

Evan L. Thacker, PhD

Assistant Professor, Department of Health Science, Brigham Young University

Curriculum Vitae – February 2017

CONTACT INFORMATION

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EDUCATION

BS, <i>cum laude</i>	Neuroscience	Brigham Young University (BYU)	2003
Certificate	Gerontology	BYU	2003
SM (MS)	Epidemiology	Harvard School of Public Health (HSPH)	2005
PhD	Epidemiology	University of Washington (UW) School of Public Health	2011

ACADEMIC POSITIONS

Statistician	Dept of Epidemiology	U of Alabama at Birmingham (UAB)	2011 – 2013
Assistant Professor	Dept of Health Science	BYU	2013 – present
Faculty Affiliate	Gerontology Program	BYU	2017 – present

SCHOLARSHIP

Peer-reviewed research articles

Web of Science / Scopus citations: >300 citations of my first-authored articles; >700 citations overall.

See research article #35 onward for involvement of BYU student authors.

1. **Thacker EL***, Mirzaei F*, Ascherio A. Infectious mononucleosis and risk for multiple sclerosis: a meta-analysis. *Annals of Neurology*. 2006 Mar;59(3):499-503. Epub 2006 Feb 17. DOI: 10.1002/ana.20820. PMID: 16502434. **Equal contributions.*

2. **Thacker EL**, Schneeweiss S. Initiation of acetylcholinesterase inhibitors and complications of chronic airways disorders in elderly patients. *Drug Safety*. 2006 Nov;29(11):1077-1085. DOI: 10.2165/00002018-200629110-00007. PMID: 17061913.
3. **Thacker EL**, O'Reilly EJ, Weisskopf MG, Chen H, Schwarzschild MA, McCullough ML, Calle EE, Thun MJ, Ascherio A. Temporal relationship between cigarette smoking and risk of Parkinson disease. *Neurology*. 2007 Mar 6;68(10):764-768. DOI: 10.1212/01.wnl.0000256374.50227.4b. PMID: 17339584. PMCID: PMC2225169.
4. **Thacker EL**, Chen H, Patel AV, McCullough ML, Calle EE, Thun MJ, Schwarzschild MA, Ascherio A. Recreational physical activity and risk of Parkinson's disease. *Movement Disorders*. 2008 Jan;23(1):69-74. Epub 2007 Oct 25. DOI: 10.1002/mds.21772. PMID: 17960818. PMCID: PMC2387117.
5. **Thacker EL**, Ascherio A. Familial aggregation of Parkinson's disease: a meta-analysis. *Movement Disorders*. 2008 Jun 15;23(8):1174-1183. Epub 2008 Apr 28. DOI: 10.1002/mds.22067. PMID: 18442112.
6. **Thacker EL**, Wiggins KL, Rice KM, Longstreth WT Jr, Bis JC, Dublin S, Smith NL, Heckbert SR, Psaty BM. Short-term and long-term risk of incident ischemic stroke after transient ischemic attack. *Stroke*. 2010 Feb;41(2):239-243. Epub 2009 Dec 3. DOI: 10.1161/STROKEAHA.109.569707. PMID: 19959534. PMCID: PMC2818812.
7. Tobacco and Genetics Consortium. Furberg H, Kim Y, Dackor J, Boerwinkle E, Franceschini N, Ardissino D, Bernardinelli L, Mannucci PL, Mauri F, Merlini PA, Absher D, Assimes TL, Fortmann SP, Iribarren C, Knowles JW, Quertermous T, Ferrucci L, Tanaka T, Bis JC, Furberg CD, Haritunians T, McKnight B, Psaty BM, Taylor KD, **Thacker EL**, Almgren P, Groop L, Ladenvall C, Boehnke M, Jackson AU, Mohlke KL, Stringham HM, Tuomilehto J, Benjamin EJ, Hwang SJ, Levy D, Preis SR, Vasan RS, Duan J, Gejman PV, Levinson DF, Sanders AR, Shi J, Lips EH, McKay JD, Agudo A, Barzan L, Bencko V, Benhamou S, Castellsague X, Canova C, Conway DI, Fabianova E, Foretova L, Janout V, Healy CM, Holcátová I, Kjaerheim K, Lagiou P, Lissowska J, Lowry R, Macfarlane TV, Mates D, Richiardi L, Rudnai P, Szeszenia-Dabrowska N, Zaridze D, Znaor A, Lathrop M, Brennan P, Bandinelli S, Frayling TM, Guralnik JM, Milaneschi Y, Perry JR, Altshuler D, Elosua R, Kathiresan S, Lucas G, Melander O, O'Donnell CJ, Salomaa V, Schwartz SM, Voight BF, Penninx BW, Smit JH, Vogelzangs N, Boomsma DI, de Geus EJ, Vink JM, Willemsen G, Chanock SJ, Gu F, Hankinson SE, Hunter DJ, Hofman A, Tiemeier H, Uitterlinden AG, van Duijn CM, Walter S, Chasman DI, Everett BM, Paré G, Ridker PM, Li MD, Maes HH, Audrain-McGovern J, Posthuma D, Thornton LM, Lerman C, Kaprio J, Rose JE, Ioannidis JP, Kraft P, Lin DY, Sullivan PF. Genome-wide meta-analyses identify multiple loci associated with smoking

behavior. *Nature Genetics*. 2010 May;42(5):441-447. Epub 2010 Apr 25. DOI: 10.1038/ng.571. PMID: 20418890. PMCID: PMC2914600.

