

CURRICULUM VITAE**TINGTING ZHANG****PERSONAL INFORMATION**

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EDUCATION

2005	Bachelor's Degree, Clinical Medicine, Capital University of Medical Sciences, Beijing, China
2006	M.Sc., Population and Public Health, Simon Fraser University, Burnaby, Canada
2013	Ph.D., Pharmacoepidemiology, University of British Columbia, Vancouver, Canada
2016	Post-doctoral Fellow, University of British Columbia, Vancouver, Canada

APPOINTMENTS

2016-Current	Assistant Professor, Brown University School of Public Health
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HONORS AND AWARDS

2014-2016	Post-doctoral fellowship, Multiple Sclerosis Society of Canada
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MEMBERSHIP IN SOCIETIES

2018-current	The American Geriatrics Society
2018-current	The International Association of Providers of AIDS Care (IAPAC)

SERVICES

<i>Journal manuscript reviewer</i>	
BMJ	
American Journal of Preventive Medicine and Public Health	
BMC Public Health	
British Journal of Dermatology	
Disability and Health Journal	
Health Promotion and Chronic Disease Prevention in Canada	
Clinical Interventions in Aging	
PLoS One	
<i>Conference abstract reviewer</i>	
American Geriatrics Society Annual Conference 2019	
The International Association of Providers of AIDS Care (IAPAC) Adherence 2019	
American Geriatrics Society Annual Conference 2020	
The International Association of Providers of AIDS Care (IAPAC) Adherence 2020	
The International Association of Providers of AIDS Care (IAPAC) Adherence 2021	

The International Association of Providers of AIDS Care (IAPAC) Adherence 2022
<i>Service to the University</i>
School of Public Health: judge of posters and presentations, April 2022

PUBLICATIONS

Manuscripts under review

Schmidt C, Borgia M, **Zhang T**, Shireman TI and Resnik L. Initial treatment approaches and healthcare utilization among veterans with low back pain. BMC Health Services Research. Accepted on February 25, 2023.

Hayes KN, **Zhang T**, Kim D, Daiello LA, Lee Y, Kiel DP, Berry SD and Zullo AR. Benefits and Harms of Standard versus Reduced-Dose Direct Oral Anticoagulant Therapy for Multimorbid Older Adults with Atrial Fibrillation. Journal of the American Heart Association. 2022. Under review.

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. Under review.

Zhang T, McCreedy E, Dionne L, Conard R and Mor V. Agreement of antipsychotic use between nursing home electronic records and Minimum Data Set. J Am Med Dir Assoc. 2022. Under review.

Zhang T, Zullo AR, James H, Lee Y, Abel J, Taylor D and Daiello L. The burden and treatment of chronic constipation among U.S. nursing home residents. J Am Med Dir Assoc. 2022. Under review.

Ryskina K, Lo D, **Zhang T**, Gerlach L, Bynum J and Shireman TI. Potentially Harmful Medication Prescribing by the Degree of Physician Specialization in Nursing Home Practice. J Am Med Dir Assoc. 2023. Under review.

Manuscripts published

Zhang T, Thomas KS, Zullo AR, Coe AB, Gerlach LB, Daiello LA, Varma H, Lo D, Joshi R, Bynum JPW and Shireman TI. State Variation in Antipsychotic Use among Assisted Living Residents with Dementia. J Am Med Dir Assoc. Epub February 22, 2023.

Coe AB, **Zhang T**, Zullo AR, Gerlach LB, Thomas KS, Daiello LA, Varma H, Lo D, Joshi R, Shireman TI, Bynum JPW. Psychotropic medication prescribing in assisted living and nursing home residents with dementia after the National Partnership. J Am Geriatr Soc. 2022 Dec;70(12):3513-3525.

Zhang T, Shireman TI, Meyers DJ, Zullo A, Lee Y, Wilson IB. Use of antiretroviral therapy in nursing home residents with HIV. *J Am Geriatr Soc.* 2022 Jun;70(6):1800-1806. doi: 10.1111/jgs.17763. Epub 2022 Mar 25. PMID: 35332518.

Baier RR, Jump RLP, **Zhang T**, Kabbani S, Gifford DR, Gravenstein S. Feasibility of a Nursing Home Antibiotic Stewardship Intervention. *J Am Med Dir Assoc.* 2022 Jun;23(6):1025-1030.

T Zhang, IB Wilson, AR Zullo, DJ Meyers, Y Lee and LA Daiello et al. Hip fracture rates in nursing home residents with and without HIV. *J Am Med Dir Assoc.* 2022 Mar;23(3):517-518.

KK Haubrick, EA Gadbois, SE Campbell, J Young, **T Zhang**, SA Rizvi, TI Shireman and RR Shield. The Lived Experiences of Adults with Multiple Sclerosis. *Rhode Island Medical Journal.* 2021;104(6):38-42.

