of Lower Extremity Fractures in U.S. Nursing Homes. Gerontological Society of America's 70th Annual Scientific Meeting, Boston, MA. November 16, 2018. Abstract no. 530803.
- 74) **Zullo AR**, Lee Y, Zhang T, McConeghy KW, Daiello LA, Kiel DP, Mor V, Berry SD. Effect of Bisphosphonates on Nonvertebral Fracture Among Older Nursing Home Residents. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Prague, Czech Republic. August 22, 2018. Abstract no. 2639. Oral Podium Presentation.
- 75) **Zullo AR**, Ofori-Asenso R, Steinman MA. Association of Statins With Functioning, Rehospitalization, and Mortality in Frail Older Adults. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Prague, Czech Republic. August 22, 2018. Abstract no. 2390. Oral Podium Presentation.
- 76) Sharmin S, **Zullo AR**, Daiello LA, Zhang T, Shireman TI. Drug- and Dose-Specific Effects of Sulfonylureas on Cognition and Physical Functioning in Older Nursing Home Residents. International Society for Pharmacoepidemiology Mid-Year Meeting, Toronto, Canada. April 23, 2018.

- 77) *Childs A, **Zullo AR**. Frequency of Respiratory Infections among Nursing Home Residents: A Semi-automated Systematic Review. International Society for Pharmacoepidemiology Mid-Year Meeting, Toronto, Canada. April 23, 2018.
- 78) McConeghy KW, **Zullo AR**, Van Aalst R, Chit A, Gravenstein S, Mor V. The National Burden of Pneumonia and Influenza in U.S. Nursing Homes, 2013-2015. ID Week, San Francisco, CA. October 3-7, 2018. Abstract no. 71713.
- 79) **Zullo AR**, Steinman MA. Effect of Statins for Secondary Prevention on Functioning, Rehospitalization, and Mortality in Frail Older Adults. American Geriatrics Society Annual Meeting, Orlando, FL. May 4, 2018. Paper no. P24. Oral Podium Presentation.
- 80) Scotina A, Gutman R, **Zullo AR**. Using Generalized Propensity Score Matching to Evaluate the Cardiovascular Safety of Multiple Type 2 Diabetes Treatments. International Society for Pharmacoepidemiology Mid-Year Meeting, Toronto, Canada. April 23, 2018. Oral Podium Presentation.
- 81) **Zullo AR**, Steinman MA. Relative and Absolute Effects of Statins for Secondary Prevention on Functioning, Rehospitalization, and Mortality in Frail Older Adults. International Society for Pharmacoepidemiology Mid-Year Meeting, Toronto, Canada. April 23, 2018. Abstract no. 41. Oral Podium Presentation.
- 82) **Zullo AR**, *Olean M, Berry SD, Lee Y, Steinman MA. Adverse Effects of Beta-Blockers in Older Nursing Home Residents after Myocardial Infarction. Asian Conference on Pharmacoepidemiology, Brisbane, Australia. October 30, 2017. Oral Podium Presentation.
- 83) Nolan K, **Zullo AR**, Bosco E, Marchese C, Berard-Collins C. Controlled Substance Diversion in Health Systems: Failure Mode and Effects Analysis for Prevention. American Society of Health-System Pharmacy Midyear Clinical Meeting, Orlando, FL. December 4, 2017. Abstract no. 334998.
- 84) *Olean MS, **Zullo AR**, Berry SD, Lee Y, Steinman MA. Adverse effects of beta-blockers in older nursing home residents after acute myocardial infarction. American Society of Health-System Pharmacy Midyear Clinical Meeting, Orlando, FL. December 5, 2017. Abstract no. 389708.
- 85) *Previte M, **Zullo AR**, Beaulieu J, Collins C. Patterns of sugammadex use for the reversal of short-acting non-depolarizing neuromuscular blocking agents. American Society of Health-System Pharmacy Midyear Clinical Meeting, Orlando, FL. December 5, 2017. Abstract no. 396876.
- 86) *Ortega A, **Zullo AR**, Huynh JP, Brunault R, Berard-Collins C. Discontinuation of medications after advanced cancer diagnosis in older nursing home residents. Vizient University Health System Consortium Meeting, Orlando, FL. December 2, 2017.

- 87) *Corsi K, **Zullo AR**, Mogul A, Dapaah-Afriyie R, Collins C. Subgroup effects of secondary prevention medication use among older nursing home residents after acute myocardial infarction. Vizion University Health System Consortium Meeting, Orlando, FL. December 2, 2017.
- 88) *Mogul A, **Zullo AR**, Corsi K, Dapaah-Afriyie R, Collins C. Effect of secondary prevention medication use on functional outcomes, death, and rehospitalization in older nursing home residents after acute myocardial infarction. Vizion University Health System Consortium Meeting, Orlando, FL. December 2, 2017.
- 89) *Shangani S, Operario O, **Zullo AR**, Howe C. Prevalence and predictors of concurrent sexual partnerships among sexually active men in Kenya. American Public Health Association Annual Meeting, Atlanta, Georgia. November 6, 2017.
- 90) **Zullo AR**, Dahabreh IJ, Nelson J, Kent DM, Crown WH, Shah ND, Inker LA. "Comparative Effectiveness of Angiotensin Converting Enzyme Inhibitors and Angiotensin Receptor Blockers among Chronic Kidney Disease Patients". International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada. August 2017. Oral Podium Presentation.
- 91) Dahabreh IJ, Nelson J, **Zullo AR**, Crown WH, Shah ND, Inker LA. "Emulating a Multi-Arm Randomized Controlled Trial of Antihypertensive Treatments for Chronic Kidney Disease Using Observational Data: How Do the Results Compare with Network Meta-Analysis?" International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada. August 2017. Oral Podium Presentation.
- 92) **Zullo AR**, Sharmin S, Daiello LA, Zhang T, Shireman TI. "Dose- and Drug-Specific Effects of Sulfonylureas on Hypoglycemia and Cardiovascular Events in Older Nursing Home Residents". International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada. August 2017. Oral Podium Presentation.
- 93) **Zullo AR**, Hersey M, Sharmin S, Bosco E, Daiello LA, Lee Y, Boscardin WJ, Dore DD, Lee SJ, Steinman MA. "Type of Beta-Blocker Use by Diabetes Status and Associated Outcomes in Older Nursing Home Residents after Acute Myocardial Infarction". International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada. August 2017. Oral Podium Presentation.
- 94) **Zullo AR**, Smith RJ, Gutman R, Mor V, Dore DD. "Comparative Safety of Dipeptidyl Peptidase-4 Inhibitors and Sulfonylureas in Older Nursing Home Residents". American Geriatrics Society Annual Meeting, San Antonio, TX. May 2017. Oral Podium Presentation.
- 95) **Zullo AR**, Smith RJ, Gutman R, Mor V, Dore DD. "The Effect of Dipeptidyl Peptidase-4 Inhibitors versus Sulfonylureas on Cognition and Physical Functioning in Frail Older Nursing Home Residents". International Society for Pharmacoepidemiology Mid-Year Meeting, London, UK. April 2017. Oral Podium Presentation.

- 96) **Zullo AR**, Lee Y, Daiello L, Mor V, Boscardin WJ, Steinman MA. "Effect of Beta Blocker Use on Daily Functioning, Rehospitalization, and Death after Myocardial Infarction Among Older Nursing Home Residents". AcademyHealth Annual Meeting, Boston, MA. June 2016. Oral Podium Presentation.
- 97) **Zullo AR**, Lee Y, Daiello L, Mor V, Boscardin WJ, Steinman MA. "Effect of Beta Blocker Use on Daily Functioning, Rehospitalization, and Death after Myocardial Infarction Among Older Nursing Home Residents". American Geriatrics Society Annual Meeting, Long Beach, CA. May 2016. Oral Podium Presentation.
- 98) **Zullo AR**, Lee Y, Mor V, Daiello L, Komaiko K, Boscardin WJ, Steinman MA. "Beta Blocker Use among United States Nursing Home Residents after Myocardial Infarction: A National Study". American Geriatrics Society Annual Meeting, National Harbor, MD. May 2015. Oral Podium Presentation.
- 99) **Zullo AR**, Kiel DP, Berry SD. Effect of Bisphosphonates on Nonvertebral Fracture among Older Nursing Home Residents. American Geriatrics Society Annual Meeting, Orlando, FL. May 4, 2017. Abstract no. 289280.
- 100) Amir O, Zhang T, **Zullo AR**, Kiel DP, Berry SD. Incidence of hip fracture in Native American residents of U.S. nursing homes. American Geriatrics Society Annual Meeting, Orlando, FL. May 4, 2017. Abstract no. 2923112.
- 101) Zhang T, **Zullo AR**, Shireman T. Temporal trends in age and function for newly admitted long-stay nursing home residents with multiple sclerosis. American Geriatrics Society Annual Meeting, Orlando, FL. May 4, 2017.
- 102) Zhang T, Liu Q, Daiello L, **Zullo AR**, Lee Y, Mor V, McConeghy KW, Kiel DP, Berry SD. Prescription drug burden and hip fracture risk in nursing home residents. American Geriatrics Society Annual Meeting, Orlando, FL. May 4, 2017.
- 103) Berry SD, **Zullo AR**, Zhang T, Lee Y, Banerjee G, Daiello L, McConeghy K, Dosa D, Mor V, Kiel DP. Bisphosphonate Prescriptions May Reduce Fracture Risk in Older Nursing Home (NH) Residents. American Society for Bone and Mineral Research, Denver, CO. September 2017.
- 104) Sharmin S, **Zullo AR**, Daiello LA, Zhang T, Shireman TI. Dose- and Drug-Specific Effects of Sulfonylureas on Hypoglycemia and Cardiovascular Events in Older Nursing Home Residents. Brown University Public Health Research Day, Providence, RI. April 2017.
- 105) Brunault R, **Zullo AR**, Huynh JP, Liauw JC, Berard-Collins C. Managing diabetes mellitus in nursing home residents with advanced cancer: a national study. Brown University Public Health Research Day, Providence, RI. April 2017.

- 106) **Zullo AR**, Beaulieu J, Berard-Collins C. Effect of drug shortage mitigation strategies on time to ampicillin/sulbactam administration. American Society for Health-system Pharmacists Midyear Clinical Meeting, Las Vegas, NV. December 2016.
- 107) Mahmoud L, **Zullo AR**, Fehnel CR, Thompson BB, Wendell L. Age-specific effects of an analgesia and sedation protocol in neurocritical care patients. American Society for Health-system Pharmacists Midyear Clinical Meeting, Las Vegas, NV. December 2016.
- 108) Greene R, **Zullo AR**, Berard-Collins C. Effect of pharmacist interventions on drug cost savings in a collaborative, unit-based practice model. American Society for Health-system Pharmacists Midyear Clinical Meeting, Las Vegas, NV. December 2016.
- 109) Adams J, Howe C, **Zullo AR**, Marshall BDL, Akilah K. Estimating the Impact of Intervening on Adolescent Binge Drinking on Neighborhood-based Disparities in HIV/STI Prevalence: A Causal Mediation Analysis, Society for Adolescent Medicine, New Orleans, LA. March 2017.
- 110) **Zullo AR**, Dore DD, Daiello L, Baier RR, Gutman R, Gifford DR, Smith RJ. National Trends in Treatment Initiation for Nursing Home Residents with Diabetes Mellitus, 2008-2010, Lifespan Research Celebration Day, Providence, RI. October 2016.
- 111) **Zullo AR**, Dore DD, Gutman R, Mor V, Smith RJ. Food and Drug Administration Warnings and Diabetes Medication Prescribing Patterns for Older Nursing Home Residents, Lifespan Research Celebration Day, Providence, RI. October 2016.
- 112) **Zullo AR**, Lee Y, Daiello L, Mor V, Boscardin WJ, Steinman M. Effect of Beta Blocker Use on Daily Functioning, Rehospitalization, and Death after Myocardial Infarction Among Older Nursing Home Residents, Lifespan Research Celebration Day, Providence, RI. October 2016.
- 113) *Hersey ML, **Zullo AR**, Lee Y, Sharmin S, Bosco E, Mor V, Steinman MA. Type of Beta-Blocker Use by Diabetes Status in Nursing Home Residents after Myocardial Infarction. Lifespan Research Celebration Day, Providence, RI. October 2016.
- 114) Berry SD, Lee Y, **Zullo AR**, Mor V, Banerjee G, McConeghy K, D'Agostino RA, Hiris J, Kiel DP. Fracture Risk Assessment In Long-term care: FRAIL. American Society for Bone and Mineral Research Annual Meeting, Atlanta, GA. September 2016.
- 115) **Zullo AR**, Dore DD, Gutman R, Mor V, Smith RJ. Selection of Sulfonylureas over Metformin in Elderly Nursing Home Residents with Diabetes Mellitus. International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Dublin, Ireland. August 2016.
- 116) *Ganley KY, **Zullo AR**, Sosa-Rubi SG, Conde-Glez CJ, Lurie MN, Marshall BDL, Operario D, Mayer KH, Galarraga O. Incidence and Time-Varying Predictors of HIV and Sexually Transmitted Infections (STIs) Among Male Sex Workers in Mexico City. International AIDS Conference (AIDS 2016), Durban, South Africa. July 2016.

