**ASTRID M. SUCHY-DICEY**

**CONTACT INFORMATION**

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**EDUCATION**

2019 University of Washington Continuing Ed., Certificate in Statistical Analysis with R (Statistics)

2014 University of Washington School of Public Health. Doctor of Philosophy (Epidemiology)

2010 University of Washington School of Public Health. Master of Science (Epidemiology)

2010 University of Washington School of Public Health. Graduate Certification (Public Health Genetics)

2005 Smith College, Northampton Massachusetts. Bachelor of Arts (History, Biology)

**POSITIONS**

2024-current Associate Professor, Director Clinical Neurosciences, Huntington Medical Research Institutes

2018-2023 Assistant Professor, Washington State University (WSU) Elson S Floyd College of Medicine

2015-2018 Research Assistant Professor, WSU Elson S Floyd College of Medicine

2014-2015 Research Scientist, University of Washington (UW) Partnerships for Native Health

2013-2014 Research Associate, UW Kidney Research Institute

2008-2013 Research Fellow, UW Cardiovascular Health Research Unit

2005-2008 Research Assistant, Brigham and Women’s Hospital, Harvard Medical School; Pathology Division

**TEACHING AND MENTORING**

2018-2023 Primary mentor, Alzheimer’s Disease Resource Center for Minority Aging Research (RCMAR)

2014-2017 Biostatistics mentor, Native Investigator Development Program, RCMAR

2013-14Teaching Assistant, Clinical Epidemiology & Evidence-Based Medicine, UW School of Medicine

2013-14 Teaching Assistant, Introduction to Epidemiology, UW School of Public Health (SPH)

2013-14 Teaching Assistant, Physical Activity & Nutrition in Health & Disease, UW SPH

**EXPERTISE AND TECHNICAL SKILLS**

Primary Clinical- and neuro-epidemiology, health disparities, social determinants of health research

Specialized Public health genetics, neuroimaging, neuropsychology, biomarker development and evaluation

Methods Participant recruitment and examination; instrument development; field data collection and quality control; neuropsychological testing; case adjudication for impairment, dementia; ethical and legal considerations, including tribal data sovereignty; community participatory research methods

Analysis Data wrangling and cleaning (outliers, missing, reshaping, aggregating, selecting); visualization; modeling for inference, including regression with evaluation of confounding, bias, modification, mediation, moderation; longitudinal and correlated data (mixed models, GEE); machine learning (supervised, unsupervised) for dimensionality reduction, model building, classification and clustering, and prediction including cross-validation, random forest, boosting/bagging; linear, non-linear, additive approaches; R and STATA programming, reporting with R Markdown. Some experience with: psychometrics including factor analysis, structural equation modeling, path analysis; R Shiny applications. Limited experience: supervise data management in 4D, SQL

Programs Research staff oversight, supervision, and training; data repository & workflow development; grant application & funding; budget and contract planning; regulatory and ethical compliance

**NATIONAL RESPONSIBILITIES**

Co-Lead Data Methods & Statistics Core, Alzheimer’s Disease Research Center, University of Washington

Chair Neurology working group, Strong Heart Study

Investigator Collaborative Cohorts for COVID-19 Research (C4R) Study; Cohort of Cohorts Consortium (CCC)

Reviewer Neurology; JAMA Neurology; Alzheimer’s & Dementia; American J Epidemiology; American J Public Health; Clinical Psychology; Cardiovascular Diabetology; European J Neuroscience; Preventive Medicine; American Journal of Hypertension; PLoS ONE; BMJ; Alzheimer’s Association International Conference Scientific Programs

NIH Section Dissemination and Implementation Research in Health (DIRH), June 2020

Neurological, Aging and Musculoskeletal Epidemiology (NAME), February 2021

Kidney Nutrition Obesity and Diabetes (KNOD), October 2021

Patient Centered Outcomes Research (PCOR), June 2022

Intervention Research to Improve Native American Health (IRINAH), November 2022

Special Emphasis Panel (SEP), December 2021, May 2022, June 2024

**UNIVERSITY SERVICE**

Chair WSU IREACH Publications & Presentations Committee (2015-2023)

Member WSU Institutional Review Board (2018-2021 Full; 2021-Current Alternate)

Member WSU IREACH Epidemiology & Biostatistics Methods Core (2015-2023)

Member WSU Faculty Senate Graduate Studies Committee and Syllabus Committee (2020-2023)

Member WSU Health Equity Research Center (2018-2023)

Member WSU Center for Native American Research and Collaboration (2018-2023)

Representative UW School of Public Health Graduate Student Body (2010-2011)

**PROFESSIONAL MEMBERSHIPS**

Society for Epidemiologic Research (SER), Alzheimer’s Association (AA), International Society to Advance Alzheimer's Research and Treatment (ISTAART), Gerontological Society of America (GSA)

**HONORS, AWARDS, MEDIA**

2024 Featured: *Neurology Today* article *“A 30-year study estimates prevalence of dementia and Alzheimer’s disease in American Indians”*