8. Ton TG, Jain S, Boudreau R, **Thacker EL**, Strotmeyer ES, Newman AB, Longstreth WT, Checkoway H. Post-hoc Parkinson's disease: identifying an uncommon disease in the Cardiovascular Health Study. *Neuroepidemiology*. 2010 Nov;35(4):241-249. Epub 2010 Sep 24. DOI: 10.1159/000319895. PMID: 20881426. PMCID: PMC2978249.
9. Garg RK, Glazer NL, Wiggins KL, Newton KM, **Thacker EL**, Smith NL, Siscovick DS, Psaty BM, Heckbert SR. Ascertainment of warfarin and aspirin use by medical record review compared with automated pharmacy data. *Pharmacoepidemiology and Drug Safety*. 2011 Mar;20(3):313-316. Epub 2010 Dec 23. DOI: 10.1002/pds.2041. PMID: 21351314. PMCID: PMC3181009.
10. Jain S, Ton TG, Boudreau RM, Yang M, **Thacker EL**, Studenski S, Longstreth WT Jr, Strotmeyer ES, Newman AB. The risk of Parkinson disease associated with urate in a community-based cohort of older adults. *Neuroepidemiology*. 2011 Jul;36(4):223-229. Epub 2011 Jun 16. DOI: 10.1159/000327748. PMID: 21677446. PMCID: PMC3124452.
11. **Thacker EL**, Psaty BM, McKnight B, Heckbert SR, Longstreth WT Jr, Mukamal KJ, Meigs JB, de Boer IH, Boyko EJ, Carnethon MR, Kizer JR, Tracy RP, Smith NL, Siscovick DS. Fasting and post-glucose load measures of insulin resistance and risk of ischemic stroke in older adults. *Stroke*. 2011 Dec;42(12):3347-3351. Epub 2011 Oct 13. DOI: 10.1161/STROKEAHA.111.620773. PMID: 21998054. PMCID: PMC3226936.
12. Ton TG, Jain S, Biggs ML, **Thacker EL**, Strotmeyer ES, Boudreau R, Newman AB, Longstreth WT Jr, Checkoway H. Markers of inflammation in prevalent and incident Parkinson's disease in the Cardiovascular Health Study. *Parkinsonism and Related Disorders*. 2012 Mar;18(3):274-278. Epub 2011 Nov 26. DOI: 10.1016/j.parkreldis.2011.11.003. PMID: 22119505. PMCID: PMC3288759.
13. Britton KA, Mukamal KJ, Ix JH, Siscovick DS, Newman AB, de Boer IH, **Thacker EL**, Biggs ML, Gaziano JM, Djoussé L. Insulin resistance and incident peripheral artery disease in the Cardiovascular Health Study. *Vascular Medicine*. 2012 Apr;17(2):85-93. Epub 2012 Mar 8. DOI: 10.1177/1358863X11436195. PMID: 22402937. PMCID: PMC3563259.
14. David SP*, Hamidovic A*, Chen GK*, Bergen AW, Wessel J, Kasberger JL, Brown WM, Petruzella S, **Thacker EL**, Kim Y, Nalls MA, Tranah GJ, Sung YJ, Ambrosone CB, Arnett D, Bandera EV, Becker DM, Becker L, Berndt SI, Bernstein L, Blot WJ, Broeckel U, Buxbaum SG, Caporaso N, Casey G, Chanock SJ, Deming SL, Diver WR, Eaton CB, Evans DS, Evans MK, Fornage M, Franceschini N, Harris TB, Henderson BE, Hernandez DG, Hitsman B, Hu JJ, Hunt SC, Ingles SA, John EM, Kittles R, Kolb S, Kolonel LN, Le Marchand L, Liu Y, Lohman KK, McKnight B, Millikan RC, Murphy A, Neslund-Dudas C, Nyante S, Press M, Psaty BM, Rao DC,

Redline S, Rodriguez-Gil JL, Rybicki BA, Signorello LB, Singleton AB, Smoller J, Snively B, Spring B, Stanford J, Strom SS, Swan GE, Taylor KD, Thun MJ, Wilson AF, Witte JS, Yamamura Y, Yanek LR, Yu K, Zheng W, Ziegler RG, Zonderman AB, Jorgenson E**, Haiman CA**, Furberg H**. Genome-wide meta-analyses of smoking behaviors in African Americans. *Translational Psychiatry*. 2012 May 22;2:e119. DOI: 10.1038/tp.2012.41. PMID: 22832964. PMCID: PMC3365260. *Equal contributions. **Equal contributions.

15. Jain S, Ton TG, Perera S, Zheng Y, Stein PK, **Thacker E**, Strotmeyer ES, Newman AB, Longstreth WT Jr. Cardiovascular physiology in premotor Parkinson's disease: a neuroepidemiologic study. *Movement Disorders*. 2012 Jul;27(8):988-995. Epub 2012 Jun 14. DOI: 10.1002/mds.24979. PMID: 22700356. PMCID: PMC3652377.
16. **Thacker EL**, McKnight B, Psaty BM, Longstreth WT Jr, Dublin S, Jensen PN, Newton KM, Smith NL, Siscovick DS, Heckbert SR. Association of body mass index, diabetes, hypertension, and blood pressure levels with risk of permanent atrial fibrillation. *Journal of General Internal Medicine*. 2013 Feb;28(2):247-253. Epub 2012 Sep 13. DOI: 10.1007/s11606-012-2220-4. PMID: 22972153. PMCID: PMC3614136.
17. Jensen PN, **Thacker EL**, Dublin S, Psaty BM, Heckbert SR. Racial differences in the incidence of and risk factors for atrial fibrillation in older adults: the Cardiovascular Health Study. *Journal of the American Geriatrics Society*. 2013 Feb;61(2):276-280. Epub 2013 Jan 15. DOI: 10.1111/jgs.12085. PMID: 23320758. PMCID: PMC3878638.
18. Brown TM, Tanner RM, Carson AP, Yun H, Rosenson RS, Farkouh ME, Woolley JM, **Thacker EL**, Glasser SP, Safford MM, Muntner P. Awareness, treatment, and control of LDL cholesterol are lower among U.S. adults with undiagnosed diabetes versus diagnosed diabetes. *Diabetes Care*. 2013 Sep;36(9):2734-2740. Epub 2013 May 1. DOI: 10.2337/dc12-2318. PMID: 23637349. PMCID: PMC3747886.
19. **Thacker EL**, McKnight B, Psaty BM, Longstreth WT Jr, Sitlani CM, Dublin S, Arnold AM, Fitzpatrick AL, Gottesman RF, Heckbert SR. Atrial fibrillation and cognitive decline: a longitudinal cohort study. *Neurology*. 2013 Jul 9;81(2):119-125. Epub 2013 Jun 5. DOI: 10.1212/WNL.0b013e31829a33d1. PMID: 23739229. PMCID: PMC3770176.
20. Soliman EZ, Safford MM, Muntner P, Khodneva Y, Dawood FZ, Zakai NA, **Thacker EL**, Judd S, Howard VJ, Howard G, Herrington DM, Cushman M. Atrial fibrillation and the risk of myocardial infarction. *JAMA Internal Medicine*. 2014 Jan;174(1):107-114. Epub 2013 Nov 4. DOI: 10.1001/jamainternmed.2013.11912. PMID: 24190540. PMCID: PMC4115282. Erratum in JAMA Intern Med. 2014 Feb 1;174(2):308.