- 117) **Zullo AR**, Dore DD, Daiello L, Baier RR, Gutman R, Gifford DR, Smith RJ. National Trends in Treatment Initiation for Nursing Home Residents with Diabetes Mellitus, 2008-2010. AcademyHealth Annual Research Meeting, Boston, MA. June 2016.
- 118) **Zullo AR**, Dore DD, Daiello L, Baier RR, Gutman R, Gifford DR, Smith RJ. Patterns of Treatment Initiation for Nursing Home Residents with Diabetes Mellitus, 2008-2010. American Diabetes Association Scientific Sessions, New Orleans, LA. June 2016. Selected for moderated poster discussion *Epidemiology of Diabetes – What’s New?*
- 119) *McAuliffe L, **Zullo AR**, Petrillo S, Dapaah-Afryie R, Berard-Collins C. Development of a transitions of care pharmacist tool to predict 30-day rehospitalization. American Society of Health-system Pharmacy Summer Meeting, Baltimore, MD. June 2016
- 120) *Ganley KY, **Zullo AR**, Sosa-Rubi SG, Conde-Glez CJ, Lurie MN, Marshall BDL, Operario D, Mayer KH, Galarraga O. Incidence and Time-Varying Predictors of HIV and Sexually Transmitted Infections (STIs) Among Male Sex Workers in Mexico City. HIV and Hepatitis in the Americas, Mexico City, Mexico. April 2016. (Selected for *Brown University International Affairs Undergraduate Student Fund Award*).
- 121) Mahmoud LN, **Zullo AR**, Potter NS, Fehnel CR, Thompson BB, Wendell LC. Effect of an Analgesia and Sedation Protocol in Neurocritical Care Patients. American Academy of Neurology Annual Meeting, Vancouver, BC, Canada. April 2016.
- 122) Bunnell K, **Zullo AR**, Adams C, Berard-Collins C. Methicillin-Resistant Staphylococcus Aureus Pneumonia in Critically Ill Trauma Patients. Society of Critical Care Medicine Annual Congress, Orlando, FL. February 2016.
- 123) *Yankulina O, **Zullo AR**, Huynh JP, Berard-Collins CM. Retrospective Analysis of the Association Between Pertuzumab and Diarrhea in HER2-Positive Breast Cancer Patients. University Health System Consortium Conference, Orlando, FL. December 2015.
- 124) *Hunt L, **Zullo AR**, Berard-Collins CM, Petrillo S, Dapaah-Afryie R. Identification of Pharmacy Transitions of Care Patients at Highest Risk of 30-day Hospital Readmission. University Health System Consortium Conference, Orlando, FL. December 2015.
- 125) Berry SD, **Zullo AR**, Lee Y, Mor V, D’Agostino R, Dosa D, Hiris J, Banerjee G, Kiel DP. A Useful Clinical Model to Predict Hip Fracture in U.S. Nursing Home (NH) Residents: the first step in developing a screening tool in the nursing home. American Society for Bone and Mineral Research Annual Meeting, Seattle, WA. October 2015.
- 126) Mahmoud L, **Zullo AR**, McKaig D, Berard-Collins CM. Concordance between aPTT and anti-Xa monitoring methods for Unfractionated Heparin in a hospitalized population: an exploratory cohort study. 23rd Lifespan Research Symposium, Providence, RI. September 2015.

- 127) *Lou U, **Zullo AR**, Cabral SE, Collins C. Adherence to pegfilgrastim primary prophylaxis guidelines in current practice. Eastern States Conference for Pharmacy Residents and Preceptors, Hershey, PA. May 2015. (Selected for *Best Research Poster Award*).
- 128) *Ganley K, **Zullo AR**, Li E, Sosa-Rubí SG, Galárraga O. Socioeconomic Status and Return to Clinic Among Male Sex Workers in Mexico City. Brown University Public Health Research Day, Providence, RI. April 2015.
- 129) *Caine K, **Zullo AR**, Li E, Sosa-Rubí SG, Galárraga O. The Effect of Economic Interventions on HIV Treatments and Prevention: A Systematic Review. Brown University Public Health Research Day, Providence, RI. April 2015. (Selected as runner-up for *Best Undergraduate Research Poster Award*).
- 130) *Lou U, **Zullo AR**, Cabral SE, Elsaid K, Collins C. Adherence to pegfilgrastim primary prophylaxis guidelines in current practice. Brown University Public Health Research Day, Providence, RI. April 2015.
- 131) *Fudin H, **Zullo AR**, Migliozi DR, Elsaid K, Collins C, Dapaah-Afriyie RB. Engaging renal transplant patients in home electronic blood pressure monitoring: an exploratory qualitative study. Brown University Public Health Research Day, Providence, RI. April 2015.
- 132) *Weeden N, **Zullo AR**, Li Q, Sosa-Rubí SG, Galárraga O. Socioeconomic status and CD4 count among male sex workers at high risk of contracting HIV. Brown University Public Health Research Day, Providence, RI. April 2015.
- 133) **Zullo AR**, Howe C. Estimating the effect of health insurance on personal prescription drug importation in various subpopulations using complex survey data and marginal structural models. Society for Epidemiologic Research Annual Meeting, Denver, CO. June 2015.
- 134) Berry SD, **Zullo AR**, Lee Y, Kiel D, Dosa D, Mor V. Incidence of hip fracture in U.S. nursing homes. American Geriatrics Society (AGS) Annual Meeting, National Harbor, MD. May 2015.
- 135) **Zullo AR**, Howe C. Estimating the effect of health insurance on personal prescription drug importation in various subpopulations using complex survey data and marginal structural models. Brown University Public Health Research Day, Providence, RI. April 2015.
- 136) *Postman C, Li E, **Zullo AR**, Sosa-Rubí SG, Galárraga O. Socioeconomic status and access to health care among men-who-have-sex-with-men at high risk of HIV acquisition. Brown University Public Health Research Day, Providence, RI. April 2015.
- 137) *Lou U, **Zullo AR**, Elsaid K, Cabral SE, Collins C. Adherence to pegfilgrastim primary prophylaxis guidelines in current practice: a multi-center cohort study. University Health System Consortium Conference, Anaheim, CA. December 2014.

- 138) *Fudin H, Migliozi D, **Zullo AR**, Elsaid K, Collins C, Dapaah-Afriyie RB. Engaging renal transplant patients in home electronic blood pressure monitoring: an exploratory qualitative study. University Health System Consortium Conference, Anaheim, CA. December 2014.
- 139) Migliozi D, **Zullo AR**, Elsaid K, Collins C. Evaluation of Integrated Clinical Pharmacy Services and Home Electronic Blood Pressure Monitoring in Renal Transplantation: Preliminary Results of a Single-Center Cohort Study. 22nd Lifespan Research Symposium, Providence RI. October 2014.
- 140) Migliozi D, **Zullo AR**, Elsaid K, Collins C. The Effect of Integrated Clinical Pharmacy Services and Home Electronic Blood Pressure Monitoring on Blood Pressure Among Renal Transplant Recipients. 22nd Lifespan Research Symposium, Providence, RI. October 2014.
- 141) **Zullo AR**, Dore DD, Galarraga O. Development and Validation of a Prescription Drug Importation Index. 22nd Lifespan Research Symposium, Providence, RI. October 2014.
- 142) Rocafort PT, **Zullo AR**, Haines ST, Lebovitz L. Characteristics of Performance Assessment and Feedback: Variation in Faculty Perception by Duration of Academic Employment. American Association of Colleges of Pharmacy, Grapevine, TX. July 2014.
- 143) **Zullo AR**, Dore D, Rocafort PT, Galarraga O, Mor V. Predictors of Prescription Drug Importation and Development of an Importation Risk Score. Brown University Public Health Research Day, Providence, RI. April 2014.
- 144) **Zullo AR**, Krishnaswamy N, Dore D. A Systematic Review of the Adverse Effects of Atypical Antipsychotics in the Elderly Population. 29th International Conference on Pharmacoepidemiology and Therapeutic Risk Management, Montreal, Canada. August 2013.
- 145) **Zullo AR**, Krishnaswamy N, Dore D. A Systematic Review of the Adverse Effects of Atypical Antipsychotics in the Elderly Population. Brown University Public Health Research Day, Providence, RI. April 2013.
- 146) **Zullo AR**, Amin P. Political advocacy training in Doctor of Pharmacy curricula: a quantitative assessment and analysis of educational need. American Society of Health-System Pharmacists Annual Meeting, New Orleans, LA. December 2011.
- 147) **Zullo AR**, Amin P, Cintron N. Assessment of the impact of the historical Rutgers University Big Brother Big Sister Pharmacy Mentoring Program on student pharmacy professionals. American Society of Health-System Pharmacists Annual Meeting, Anaheim, CA. December 2010.

F. ACCEPTED & SUBMITTED ABSTRACTS

- 148) McCreedy E, DeVone F, Gozalo P, Gravenstein S, **Zullo AR**, Daus M, Magid K, Jones CD. Outcomes Among Medicare-Enrolled Veterans Requiring Home Health after Hospitalization:

Differences By Payor Source. AcademyHealth Annual Research Meeting, June 7-10, 2025, Minneapolis, MN. Abstract no. 71437.

- 149) Benheim TS, Rahman M, **Zullo AR**, Ritter AZ, Kimmel SD, Dow PM. Hospital-Skilled Nursing Facility Dynamics in Post-Acute Care Access for People with Opioid Use Disorder. AcademyHealth Annual Research Meeting, June 7-10, 2025, Minneapolis, MN, United States. Abstract no. 72412.
- 150) *Sendhil SR, Cadarette SM, Aggarwal S, Adegboye M, **Zullo AR**, Berry S, Hayes K. Zoledronic acid seldom used compared to other osteoporosis therapies after denosumab discontinuation among Medicare beneficiaries. American Geriatrics Society Annual Meeting, May 8-10, 2025, Chicago, IL. Abstract no. 4229883.
- 151) Khan MA, Joyce NR, Pfeiffer MR, Riester MR, Ott BR, Oganisian A, Curry AE, Margolis SA, **Zullo AR**. Effects of Initiating Different Antidepressant Subclasses on Motor Vehicle Crash Risk Among Older Adults with Depression. American Geriatrics Society Annual Meeting, May 8-10, 2025, Chicago, IL. Abstract no. 4246486.
- 152) Harrell E, **Zullo AR**, Babulal G, Hill L, Tsow, Lodha N, Forzani E. Safe Driving in Older Adults. AAA Foundation for Traffic Safety Safe Mobility Conference, April 7-9, 2025, Madison, WI.

G. INVITED ACADEMIC PRESENTATIONS

International

- 1) Hayes KN, **Zullo AR**. Methodological guidance for real world evidence to assess the effects of deprescribing. Workshop/Symposium, 2024 International Society of Pharmacoepidemiology Annual Meeting, Berlin, Germany. August 26, 2024.
- 2) **Zullo AR**. Measuring Medication Burden. US Deprescribing Research Network (USDeN)/AGING Networks, Virtual. July 14, 2021.
- 3) **Zullo AR**. At the intersection of frailty and pharmacoepidemiology: Foundations, applications, and future directions. International Society for Pharmacoepidemiology All-Access (replacement for prior in-person Mid-Year Meeting in Orlando, FL. April 18-21, 2020), Virtual, December 8, 2020.
- 4) **Zullo AR**. Biostatistics and Research Design for Clinical Pharmacists. Kwame Nkrumah University of Science and Technology, School of Pharmacy, Kumasi, Ghana. March 27-28, 2019.
- 5) **Zullo AR**. Biostatistics and Research Design for Clinical Pharmacists. Kwame Nkrumah University of Science and Technology, School of Pharmacy, Accra, Ghana. March 25-26, 2019.

- 6) **Zullo AR.** Biostatistics and Research Design for Clinical Pharmacists. Kwame Nkrumah University of Science and Technology, School of Pharmacy, Accra, Ghana. March 27, 2018.
- 7) **Zullo AR.** Biostatistics and Research Design for Clinical Pharmacists. Kwame Nkrumah University of Science and Technology, School of Pharmacy, Kumasi, Ghana. March 29, 2018.
- 8) **Zullo AR,** Moga DC, Gnjjidic D, Wei J, Lapane K. Methodological Challenges and Opportunities of Conducting Pharmacoepidemiologic Research in Medically Complex Populations: The Case of Nursing Homes. International Conference on Pharmacoepidemiology and Therapeutic Risk Management Symposium, Montreal, Canada. August 28, 2017.

National

- 9) **Zullo AR.** Z-Drugs and Police-Reported Motor Vehicle Crash Risk among Older Adults. Johns Hopkins University, Center for Drug Safety and Effectiveness, Baltimore, MD. January 13, 2025.
- 10) **Zullo AR.** Z-Drugs and Police-Reported Motor Vehicle Crash Risk among Older Adults. Yale School of Medicine, New Haven, CT. June 5, 2024.
- 11) **Zullo AR.** Non-benzodiazepine Hypnotics and Police-Reported Vehicle Crash Risk among Older Adults. University of New England, Center for Excellence in Aging and Health & School of Pharmacy, Portland, ME. May 16, 2024.
- 12) **Zullo AR.** Fireside Chat on “The First Five Years: Building your Research Shop”, US Deprescribing Research Network (USDeN) Annual Meeting, Junior Investigator Intensive Program, Boston, MA. May 14, 2024.
- 13) **Zullo AR.** Clinically Significant Drug Interactions among Nursing Home Residents with ADRD. NIA Workshop: Optimizing Older Adult Care through the Use of Electronic Health Records, Virtual. February 23, 2024.
- 14) **Zullo AR.** Medications and Motor Vehicle Crashes in Older Adults. Finger Lakes Geriatric Education Center of Upstate New York and the Geriatric/Aging Division of the University of Rochester, Community-Wide Geriatric Medicine Grand Rounds, Virtual. September 14, 2022.
- 15) **Zullo AR.** Medications and Motor Vehicle Crashes in Older Adults. Hebrew SeniorLife Hinda and Arthur Marcus Institute for Aging Research, Musculoskeletal Research Center, Virtual. June 29, 2022.
- 16) **Zullo AR.** Medications and Motor Vehicle Crashes in Older Adults. University of North Carolina at Chapel Hill Division of Geriatric Medicine and Center for Aging and Health, Virtual. June 6, 2022.

- 17) **Zullo AR.** Deprescribing Cardiovascular Medications: Embedding Interventions in Routine Clinical Practice. American Society of Consultant Pharmacists, San Diego, CA. November 4-7, 2021.
- 18) **Zullo AR.** Pharmacist Tools for Managing Medication Adherence and Addressing Polypharmacy. National Heart, Lung, and Blood Institute Workshop on Improving Heart Failure Care for Older Adults: Gaps and Strategies to Optimize Care Transitions, Virtual. September 27-28, 2021.
- 19) **Zullo AR.** Data linkage to study medication use during post-acute care in skilled nursing facilities among Medicare beneficiaries. Veterans Affairs Geriatrics and Extended Care Data Analysis Center Seminar, Virtual. September 15, 2020.
- 20) **Zullo AR.** Drawing Causal Inference from Observational Data: Application to Bisphosphonates and Fracture. Maine Medical Center, Center for Outcomes Research and Evaluation (CORE) Research Forum, Portland, ME. October 10, 2018.
- 21) **Zullo AR.** Diabetes Research Using CMS Data Sources. National Institutes of Health, Diabetes Mellitus Interagency Coordinating Committee Meeting on Fostering Research on Older Adults with Diabetes Receiving Long-term Care, Bethesda, MD. May 29, 2018.
- 22) **Zullo AR.** Drawing Causal Inference from Observational Data on Frail, Older Adults. Institute for Aging Research in Progress Seminar, Hebrew Senior Life (affiliate of Harvard Medical School), Boston, MA. May 16, 2018.
- 23) **Zullo AR.** "Using Rapid-cycle Research to Inform Pharmacy Decision-making". Parkland Hospital/Texas Tech University Health Sciences Center School of Pharmacy. Pharmacy Grand Rounds, Dallas, TX. October 2016.