2024 National Institutes of Health, National Institute on Aging, and general news media reporting on recent published manuscript “Epidemiology and prevalence of dementia and Alzheimer's disease in American Indians”

2022 Featured: *Neurology* editorial “*Improving Our Understanding of Cognitive Aging in American Indian Peoples*”

2022 Featured: *Dementia Matters* podcast, University of Wisconsin: APOE Genetics in ADRD

2022 Featured: National Institute on Aging Director’s blog: Study on APOE Genetics in ADRD

2022 Featured: WSU Insider and various media outlets: Study on social support in mortality

2021 Featured: Epidemiologist, Washington STEM and Notable Women in STEM

2019-2023 National Institute of Minority Health and Health Disparities Loan Repayment Program

 Competitive scholar program for contributions to health disparities research

2017 Featured: *Neurology Today* article: Cognition and ADRD in American Indians

2017 Featured: University of Washington *Memory & Brain Wellness* article: ADRD in American Indians

2015 GUMSHOE scholar, National Research Mentoring Network. Competitive scholarship program

2014 Kidney Stars Scholar, American Society Nephrology. Competitive scholarship program

2012-2013 Warren G. Magnuson Award, University of Washington School of Public Health. Funding and recognition program for contributions to diabetes research

2008 Excellence in Biomedical Research Award, Brigham and Women’s Biomedical Research Institute. Funding and recognition for contributions to molecular pathology research

**SELECTED MENTORS**

* W.T. Longstreth, Jr. MD, MPH; Professor, University of Washington; Neurology
* Kristoffer Rhoads, PhD; Associate Professor, University of Washington; Neuropsychology
* Thomas J Grabowski, MD; Professor, University of Washington; Neurology
* Dedra S Buchwald, MD; Professor, Washington State University; Community Health
* Noel S. Weiss, MD, DrPH; Professor Emeritus, University of Washington; Epidemiology
* Bryan R. Kestenbaum, MD; Professor, University of Washington; Nephrology
* Guillermo Garcia-Cardena, PhD; Professor, Harvard University; Pathology

**SUPERVISORY AND MENTORING**

Supervisees HMRI: *Faculty:* Xianghong Arakaki, MD PhD; Alfred Fonteh, PhD; *Fellows:* Hakim Alezzi PhD, Jody Jose PhD; *Informaticians*: Ryan Butler MA, Benjamin Russin; *Research Coordinators:* David Buennagel, Judith Rodriguez; *Research Assistants*: Vincent Leong, Cathleen Malloy

WSU: *Graduate students*: Kellyan Nguyen PharmD-C, Lauren Price PharmD-C; *Biostatisticians*: Yunusa Olufadi PhD; *Research Coordinators*: Kyra Oziel, Roxanna King PhD, Bouapanh Lor MPH, Harry Eyituoyo MD, Haeyoon Chang MPH, Yarinid Velez-Hernandez MPH, Courtney Howell, Ursula Tsosie; *Research Assistants*: Charles Sawyer, Kory Hardcastle, Madison Ramos, Zachery Schramm, Tien Tran, Joshua Bunch

UW: *Informaticians:* Tung Le MS, Will Affleck-Asch, Robin Stilwell, Hiep Nguyen; *Biostatisticians*: Justina Zurauskiene PhD, Talia Seshaia MS

Mentees Jackson Notier (U Michigan, Epidemiology); Cellas Hayes (Stanford, Epidemiology); Luciana Mascarenhas Fonseca, PhD (WSU ESFCOM, Community Health); Solmaz Amiri, PhD (WSU ESFCOM); Anna Zamora-Kapoor PhD (WSU ESFCOM); Che Ross (UW SOM, Neuroepidemiology); Vanessa Hiratsuka, PhD MPH (SouthCentral Foundation, Health Sciences)

**PUBLIC PRESENTATIONS**

2024 *Invited*: Alzheimer’s Association Exploring Equity in Diagnosis conference “Alzheimer’s disease and related dementias in American Indians”

2024 *Invited*: USC ADRC REC “Examination of Alzheimer’s disease and related dementias in American Indian populations”

2024 *Invited*: NHLBI Workshop on Native American Health, “Cerebrovascular and Alzheimer’s disease and related dementias in American Indians”

2024 *Invited*: ISTAART ADDRESS (Alzheimer’s Disease & Dementia: Racial/Ethnic & Sex Differences in Resilience) Workgroup “Examination of dementias in community-based American Indians – The Strong Heart Study”

2024 *Invited*: NINDS Nonprofit Forum “Increasing Patient Participation and Engagement
in Rural and Minoritized Populations ; Examining dementia in American Indians”

2024 *Invited*: NIDDK Center for American Indian and Alaska Native Diabetes Translation Research (CDTR); “Dementia and diabetes in community-based American Indians”

2024 *Invited*: National Institute on Aging, Health Disparities Webinar “Examination of dementia in community-based American Indians: Lessons from the Strong Heart Study”