21. Ton TG, Biggs ML, Comer D, Curtis L, Hu SC, **Thacker EL**, Searles Nielsen S, Delaney JA, Landsittel D, Longstreth WT Jr, Checkoway H, Jain S. Enhancing case ascertainment of Parkinson's disease using Medicare claims data in a population-based cohort: the Cardiovascular Health Study. *Pharmacoepidemiology and Drug Safety*. 2014 Feb;23(2):119-127. Epub 2013 Dec 13. DOI: 10.1002/pds.3552. PMID: 24357102. PMCID: PMC3923620.
22. Vimalananda VG, Biggs ML, Rosenzweig JL, Carnethon MR, Meigs JB, **Thacker EL**, Siscovick DS, Mukamal KJ. The influence of sex on cardiovascular outcomes associated with diabetes among older black and white adults. *Journal of Diabetes and Its Complications*. 2014 May-Jun;28(3):316-322. Epub 2013 Dec 26. DOI: 10.1016/j.jdiacomp.2013.12.004. PMID: 24461547. PMCID: PMC4004690.
23. Levitan EB, Tanner RM, Zhao H, Muntner P, **Thacker EL**, Howard G, Glasser SP, Bittner V, Farkouh ME, Rosenson RS, Safford MM. Secular changes in rates of coronary heart disease, fatal coronary heart disease, and out-of-hospital fatal coronary heart disease. *International Journal of Cardiology*. 2014 Jun 15;174(2):436-439. Epub 2014 Apr 13. DOI: 10.1016/j.ijcard.2014.04.027. PMID: 24767755. PMCID: PMC4059018.
24. **Thacker EL**, Muntner P, Zhao H, Safford MM, Curtis JR, Delzell E, Bittner V, Brown TM, Levitan EB. Claims-based algorithms for identifying Medicare beneficiaries at high estimated risk for coronary heart disease events: a cross-sectional study. *BMC Health Services Research*. 2014 Apr 29;14:195. DOI: 10.1186/1472-6963-14-195. PMID: 24779477. PMCID: PMC4101858.
25. Cushman M, Judd SE, Howard VJ, Kissela B, Gutiérrez OM, Jenny NS, Ahmed A, **Thacker EL**, Zakai NA. N-terminal pro-B-type natriuretic peptide and stroke risk: the Reasons for Geographic and Racial Differences in Stroke cohort. *Stroke*. 2014 Jun;45(6):1646-1650. Epub 2014 Apr 22. DOI: 10.1161/STROKEAHA.114.004712. PMID: 24757103. PMCID: PMC4142424.
26. Carson AP, Tanner RM, Yun H, Glasser SP, Woolley JM, **Thacker EL**, Levitan EB, Farkouh ME, Rosenson RS, Brown TM, Howard G, Safford MM, Muntner P. Declines in coronary heart disease incidence and mortality among middle-aged adults with and without diabetes. *Annals of Epidemiology*. 2014 Aug;24(8):581-587. Epub 2014 May 22. DOI: 10.1016/j.annepidem.2014.05.007. PMID: 24970491. PMCID: PMC4135722.
27. **Thacker EL**, Gillett SR, Wadley VG, Unverzagt FW, Judd SE, McClure LA, Howard VJ, Cushman M. The American Heart Association Life's Simple 7 and incident cognitive impairment: the REasons for Geographic And Racial Differences in Stroke (REGARDS) study. *Journal of the American Heart Association*. 2014 Jun 11;3(3):e000635. DOI: 10.1161/JAHA.113.000635. PMID: 24919926. PMCID: PMC4309046.

28. Howard G, Wagenknecht LE, Kernan WN, Cushman M, **Thacker EL**, Judd SE, Howard VJ, Kissela BM. Racial differences in the association of insulin resistance with stroke risk: the REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Stroke*. 2014 Aug;45(8):2257-2262. Epub 2014 Jun 26. DOI: 10.1161/STROKEAHA.114.005306. PMID: 24968932. PMCID: PMC4430474.
29. **Thacker EL**, Jensen PN, Psaty BM, McKnight B, Longstreth WT Jr, Dublin S, Newton KM, Smith NL, Siscovick DS, Heckbert SR. Use of statins and antihypertensive medications in relation to risk of long-standing persistent atrial fibrillation. *Annals of Pharmacotherapy*. 2015 Apr;49(4):378-386. Epub 2015 Jan 27. DOI: 10.1177/1060028014568447. PMID: 25628466. PMCID: PMC4562688.
30. Kamel H, Bartz TM, Longstreth WT Jr, Okin PM, **Thacker EL**, Patton KK, Stein PK, Gottesman RF, Heckbert SR, Kronmal RA, Elkind MSV, Soliman EZ. Association between left atrial abnormality on ECG and vascular brain injury on MRI in the Cardiovascular Health Study. *Stroke*. 2015 Mar;46(3):711-716. Epub 2015 Feb 12. DOI: 10.1161/STROKEAHA.114.007762. PMID: 25677594. PMCID: PMC4342300.
31. Gillett SR, **Thacker EL**, Letter AJ, McClure LA, Wadley VG, Unverzagt FW, Kissela BM, Kennedy R, Glasser SP, Levine DA, Cushman M. Correlates of incident cognitive impairment in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *The Clinical Neuropsychologist*. 2015 Jul;29(4):466-486. Epub 2015 May 15. DOI: 10.1080/13854046.2015.1042524. PMID: 25978342. PMCID: PMC4504009.
32. Brutsaert EF, Shitole S, Biggs ML, Mukamal KJ, de Boer IH, **Thacker EL**, Barzilay JI, Djousse L, Ix JH, Smith NL, Kaplan RC, Siscovick DS, Psaty BM, Kizer JR. Relations of post-load and fasting glucose with atherosclerotic cardiovascular disease and mortality late in life: the Cardiovascular Health Study. *Journals of Gerontology Series A: Biological Sciences and Medical Sciences*. 2016 Mar;71(3):370-377. Epub 2015 Aug 27. DOI: 10.1093/Gerona/glv106. PMID: 26314953.
33. **Thacker EL**, Soliman EZ, Pulley L, Safford MM, Howard G, Howard VJ. Investigation of selection bias in the association of race with prevalent atrial fibrillation in a national cohort study: REasons for Geographic And Racial Differences in Stroke (REGARDS). *Annals of Epidemiology*. 2016 Aug;26(8):534-549. Epub 2016 Jul 13. DOI: 10.1016/j.annepidem.2016.06.012. PMID: 27480477. PMCID: PMC5040466.
34. Cushman M, Callas PW, McClure LA, Unverzagt FW, Howard VJ, Gillett SR, **Thacker EL**, Wadley VG. N-terminal pro-B-type natriuretic peptide and risk of future cognitive impairment in the REGARDS cohort. *Journal of Alzheimer's Disease*. 2016 Sep 6;54(2):497-503. DOI: 10.3233/JAD-160328. PMID: 27567834.