Local/Regional

- 24) **Zullo AR.** Potentially Dangerous Drugs in Older Adults. Brown University Inter-Session NIA T32 Training Workshop, Providence, RI. June 4, 2024.
- 25) **Zullo AR.** Data linkage to study medication use during post-acute care in skilled nursing facilities among Medicare beneficiaries. COBRE Center on Opioids and Overdose (P20GM125507) Seminar, Providence, RI. June 2021.
- 26) **Zullo AR.** Variation in Propensity Score-Adjusted Estimates of Treatment Effects: Sulfonylureas versus Dipeptidyl Peptidase-4 Inhibitors for Diabetes as a Case Study. Brown University Women's Reproductive Health Research Career Development Program K Award Seminar, Providence, RI. October 2016.

- 27) **Zullo AR.** Estimating Predicted Probabilities from Logistic Regression: Different Methods Correspond to Different Target Populations. Brown University K12 Center for Evidence Synthesis in Health Seminar, Providence, RI. September 2016.
- 28) **Zullo AR.** Selection of Sulfonylureas over Metformin in Older Nursing Home Residents. Brown University Pharmacoepidemiology Core, Providence, RI. August 2016.
- 29) **Zullo AR.** Estimating and Modeling Cost Data Using Generalized Gamma Regression: A Primer. Brown University K12 Center for Evidence Synthesis in Health Seminar, Providence, RI. June 2016.
- 30) **Zullo AR.** Effect of Beta Blocker Use on Daily Functioning, Rehospitalization, and Death after Myocardial Infarction among Older Nursing Home Residents. Brown University Pharmacoepidemiology Core, Providence, RI. May 2016.
- 31) **Zullo AR, Daiello L.** Effect of Beta Blocker Use on Daily Functioning, Rehospitalization, and Death after Myocardial Infarction Among Older Nursing Home Residents. Brown University Pharmacoepidemiology Core, Providence, RI. February 2016.
- 32) **Zullo AR.** National Trends in Treatment Initiation for Nursing Home Residents with Type 2 Diabetes Mellitus, 2008-2010. Brown University Pharmacoepidemiology Core, Providence, RI. November 2015.
- 33) **Zullo AR.** National Trends in Initiation of Diabetes Medications in the Nursing Home and Current Best Practices for Prescribing. Rhode Island Hospital Department of Pharmacy Seminar, Providence, RI. November 2015.
- 34) **Zullo AR.** What's the Risk? A Simple Approach for Estimating Adjusted Risk Measures from Nonlinear Models Including Logistic Regression. Brown University Center for Evidence-based Medicine Seminar, Providence, RI. September 2015.
- 35) **Zullo AR.** Beta Blockers Use among United States Nursing Home Residents after Myocardial Infarction: A National Study. Rhode Island Hospital Department of Pharmacy Seminar, Providence, RI. May 2015.
- 36) **Zullo AR.** Pharmaceutical Contamination of Drinking Water: Methodological Challenges to Human Health Risk Assessment. Brown University School of Public Health PhD Student Seminar, Providence, RI. December 2013.

H. OTHER INVITED PRESENTATIONS

- 37) **Zullo AR.** Ingenol Mebutate for Treatment of Actinic Keratosis. Horizon Blue Cross/Blue Shield of New Jersey, Newark, NJ. April 2012.

- 38) **Zullo AR**. Pharmacogenomics of Warfarin in the Egyptian Patient Population. Princeton University Medical Center, Princeton, NJ. February 2012.
- 39) **Zullo AR**, Wang S, Haddad S. Influenza and Pneumococcal Vaccinations for Primary Prevention. Princeton University Medical Center, Princeton, NJ. February 2012.
- 40) **Zullo AR**. Methicillin Susceptible *Staphylococcus aureus* Bacteremia and Endocarditis in IV Drug Users. Princeton University Medical Center, Princeton, NJ. February 2012.
- 41) **Zullo AR**. Apixaban versus Enoxaparin for Thromboprophylaxis in Medically Ill Patients. Princeton University Medical Center, Princeton, NJ. February 2012.
- 42) **Zullo AR**. Apnea of Prematurity: Comparative Effectiveness of Caffeine Citrate and Aminophylline. Jersey Shore University Medical Center, Neptune, NJ. December 2011.
- 43) **Zullo AR**. Treatment of Community Acquired Pneumonia in Pediatric Patients. Jersey Shore University Medical Center, Neptune, NJ. December 2011.
- 44) **Zullo AR**. Remifentanyl and Propofol for Weaning of Mechanically Ventilated Pediatric Intensive Care Unit Patients. Jersey Shore University Medical Center, Neptune, NJ. November 2011.
- 45) **Zullo AR**, Vo J. Sexually Transmitted Diseases: Key Guideline Updates Affecting Navajo Nation. Indian Health Services—Kayenta Health Center, Kayenta, AZ. November 2011.
- 46) **Zullo AR**, Chen J. Medical and Pharmaceutical Management of Angiotensin Converting Enzyme Inhibitor-Induced Angioedema. Robert Wood Johnson University Hospital, Hamilton, NJ. October 2011.
- 47) **Zullo AR**, Chen J. Falls Prevention Strategies in Elderly Patients. Robert Wood Johnson University Hospital. Hamilton, NJ. October 2011.
- 48) **Zullo AR**, Chen J. Proper Medication Disposal Practices and Environmental Implications. Robert Wood Johnson University Hospital, Hamilton, NJ. September 2011.
- 49) **Zullo AR**. Predictors of New-Onset Diabetes in Patients Treated with Atorvastatin. CVS Caremark Headquarters Clinical Operations Team, Woonsocket, RI. June 2011.
- 50) **Zullo AR**. Leukotriene Antagonists as First-Line or Add-On Asthma-Controller Therapy. CVS Caremark Headquarters Clinical Operations Team, Woonsocket, RI. June 2011.
- 51) **Zullo AR**. Olmesartan for the Delay or Prevention of Microalbuminuria in Type 2 Diabetes. CVS Caremark Headquarters Clinical Operations Team. Woonsocket, RI. May 2011.

I. PROFESSIONAL PUBLICATIONS

- 1) Lown Institute with acknowledgement to **Zullo AR**. Medication Overload: America's Other Drug Problem. Available from: <https://lowninstitute.org/>.
- 2) World Health Organization (WHO) with acknowledgement to Systematic Review team members Balk EM, Adam GP, Di M, Kimmel HJ, Olean M, Roydhouse JK, Smith B, **Zullo AR** (listed alphabetically). WHO Guidelines for the pharmacological and radiotherapeutic management of cancer pain in adults and adolescents. Available from: <http://www.who.int/iris/handle/10665/279700> and <https://www.ncbi.nlm.nih.gov/books/NBK537486/>. License: CC BY-NC-SA 3.0 IGO. ISBN 9789241550390.
- 3) **Zullo AR**. OTC Spotlight: Niacin for Dyslipidemia. *CVS Clinical FOCVS Newsletter*. 2011; 13(8): 5-6.
- 4) **Zullo AR**. Attention Deficit Hyperactivity Disorder (ADHD) Treatment Review. *CVS Clinical FOCVS Newsletter*. 2011;13(8):1-4.
- 5) **Zullo AR**. Sun Protection: Basic Principles of Sunscreens. *CVS Clinical FOCVS Newsletter*. 2011;13(7):2-4.
- 6) **Zullo AR**. Aquatic Envenomations: Avoid the Sting. *Shore Memorial Hospital Pharmacy Newsletter*. 2010;6(1):1-2
- 7) **Zullo AR**. Spider Bites: Brown v. Black. *Shore Memorial Hospital Pharmacy Newsletter*. 2010;6(1):2-4.
- 8) **Zullo AR**. OTC Spotlight: Niacin for Dyslipidemia. *CVS Clinical FOCVS Newsletter*. 2011; 13(8): 5-6.
- 9) **Zullo AR**. Leading Littles at Lambda: Rutgers. *The Laurel*. 2010;6(4):1
- 10) **Zullo AR**. Behind-The-Counter Medications: A Healthcare Solution. *The Roosevelt Institution Public Policy Journal*. 2008:3-5

7. RESEARCH GRANTS

A. GRANTS CURRENTLY HELD

The NH Explanatory Trials Network: Supporting Transformation by Enhancing Partnerships (The NEXT STEPS).

Role on Project: Site Principal Investigator (PI: K. Unroe)

Funder: National Institutes of Health

Mechanism: U24

Project Number: U24AG087939

Project Period: Sep 1st, 2024 – May 31st, 2029

Total Brown Subaward Amount: \$1,926,041

Description: To develop infrastructure to enable explanatory randomized clinical trials in nursing homes, including recruitment, patient assessment, treatment delivery, and obtaining investigational samples and/or imaging.

Post-Acute Care Medication Use and Functional Recovery in Heart Failure

Role on Project: Multiple Principal Investigator (with P. Goyal)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Sep 1st, 2024 – May 31st, 2029

Total Amount: \$3,170,659

Project Identifier: R01AG088522

Description: This project will rigorously examine the effects of using individual medications for heart failure and other common conditions (e.g., pain) as well as using multiple medications together on physical function and successful discharge from skilled nursing facilities (SNFs) to home.

Prescribing Cascades among Nursing Home Residents with ADRD

Role on Project: Multiple Principal Investigator (with K. Hayes)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: RF1

Project Period: Sep 1st, 2024 – August 31st, 2027

Total Amount: \$2,238,104

Project Identifier: RF1AG089541

Description: The proposed project will generate new empirical evidence on prescribing cascades to guide medication optimization efforts to reduce adverse drug events in NH residents with ADRD, thus directly addressing Strategic Goal C of the NIA.

Prevention of Injury in Skilled Nursing Facilities through Optimizing Medications

Role on Project: Site Principal Investigator (MPIs: Colón-Emeric & Berry)

Funder: Patient-Centered Outcomes Research Institute (PCORI)

Project Period: Jan 1st, 2024 – Dec 31st, 2028

Total Amount: \$1,496,305

Project Identifier: OFP-2022C3-30363

Description: The overarching goal of this project is to compare the effectiveness of care models promoting early osteoporosis treatment prescribing, deprescribing fall-risk increasing drugs, or both in reducing subsequent injurious falls and fractures, and to test the impact of these care models on patient-centered outcomes

Post-Acute Home Health Care for Veterans: Examining Payer Source, Quality, and Outcomes

Role on Project: Co-Investigator (MPIs: S. Gravenstein, C. Jones)

Funder: Department of Defense VA Health Systems Research

Project Period: Feb 1st, 2024 – May 31st, 2027

Project Identifier: IR 20-222 VA

Total PVAMC award Amount: \$1,371,688

Description: To improve VA's ability to identify and purchase care from a network of high-quality home healthcare (HHC) agencies, to promote Veteran-centeredness of HHC, and make the VA a leader in linking HHC outcomes to quality and cost.

Risk for Hospitalization and All-Cause Mortality in Veterans Prescribed Antipsychotic Medications for PTSD, Anxiety, and Depression

Role on Project: Co-Investigator (MPIs: J. McGeary, W. Wu, Q. Zeng)

Funder: Department of Defense USAMRAA

Mechanism: I01

Project Period: Feb 1st, 2024 – May 31st, 2027

Project Identifier: HT9425-23-1-0902

Total PVAMC Subaward Amount: \$1,632,091

Project Identifier: OFP-2022C3-30363

Total Brown Subaward Amount: \$1,517,062

Description: Long-Term Outcomes of Antipsychotic Medication Use in Veterans with PTSD

Treating pain in autoimmune disease: concurrent use of opioids and biologic medication

Role on Project: Sponsor/Primary Mentor (PI: M. Cupp-Buxton)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: F31

Project Period: Jun 1st, 2023 – May 31st, 2025

Total Amount: \$95,388

Project Identifier: F31AG081089

Description: This research aims to assess the patterns and safety outcomes of concurrent opioids and biologics use in older adults with autoimmune disease. Findings will address a critical research gap around the safety of concurrent opioids and biologic use and inform clinical practices to optimize treatment strategies.

Clinically Significant Drug Interactions among Nursing Home Residents with ADRD

Role on Project: Principal Investigator

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Sep 15th, 2022 - May 31st, 2027

Total Amount: \$3,538,620

Project Identifier: R01AG077620

Description: This research will exhaustively identify important drug interactions and rigorously examine their effects on fall-related injuries in older nursing home residents with Alzheimer's Disease and Related Dementias.

Benefits and Harms of Long-term Osteoporosis Pharmacotherapy: Impact of Treatment Length, Type, Switching, and Holidays

Role on Project: Co-Investigator (PI: K. Hayes)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Sep 15th, 2022 – Jun 30th, 2026

Total Amount: \$2,537,664

Project Identifier: R01AG078759-01

Description: This research will examine the benefits and harms of long-term osteoporosis pharmacotherapy, sequencing, and drug holidays in community dwelling adults and nursing home residents using U.S. Medicare data and universal healthcare data from Ontario, Canada.

MWAS+ – A Novel Drug Repurposing Strategy for ADRD Prevention

Role on Project: Site Principal Investigator (PI: Q. Zeng)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Aug 15th, 2022 – May 31st, 2027

Total PVAMC Subaward Amount: \$329,765

Project Identifier: R01AG073474-01A1

Description: We propose a 3-Step Medication-Wide Association Study Plus (MWAS+) approach that will rigorously accelerate the identification of drugs that have a high potential to be repurposed to delay and prevent Alzheimer's Disease and Alzheimer's Disease Related Dementias (AD/ADRD).

The risks and consequences of a motor vehicle crash in older adults with Alzheimer's Disease and Related Dementias

Role on Project: Co-Investigator (PI: N. Joyce)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Aug 15th, 2022 – Jun 30th, 2026

Total Amount: \$3,018,027

Project Identifier: R01AG079295-01

Description: Will use novel data source of Medicare insurance claims linked to licensing, citation, and crash data for more than 1.5 million older drivers over a 13-year period to evaluate longitudinal changes in the risk of a crash and changes in the trajectory of health, health care utilization, and long-term care assistance following a crash, among older drivers with Alzheimer's Disease.

Magnesium supplement and vascular health: Machine learning from the longitudinal medical record

Role on Project: Site Principal Investigator (MPI: Q. Zeng, A. Ahmed, W. Wen-Chih)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Sep 16th, 2021 – Jul 31st, 2025

Total Amount: \$1,809,687

Project Identifier: R01HL156518

Description: This project will interrogate national electronic health record data from Veterans Health Administration using novel pharmacoepidemiology methodology and develop explainable deep-learning models to help clinicians and patients make personalized decisions to maximize the health benefits of magnesium supplements.

Medications and the Risk of Motor Vehicle Crashes in Older Adults

Role on Project: Principal Investigator

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Sep 15th, 2020 – May 31st, 2025 (NCE)

Total Amount: \$1,764,594

Project Identifier: R01AG065722

Description: The objective of this project is to evaluate the effects of medications, including dose and adherence, on motor vehicle crashes in older adults.