T Zhang, IB Wilson, B Youn, Y Lee and TI Shireman. Use of antiretroviral therapy for a US Medicaid enrolled pediatric cohort with HIV. *AIDS and Behavior.* 2021;25(8):2455-2462.

HS Ng, E Kingwell, F Zhu, **T Zhang**, RA Marrie, R Carruthers and H Tremlett. Adherence to laboratory monitoring among people taking oral drugs for multiple sclerosis: A Canadian population-based study. *Mult Scler.* 2021;27(2):239-249.

E Kingwell, **T Zhang**, F Zhu, R Walld, R Carruthers, and C Evans et al. Short-term laboratory and related safety outcomes for the multiple sclerosis oral disease-modifying therapies: an observational study. 2021;1-7.

T Zhang, IB Wilson, B Youn, Y Lee and TI Shireman. Factors Associated With Antiretroviral Therapy Reinitiation in Medicaid Recipients With Human Immunodeficiency Virus. *The Journal of Infectious Diseases.* 2020;221(10):1607-1611.

T Zhang, M Goodman, F Zhu, B Healy, R Carruthers and T Chitnis et al. Phenome-wide examination of comorbidity burden and multiple sclerosis disease severity. *Neurology - Neuroimmunology Neuroinflammation.* 2020; 7 (6).

KW McConeghy, AR Zullo, CW Lary, **T Zhang**, Y Lee and L Daiello et al. Association Between Bisphosphonates and Hospitalized *Clostridioides difficile* Infection Among Frail Older Adults. *J Am Med Dir Assoc.* 2020;21(5):688-691.

JM Michaud, **T Zhang**, TI Shireman, Y Lee and IB Wilson. Hazard of Cervical, Oropharyngeal, and Anal Cancers in HIV-infected and HIV-uninfected Medicaid Beneficiaries. *Cancer Epidemiology and Prevention Biomarkers.* 2020 July.

Shireman T.I., Ogarek J., Gozalo P., **Zhang T.**, Mor V., Davidson H.E., Han L, Talijsaard M. and Gravenstein S. Cost benefit of high-dose vs standard-dose influenza vaccine in a long-term care population during an a H1N1-predominant influenza season. *Journal of the American Medical Directors Association.* 2019;20(7):874-878.

Zhang T, Lary, C.W., Zullo, A.R., Lee, Y, Daiello, L, Kiel, D.P. and Berry, S.D. Post-hip fracture mortality in nursing home residents by obesity status. *Journal of the American Geriatrics Society (JAGS)*. Epub 2019 June 12.

Amir O, Berry SD, Zullo AR, Kiel DP and **Zhang T**. Incidence of hip fracture in Native American residents of U.S. nursing homes. *Bone*. Epub 2019 Apr 3.

Zhang T, Jambhekar B, Kumar A, Rizvi SA, Resnik L and Shireman TI. Assessing the effects of post-acute rehabilitation services on health care outcomes for people with multiple sclerosis. *Multiple Sclerosis and Related Disorders*. Epub 2019 Mar 5.

Sine K, Lee Y, Zullo AR, Daiello, LA, **Zhang T** and Berry SD. Incidence of Lower Extremity Fractures in U.S. Nursing Homes. *Journal of the American Geriatrics Society (JAGS)*. Epub 2019 Feb 27.

Zullo AR, **Zhang T**, Lee Y, McConeghy KW, Daiello LA, Kiel DP, Mor V, Berry SD. Effect of Bisphosphonates on Fracture Outcomes Among Frail Older Adults. *Journal of the American Geriatrics Society (JAGS)*. 2018. Dec 21. [Epub ahead of print].

Zhang T, Zullo AR, Shireman TI, Lee Y, Mor V, Liu Q, McConeghy KW, Daiello L, Kiel DP and Berry SD. Epidemiology of hip fracture in nursing home residents with multiple sclerosis. *Disabil Health J*. 2018 Mar 21. pii: S1936-6574(18)30041-4. PMID: 29598927

McKay K.A., Tremlett H, Fisk J.D., **Zhang T**, Patten S.B., Kastrukoff L. et al. Psychiatric comorbidity is associated with disability progression in multiple sclerosis. *Neurology*. 2018 Apr 10;90(15):e1316-e1323.

Zullo A.R., **Zhang T**, Banerjee G, Lee Y, McConeghy K.W., Kiel D. P., Daiello L.A., Mor V and Berry S.D. Facility and State Variation in Hip Fracture among US Nursing Home Residents. *Journal of the American Geriatrics Society*. 2018 Mar;66(3):539-545.