35. Kuźma E*, Airdrie J*, Littlejohns TJ, Lourida I, Thompson-Coon J, Lang IA, Scrobotovici M^G, **Thacker EL**, Fitzpatrick A, Kuller LH, Lopez OL, Longstreth WT Jr, Ukoumunne OC, Llewellyn DJ. Coronary artery bypass graft surgery and dementia risk in the Cardiovascular Health Study. *Alzheimer's Disease and Associated Disorders*. In press. *Equal contributions. ^GBYU graduate student author.

Submitted manuscripts

1. Ehlert AN^{UG}, Heckbert SR, Wiggins KL, **Thacker EL**. Administrative billing codes accurately identify occurrence of electrical cardioversion and ablation/maze procedures in atrial fibrillation patients. ^{UG}BYU undergraduate student author.

Other scholarly publications

1. **Thacker EL**. The United States Long-Term Care Ombudsman Program: understanding the real-life circumstances underlying resident complaint data. *Expert Review of Pharmacoeconomics and Outcomes Research*. 2006 Dec;6(6):619-622. DOI: 10.1586/14737167.6.6.619. PMID: 20528486.
2. **Thacker E**. Interaction between prestroke cognitive performance and incident stroke in predicting risk of dementia. *Stroke*. 2008 Jul;39(7):e106. Epub 2008 May 22. DOI: 10.1161/STROKEAHA.107.515890. PMID: 18497325.

Conference abstracts

[O] denotes oral presentation, [MP] denotes moderated poster presentation, [P] denotes poster presentation, [RA#] denotes that the work is now published as a peer-reviewed research article as numbered above, and [SM#] denotes that the work is now a submitted manuscript as numbered above.

See abstract #28 onward for involvement of BYU student authors.

1. [O] [RA#3] **Thacker EL**, O'Reilly E, Weisskopf MG, Chen H, Schwarzschild MA, McCullough ML, Calle EE, Thun MJ, Ascherio A. Temporal relationship between cigarette smoking and risk of Parkinson's disease. *American Academy of Neurology Annual Meeting, San Diego, CA, April 2006*.
2. [P] [RA#2] **Thacker E**, Schneeweiss S. Initiation of acetylcholinesterase inhibitors and acute exacerbation of chronic obstructive pulmonary disease. *North American Congress of Epidemiology, Seattle, WA, June 2006*.
3. [O] [RA#4] **Thacker EL**, Chen H, Patel AV, McCullough ML, Calle EE, Thun MJ, Schwarzschild MA, Ascherio A. Recreational physical activity and risk of Parkinson's disease. *American Academy of Neurology Annual Meeting, Boston, MA, May 2007*.

4. [P] Hindorff L, **Thacker E**, Rice K, Psaty B, Rosendaal F, Reitsma P, Heckbert S. CYP2C9 and VKORC1 genetic variation and bleeding events in patients with atrial fibrillation. *Leducq International Network Against Thrombosis (LINAT) Annual Meeting, Oklahoma City, OK, May 2008.*
5. [O] [P] [RA#6] **Thacker EL**, Wiggins KL, Longstreth WT Jr, Bis JC, Rice KM, Dublin S, Smith NL, Heckbert SR, Psaty BM. Short term and long term risk of first ischemic stroke after transient ischemic attack. *Oral: NHLBI Cardiovascular Epidemiology, Biostatistics, and Prevention Trainee Session, Palm Harbor, FL, March 2009. Poster: American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, Palm Harbor, FL, March 2009; Poster: Leducq International Network Against Thrombosis (LINAT) Annual Meeting, Leuven, Belgium, May 2009.*
6. [P] [RA#8] Ton TG, Jain S, Boudreau R, **Thacker EL**, Strotmeyer ES, Rhodes S, Newman A, Longstreth WT Jr, Checkoway H. Development of an algorithm to identify Parkinson's disease in the Cardiovascular Health Study. *American Academy of Neurology Annual Meeting, Seattle, WA, April 2009.*
7. [P] [RA#10] Jain S, Ton TG, Boudreau RM, **Thacker EL**, Studenski S, Rhodes SL, Longstreth WT Jr., Strotmeyer ES, Newman AB. Urate and the risk of Parkinson disease in a community-based population in the United States (Cardiovascular Health Study). *International Congress of Parkinson's Disease and Movement Disorders, Paris, France, June 2009.*
8. [O] [P] [RA#11] **Thacker EL**, Siscovick DS, Psaty BM, Boyko EJ, McKnight B, Heckbert SR, Smith NL, Longstreth WT Jr, de Boer IH, Carnethon MR, Mukamal KJ, Kizer JR. Fasting insulin and incident ischemic stroke: the Cardiovascular Health Study. *Oral: NHLBI Cardiovascular Epidemiology, Biostatistics, and Prevention Trainee Session, San Francisco, CA, March 2010. Poster: American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, San Francisco, CA, March 2010.*
9. [MP] [RA#16] **Thacker EL**, McKnight B, Psaty BM, Longstreth WT Jr, Dublin S, Jensen PN, Newton KM, Smith NL, Siscovick DS, Heckbert SR. Associations of demographic and medical history factors with recurrence of atrial fibrillation and progression to permanent atrial fibrillation. *American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, Atlanta, GA, March 2011.*
10. [O] [RA#15] Jain S, Ton TG, Perera S, Zheng Y, **Thacker EL**, Studenski S, Longstreth WT Jr, Strotmeyer ES, Newman AB. Electrocardiographic abnormalities are associated with higher risk of Parkinson's disease in a community-based cohort of older adults. *American Academy of Neurology Annual Meeting, Honolulu, HI, April 2011.*