Deploying High Value Longitudinal Population-Based Data in Dementia Research (DEVELOP AD Research)

Role on Project: Site Principal Investigator (PI: R. Morrison)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: P01

Project Period: Sep 1st, 2020 – May 31st, 2025

Total Subcontract Amount: \$100,000

Project Identifier: P01AG066605

Description: This program project is grounded in the linkage of medical, social, and health system contexts of dementia with inter-related research projects/cores that together will lead to improved care for this vulnerable population.

Behavioral Control and Alzheimer's Disease: Policies, Medication Use, and Health Effects Across Care Settings

Role on Project: Co-Investigator (PI: T. Shireman)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: P01

Project Period: Sep 9th, 2019 – May 31st, 2025 (NCE)

Total Amount: \$1,050,637

Project Identifier: 5P01AG027296-14 8594

Description: Using novel approaches developed by the P01 Data Management and Methods Core, we will assess important policies intended to reduce the adverse outcomes of antipsychotics in older adults with Alzheimer's Disease Related Dementias across care settings and among minorities with potential to guide further policy refinement as necessary.

B. COMPLETED GRANTS

Metadoxine as a novel pharmacotherapy for older adults with alcohol use disorder

Role on Project: Mentor (PI: S. Portis)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: K99

Project Period: Sep 15th, 2022 – Aug 31st 2024

Total Amount: \$131,805

Project Identifier: 1K99AA030076-01A1

Description: The aim of this study is to verify the safety and tolerability of metadoxine as a putative pharmacotherapy for alcohol use disorder among adults aged 65 and older. The findings from this study will inform a pilot randomized controlled trial

Deprescribing of Diabetes Treatment Regimens in Long Term Care Residents with Alzheimer's Disease and Related Dementias (ADRD)

Role on Project: Site Principal Investigator (PI: M. Munshi)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: U54 Pilot Grant Program

Project Period: Jul 1st, 2022 – Jun 30th, 2024 (NCE)

Total Amount: \$293,868

Project Identifier: U54AG063546

Description: The proposed project will be the first rigorous implementation of an educational intervention to improve diabetes care among individuals with Alzheimer's Disease and Related Dementias through deprescribing in long-term care facilities (LTCFs).

NIA AD/ADRD Health Care Systems Research Collaboratory, supplement "Monitoring Medicare Beneficiaries' Response to COVID Vaccines"

Role on Project: Co-Investigator (PI: V. Mor)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: U54

Project Period: Mar 1st, 2021 – Jun 30th, 2024

Total Amount: \$630,528

Project Identifier: 5U54AG063546-02

Description: This project will create a quasi "real time" data base that can be used to monitor the rates of adverse events of the SARS-CoV-2 vaccine older adults who are frail or who have AD/ADRD. The resulting database and proposed analyses will provide the basis for assessing mid to long term safety and efficacy of the different vaccines being distributed for use.

Safe Cardiometabolic Drug Prescribing to Prevent Injury in Nursing Home Residents

Role on Project: Site Principal Investigator (PI: S. Berry)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Jul 1st, 2019 – Jun 30th, 2024 (NCE)

Total Amount: \$1,682,035

Project Identifier: 1RF1AG061221

Description: This project will identify cardiometabolic drugs with a poor net clinical benefit, defined as drugs that increase the risk of injurious falls and fail to achieve clinical benefit, to improve prescribing in the nursing home setting.

Addressing racial/ethnic geographic disparities in COVID-19 health services and outcomes among nursing home residents with ADRD

Role on Project: Sponsor/Primary Mentor (PI: J. Silva)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: F31

Project Period: Jul 1st, 2023 – Apr 30th, 2024

Total Amount: \$95,388

Project Identifier: F31AG079607

Description: This research will provide some of the first empirical evidence for policymakers and other stakeholders that can be used to improve health equity for COVID-19 and other conditions among nursing home residents, as well as establish unique methods that can be used broadly to conduct accurate, timely, and relevant future studies of disparities in nursing home residents and other populations.

Skilled Nursing Facility Care and Outcomes After Hospitalizations Involving Opioid Use Disorder

Role on Project: Co-Investigator (PI: P. Moyo)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R21

Project Period: Apr 15th, 2022 – Mar 31st, 2024

Total Amount: \$434,860

Project Identifier: R21DA053518

Description: The objective of this application, the first step toward this long-term goal, is to examine the quality of SNF care and patient outcomes following an OUD-related hospitalization and elicit provider perspectives on the transition to SNF and adequacy of OUD care in SNFs.

Motor Vehicle Crashes as a Marker of Pre-Clinical and Prodromal Alzheimer's Disease

Role on Project: Principal Investigator

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: Alzheimer's Disease Administrative Supplement (to R01AG065722)

Project Period: Jun 22nd, 2022 – May 31st, 2023

Total Amount: \$368,458

Project Identifier: R01AG065722- Supplement

Description: Early diagnosis of Alzheimer's Disease (AD) is associated with better clinical outcomes yet obtaining biomarkers for early diagnosis requires invasive and resource intensive procedures. In contrast, this research examines the feasibility of using a motor vehicle crash – a clinically significant and easily identifiable event – as an early indicator of AD. Study findings will have a positive impact by establishing the feasibility of using motor vehicle crashes as an effective pre-screening tool to diagnose patients earlier in the course of disease and help to

inform both the judicious use of costly neurodiagnostic methods and thoughtful advance care planning.

Guidelines and Best Practices for Evaluating the Causal Effects of Medications on Motor Vehicle Crashes and Driving Outcomes using Observational Data

Role on Project: Principal Investigator (awarded to Medications and Driving Working Group)

Project Period: Feb 1st, 2020 – Jul 31st, 2023

Funder: International Society for Pharmacoepidemiology

Total Amount: \$13,000

Project Identifier: N/A

Description: The Medications and Driving Working Group will formally synthesize the existing observational literature examining medication exposures and motor vehicle crash outcomes to make principled recommendations that ultimately enable the construction of a formal evidence-based methodological framework for estimating the causal effects of medication use on motor vehicle crash.

The Burden of Infections in Long-Term Care Facilities: Identification, Treatment, and Health Outcomes

Role on Project: Principal Investigator

Project Period: Sep 1st, 2017 – Jul 31st, 2023 (NCE)

Funder: Sanofi Pasteur

Total Amount: \$1,439,086

Project Identifier: 005705

Description: The overall aims of this project are to describe the epidemiology of various infections and vaccine use in long-term care using recent data, thereby providing insights into a number of high-priority areas where vaccine and medication utilization can be improved.

Estimating RSV-Attributable Outcomes in Newborns Less Than One Year of Age Using World Data

Role on Project: Principal Investigator

Funder: Sanofi Pasteur

Mechanism: Large Independent Research Grant

Project Period: Aug 1st, 2020 – June 30th, 2023 (NCE)

Total Amount: \$440,000

Project Identifier: E002810374

Description: The objective of this project is to study the epidemiology of respiratory syncytial virus in infants.

Opioid use in post-acute hip fracture care: prescribing patterns, effectiveness, and safety

Role on Project: Multiple Principal Investigator (with F. Beaudoin)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R21

Project Period: Jul 1st, 2019 – Apr 30th, 2023 (NCE)

Total Amount: \$461,483

Project Identifier: 1R21AG061632

Description: Suboptimal pain treatment during post-acute care after hip fracture is a major cause of increased morbidity, mortality, and costs among older adults, yet there is no clear evidence base for choosing an analgesic medication regimen in post-acute care. This R21 project will provide a better understanding of the benefits and harms of different analgesic regimens for pain treatment, which will help guide treatment decisions for the post-acute care population residing in skilled nursing facilities (SNFs), and ultimately improve patient health outcomes.

U.S. Deprescribing Research Network

Role on Project: Site Principal Investigator (MPI: M. Steinman and C. Boyd)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R24

Project Period: Aug 1st, 2021 – Jul 31st, 2022

Total Amount: \$6,915

Project Identifier: R24AG064025

Description: Older adults often use unnecessary, potentially inappropriate, and goal-discordant medications, and efforts to improve deprescribing can improve health outcomes by reducing use of these medications. This proposal will establish the U.S. Deprescribing Research Network. This collaborative network will catalyze a range of research on deprescribing and search for solutions to improve the quality of pharmaceutical care and health outcomes for older adults.

Practices and Policies Contributing to Influenza-Related Outcomes and Suboptimal Vaccination Rates in LTCFs: A Qualitative Assessment

Role on Project: Co-Investigator (PI: B. Bardenheier)

Funder: Sanofi Pasteur

Mechanism: Large Independent Research Grant

Project Period: Mar 1st, 2021 – Jan 31st, 2022

Total Amount: \$160,643

Project Identifier: N/A

Description: The objective of this qualitative study is to investigate root causes of differential influenza and pneumonia burden, influenza vaccine coverage, and disparities in long term care facilities (LTCFs).

The Effect of a Driver's License Suspension on Access to Health Care

Role on Project: Co-Investigator (PI: N. Joyce)

Funder: Brown Office of the Vice President for Research (OVPR)

Mechanism: Seed Award

Project Period: Mar 1st, 2020 – Feb 28th, 2022

Total Amount: \$49,500

Project Identifier: N/A

Description: The objective of this study is to understand the population of suspended drivers and the unintended consequences of a license suspension for accessing health care.

Patient Profiles and Settings of Care Following Opioid Use Disorder Related Hospitalizations in Medicare

Role on Project: Co-Investigator (PI: P. Moyo)

Funder: Brown Office of the Vice President for Research (OVPR)

Mechanism: Salomon Award

Project Period: Mar 1st, 2020 – Feb 28th, 2022

Total Amount: \$13,454

Project Identifier: N/A

Description: The objective of this study is to understand the context of opioid use disorder hospitalizations with respect to the attributes of the patients, hospital admission, and the settings of care following opioid-related acute care use.

Development of a Novel Pharmacist-Led Opioid Deprescribing Protocol in Older Adults

Role on Project: Co-Investigator (PI: A. Margraf)

Funder: ASHP Foundation

Mechanism: Pharmacy Resident Practice-Based Research Grant

Project Period: Jan 1st, 2020 – Dec 31st, 2021

Total: \$5,000

Project Identifier: N/A

Description: This project will develop a novel opioid deprescribing protocol for older adults that addresses the fundamental issue of unclear division of responsibilities between members of a care team.

Development and Validation of a Pharmacist Transitions of Care Tool using Machine Learning Algorithms to Predict Rehospitalization in Chronic Heart Failure

Role on Project: Co-Investigator / “Senior Investigator” (PI: M. Riester)

Funder: ASHP Foundation

Mechanism: Pharmacy Resident Practice-Based Research Grant

Project Period: Jan 1st, 2020 – Dec 31st, 2020

Total Amount: \$4,931

Project Identifier: N/A

Description: This project will develop a novel screening tool to assist transitions of care pharmacists with efficiently intervening on their chronic heart failure patients.

Task Order 16-Methods and Dissemination: Collaboration to Improve Validity, Consistency, and Utility of Systematic Reviews

Role on Project: Co-Investigator (PI: T. Trikalinos)

Project Period: Sep 11th, 2019 – Aug 31st, 2020

Funder: Agency for Healthcare Research and Quality

Total Amount: \$50,000

Project Identifier: HHS290201500002I 75Q80119F32016

Description: The purpose of the task order is to provide methods and dissemination to improve validity and utility of systematic reviews of the Evidence-based Practice Centers (EPC) Program.

Identifying Analgesic Users after Hip Fracture in Post-Acute Care

Role on Project: Principal Investigator

Funder: Rhode Island Advance-CTR

Mechanism: Pilot Projects Program Category I (Cycle 4)

Project Period: Jun 18th, 2019 – Jun 17th, 2020

Total Amount: \$60,921

Project Identifier: U54GM115677

Description: Little is known about the use of analgesic medications among older adults receiving post-acute care in skilled nursing facilities (SNFs) after hip fracture. The lack of knowledge is primarily due to the outright absence of medication data during the post-acute care period since drug dispensing information in the hospital and post-acute SNF settings is not captured by Medicare Part D drug claims. This pilot project will initiate the assembly and linkage of several databases to establish a unique data resource that can be re-used to conduct timely, relevant, and previously impossible medication-related studies of older adults in post-acute SNF care.

Prevention, Diagnosis, and Management of Inappropriate Opioid Use, Misuse, and Abuse in Older Adults

Role on Project: Co-Principal Investigator (MPI: E. Balk)

Funder: Agency for Healthcare Research and Quality

Mechanism: EPC RFTO

Project Period: Jun 10th, 2019 – Jan 5th, 2020

Total Requested: \$200,000

Project Identifier: HHSA290201500002I 75Q80119F32015T

Description: The objective of this project is to conduct a technical brief on the issues and gaps that are driving the current rise in opioid-related morbidity and mortality in older adults.

Management of Primary Headaches in Pregnancy

Role on Project: Co-Investigator (PI: I. Saldanha)

Project Period: Apr 26th, 2019 – Aug 6th, 2020

Funder: Agency for Healthcare Research and Quality

Total Amount: \$295,385

Project Identifier: HHSA290201500002I HHSA29032014T

Description: The purpose of the task order is to conduct a topic refinement and systematic review on the management of primary headaches in pregnancy.

Development and Implementation of “Nursing Home Prevention of Injury in Dementia” (NH PRIDE)

Role on Project: Site Principal Investigator (PI: S. Berry)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Apr 1st, 2019 – Jan 31st, 2023

Subcontract Amount: \$68,172

Project Identifier: 5R01AG062492

Description: This pragmatic clinical trial embedded in a nursing home chain will test the efficacy of the Injury Liaison Service model to reduce injurious falls. If successful, this model can be readily deployed by nursing home chains and evaluated more widely for its impact on injurious falls.

Medications and Risk of Motor Vehicle Crashes in Older Drivers: Data Linkage and Evaluation

Role on Project: Principal Investigator

Project Period: Feb 1st, 2019 – Jan 31st, 2020

Funder: Brown University Office of the Vice President for Research Seed Award Program

Total Amount: \$49,999

Project Identifier: N/A

Description: To develop a unique database that combines data on drivers' crash, licensing, and citation histories, and Medicare fee-for-service prescription drug and inpatient insurance claims. Additionally, we establish the frequency and patterns of driving by medication use.

Long-Term Care Chronic Constipation and Laxative Use Exploration (CLUE) Study

Role on Project: Co-Investigator (PI: R. Baier)

Project Period: Oct 1st, 2018 – Feb 6th, 2019

Funder: Ironwood Pharmaceuticals / Allergan

Total Amount: N/A

Project Identifier: N/A

Description: Brown University's Center for Long-Term Care Quality & Innovation (Q&I Center) will conduct a three-part, cross-sectional study to describe the current treatment of chronic constipation among long-term care residents, assess its impact on resident quality of life, and estimate its costs.