Zullo AR, **Zhang T**, Beaudoin FL, Lee Y, McConeghy KW, Kiel DP, Daiello LA, Mor V and Berry SD. Pain Treatments After Hip Fracture Among Older Nursing Home Residents. *Journal of the American Medical Directors Association*. 2018 Feb;19(2):174-176.

Zhang T, Tremlett H, Zhu F, Kingwell E, Fisk JD, Bhan V, Campbell T, Stadnyk K, Carruthers R, Wolfson C, Warren S, Marrie RA. Effects of physical comorbidities on disability progression in multiple sclerosis: a population-based analysis. *Neurology*. Epub. January 3, 2018, DOI: <https://doi.org/10.1212/WNL.0000000000004885>.

Zullo A.R., **Zhang T**, Beaudoin F, Lee Y, McConeghy K.W., Kiel D. P., Daiello L.A., Mor V and Berry S.D. Pain Treatments after Hip Fracture among Older Nursing Home Residents. *JAMDA*. 2017. Doi: 10.1016/j.jamda.2017.

Zhang T, Kingwell E, Zhu F, Petkau J, Kastrukoff L.F., Marrie R.A., Tremlett H and Evans C. Effects of adherence to the first-line injectable immunomodulatory drugs on disability

accumulation in multiple sclerosis: a longitudinal cohort study. *BMJ Open*.2017;7:e018612. doi: 10.1136/bmjopen-2017-018612.

Zhang T, Tremlett H, Tennakoon A, Leung S, Zhu F, Kingwell et al. Examining the effects of comorbidities on disease-modifying therapy use in multiple sclerosis. *Neurology*.2016;86:1287-95.

Zhang T, Kingwell E, Hilda DJ, Zhu F, Zhao Y, Carruthers R et al. Association between selective serotonin reuptake inhibitors use and multiple sclerosis disability progression. *Pharmacoepidemiology & Drug Safety*. 2016;25(10):1150-1159.

Bardal S, Smith A, Luo H, **Zhang T**, Groeneweg G, Jimenez Mendez R et al. Asthma in British Columbia: are we finally breathing easier? A population-based study of the burden of disease over 14 years. *Journal of Asthma*. July 14, 2016:1-10.

Zhang T, Shirani A, Zhao Y, Ehsanul Karim M, Gustafson P and Petkau J et al. Exposure to beta-interferon and onset of secondary progressive multiple sclerosis. *European Journal of Neurology*. 2015; 22(6):990-1000.

Zhang T, Smith A, Camp P and Carleton B. High use of health services in patients with suboptimal asthma drug regimens: a population-based assessment in British Columbia, Canada. *Pharmacoepidemiology & Drug Safety*. 2013 Jul;22(7):744-51.

Zhang T, Smith A, Camp P, MacLeod S and Carleton B. Prescription drug dispensing profiles for one million children: a population-based analysis. *Eur J Clin Pharmacol*. 2013 Mar;69(3):581-8.

Camp P, **Zhang T**, Smith A and Carleton B. The use of long-acting beta2-agonists as monotherapy in children and adults. *Journal of Population Therapeutics and Clinical Pharmacology*. 2013;20(1):e1-e12.

Chawla J, Seear M, **Zhang T**, Smith A and Carleton B. Fifty years of pediatric asthma in developed countries: how reliable are the basic data sources? *Pediatric Pulmonology*. 2012;47(3):211-9.

Zhang T, Carleton B, Smith A and Prosser R. The Added Burden of Comorbidity in Patients with Asthma. *Journal of Asthma*. 2009;46(10):1021-6.

PRESENTATIONS

Invited presentations

Age-related co-morbidities in MS. American Academy of Neurology. Breakthroughs in Neurology. Orlando, Florida, January 2018.

Drug Utilization in the Pediatric Population of British Columbia: A Comparison with a National Study. Third Annual Conference & AGM “Leaders, Innovators & Healers in Child and Youth Health Research, Vernon, British Columbia, Canada, November 2008.

Other presentations*Oral presentations*

Low Antiretroviral Therapy Adherence in a National Pediatric Cohort with HIV in the United States, 14th International Conference on HIV Treatment and Prevention Adherence	June 2019
Those Less Care Engaged and Females Are Less Likely to Re-start HIV Antiretroviral Therapies: An Analysis of 12 Years US Medicaid Data. 13th International Conference on HIV Treatment and Prevention Adherence	June 2018
Incidence of hip fracture in Native American residents of U.S. nursing homes. The Gerontological Society of America (GSA) 2018 Annual Scientific Meeting	November 2018