11. [P] [RA#12] Ton TG, Jain S, **Thacker EL**, Strotmeyer ES, Boudreau R, Newman AB, Longstreth WT, Checkoway H. Markers of inflammation in prevalent and incident Parkinson's disease in the Cardiovascular Health Study. *American Academy of Neurology Annual Meeting, Honolulu, HI, April 2011.*
12. [O] [P] [RA#19] **Thacker EL**, McKnight B, Psaty BM, Longstreth WT Jr, Sitlani CM, Arnold AM, Fitzpatrick AL, Dublin S, Gottesman RF, Heckbert SR. Atrial fibrillation and cognitive decline: the Cardiovascular Health Study. *Oral: American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, San Diego, CA, March 2012; Poster: University of Alabama at Birmingham Center for Aging Annual Symposium, Birmingham, AL, October 2012.*
13. [P] [RA#17] Jensen PN, **Thacker EL**, Dublin S, Psaty BM, Heckbert SR. Racial differences in the incidence of and risk factors for atrial fibrillation in older adults: the Cardiovascular Health Study. *American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, San Diego, CA, March 2012.*
14. [P] [RA#29] **Thacker EL**, Jensen PN, Psaty BM, McKnight B, Longstreth WT Jr, Dublin S, Newton KM, Smith NL, Siscovick DS, Heckbert SR. Use of statins and antihypertensive medications in relation to recurrence of atrial fibrillation and progression to permanent atrial fibrillation. *American Heart Association Cardiovascular Disease Epidemiology and Prevention Conference, San Diego, CA, March 2012.*
15. [O] [RA#22] Vimalananda VG, Biggs ML, Rosenzweig JL, Carnethon MR, Meigs JB, **Thacker EL**, Siscovick DS, Mukamal KJ. Effects of sex and race on risk of congestive heart failure, coronary heart disease, and mortality in older adults with diabetes. *American Diabetes Association Scientific Sessions, Philadelphia, PA, June 2012.*
16. [O] [P] [RA#25] Cushman M, Judd SE, Howard VJ, **Thacker EL**, Ahmed A, Jenny NS, Kissela B, Zakai NA. Amino-terminal Pro-B-type natriuretic peptide (NT-Pro-BNP) and risk of stroke: the Reasons for Geographic and Racial Differences in Stroke (REGARDS) cohort. *Oral: American Heart Association International Stroke Conference, Honolulu, HI, February 2013. Poster: American Heart Association Scientific Sessions, Dallas, TX, November 2013.*
17. [P] [RA#26] Muntner P, Tanner R, Yun H, Carson A, Glasser S, Howard G, **Thacker E**, Farkouh M, Rosenson RS, Brown T, Safford M, Levitan EB. Decline in coronary heart disease incidence and mortality among middle-aged adults with diabetes from 1987-1993 through 2003-2009. *American College of Cardiology Annual Meeting, San Francisco, CA, March 2013.*
18. [P] [RA#20] Soliman EZ, Safford M, Muntner P, Khodneva Y, Judd S, Dawood F, **Thacker E**, Zakai NA, Howard V, Howard G, Herrington D, Cushman M. Atrial fibrillation is a risk factor for

incident myocardial infarction. *American College of Cardiology Annual Meeting, San Francisco, CA, March 2013.*

19. [MP] [P] [RA#27] **Thacker EL**, Gillett SR, Wadley VG, Unverzagt FW, Judd SE, McClure LA, Howard VJ, Cushman M. Life's Simple 7 and incident cognitive impairment: The REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *Moderated poster: American Heart Association Epidemiology and Prevention Conference, New Orleans, LA, March 2013; Poster: UAB Center for Aging Annual Symposium, Birmingham, AL, October 2012; UAB Public Health Research Day, Birmingham, AL, April 2013; Alabama Public Health Association Annual Meeting, Birmingham, AL, April 2013.*
20. [P] [RA#33] **Thacker EL**, Soliman EZ, Pulley L, Safford MM, Howard VJ, Howard G. Atrial fibrillation, black or white race, and research study participation in a national cohort study: the REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *American Heart Association Epidemiology and Prevention Conference, New Orleans, LA, March 2013.*
21. [P] [RA#28] Howard G, Wagenknecht LE, Cushman M, **Thacker EL**, Judd SE, Howard VJ, Kissela BM. Could there be an offsetting impact of insulin resistance on ischemic stroke and intracerebral hemorrhage? the REasons for Geographic And Racial Differences in Stroke (REGARDS) Study. *American Heart Association Epidemiology and Prevention Conference, New Orleans, LA, March 2013.*
22. [P] Gillett SR, McClure LA, Callas PW, **Thacker EL**, Unverzagt FW, Wadley VG, Letter AJ, Cushman M. Elevated hemostasis biomarkers are associated with incident cognitive decline in the REasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *American Heart Association Epidemiology and Prevention Conference, New Orleans, LA, March 2013.*
23. [P] [RA#21] Ton TG, Biggs ML, Comer D, Curtis L, Hu S, **Thacker E**, Searles Nielsen S, Delaney JC, Landsittel D, Longstreth WT, Checkoway H, Jain S. Enhancing case ascertainment of Parkinson's disease using Medicare claims data in a population-based cohort: the Cardiovascular Health Study. *American Academy of Neurology Annual Meeting, San Diego, CA, March 2013.*
24. [O] [RA#34] Cushman M, Callas PW, McClure LA, Wadley V, Unverzagt F, Gillett SR, **Thacker EL**, Howard VJ. Amino-terminal Pro-B-type Natriuretic Peptide (NT-pro-BNP) And Risk of Cognitive Decline: The Reasons for Geographic And Racial Differences in Stroke (REGARDS) Cohort. *American Heart Association Scientific Sessions, Dallas, TX, November 2013.*
25. [O] Wadley VG, **Thacker EL**, Letter AJ, Unverzagt FW, Moy CS, Clark DG, McClure LA, Howard VJ, Cushman M, Levine DA, Kelley BJ, Kleindorfer D, Kissela B, Howard G. Low cognitive scores in domains of learning, memory or executive function predict incident stroke: the REGARDS study. *American Heart Association International Stroke Conference, San Diego, CA, February 2014.*