Impact of Pharmacist Intervention on Chronic Obstructive Pulmonary Disease Outcomes

Role on Project: Co-Investigator / "Senior Investigator" (PI: A. Zuern)

Project Period: Oct 1st, 2018 – Sep 30th, 2019

Funder: American College of Clinical Pharmacy Ambulatory Care Practice and Research Networks

Total Amount: \$1,000

Project Identifier: N/A

Description: To evaluate the effect of a pharmacist transitions-of-care intervention on COPD patient health outcomes both overall and across levels of predicted risk of potentially preventable rehospitalization (estimated using the MEDCOINS tool).

Beta Blockers and Their Impact on Fracture Risk in Nursing Home Residents Taking Atypical Antipsychotics

Role on Project: Co-Investigator (PI: C. Duarte)

Project Period: Sep 1st, 2017 – Aug 31st, 2022

Funder: National Institutes of Health (National Institute on General Medical Sciences)

Total Amount: \$2,159,876

Project Identifier: P20-GM121031

Description: As part of a cohesive series of projects, the overall aim of this project is to assess whether beta blockers ameliorate the risk of fractures associated with atypical antipsychotics in a population of older nursing home residents.

Outcomes of a Pharmacist-Managed Hepatitis C Virus Clinic Care Delivery Model

Role on Project: Co-Investigator / “Senior Investigator” (PI. S. Naidjate)

Project Period: Jan 1st, 2017 – Dec 31st, 2017

Funder: American Society of Health-System Pharmacists Research and Education Foundation

Total Amount: \$4,903

Project Identifier: N/A

Description: The objectives of this project are: 1) to describe the demographic, clinical, and social characteristics of adult patients infected with HCV at a pharmacist-managed outpatient HCV clinic, 2) to characterize the determinants of enrollment in a pharmacist-managed outpatient HCV clinic versus a limited-pharmacist- involvement clinic for HCV patients, and 3) to estimate the effect of a pharmacist-managed HCV clinic versus a limited-pharmacist- involvement clinic on treatment completion and achieving HCV cure.

Conducting Systematic Reviews to Inform World Health Organization Guidelines on the Clinical Management of Cancer Pain

Role on Project: Co-Investigator (PI: E. Balk)

Project Period: Jan 1st, 2017 – Oct 30th, 2017

Funder: World Health Organization

Total Amount: \$120,763

Description: This goal of this project is to conduct a systematic review to inform the development of new cancer pain treatment guidelines.

High Dose Influenza Vaccine Morbidity and Mortality in U.S. Nursing Homes: Assessing Cost-Effectiveness and Relative Benefit Compared to Standard Dose

Role on Project: Co-Investigator (PI: T. Shireman)

Project Period: Dec 31st, 2016 – Apr 30th, 2018

Funder: Insight Therapeutics

Total Amount: \$420,000

Project Identifier: N/A

Description: The aim of this project is to estimate the effectiveness of high dose influenza vaccine in long-term care facilities using linked trial and administrative data.

Identification of Pharmacy Transitions of Care Patients at Highest Risk of 30-Day Hospital Readmission

Role on Project: Co-Investigator (PI: L. McAuliffe)

Project Period: Jan 1st, 2016 – Dec 31st, 2016

Funder: American Society of Health-System Pharmacists Research and Education Foundation

Total Amount: \$5,000

Project Identifier: N/A

Description: The objectives of this project were: 1) to identify factors associated with an increased risk of unplanned hospital readmission, paying particular attention to factors that a)

frequently available to the transitions of care pharmacist, and b) unavailable in previous models of rehospitalization developed by other researchers using administrative claims data, and 2) develop and validate a practical prediction tool for use by transitions of care pharmacists.

Patient Centered Outcomes Research Institutional Mentored Career Development Program

Role on Project: Scholar (PI: T. Trikalinos)

Funder: National Institutes of Health (Agency for Healthcare Research and Quality)

Total Amount: \$3,392,382

Project Period: Sep 1st, 2015 – Jun 30th, 2018

Project Identifier: K12-HS022998

Description: The objective of this program is to prepare scholars to apply comparative effectiveness research methods to patient-centered outcomes research.

Doubly Robust Estimation of the Effect of Health Insurance on Personal Prescription Drug Importation

Role on Project: Principal Investigator

Project Period: May 1st, 2015 – Aug 31st, 2015

Funder: Brown University (Population and Studies Training Center)

Total Amount: \$2,165

Description: The objective of this project was to extend and apply doubly robust estimation of causal effects for complex survey data to estimate the effect of health insurance on personal prescription drug importation behavior.

Estimating the Effect of Health Insurance on Personal Prescription Drug Importation Using Marginal Structural Models and Complex Survey Data

Role on Project: Principal Investigator

Project Period: Jan 1st, 2015 – Jan 1st, 2016

Funder: Brown University (Nora Kahn Piore Award)

Total Amount: \$3,000

Description: The objective of this project was to use state-of-the-art quantitative methods for causal inference, specifically inverse probability weighted (IPW) marginal structural models (MSMs), in complex survey data to estimate the unconditional effect of health insurance on the risk of personal prescription drug importation across subpopulations of the United States defined by important characteristics.

The Effects of Socioeconomic Status on Access to Care, Medication Adherence, and HIV Viral Suppression: Establishing a Framework for Conditional Economic Incentivization of Healthy Behaviors

Role on Project: Principal Investigator

Project Period: Sep 1st, 2014 – May 30th, 2015

Funder: Brown University (Sheridan Center for Teaching and Learning)

Total Amount: \$2,000

Description: The objective of this project was to preliminarily test the feasibility and acceptability of a highly innovative conditional economic incentives program to incentivize healthy behaviors among HIV-positive men in Mexico City.

A Clinical Prediction Tool to Guide Treatment of Osteoporosis in the Nursing Home

Role on Project: Co-Investigator, then Site Principal Investigator (PI: S. Berry)

Project Period: Aug 1st, 2014 – Apr 30th, 2019

Funder: National Institutes of Health (National Institute on Aging)

Total Amount: \$1,691,799

Project Identifier: R01-AG045441

Description: The objective of this project is to develop a screening tool for osteoporosis and use the screening tool to determine a threshold at which osteoporosis medications may prevent fractures.

Estimating the Effect of Health Insurance on Personal Prescription Drug Importation in Underserved Populations

Role on Project: Principal Investigator

Project Period: May 1st, 2014 – Aug 31st, 2014

Funder: Brown University (Population Studies and Training Center)

Total Amount: \$790

Description: The objective of this project was to extend novel causal inference methods for complex survey data to estimate the effect of policy interventions on personal prescription drug importation behavior.

Outcomes of Beta Blockers after Myocardial Infarction in Nursing Home Residents

Role on Project: Research Assistant, then Co-Investigator (PI: M. Steinman)

Project Period: Aug 1st, 2013 – Jun 30, 2016

Funder: National Institutes of Health (National Heart, Lung, and Blood Institute)

Total Amount: \$1,678,874

Project Identifier: R01-HL111032

Description: The objective of this project was to better understand the benefits and harms of beta blockers in frail nursing home residents after myocardial infarction to substantially improve the evidence base and help guide treatment decisions for this important population.

C. PROPOSALS SUBMITTED

Enhancing Resilience to Extreme Heat Due to Climate Change to Advance Health Equity Among Nursing Homes in New England

Role on Project: Multiple Principal Investigator (with C. Howe & A. Just)

Funder: National Institutes of Health

Mechanism: R01

Project Period: Sep 1st, 2025 – August 31st, 2030

Project Number: R01ES037630

Total Amount Requested: \$3,780,801

Description: For United States nursing homes in New England, this project will be the first to assess their preparedness for extreme heat due to climate change; examine how physical building characteristics influence heat-related health outcomes; and evaluate whether existing heat-related state regulations adequately protect all nursing home residents. Findings from this

research may highlight an overlooked crisis concerning heat threats in New England nursing homes and prompt urgent attention. They may also empower policymakers to update potentially outdated heat-related state regulations for nursing homes to minimize heat-related morbidity, mortality, and health disparities, and in turn advance health equity.

A Statewide Examination of the Address-level Relationships Between Residential Eviction Proceedings and Overdose Events in Rhode Island

Role on Project: Mentor (PI: A. Skinner)

Funder: NIDA

Mechanism: F31

Project Period: Apr 1st, 2025 – Apr 30th, 2026

Project Number: TBD

Total Amount Requested: TBD

Description: To pursue a thorough examination of the relationships between eviction and overdose in Rhode Island with the following specific aims: 1) Construct an address-level linked dataset and conduct a sequence analysis to characterize the prevalence and time course of eviction proceedings relative to non-fatal and fatal overdose events; and 2) Estimate the address-level causal effect of residential eviction proceedings on risk of non-fatal and fatal overdose using a sequential target trial approach.

Driving Safely or Rarely? Novel Methods to Account for Driving Exposure when Estimating the Risk of a Motor Vehicle Crash in Older Adults with ADRD

Role on Project: Co-Investigator (PI: N. Joyce)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Apr 1st, 2025 – Mar 31st, 2030

Project Number: R01AG094013

Total Amount Requested: \$3,831,222.00

Description: To develop interventions that improve the safety of older drivers with ADRD while allowing them to maintain their autonomy.

Benefits and Harms of Antihypertensive Management Strategies for Nursing Home Residents with ADRD

Role on Project: Co-Investigator (PI: K. Hayes)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Apr 1st, 2025 – Mar 31st 2029

Project Number: R01AG087210

Total Amount Requested: \$2,903,755.00

Description: The overall objective of this proposal is to compare the safety and effectiveness of different hypertension treatment strategies for older adults with Alzheimer's Disease and Related Dementias residing in nursing homes.

Vaccine Take-Up: Exploring the Role of Pharmacies and Pharmacists

Role on Project: Site Principal Investigator (PI: K. Wen)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R01

Project Period: Jun 1st, 2025 – May 31st 2030

Project Number: R01AG092865

Total Requested Brown Sub-Award Amount: \$1,541,190

Description: To determine if pharmacist scope of practice expansions are more effective in areas where patients have greater access to pharmacists and whether the effects of these expansions have been hindered by recent pharmacy closures.

Pain Assessment and Management among Nursing Home residents with Alzheimer's Disease and Related Dementias

Role on Project: Co-Investigator (MPIs K. Hayes & E. Belanger)

Funder: NIH

Mechanism: R01

Project Number: R01AG090403

Project Period: Sep 1st, 2024 – Aug 31st, 2029

Total Brown Amount Requested: \$3,893,219

Description: The overall objectives are to characterize change in pain assessment and treatment as associated with the removal of pain as a nursing home (NH) quality indicator, and to determine the comparative effectiveness and safety of major analgesic regimens among NH residents with Alzheimer's Disease Related Dementias (ADRD).

Optimizing Methadone Treatment Strategies for Opioid Use Disorder in the Era Of Fentanyl

Role on Project: Multi Principal Investigator (with F. Beaudoin & R. Wightman)

Funder: National Institute on Drug Abuse (NIDA)

Mechanism: R01

Project Number: 1R01DA062186

Project Period: Dec 1st, 2024 – Nov 30th, 2029

Total Brown Amount Requested: \$1,075,772

Description: This study will create a unique linked database combining electronic health record and state administrative databases to enable an unprecedented evaluation into methadone treatment strategies and outcomes during a time of expanded and changing methadone flexibilities in a fentanyl-endemic area.

National Study of Antiepileptic Prescribing Among Patients with Dementia in Long-Term Care

Role on Project: Site Principal Investigator (PI: L. Gerlach)

Funder: National Institutes of Health

Mechanism: R01

Project Number: R01AG087073

Project Period: Jul 1st, 2024– Jun 30th, 2029

Total Brown Subaward Amount Requested: \$234,270

Description: To identify factors that influence antiepileptic prescribing in nursing home settings and the net health effects of such prescribing among patients with dementia.

GAPcareAD: A Brief Emergency Department Intervention to Address Post-Fall Care Needs of Persons Living with Dementia and Care Partners

Role on Project: Site Primary Investigator (PI: E. Goldberg)

Funder: National Institutes of Health

Mechanism: R01

Project Number: R01AG084561

Project Period: Jan 1st, 2025 – Dec 31st, 2029

Total Brown Subaward Amount Requested: \$242,468

Description: To prevent falls in older adults and their sequelae, downstream healthcare visits, which reduce healthy days at home and overall quality of life.

High Hypoglycemia Risk Medications In Nursing Home Residents with ADRD

Role on Project: Co-Investigator (PI: K. Hayes)

Funder: National Institutes of Health (National Institute on Aging)

Mechanism: R21

Project Period: Jan 4th, 2024 – Dec 31st, 2025

Total Requested: \$455,239

Description: This project will provide rigorous evidence on the comparative hypoglycemia risks of different diabetes medication regimens for nursing home (NH) residents through comprehensive observational studies employing novel electronic health record data linked to Medicare claims.

Promoting Antibiotic Stewardship in Home-Based Primary Care

Role on Project: Mentor (PI: R. Datta)

Funder: The Paul B. Beeson Emerging Leaders Career Development Award in Aging

Mechanism: K76

Project Period: Jul 1st, 2023 – Jun 30th, 2028

Total Requested: \$1,214,999.00

Description: The overall objective of this proposal is to develop quality indicators and risk-adjusted measures of antibiotic use in home-based primary care and to adapt an existing antibiotic stewardship dashboard for use among home-based primary care programs.