Poster presentations

The burden of chronic constipation and its treatment among US nursing home residents. The Annual Meeting of American College of Gastroenterology	October 2020
Use of nursing home electronic health data in the measure of outcomes for a nursing home antibiotic stewardship program Academy Health	June 2020
Effects of comorbidities on functional decline in nursing home residents with multiple sclerosis. The American Geriatrics Society 2018 Annual Meeting	May 2018
Temporal trends in age and function for long-stay nursing home residents with multiple sclerosis. The American Geriatrics Society 2018 Annual Meeting	May 2018
Prescription drug burden and hip fracture risk in nursing home residents. The American Geriatrics Society 2018 Annual Meeting	May 2018

GRANTS*Ongoing grants*

Title	Emergency department community health worker-peer recovery navigation for linkage to recovery: A mixed methods evaluation
PI	Elizabeth Samuels
Role	Co-investigator
Funding Agency	Centers for Disease Control and Prevention (CDC)
Start Date	11-01-2022
End Date	10-31-2025

Title	Safe Cardiometabolic Drug Prescribing to Prevent Injury in the Nursing Home
PI	Berry S
Funding Agency	National Institute on Aging
Start Date	07-15-2019
End Date	02-28-2023

Title	Emergency department community health worker-peer recovery navigation for linkage to recovery: A mixed methods evaluation
PI	Elizabeth Samuels
Role	Co-investigator
Funding Agency	CDC
Start Date	11-01-2022
End Date	10-31-2025

Title	Use of antiretroviral therapy in older people with HIV during care transition
PI	Zhang T
Funding Agency	CFAR Developmental Award
Start Date	10-01-2021
End Date	09-30-2022

Title	The Relationship Between Social Determinants of Health and Health Status Among Adults 18-64 years in Rhode Island
MPIs	Zhang T/Baird J
Funding Agency	Thundermist Health Center
Start Date	12-01-2021
End Date	11-30-2022

Title	METRICAL – Music & Memory: a Pragmatic Trial for Nursing Home Residents with Alzheimer’s Disease
PI	Mor V
Role	Co-investigator
Funding Agency	National Institute on Aging
Start Date	09-15-2017
End Date	05-31-2022 (NCE)

Title	The impact of cost sharing on medication adherence in the MHS for both non-retirees and retirees
PI	Wilson I
Role	Co-investigator
Funding Agency	Department of Defense
Start Date	01-01-2020
End Date	12-31-2022

Completed grants

Title	Aging, comorbid conditions, and health care utilization in persons with HIV
PI	Wilson I
Role	Co-investigator
Sponsor	National Institute of Mental Health (NIMH)
Start Date	04-01-2014
End Date	02-28-2019

Title	Disparities in Nursing Home Care Quality for Patients Living with HIV/AIDS
PI	Wilson I
Role	Co-investigator
Sponsor	National Institute of Mental Health (NIMH)
Start Date	07-11-2016
End Date	04-30-2020

Title	A Clinical Prediction Tool to Guide Treatment of Osteoporosis in the Nursing Home
PI	Berry S
Role	Co-investigator
Sponsor	National Institute on Aging
Start Date	09-30-2016
End Date	09-29-2019

Title	Implementation of the Core Elements of Antimicrobial Stewardship in Nursing Homes
PI	Baier R
Role	Co-investigator
Sponsor	Centers for Disease Control and Prevention (CDC)
Start Date	09-30-2016
End Date	09-29-2019

Title	Assessing safety monitoring in patients taking oral multiple sclerosis treatments (ASYMPTOTE)
PI	Tremlett H
Sponsor	Multiple Sclerosis Society of Canada
Start Date	10-01-2015
End Date	09-30-2018

UNIVERSITY TEACHING AND MENTORING ROLES

May 2018	Guest Lecture	Pharmacoepidemiology, Maternal Child Prescription Exposure
2018	Thesis Reader	Sadia Sharmin, Department of Epidemiology, Brown

		University
2018	Thesis Reader	Kayla Haubrick, Brown University School of Public Health
2018	Thesis Reader	Pengyang Fan, Brown University School of Public Health
December 2020-April 2021	Course project mentor	James Hannah, PhD Candidate, Brown University School of Public Health
January 2021-current	Mentor (of data analysis)	Richa Joshi (data analyst), Brown University School of Public Health
November 2020-current	Mentor (of data analysis)	Derrick Lo, MPH student (currently data analyst of the Center for Gerontology and Healthcare Research), Brown University School of Public Health
September 2021-current	Mentor of research projects	Ryan Conard, PhD student, Brown University School of Public Health
January 2022-current	Mentor (of data analysis)	Tianye Cui, MSc Candidate, Department of Biostatistics, Brown University School of Public Health
June 2022-current	Mentor (of data analysis)	Sirui Cui, Candidate, Department of Biostatistics, Brown University School of Public Health
September 2022 – May 2023	Mentor of thesis project	Linda Wakamoto, Undergraduate Student, Brown University School of Public Health