26. [P] [RA#32] Brutsaert E, Shitole S, Biggs ML, Mukamal K, de Boer I, **Thacker E**, Barzilay J, Djousse L, Ix JH, Smith N, Kaplan R, Siscovick D, Psaty B, Kizer J. Relations and predictive value of post-load and fasting glucose for incident cardiovascular disease and mortality in older adults: the Cardiovascular Health Study. *American Heart Association Scientific Sessions, Chicago, IL, November 2014.*
27. [P] [RA#30] Kamel H, Bartz T, Longstreth WT Jr, Okin P, **Thacker E**, Patton K, Stein P, Gottesman R, Heckbert S, Kronmal R, Elkind M, Soliman E. Association between left atrial abnormality on ECG and vascular brain injury on MRI in the Cardiovascular Health Study. *American Heart Association International Stroke Conference, Nashville, TN, February 2015.*
28. [O] Schank C^G, Blades NJ, Chaudhry SI, Dodson JA, Longstreth WT Jr, Heckbert SR, Psaty BM, Arnold AM, Dublin S, Sitlani CM, Gardin JM, Thielke SM, Nanna M, Gottesman RF, Newman AB, **Thacker EL**. Incident heart failure and longitudinal cognitive trajectories in the Cardiovascular Health Study. *American Heart Association Epidemiology and Prevention Conference, Baltimore, MD, March 2015.* ^GBYU graduate student author.
29. [P] Karki R^G, Marker R^G, Cushman M, Gillett SR, Judd SE, Kennedy RE, Kizer JR, Levine DA, McClellan WM, Kurella Tamura M, Unverzagt FW, Wadley VG, Blades NJ, **Thacker EL**. Adiponectin, leptin, resistin and incident cognitive impairment in the REasons for Geographic And Racial Differences in Stroke study (REGARDS). *Society for Epidemiologic Research Conference, Denver, CO, June 2015.* ^GBYU graduate student author.
30. [O] Unverzagt FW, Wadley VG, McClure LA, Kelly BJ, Tsivgoulis G, Alexander AS, **Thacker EL**, Howard VJ. Incident cognitive impairment in the REGARDS Study: rates and risk factors. *Gerontological Society of America Annual Scientific Meeting, Orlando, FL, November 2015.*
31. [MP] Harding MC^{UG}, Sloan CD, Merrill RM, Harding TM^{UG}, Thacker BJ, **Thacker EL**. Transition from cardiovascular disease to cancer as the leading cause of death in US states, 1999-2013. *American Heart Association Epidemiology and Prevention Conference, Phoenix, AZ, March 2016.* ^{UG}BYU undergraduate student author.
32. [P] Palmer V^{UG}, Nielsen N^{UG}, Cox A^{UG}, Bradshaw B^{UG}, Brown M^{UG}, Barney T^{UG}, Graul R^{UG}, Torgersen B^{UG}, Tuttle C^{UG}, **Thacker E**, Johnston J. Development of a model to predict preadolescent children's indoor PM₁₀ exposures. *National Environmental Health Association Annual Educational Conference, San Antonio, TX, June 2016; Utah Environmental Health Association Conference, Brigham City, UT, September 2016.* ^{UG}BYU undergraduate student author.
33. [O] [RA#35] Kuźma E, Airdrie J, Littlejohns TJ, Lourida I, Thompson-Coon J, Lang IA, Scrobotovoci M^G, **Thacker E**, Fitzpatrick A, Kuller LH, Lopez OL, Longstreth WT Jr, Ukoumunne OC, Llewellyn DJ. Coronary artery bypass graft surgery and dementia risk in the Cardiovascular Health Study. *Alzheimer's Association International Conference, Toronto, Canada, July 2016.* ^GBYU graduate student author.

34. [P] [SM#1] Ehlert AN^{UG}, Heckbert SR, Wiggins KL, **Thacker EL**. Administrative billing codes accurately identify occurrence of electrical cardioversion and ablation/maze procedures in atrial fibrillation patients. *American Heart Association Epidemiology and Prevention Conference, Portland, OR, March 2017*. ^{UG}BYU undergraduate student author.
35. [P] Ernstsén L, Sui X, Howard VJ, Wadley VG, **Thacker E**. Estimated Cardiorespiratory Fitness and Incident Cognitive Impairment: Results From the REGARDS Study. *American College of Sports Medicine Conference, Denver, CO, June 2017*.