8. SERVICE

A. INTERNATIONAL AND NATIONAL (EXTRAMURAL)

- Member, International Society of Pharmacoepidemiology (ISPE) 2024 – Present
- Member, Research Review Committee, Long-Term Care Data Cooperative 2024 – Present
- Member, Technical User Advisory Group, Long-Term Care Data Cooperative 2024 – Present
- Member, Podcasts Subcommittee, Scientific Dissemination Committee, Society for Epidemiologic Research (SER) 2023 – Present
- Member, Research Methods Sub-Committee, American Geriatrics Society 2019 – Present
- Proposal Reviewer and Writer, International Society for Pharmacoepidemiology Geriatric Pharmacoepidemiology Special Interest Group 2018 – Present
- Proposal Reviewer, International Society for Pharmacoepidemiology Comparative Effectiveness Research Special Interest Group 2018 – Present
- Abstract and Proposal Reviewer, American Geriatrics Society Annual Meeting 2015 – Present
- Abstract Reviewer, International Conference on Pharmacoepidemiology and Therapeutic Risk Management 2016 – Present
- Abstract Reviewer, International Society for Pharmacoepidemiology and Therapeutic Risk Management Midyear Meeting 2016 – Present
- Abstract Reviewer, Society for Epidemiologic Research Annual Meeting 2014, 2023 – Present
- Investigator Development Core, U.S. Deprescribing Research Network (USDeN) 2021 – 2023
- Chair, International Society for Pharmacoepidemiology Geriatric Pharmacoepidemiology Special Interest Group 2019 – 2021
- Proposal Reviewer, American Society of Consultant Pharmacists 2016
- Abstract Reviewer and Poster Judge, Vizient University Health System Consortium 2016
- Abstract and Proposal Reviewer, International Association of Gerontology and Geriatrics World Congress 2016
- Coordinator, Lifespan Pharmacy Board Certification Review Group 2015

B. UNIVERSITY AND DEPARTMENTAL

- Member, Qualifying Exam Committee 2024 – Present
Department of Epidemiology, School of Public Health, Brown University
- Fellow, Brown University Faculty Leadership Program 2024 – Present
- Member, Brown University Human Resources Advisory Board 2021 – Present
- Faculty Advisor, Brown University Student Chapter of the International Society for Pharmacoepidemiology 2019 – Present
School of Public Health, Brown University
- Member and Diversity Representative, Search Committee for Assistant or Associate Professor of Epidemiology, Tenure-Track - PH-318 2023 – 2024

- Member, AHRQ Postdoctoral Fellowship (T32) Selection Committee 2021 – 2024
Center for Gerontology and Healthcare Research, Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Member, Doctoral Program Admissions Committee 2021 – 2024
Department of Epidemiology, School of Public Health, Brown University
- Member, Office of the Vice President for Research Seed Award Reviewer Committee 2023
- Member, Doctoral Program Admissions Committee 2019 – 2023
Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Member, Curriculum Committee 2018 – 2023
Department of Health Services, Policy, and Practice, Brown University
- Member, Search Committee for Assistant, Associate, or Full Professor of Health Services, Policy and Practice, Research Scholar Track (Evidence Synthesis) - PH 308 2022 – 2023
- Advisor, Infectious Diseases Health Services Research PhD Track 2022 – 2023
Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Qualifying Exam Writer, Infectious Diseases Health Services Research PhD Track 2022
Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Advisor, The Leadership Alliance Summer Research Early Identification Program 2021 – 2023
- Chair, Transportation and Health Initiative Project Coordinator Search Committee 2020 – 2021
Center for Gerontology and Healthcare Research, Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Member, Curriculum Committee 2019 – 2020
School of Public Health, Brown University
- Chair, Transportation and Health Initiative Data Analyst Search Committee 2020 – 2020
Center for Gerontology and Healthcare Research, Department of Health Services, Policy, and Practice, School of Public Health, Brown University
- Co-Coordinator (with Dr. Nina Joyce), Pharmacoepidemiology Research Core 2018 – 2019
School of Public Health, Brown University
- Member, Pharmacoepidemiology Research Core 2016 – 2019
Department of Health Services, Policy, and Practice, Brown University
- Ad hoc Interviewer, Tenure Track Faculty Candidates 2015
Department of Health Services, Policy, and Practice, Brown University
- Ad hoc Interviewer, Research Track Faculty Candidates 2014 - 2015
Department of Health Services, Policy, and Practice, Brown University
- Representative, Graduate Program Steering Committee 2013 - 2014
School of Public Health, Brown University
- Coordinator, Journal Club 2013 - 2014
School of Public Health, Brown University

- Ad hoc Interviewer, PhD Applicants
Department of Epidemiology, Brown University

2013

C. EDITORIAL

- None

D. JOURNAL REVIEW

- Aging Clinical and Experimental Research
- American Journal of Epidemiology
- Annals of Internal Medicine
- Annals of Pharmacotherapy
- BMC Health Services Research
- BMJ
- BMJ Medicine
- Circulation: Cardiovascular Quality and Outcomes
- International Journal of Health Care Finance and Economics
- JAMA Internal Medicine
- JAMA Network Open
- Journal of the American Geriatrics Society
- Journal of the American Pharmacists Association
- Journal of General Internal Medicine
- Journals of Gerontology
- Journal of Pharmacy Technology
- Methods of Information in Medicine
- Pharmacoepidemiology and Drug Safety
- PLOS One
- Research in Social and Administrative Pharmacy
- The American Journal of Pharmacy Benefits

E. GRANT REVIEW

- Ad Hoc Reviewer, Topics in Health Services Research, Health Information Technology, and Aging, 2024/01 ZRG1 HSS-P (91), National Institutes of Health Center for Scientific Review (CSR) panel 2023
- Ad Hoc Reviewer, Study Section, Pilot and Grant Planning Award applications, United States Deprescribing Research Network (USDeN)(R24AG064025) 2020, 2021, 2022
- Ad Hoc Reviewer, Pilot and Exploratory Grants Program, University of Michigan Claude D. Pepper Older Americans Independence Center 2022
- Ad Hoc Reviewer, Pilot and Exploratory Grants Program, Yale Claude D. Pepper Older Americans Independence Center 2021
- Ad Hoc Reviewer, Pragmatic Trials of Managing Multimorbidity in Alzheimer's Disease ZAG1 ZIJ-7 (A1), R61/R33 Exploratory/Developmental Phased Award, National Institutes of Health/National Institute on Aging (RFA AG 20-029) 2020
- Ad Hoc Reviewer, Infectious Disease Control Programme grant applications, The Netherlands Organisation for Health, Research, and Development (ZonMw) 2020

F. SERVICE TO THE COMMUNITY

- The Lown Institute, Polypharmacy in Homes Working Group** 2018 – 2019
- Member

9. AWARDS

Wiley Journal of the American Geriatrics Society Top 10% Most Downloaded Papers of 2022 Award 2024

- For the paper entitled "Psychotropic medication prescribing in assisted living and nursing home residents with dementia after the National Partnership". The paper was one of the most downloaded among work published in an issue between 1 January 2022 and 31 December 2022 during its first 12 months of publication.

American Headache Society Members' Choice Award Best Paper Published in 2021 Award 2022

- For the paper entitled "Management of primary headaches during pregnancy, postpartum, and breastfeeding: A systematic review". Members of the American Headache Society are provided with a shortlist of five of the best papers published in the previous calendar year, with that shortlist approved by the Editor-in-Chief of *Headache* and the full editorial board. A popular vote is then staged with the winning paper simply attracting the most votes.

Brown Early Career Research Achievement Award 2022

- This award from the Brown University of the Office of the Vice President for Research recognizes outstanding research achievements of Brown faculty. The overall merit of the research achievements are evaluated based on two criteria: 1) Scholarly achievements and

recognition (publications, professional awards, funded research etc.; and 2) Significance of contributions to the discipline. The award includes a \$5,000 research stipend.

- American Society of Consultant Pharmacists Plein Memorial Lecture Award** 2021
- The Plein Memorial Lecture is an annual keynote presentation during ASCP's Annual Meeting & Exhibition, hosted by Shelly Gray, Director, Shirley & Herb Bridge Endowed Professor at the University of Washington. The Plein Memorial Lecture honors Joy and Elmer Plein, two pioneers in the field of Geriatric Pharmacy. The Lecture is supported by the Plein Center for Geriatric Pharmacy, Research, Education, and Outreach.
- American Geriatrics Society Health in Aging Foundation New Investigator Award** 2020
- American Geriatrics Society/National Institute of Aging U13 Osteoporosis and Soft Tissue Disorders "Rising Star" and Travel Award** 2019
- American Geriatrics Society Epidemiology Best Paper Award** 2018
- International Society for Pharmacoepidemiology Midyear Conference Travel Award** 2017
- Awarded \$1,000
- International Society of Pharmacoeconomics and Outcomes Research Meeting Annual Meeting Research Presentation Award Finalist** 2017
- Poster ranked in the top 10% based on reviewer scores
- American Geriatrics Society National Conference Travel Award** 2017
- \$250 award for being a top 25 abstract scored by the AGS Abstract Selection Committee
- American Society of Health-Systems Pharmacy Best Practices Award** 2017
- MEDCOINS transitions of care project selected as one of the five best practices from the entire U.S.
- Pharmacoepidemiology and Drug Safety "Top Peer Reviewer"*** 2016
- International Society for Pharmacoepidemiology Midyear Conference Travel Award** 2016
- Awarded \$1,000
- American College of Cardiology/American Geriatrics Society/National Institute of Aging Pharmacotherapy in Older Adults with Cardiovascular Disease Early Career Travel Award** 2016
- American Geriatrics Society Scientist-in-Training Research Award** 2016
- One \$500 award presented to a pre-doctoral candidate who submitted the highest-scoring abstract for the 2016 AGS Annual Meeting and demonstrates evidence of an early but promising career path in geriatrics research
- American Geriatrics Society National Conference Travel Award** 2016
- \$250 award for being a top 25 abstract scored by the AGS Abstract Selection Committee

- American Geriatrics Society National Conference Travel Award** 2015
- \$250 award for being a top 25 abstract scored by the AGS Abstract Selection Committee
- Rhode Island Hospital Department of Pharmacy Preceptor-in-Training of the Year Award** 2016
- “The recipient of this award has demonstrated strong commitment to the professional training of students and residents while also displaying leadership skills and professionalism.”
- Finalist for Outstanding Academic Accomplishment by a Brown University Master’s Student Award** 2015
- Phi Lambda Sigma/American Foundation for Pharmaceutical Education/GlaxoSmithKline First Year Graduate Scholarship (declined)** 2012
- One \$7,500 award granted annually to fund graduate study in a college of pharmacy graduate program of the award recipient’s choice
- New Jersey Pharmacists Association Outstanding Leadership Award** 2012
- United States Public Health Service Excellence in Public Health Pharmacy Practice Award** 2012
- Ernest Mario Endowed Scholar, Rutgers University School of Pharmacy** 2011 – 2012
- John and Josephine Calasibetta Scholar, Rutgers University School of Pharmacy** 2011 – 2012
- Rutgers Alumni Association Scholar, Rutgers University School of Pharmacy** 2010 – 2011
- Rutgers University Academic Merit Scholar** 2006 – 2010
- Phi Lambda Sigma Pharmacy Leadership Honor Society** 2009
- Phi Delta Chi Pharmacy Fraternity Leadership Award** 2007 – 2008
- Phi Delta Chi Pharmacy Fraternity Prescription for Success Academic Award** 2007
- Miriam Hospital Stanley Gross Academic Scholarship** 2006 – 2007

10. TEACHING & MENTORING

A. COURSES TAUGHT

Session	Course	Class Size	Scheduled Hours	
			Lecture	Lab/Tutorial
Fall 2024	PHP 2490 – Methods in Pharmacoepidemiology	10	35	14

Spring 2024	PHP 2440 – Introduction to Pharmacoepidemiology	16	37.5	0
Fall 2023	PHP 2490 – Methods in Pharmacoepidemiology	21	32.5	11
Spring 2023	PHP 2440 – Introduction to Pharmacoepidemiology	17	35	0
Spring 2022	PHP 2455B – Health Services Research Methods II	6	32.5	11
Fall 2021	PHP 2455A – Health Services Research Methods I	6	32.5	10
Spring 2021	PHP 2455B – Health Services Research Methods II	10	35	6

B. GUEST LECTURES

- 1) **Zullo AR.** “Competing Risks in Pharmacoepidemiology”. Brown University PHP2440 (Introduction to Pharmacoepidemiology). April 12, 2022.
- 2) **Zullo AR.** “Competing Risks in Pharmacoepidemiology”. Brown University PHP2440 (Introduction to Pharmacoepidemiology). April 7, 2021.
- 3) **Zullo AR.** “Survey Methodology: Weighting, Accounting for Sampling and Clustering”. Brown University PHP 2260 (Applied Epidemiologic Analysis Using SAS). March 10, 2016.
- 4) **Zullo AR.** “Pharmacovigilance: Spontaneous Reporting and Detecting Signals”. Brown University PHP 2440 (Introduction to Pharmacoepidemiology). Feb 18, 2016.
- 5) **Zullo AR.** “Hospitals”. Brown University PHP 0310 (Health Care in the United States). Mar 12, 2014.

C. MENTORING

Current Mentees and Trainees

Trainee Name	Type/Training Period	Thesis/ Project Title	Funding	Role
Nazifa Ibrahim	MPH, Brown University (2024 – Present)	Barriers to Healthcare Utilization and Adolescent Prescription Drug Misuse During COVID-19	N/A	Thesis Reader
Jimmie Roberts	Translational Research in Aging (T32) Post-Doctoral Research Fellow in Medicine, Hebrew SeniorLife, Beth Israel Deaconess	Development of a Summary Scale of the Burden of Medications Associated with Fall-Related Injuries	T32AG023480, PI L. Lipsitz; R01AG077620, PI A. Zullo	Mentor

	Medical Center, Harvard Medical School (2024 – Present)			
Zachary Sawyer	PGY2 Oncology Pharmacy Resident (2024 – Present)	Representation of Real-World Immunocompromised Patients in the PROVENT Trial of Tixagevimab-Cilgavimab	Lifespan Pharmacy	Research Preceptor
Chelsie Cintron	PhD Epidemiology, Brown University (2024-Present)	TBD	N/A	Dissertation Committee Member
Qingrong Li	MPH, Brown University (2024 – Present)	Diabetes Diagnosis and Use of Diabetes Medications Among Older Adult Medicare Beneficiaries Initiating Bisphosphonates	N/A	Thesis Reader
Sirui (Rita) Zhang	MPH, Brown University (2024 – Present)	Trends in Hypertension Treatment Before and After the COVID-19 Pandemic Among U.S. Nursing Home Residents With and Without Dementia, 2018-2022	N/A	Thesis Reader
Kamila Radjabova	MPH, Brown University (2024 – Present)	Renal Impairment I1500 in Minimum Data Set (MDS) 3.0: Agreement with Laboratory Value Records of Nursing Home Residents	N/A	Thesis Advisor
Esteban Fernández	PhD Biostatistics, Brown University (2024 – Present)	Bayesian Causal Inference Methods for Health Economics and Policy Evaluation	N/A	Dissertation Committee Member
Tiffany (Han- Chih) Hsieh	PhD Epidemiology, Brown University (2023 – Present)	Classification of Sequela after ExPEC-associated Sepsis	Sanofi Fellowship, PI A. Zullo	Academic Advisor
Alexandra Skinner	PhD Epidemiology, Brown University (2023 – Present)	A statewide examination of the address-level relationships between residential eviction proceedings and overdose events in Rhode Island	N/A	F31 Co- Mentor; Dissertation Committee Member
Jinying Chen	Real World Data Scholar LTCDC program, Assistant Professor, Boston University School of Medicine (2023 – Present)	Validating Free-text Medication Orders by Leveraging Natural Language Processing	IMPACT Collaboratory Real-World Data Scholars Program	Faculty Mentor
Rachel Baker	Assistant Professor, Brown Epidemiology Junior Faculty Mentoring Program (2023 – Present)	N/A	N/A	Faculty Mentor

Rupak Datta	Assistant Professor, Yale School of Medicine, (2021– Present)	Promoting Antimicrobial Stewardship in Home-Based Primary Care	NIA IMPACT Collaboratory Career Development Award (U54AG063546) , SHEA Epidemiology Competition Award, Yale CTSA (UL1 TR001863), Yale Program on Aging (P30AG021342)	Faculty Mentor
Fiona Bhondoekhan	PhD Epidemiology, Brown University (2021 – Present)	Incidence of Motor Vehicle Crashes among Adults with Mild to Moderate Alzheimer’s Disease Following Acetylcholinesterase Inhibitor Initiation	R01AG078759, PI K. Hayes; R01AG079295, PI N. Joyce	Research Assistantship Co- Advisor
Molly (Elizabeth) Stettenbauer	PhD Health Services Research, Brown University (2022 – Present)	Drug utilization and comparative effectiveness of treatments indicated for advanced-stage non-small cell lung cancer among U.S. adults aged 65 or older	1RF1AG061221 Site PI: A. Zullo, PI S. Berry	RAship Advisor; Academic Advisor
Thomas Bayer	Veterans Health Administration Office of Academic Affiliations Fellow, Providence VA Medical Center (2021 – Present)	Improving Transitions from Short-Term Rehabilitation to Home	VA Office of Academic Affiliations	Mentor
Yalin Deng	PhD, Health Services Research, Brown (2022 – Present)	N/A	N/A	Academic Advisor
Mir Moafi Madani	PhD, Epidemiology, Brown (2022 – Present)	Intergenerational social mobility, income volatility, and cardiovascular health	N/A	Academic Advisor
Anthony Roberts	PhD Health Services Research, Brown (2021 – Present)	Evaluating Racial/Ethnic Differences in Prosthesis Prescriptions, Outcomes, Healthcare Costs, and Utilization Among Veterans After Lower Limb Amputation.	Submitted AHRQ R36 grant	Academic Advisor; Dissertation Committee Member
Iju Shakya	PhD Epidemiology, Brown (2022 – Present)	Risk of upper gastrointestinal bleeding among new users of direct oral anticoagulants and	RAship 1RF1AG061221 Site PI: A.	RAship advisor

		who later initiate proton pump inhibitor co-therapy	Zullo, PI S. Berry; RAship R01AG077620 PI: A. Zullo	
Meghan Cupp	PhD Epidemiology, Brown (2020 – Present)	Treating pain in autoimmune disease: concurrent use of opioids and biologic medication	NIH R21AG061632P I A. Zullo.; F31AG081089 PI M. Cupp (Sponsor A. Zullo)	Research Assistantship Advisor; Dissertation Chair, F31 Mentor/Sponsor

Completed Mentees and Trainees

Trainee Name	Type/Training Period	Thesis/ Project Title	Funding	Role	Last Known Position
Selvam Sendhil	PhD Epidemiology, Brown University (2023 – 2024)	High Prevalence and Variable Duration of Potentially Clinically Significant Drug-Drug Interactions Among U.S. Nursing Home Residents	R01AG077620, PI A.Zullo	RAship Advisor	PhD Student, Brown University
Samantha Portis	Postdoctoral Research Fellow, Center for Alcohol and Addiction Studies, Brown University (2021 – 2024)	Metadoxine for Alcohol Use Disorder in Older Adults	K99/R00 Metadoxine as a novel pharmacotherapy for older adults with alcohol use disorder	K Award Mentor on Medication Studies in Older Adults	Assistant Professor of Psychological Sciences, University of Missouri-Columbia
Katelle Donkor	MPH Interdisciplinary, Brown University (2023 – 2024)	Evaluation of Long-Term Bisphosphonate Medication Use in Older Adults Prior to Long-term Nursing Facility Admissions.	N/A	Thesis Reader	Research Study Administrator, Boston University
Emily O'Neil	PhD Health Services Research, Brown University (2020 – 2024)	Evaluating Appropriate Medication Usage: Perspectives from Sub-Saharan Africa to the European Union	N/A	Academic Advisor	Doctoral Researcher at Brown University & Clinical Pharmacy Specialist at Lifespan

Joe Silva	PhD Health Services Research, Brown University (2020 – 2024)	Dissertation: Addressing racial/ethnic geographic disparities in COVID-19 health services and outcomes among nursing home residents with ADRD RAship: Understanding Variation in Vaccine Use using Geospatial and Health Services Research Methods (The “GEO-HSR” Study)	Sanofi Burdens of Infections; PI A. Zullo.; F31AG079607 PI J. Silva (Sponsor A. Zullo)	Academic Advisor; Research Assistants hip Advisor; Dissertation Chair, F31 Mentor/Sponsor	Epidemic Intelligence Service (EIS) at CDC. & Commissioned Corps of the United States Public Health Service
Kate Sine	MD, Warren Alpert Medical School, Brown University (2020 – 2023)	Patterns of prescription drug use before and after fall-related injury in under-resourced US Nursing Homes	RF1AG061221	Mentor and RAship Advisor	Medical Student at The Warren Alpert Medical School of Brown University
Christina Escobar	PGY1/PGY2 Health-System Pharmacy Administration and Leadership Pharmacy Resident (2022 – 2023)	N/A	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
Joe Camacho	PGY1 Clinical Pharmacy Resident (2022 – 2023)	N/A	Lifespan Pharmacy	Research Preceptor	PGY-2 Critical Care Resident at Hennepin County Medical Center
Kevin McConeghy	PhD Health Services Research, Brown (2021 – 2023)	Emulation of Target Trials to Evaluate COVID-19 Vaccine Safety and Effectiveness: Evidence Generated from U.S. Community Nursing Homes and the Veterans’ Health Administration	N/A	Dissertation Committee Member	Clinical Pharmacy Specialist and Investigator, Providence VA Medical Center

Cody Douglas	MPH, Brown (2021 – 2023)	N/A	RAship CGHCR	RAship advisor	Public Health Educator, Clinton County Health Department
Elisabeth Salisbury	PGY-2 Ambulatory Care Pharmacy Resident Lifespan Pharmacy, LLC. (2022-2023)	Impact of pharmacist-mediated refill authorization program on proton pump inhibitor (PPI) deprescribing success rates.	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
Amanda Hutchinson	PGY2 Hematology/Onc ology Pharmacy Resident (2022 – 2023)	Effectiveness of tixagevimab and cilgavimab as pre- exposure prophylaxis for COVID-19 infection in cancer patients	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
James Ning	PGY1/PGY2 Resident, Lifespan Pharmacy (2021 – 2023)	Development of buprenorphine/nalox one management protocol for trauma patients	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
Darlene Tat	MPH (2023)	Evaluation of Sliding Scale Insulin Therapy in Nursing Homes using Electronic Health Record Data	N/A	Thesis Reader	Pharmacy Department Coordinator – Analytics, Impact and Outcomes, Brown university Health
Arianna Allman	MPH (2023)	Concomitant use of tramadol and selective serotonin reuptake inhibitors in those who have experiences hip fracture	N/A	Thesis Advisor	Clinical Safety Scientist, Vertex Pharmaceutica ls
Nancy Liu	Sc.M. Biostatistics (2023)	Bayesian Competing Risks from a Causal Perspective	N/A	Thesis Reader	Biostatistician, Rutgers University

Abednego Commey	MPH, Brown (2020- 2022)	Racial and ethnic differences in pain medication prescriptions among older adults with hip fracture	N/A	Thesis Reader	Business Analyst, World Wide Technology
Hope MacLeod	PGY1/PGY2 Health System Administration Resident, Lifespan Pharmacy (2020 – 2022)	Clinical laboratory stewardship to improve the efficiency of care.	Lifespan Pharmacy	Research Preceptor	PGY2 Health-System Pharmacy Administration and Leadership Resident, Pharmacy System Manager of Education – Dartmouth Health
Hannah Means	PGY1/PGY2 Oncology Resident, Lifespan Pharmacy (2020 – 2022)	The impact of a penicillin delabeling pathway on care, clinical outcomes, and efficacy. / COVID-19 Vaccine Effectiveness in Oncology Populations	Lifespan Pharmacy	Research Preceptor	PGY2 Hematology/Oncology Pharmacy Resident
Erin Connolly	PGY2 Ambulatory Care Resident, Lifespan Pharmacy (2021 – 2022)	Impact of Clinical Pharmacist Involvement in Infliximab Biosimilar Switching at a Large Academic Medical Center	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist Specialist/ Rhode Island Hospital PGY-1 Pharmacy Residency Preceptor
Noelle Cordova	PGY2 Ambulatory Care Resident, Lifespan Pharmacy (2021 – 2022)	Impact of a pharmacist-driven anticoagulation protocol in the ambulatory setting	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacy Specialist – Gastroenterology, UT Southwestern Medical Center

Katherine Harte	PGY2 Ambulatory Care Resident, Lifespan Pharmacy (2021 – 2022)	Impact of pharmacist-driven collaborative practice diabetes management on SGLT2 inhibitor and GLP-1 receptor agonist utilization in patients with type 2 diabetes mellitus	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist Specialist in Neurology, Rhode Island Hospital
Ama Cobbinah	PGY1 Resident, Lifespan Pharmacy (2021 – 2022)	Penicillin Allergy De-Labeling in Primary Care	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist Case Manager, CenterLight Health System
Vanamrung Isaragumpot	PGY1 Resident, Lifespan Pharmacy (2021 – 2022)	Impact of early administration of four-factor prothrombin complex concentrate on hemostasis and bleed expansion in patients with traumatic intracranial hemorrhage on warfarin or oral factor-Xa inhibitors	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist Specialist in Critical Care, Rhode Island Hospital
Nicole Kalver	PGY1 Resident, Lifespan Pharmacy (2021 – 2022)	Factors Related to COVID-19 Vaccine Use in Kidney Transplant Recipients	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist, Brigham and Women's Hospital
Katie Konieczny	PGY1 Resident, Lifespan Pharmacy (2021 – 2022)	Evaluating the optimal anticonvulsant agent to reduce the risk of motor vehicle crash in epileptic older adults	Lifespan Pharmacy	Research Preceptor	Breast, Gynecology Clinical Oncology Pharmacist at Yale New Haven Hospital

Jason Gantenberg	Postdoctoral Fellow, Brown University (2021 – 2022)	Estimating RSV-attributable outcomes in newborns less than one year of age using real-world data	Sanofi RSV; PI. A. Zullo.	Primary Advisor	Research Scientist & Assistant Professor of Practice at Brown University CGHCR & CESH
Julie Gokhale	MPH, Brown University (2020 – 2022)	Estimating the Effect of Incident Dementia on Sleep Medication Use in Older Adults	NIH R01AG065722; PI A. Zullo.	Interim Thesis Advisor	Policy Intern, Rhode Island Department of Health
Hosam Mohamed	B.A., Tougaloo College (2018 – 2022); Leadership Alliance Summer Research Early Identification Program (SR-EIP) (2021 – 2022)	Outcomes of Drug Interactions at the Population Level: A Systematic Review	SR-EIP Funding Provided by Dr. Theresa Shireman	Primary Advisor/Mentor	Doctor of Pharmacy Student, University of Mississippi School of Pharmacy
Missy Riester	Postdoctoral Fellow, Brown University (2020 – 2022)	Multiple.	Sanofi Burdens of Infections; PI A. Zullo.	Primary Advisor	Research Scientist, Brown University CGHCR
Katherine Wen	Postdoctoral Fellow, Brown University (2021 – 2022)	Multiple.	N/A	Fellowship Advisor/Mentor	Assistant Professor, Vanderbilt University
Ralph Welwean	PhD Epidemiology, Brown (2021 – 2022)	Antibiotic Use in U.S. Nursing Homes	Sanofi Burdens of Infections; PI A. Zullo.	Research Assistantship Advisor	Doctoral Student, Brown University School of Public Health
Jason Gantenberg	PhD Epidemiology, Brown University (2017 – 2021)	Several, including “Effect of Alcohol Use on the Association Between Neighborhood-Level Characteristics and HIV/STIs”	AHRQ: K12 HS022998; PI. A. Zullo; Sanofi Burdens of Infections; PI. A. Zullo; Sanofi RSV; PI. A. Zullo.	Co-Primary Supervisor	Postdoctoral Fellow, Brown University School of Public Health

Matthew Duprey	Postdoctoral Fellow, Brown University (2020 – 2021)	Identification of Fall-related Injuries in Nursing Home Residents using Administrative Claims Data	NIH RF1AG061221; Site PI A. Zullo.	Primary Advisor	Assistant Professor, University of Kentucky College of Pharmacy
Lydia Ware	PGY1 Resident, Lifespan Pharmacy (2020 – 2021)	Economic assessment of sugammadex use in the operating room	Lifespan Pharmacy	Research Preceptor	PGY-2 Critical Care Pharmacy Resident at Brigham and Women's Hospital
Kali Bendix	PGY1 Resident, Lifespan Pharmacy (2020 – 2021)	Safety and effectiveness of different anticoagulation strategies in critically ill patients with COVID-19	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
Bianca Kohler	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2020 – 2021)	Comparative Effectiveness of Dipeptidyl Peptidase-4 Inhibitors and Sulfonylureas among Frail Older Adults	NIH RF1AG061221; Site PI A. Zullo; Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist
Mark Lasorsa	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2020 – 2021)	Comparative effects of antihypertensives on injurious falls in nursing home residents	NIH RF1AG061221; Site PI A. Zullo; Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist Specialist, Tufts Medical Center
Verona Abdelmeseh	PGY2 Resident Oncology, Lifespan Pharmacy (2020 – 2021)	Comparative cost savings of biosimilar and dose rounding utilization	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist, Hematology/Oncology, Beth Israel Deaconess Medical Center
Alyssa Capuano	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2020 – 2021)	Development of a model to predict injurious falls in nursing home residents	NIH RF1AG061221; Site PI A. Zullo; Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist Specialist, Endocrinology, Lifespan