Mentored research with BYU graduate students

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|------------------------|---|----------------|
| 1. Christa Schank | Heart failure and cognitive decline
<i>See conference abstract #28 above; manuscript in progress</i> | 2013 – 2014 |
| 2. Monica Scrobotovici | Coronary heart disease and cognitive decline
<i>Manuscript proposal approved; data analysis in progress</i> | 2013 – 2015 |
| 3. Reena Karki | Adipokine biomarkers and cognitive impairment
<i>See conference abstract #29 above; manuscript in progress</i> | 2013 – 2015 |
| 4. Rachel Marker | Adipokine biomarkers and cognitive impairment
Coronary heart disease and cognitive decline
<i>Data analysis and manuscripts in progress; assisted with Scrobotovici & Karki projects listed above</i> | 2014 – 2016 |
| 5. Emarie Covey | Cardiovascular health and cognitive decline
<i>Continuation of Westra project listed below</i> | 2016 – present |

Mentored research with BYU undergraduate students

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| 1. Hilary Collins | Atrial fibrillation and stroke
<i>Manuscript proposal partially completed; AHA Undergraduate Student Research Program grant application submitted (not funded)</i> | 2014 |
| 2. Yarazeth Martinez | Coronary heart disease and cognitive decline
<i>Assisted with Scrobotovici manuscript proposal listed above</i> | 2014 |
| 3. Jordan Westra | Cardiovascular health and cognitive decline
<i>Manuscript proposal approved; data analysis partially completed; BYU ORCA grant application submitted (not funded)</i> | 2014 – 2015 |

4. Catherin Pena Exercise and depression in older adults 2015
Independent study literature review completed (not pursuing publication)
5. Michael Harding Cardiovascular mortality and cancer mortality trends 2015 – 2016
See conference abstract #31 above; data analysis and manuscript in progress; BYU ORCA grant application funded 2016
6. Paul Bradshaw Role of telomeres in aging and aging-related diseases 2016
Independent study literature review completed (not pursuing publication)
7. Paloma Martinez Maternal smoking during pregnancy and offspring overweight 2016
Review article in progress
8. Afton Jensen Cross-cultural comparison of successful aging 2016
Review article in progress
9. Alexa Ehlert Accuracy of billing codes for cardiovascular procedures 2016 – present
Cardiovascular health and cognitive decline
See submitted manuscript #1 and conference abstract #34 above; also continuation of Westra project listed above; BYU ORCA grant application funded 2017
10. Natalia Nielsen Physical activity and breathing zone PM₁₀ exposure 2016 – present
Co-mentoring with Jim Johnston; data analysis and manuscript in progress; BYU ORCA grant application submitted (not funded)
11. Vanessa Palmer Physical activity and breathing zone PM₁₀ exposure 2016
Assisted with Nielsen project listed above
12. Matthew Dungan Cross-cultural comparison of successful aging 2016 – present
Assisting with Jensen review article listed above

Competitive research funding obtained as a BYU faculty member

1. BYU College of Life Sciences, James Bobbitt heart disease research award Jan 2015 – Dec 2015
Cardiovascular health and cardiovascular disease prevention in older adults
Role: PI Funded amount: \$10,000

Research funding history prior to BYU faculty appointment

These grants funded me as a research assistant or staff member during my graduate and post-doctoral training; I was not involved in the grant writing.

1. NINDS R01 NS048517 PI: Alberto Ascherio (HSPH) 2005 – 2007
NSAIDs, inflammation, and Parkinson's disease
Role: Research assistant
2. NHLBI R01 HL085251 PI: Bruce M. Psaty (UW) 2007 – 2010
Genome-wide case-only study of antihypertensive drug-gene interactions
Role: Research assistant / graduate student
3. NHLBI R01 HL068986 PI: Susan R. Heckbert (UW) 2010 – 2011
Atrial fibrillation: incidence, risk factors, and genetics
Role: Research assistant / graduate student
4. NINDS U01 NS041588 PI: George Howard (UAB) 2011 – 2013
Etiology of geographic and racial differences in stroke
Role: Epidemiologist / statistician
5. Amgen, Inc. 200709824 PI: Paul Muntner (UAB) 2012 – 2013
Cardiovascular disease prevention, treatment, and outcomes
Role: Epidemiologist / statistician

TEACHING

University courses taught as a BYU faculty member

1. Chronic Diseases: Prevention and Control (HLTH 310; undergraduate course) 2013 – present
>470 students across 10 sections: Fa2013, Wi2014, Fa2014 (2 sections), Wi2015, Su2015, Fa2015, Wi2016, Fa2016, Wi2017
2. Introduction to Biostatistics (HLTH 447; undergraduate course) 2014 – present
>170 students across 6 sections: Wi2014, Wi2015, Fa2015, Wi2016, Fa2016, Wi2017

Guest teaching as a BYU faculty member

1. Infectious & Chronic Disease Prevention & Control (HLTH 619; graduate course) 2013 – 2016
Role: Guest lecturer. Topic: Chronic disease epidemiology. Instructor: Len Novilla.
Fa2013, Fa2014, Fa2015, Fa2016

2. Chronic Diseases: Prevention and Control (HLTH 310; undergraduate course) 2014 – 2016
Role: Guest lecturer. Topic: Cerebrovascular disease (stroke). Instructor: Len Novilla.
Fa2014, Wi2015, Fa2015, Fa2016
3. Introduction to Public Health (HLTH 100; undergraduate course) 2015
Role: Guest lecturer. Topic: Introduction to epidemiology. Instructor: Stephanie Lutz.
Wi2015, Fa2015

Invited seminar presentations

1. Fasting insulin and incident ischemic stroke: the Cardiovascular Health Study. *Collaborative Health Studies Coordinating Center, University of Washington, Seattle, WA, March 2010.*
2. Measures of insulin resistance in the Cardiovascular Health Study. *Cardiovascular Health Study Steering Committee meeting, Rosemont, IL, April 2011.*
3. Atrial fibrillation and cognitive decline. *Department of Epidemiology, University of Alabama at Birmingham, Birmingham, AL, February 2012.*
4. Insulin resistance and ischemic stroke. *Department of Pharmaceutical Outcomes and Policy, University of Florida, Gainesville, FL, April 2012.*
5. Racial difference in atrial fibrillation. *Department of Epidemiology, University of Alabama at Birmingham, Birmingham, AL, November 2012.*
6. Epidemiology in the News. *Department of Health Sciences, Brigham Young University, Provo, UT, November 2012.*
7. Cardiovascular health and longitudinal cognitive trajectories. *Department of Statistics, Brigham Young University, Provo, UT, March 2015.*
8. Long-term cognitive decline in older adults after newly diagnosed heart failure. *Cardiovascular Health Study Steering Committee meeting, Rosemont, IL, October 2016.*
9. Modeling longitudinal trajectories of cognitive performance. *Division of Neurology Clinical Outcomes Research and Population Science (NeuroCORPS), Department of Neurology, Columbia University, New York, NY, November 2016.*

Other teaching

1. Analytical Aspects of Clinical Epidemiology (HSPH graduate course) 2004
Role: Teaching assistant. Instructor: E. Francis Cook.