Paige Dunton	PGY1 Resident, Lifespan Pharmacy (2020 – 2021)	Development of a risk-stratification tool for empiric anti-methicillin resistant staphylococcus aureus antibiotics from patient-specific risk factors in pneumonia	Lifespan Pharmacy	Research Preceptor	Clinical Pharmacist
Elliott Bosco	PhD Health Services Research, Brown University (2018 – 2021)	Use and Outcomes of Opioid and Nonopioid Analgesics Following Total Hip and Knee Arthroplasty in Older Adults	Sanofi Burdens of Infections; PI. A. Zullo.	Dissertation Chair; Academic Advisor	CDMO Radiopharmaceutical Project Manager at Evergreen Theragnostics
Samuel Shim	Sc.M. Epidemiology, Brown University (2019 – 2021)	Assessing the Effects of Micronutrients on Viral Infection in Humans: A Systematic Review and Meta-Analysis	N/A	Thesis Reader	Data Scientist at CRScube Inc.
Alissa Margraf	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2019 – 2020)	Development of a novel interdisciplinary deprescribing protocol for older adults.	ASHP Foundation Practice-Based Research Grant	Primary Advisor and Preceptor	Clinical Pharmacy Specialist – Specialty Pharmacy, Lifespan
Erin Dudolevitch	PGY1 Resident, Lifespan Pharmacy (2019 – 2020)	Optimization of Oral Liquid Medication Use in Pediatric Patients	Lifespan Pharmacy	Primary Advisor and Preceptor	Unknown
Mike Consaga	PGY1 Resident, Lifespan Pharmacy (2019 – 2020)	Safety of total dose infusions of low molecular weight intravenous iron dextran without a test dose	Lifespan Pharmacy	Primary Advisor and Preceptor	Critical Care Clinical Pharmacist, Rhode Island Hospital
Joe Silva	Sc.M. Epidemiology, Brown University (2018 – 2020)	Antiviral Chemoprophylaxis in Rhode Island Long-Term Care Facilities	Rhode Island Department of Health	Thesis Advisor	PhD Student at Brown University School of Public Health
Alexandra King	MPH Generalist, Brown University (2019 – 2020)	Statin adherence and associated cardiovascular hospitalizations among Medicare	N/A	Thesis Advisor	Senior Manager, Clinical Network Analytics at ChenMed

		Advantage beneficiaries			
Mark Sorial	PGY1 / PGY2 Resident, Lifespan Pharmacy (2018– 2020)	Several, including “Effects on heparin infusion rates after exogenous supplementation of antithrombin III in patients receiving ECMO”	Lifespan Pharmacy	Preceptor	Clinical Pharmacist Specialist – Lymphoma – Dana-Farber Cancer Institute
Melissa Riester	PGY1 / PGY2 Resident, Lifespan Pharmacy (2018– 2020)	Several, including “A machine learning transitions of care tool for pharmacists to predict chronic heart failure rehospitalization”	ASHP Foundation Practice-Based Research Grant	Preceptor	Postdoctoral Fellow, Brown University School of Public Health
Divya Santhanam	AB Health and Human Biology, Brown University (2018 – 2019)	Altering the Transition from Acute to Chronic Pain (ATTAC-Pain): A randomized clinical trial of duloxetine for the treatment and prevention of musculoskeletal pain.	N/A	Thesis Reader	Medical Student at Western University
Arielle Childs	Sc.M. Epidemiology, Brown University (2017 – 2019)	Systematic Review of the Burden of Respiratory Infections in Long-Term Care	Sanofi Pasteur; PI. A. Zullo	Primary Supervisor; Thesis Advisor	Senior Public Health Epidemiologist, State of Rhode Island
Alyssa Francis	MPH Generalist, Brown University (2018 – 2019)	Comparing Treatment Response in Younger versus Older Adults on Direct-Acting Antiviral Agents for Chronic Hepatitis C Virus	N/A	Thesis Reader	Medical Student at Texas Tech University Health Sciences Center
Allison Zuern	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2018 – 2019)	Impact of pharmacist intervention on chronic obstructive pulmonary disease outcomes	ACCP Ambulatory Care PRN; PI. A. Zuern	Primary Advisor and Preceptor	Clinical Pharmacy Specialist, Ambulatory Care Services, Rhode Island Hospital

Marci Wood	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2018 – 2019)	Effects of statins for secondary prevention in older nursing home residents	Lifespan Pharmacy	Primary Advisor and Preceptor	Pharmacist Clinician at The University of Vermont Medical Center
Jennifer Hutchinson	PGY2 Resident Oncology, Lifespan Pharmacy (2018 – 2019)	Effects of non-oral drugs for fracture prevention in frail older adults with cancer	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist, Breast Oncology, Massachusetts General Hospital
Amanda Mogul	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2017 – 2018)	Main Effect of Secondary Prevention Medication Use on Functional Outcomes, Death, and Rehospitalization in Older Nursing Home Residents after Acute Myocardial Infarction	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Assistant Professor, Pharmacy Practice School of Pharmacy and Pharmaceutical Sciences, Binghamton University
Katherine Duprey (Corsi)	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2017 – 2018)	Subgroup Effects of Secondary Prevention Medication Use on Functional Outcomes, Death, and Rehospitalization in Older Nursing Home Residents after Acute Myocardial Infarction	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist Specialist with Lifespan Pharmacy
Alicia Ortega	PGY2 Resident Oncology, Lifespan Pharmacy (2017 – 2018)	Discontinuation of medications after advanced cancer diagnosis in older nursing home residents	Lifespan Pharmacy	Primary Advisor and Preceptor	Pharmacist, Tucson, Arizona
Sadia Sharmin	Sc.M. Epidemiology, Brown University (2016 – 2018)	Dose- and Drug-Specific Effects of Sulfonylureas on Cognitive and Physical Functioning in Older Nursing Home Residents	AHRQ: K12 HS022998; PI. A. Zullo.	Primary Supervisor	Strategic Information Analyst at Interior Health, Canada

Anthony Scotina	PhD Biostatistics, Brown University (2017 – 2018)	Estimation of Multi-Treatment Effects from Observational Data with Applications to Diabetes Mellitus	PCORI: HSRP20153342; PI. R. Gutman	Thesis Reader	Assistant Professor and Program Director for Data Sciences, Simmons University
Brian Gilbert	BS Applied Mathematics, Brown University (2017 – 2018)	Principal Stratification for Comparative Safety of Diabetes Medications in Nursing Home Residents	N/A	Secondary Advisor	PhD Student, Statistics, Johns Hopkins University School of Public Health
Joella Adams	PhD Epidemiology, Brown University (2016 – 2017)	Effect of Adolescent Alcohol Use of the Associations Between Neighborhood-Level Characteristics and HIV/STIs	N/A	Summer Thesis Reader	Research Epidemiologist, RTI International
Geetanjoli Banerjee	PhD Epidemiology, Brown University (2014 – 2016)	Geographic and Facility Variation in Hip Fracture Among United States Long-Stay Nursing Home Residents	NIH: R01 AG045441; PI. S. Berry	Supervisor	Senior Manager, HEOR, Medical Health Outcomes Research, Biogen
Melissa Riester (Previte)	PharmD Student, Lifespan Pharmacy and URI (2017)	Patterns of sugammadex use for the reversal of short-acting non-depolarizing neuromuscular blocking agents	Lifespan Pharmacy	Secondary Advisor	Postdoctoral Fellow, Brown University School of Public Health
Matthew Olean	APPE Research PharmD Student, Lifespan Pharmacy (2017)	Adverse Effects of Beta-Blockers in Older Nursing Home Residents after Acute Myocardial Infarction	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist Specialist at Cambridge Health Alliance
Elliott Bosco	APPE Research PharmD Student, Lifespan Pharmacy (2016)	Controlled substance diversion in health systems: failure mode and effects analysis for prevention	Lifespan Pharmacy	Primary Advisor and Preceptor	Investigator, Brown University School of Public Health
Tina Gao	MPH, Brown University	Risk factors for not being tested for HIV	N/A	Thesis Reader	Study Coordinator at

	(2014 – 2016)	among young adolescents in NYC			Albert Einstein College of Medicine
Katherine Caine	BA, Brown University (2014 – 2015)	The Effect of Economic Interventions on HIV Transmission in Vulnerable Populations: A Systematic Review	Brown University; PI. A. Zullo	Project Advisor	Senior Manager, Corporate Innovation, gener8tor
Karla Ganley	BA, Brown University (2014 – 2015)	Socioeconomic Status and Return to Clinic Among Male Sex Workers in Mexico City	Brown University; PI. A. Zullo	Project Advisor	MD-PhD Student, University of Florida College of Medicine
Nicholas Weeden	BA, Brown University (2014 – 2015)	Socioeconomic status and CD4 count among MSWs at high risk of contracting HIV	Brown University; PI. A. Zullo	Project Advisor	Technical Solutions Engineer at Verily Life Sciences
Claire Postman	BA, Brown University (2014 – 2015)	Self-Identification: Insurance Status and Sex Work in Mexico City	Brown University; PI. A. Zullo	Project Advisor	Law School Student, Columbia University
Robert Brunault	PGY2 Resident Oncology, Lifespan Pharmacy (2016 – 2017)	Managing diabetes mellitus in nursing home residents with advanced cancer: a national study	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacy Specialist, Hematology/Oncology, Lifespan
Safiya Naidjate	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2016 – 2017)	Comparative Effectiveness of Pharmacist Hepatitis C Virus Clinic Care Delivery Models	ASHP Foundation; PI. S. Naidjate	Primary Advisor and Preceptor	Clinical Pharmacist Specialist at Lifespan
Michelle Hersey	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2016 – 2017)	Outcomes of “diabetes-friendly” versus “diabetes-unfriendly” beta-blockers in older nursing home residents with diabetes after acute myocardial infarction	Lifespan Pharmacy	Primary Advisor and Preceptor	Ambulatory Care Clinical Pharmacy Specialist at Rhode Island Hospital
Laura McAuliffe (Hunt)	PGY2 Resident Ambulatory Care, Lifespan Pharmacy	Development and validation of the MEDCOINS transitions of care	ASHP Foundation; PI. L. McAuliffe	Primary Advisor and Preceptor	Clinical Pharmacy Specialist-Ambulatory

	(2015 – 2016)	pharmacist tool to predict potentially avoidable 30-day readmissions			Care/Transitions of Care; Director, PGY-2 Ambulatory Care Residency Program, Lifespan
Olga Yankulina	PGY2 Resident Oncology, Lifespan Pharmacy (2015 – 2016)	Pertuzumab-associated Diarrhea in HER2/neu Positive Breast Cancer Patients: A Comparison of Trials to Actual Practice	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacy Specialist (Oncology), Henry Ford Health System
Hao Deng	MPH, Brown University (2014 – 2015)	Outcomes of Beta-blockers in Older Nursing Home Residents after Acute Myocardial Infarction	NIH: R01 HL111032; PI. M. Steinman	Primary Supervisor	Assistant Professor, Harvard Medical School
Hannah Fudin	PGY2 Resident Ambulatory Care, Lifespan Pharmacy (2014 – 2015)	Renal Transplant Patient Opinions of Home Electronic Blood Pressure Monitoring (HeBPM): An Exploratory Qualitative Study	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacist-Women's Clinic, Transgender Clinic, Metabolic & Obesity Clinic at U.S. Department of Veterans Affairs
Uvette Lou	PGY2 Resident Oncology, Lifespan Pharmacy (2014 – 2015)	Overuse and Underuse of Pegfilgrastim for Primary Prophylaxis of Febrile Neutropenia	Lifespan Pharmacy	Primary Advisor and Preceptor	Clinical Pharmacy Specialist - Medical Oncology at Massachusetts General Hospital

11. SELECTED BROADCAST MEDIA QUOTING ANDREW ZULLO OR ZULLO ET AL. PAPERS

- 1) Maxmen, A. (2023) A new COVID vaccine is here, but those at greatest risk may not get it as outreach drops off, PBS. Available at: <https://www.pbs.org/newshour/health/a-new-covid-vaccine-is-here-but-those-at-greatest-risk-may-not-get-it-as-outreach-drops-off>

- 2) Puckrein, Gary. "Increasing Vaccination Rates in Nursing Homes and Communities of Color". 2023 CMS Quality Conference. May 1st, 2023. Presenter: Joe BB. Silva.
<https://www.youtube.com/watch?v=ONi9mDQndbo>
- 3) Matthews, Samantha. "Deprescribing Among Older Adults With Dementia". Annals of Long-Term Care Newsletter. March 10th, 2022.
- 4) Asimopoulos, Maria. "Influenza, Respiratory Syncytial Virus Linked to Rehospitalizations in Postacute Setting." *Annals of Long-Term Care Newsletter*. January 1st, 2022.
- 5) Bluth, Rachel. "Looking for Bargains, Many Americans Buy Medicines Abroad". *National Public Radio (NPR)*. December 17th, 2016.

12. SELECTED TEXT MEDIA QUOTING ANDREW ZULLO OR ZULLO ET AL. PAPERS

- 1) 'You can no longer drive, and good luck': Figuring out how long it's safe to drive has become the third rail of aging. *Boston Globe*. October 30th, 2024.
<https://www.bostonglobe.com/2024/10/30/metro/older-drivers-car-crashes-driving/>
- 2) Clinic-Embedded Pharmacists Bridge The Biosimilars Gap. *Pharmacy Practice News*. September 6th, 2022. <https://www.pharmacypracticenews.com/Operations-and-Management/Article/09-22/Clinic-Embedded-Pharmacists-Bridge-The-Biosimilars-Gap/67996>
- 3) How pharmacists can be 'deprescribing champions'. *Lown Institute*. June 3rd 2019.
<https://lowninstitute.org/news/blog/how-pharmacists-can-be-deprescribing-champions/>
- 4) Pros, Cons to Multiple Meds for Nursing Home Residents. *Drugs.com*. April 10th 2019.
<https://www.drugs.com/news/pros-cons-multiple-meds-nursing-home-residents-81649.html>
- 5) Schwenk, Thomas. Post-Myocardial Infarction Beta-Blockers and Functional Decline in Nursing Home Residents. *NEJM Journal Watch*. December 20th, 2016.
- 6) Bluth, Rachel. Faced with Unaffordable Drug Prices, Tens of Millions Buy Medicine Outside U.S. *Kaiser Health News*. December 20th, 2016.
- 7) Predit, Robert. Beta Blockers May Not Be Best Heart Drugs for Dementia Patients. *U.S. News and World Report*. December 12th, 2016.

13. LICENSES & CERTIFICATIONS

- Registered Pharmacist (RPH05164) 2012 - Present
Rhode Island Department of Health
- Registered Pharmacist (28RI03517000) 2012 - Present
New Jersey Department of Health
- Mentoring Training Program 2019
Advance-CTR (U54GM115677)
- Teaching Certificate in Research Mentorship 2015
Sheridan Center for Teaching and Learning, Brown University

- Teaching Certificate in Reflective Teaching 2014
Sheridan Center for Teaching and Learning, Brown University

14. PROFESSIONAL LEAVES

- Bereavement Jan 2015 - Mar 2015

15. RESEARCH SUMMARY

My research focuses on the use, comparative safety, and comparative effectiveness of medications in older adults, especially those who receive post-acute care in institutional settings or who reside in long-term care facilities. Since there is little or no evidence to support treatment decisions for many important subgroups of older adults receiving medications in clinical practice, my work seeks to generate such evidence. To achieve this overarching aim, I employ a diverse set of quantitative methods to large routinely collected administrative and clinical data.