2. Data Management and Programming in SAS (HSPH graduate course) 2004 – 2005
Role: Teaching assistant. Instructor: Elizabeth N. Allred.
3. Epidemiologic Methods I & II (UW graduate course) 2010 – 2011
Role: Teaching assistant. Instructors: Thomas D. Koepsell, Victoria L. Holt, Noel S. Weiss.
4. Epidemiologic Methods II (UW graduate course) 2011
Role: Guest lecturer. Topic: The Cardiovascular Health Study. Instructor: Victoria L. Holt.
5. Introduction to Epidemiology (UAB graduate course; online) 2012
Role: Course developer and instructor.
6. Pharmacoepidemiology & Comparative Effectiveness Research (UAB graduate course) 2012
Role: Guest lecturer. Topic: Side effects of Alzheimer’s disease drugs. Instructor: Elizabeth Delzell.

CITIZENSHIP

Service on BYU college-level committees

1. College of Life Sciences Mentoring Environment Grant (MEG) review committee 2013 – 2015

Service on BYU department-level committees

1. Department of Health Science MPH curriculum committee 2013 – 2015
2. Department of Health Science alumni connections committee 2013 – 2015
3. Department of Health Science MPH admissions committee 2016
4. Department of Health Science student scholarship committee 2016
5. Department of Health Science undergraduate curriculum committee 2016 – present
6. Department of Health science external funding committee (*ad hoc*) 2016 – present

Service on BYU graduate committees

1. Member Christa Schank Integrated BS/MS in statistics 2013 – 2014
2. Chair Tawny Larsen MPH 2013 – 2015
3. Chair Monica Scrobotovici MPH 2013 – 2015

4.	Member	Victor Moxley	MPH	2014 – 2015
5.	Member	Rachel Marker	MS in statistics	2015 – 2016
6.	Chair	Emarie Covey	MPH	2016 – 2018
7.	Member	Robin Beck	MPH	2016 – 2018

Service as BYU undergraduate honors thesis referee

1.	Referee	Elise Bowen	BS in public health – epidemiology, with honors	2013 – 2014
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Other service activity at BYU

1.	BYU Wellness Program, evaluation focus group member			2014
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Service as *ad hoc* manuscript reviewer for peer-reviewed journals

<i>American Journal of Epidemiology</i>	1 review	2017
<i>American Journal of Preventive Medicine</i>	2 reviews	2015 – 2016
<i>Anatolian Journal of Cardiology</i>	1 review	2017
<i>Atherosclerosis</i>	1 review	2016
<i>Basal Ganglia</i>	1 review	2011
<i>BMC Cardiovascular Disorders</i>	3 reviews	2015 – 2016
<i>BMC Health Services Research</i>	1 review	2016
<i>BMC Medical Education</i>	1 review	2015
<i>BMC Medical Research Methodology</i>	1 review	2012
<i>BMC Medicine</i>	1 review	2012
<i>BMJ</i>	1 review	2012
<i>Circulation</i>	2 reviews	2008 – 2013
<i>Circulation: Cardiovascular Quality and Outcomes</i>	1 review	2016

<i>European Journal of Neurology</i>	1 review	2010
<i>Expert Review of Anti-infective Therapy</i>	1 review	2006
<i>Journal of Alzheimer's Disease</i>	1 review	2015
<i>Journal of Drug Issues</i>	1 review	2014
<i>Journal of Human Hypertension</i>	1 review	2015
<i>Journal of Internal Medicine</i>	1 review	2007
<i>Journal of Racial and Ethnic Health Disparities</i>	1 review	2016
<i>Journal of the American Heart Association</i>	3 reviews	2014 – 2017
<i>Journal of the American Society of Echocardiography</i>	1 review	2012
<i>Journal of the Neurological Sciences</i>	1 review	2011
<i>Movement Disorders</i>	1 review	2009
<i>Neuroepidemiology</i>	4 reviews	2013 – 2016
<i>Neurology</i>	5 reviews	2015 – 2016
<i>Pharmacy Practice</i>	1 review	2016
<i>Stroke</i>	2 reviews	2008 – 2009
<i>Value in Health</i>	1 review	2015

Other professional service

1. UW Epidemiology Department seminar committee 2008 – 2011
2. NHLBI Cardiovascular Epidemiology, Biostatistics, and Prevention Trainee Session 2013
Role: Co-moderator
3. American Heart Association Epidemiology and Prevention Conference 2015 – present
Role: Conference abstract reviewer
4. Cardiovascular Health Study (CHS) Publications & Presentations Committee 2010 – present
Role: *Ad hoc* penultimate draft manuscript reviewer (9 reviews)

Professional organization membership

1. American Heart Association, Council on Epidemiology and Prevention 2008 – present
2. American Heart Association, Council on Lifestyle and Cardiometabolic Health 2014 – present
3. Society for Epidemiologic Research 2014 – present

Community service

1. Springwell Long-Term Care Ombudsman Program, ombudsman, Boston, MA 2005 – 2007
2. Boy Scouts of America, scoutmaster and troop committee chair, Birmingham, AL 2011 – 2013
3. Boy Scouts of America, troop committee member, varsity team coach, merit badge counselor, and troop committee trainer, Orem, UT 2013 – present

HONORS

1. Predoctoral fellowship, University of Washington School of Public Health, CVD epidemiology training program, NHLBI T32 HL007902, PI: David S. Siscovick 2007 – 2011
2. Finalist, Jeremiah and Rose Stamler Research Award for New Investigators, American Heart Association Council on Epidemiology and Prevention 2012
3. Student loan repayment award, NHLBI, NIH Loan Repayment Program 2012 – 2014
4. First place, Public Health Research Day faculty and staff poster competition, University of Alabama at Birmingham School of Public Health 2013
5. “Top Reviewer” recognition, *American Journal of Preventive Medicine* 2015
6. Student loan repayment renewal award, NHLBI, NIH Loan Repayment Program 2015 – 2017