2023 *Peer Reviewed*: The International Indigenous Dementia Research Network Conference “Magnetic resonance imaging biomarkers of brain atrophy and cognitive decline in American Indians: Data from the Strong Heart Study”

2023 *Invited:* Huntington Medical Research Institutes, Bob Mackin Lecture “Imaging, cognitive, and risk features of vascular and Alzheimer’s dementias in American Indians”

2023 *Invited:* Native Care in Hypertension Research and Treatment Seminar “Alzheimer’s disease and dementia in American Indians: Epidemiology, cognitive presentation, risk, and resilience”

2023 *Invited*: State University of New York, Health Disparities Seminar “Health disparities, risk, and resilience of Alzheimer’s disease in American Indians”

2022 *Invited:* Boston University, Health Information and Technology Center Symposium “Health disparities and Alzheimer’s disease in American Indians”

2022 *Invited*: University of Washington, Research and Education Symposium “Health disparities and Alzheimer’s disease in American Indians”

2022 *Invited:* University of Washington, Alzheimer’s Disease Research Center Seminar Series “Health disparities and Alzheimer’s risk in American Indians”

2022 *Invited*: National Institute on Aging, Conference for Research on Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery “Resilience, cultural alignment, and social support in brain aging”

2022 *Invited:* Missouri Breaks Industries Research, Community Dissemination “Strong Heart Study (SHS) & Cerebrovascular Disease and Consequences in American Indians (CDCAI) Study”

2021 *Invited*: Tulane University Brain Institute Seminar Series: “Health disparities in neuroepidemiology: Alzheimer’s dementia in American Indians”

2021 *Invited*: Alzheimer’s Association, National Institute on Aging Conference on Health Disparities in Alzheimer’s & Dementia: “APOE, Cognition, and Alzheimer’s Disease in US Native Populations”

2021 *Invited*: Strong Heart Study Steering Committee Annual Conference: “Longitudinal Study of Vascular and Alzheimer’s Disease in the Strong Heart Study”

2020 *Peer-reviewed*: Alzheimer’s Association International Conference, “APOE genotype, MRI, and cognitive markers of Alzheimer’s Disease: Data from the Strong Heart Study”

2019 *Invited*: Department of Medical Education and Clinical Sciences, Elson S Floyd College of Medicine, Spokane, WA: “Neuroepidemiology of Underserved Minorities”

2018 *Invited*: Alzheimer’s Disease Research Center Quarterly Scientific Sessions, University of Washington, Seattle WA: “Cerebrovascular and Alzheimer’s Dementias in American Indians”

2018 *Invited*: Alzheimer’s Disease and Related Dementia Among American Indians and Alaska Natives summit, Native Elder Research Center: “What do we know about Alzheimer’s Disease and Related Dementias among American Indians and Alaska Natives?”

2017 *Invited*: Strong Heart Study Steering Committee Annual Conference: “Cerebrovascular Disease and Its Consequences in American Indians”

2017 *Invited*: Urban Indian Health Conference, Summit on Urban Elder Health, Suquamish, WA: “Cerebrovascular Disease and its Consequences in American Indians: The Strong Heart Study”

2016 *Invited*: Alzheimer’s Disease Research Center External Advisory Board, Seattle, WA: “Cerebrovascular Disease and its Consequences in American Indians: The CDCAI Study”

2014 *Peer-reviewed*: American Society of Nephrology Kidney Week, Philadelphia, PA. “Renal tubular secretion in chronic kidney disease: description, determinants, and outcomes from the Seattle Kidney Study”

2013 *Peer-reviewed*: American Heart Association Council on Epidemiology meeting, New Orleans, LA. “Blood pressure variability and the risk of all-cause mortality, incident myocardial infarction, and incident stroke in the Cardiovascular Health Study”

2008 *Peer-reviewed*: Brigham and Women’s Hospital Biomedical Research Institute, Boston, MA. “Biomechanical forces promote embryonic haematopoiesis”

**ORIGINAL, PEER-REVIEWED PUBLICATIONS**

*Google Scholar* impact analysis*:*citations 4101, i10 (citation) index: 23

\*\*Denotes papers with senior authorship, mentee as primary author

1. **Suchy-Dicey AM**, Domoto-Reilly K, Nelson L, Jayadev S, Buchwald DS, Grabowski TJ, Rhoads K. Epidemiology and prevalence of dementia and Alzheimer's disease in American Indians: Data from the Strong Heart Study. Alzheimers Dement. 2024 Jun;20(6):4174-4184. PMID: 38747387
2. **Suchy-Dicey AM**, Vo TT, Oziel K, Buchwald DS, Rhoads K, French BF. Psychometric Reliability, Validity, and Generalizability of MoCA in American Indian Adults: The Strong Heart Study. *Assessment*. 2024 Jul 24. PMID: 39046194
3. **Suchy-Dicey AM**, Grabowski T, Buchwald D, Longstreth WT, Rhoads K. Algorithm-defined memory impairment in older American Indians: The Strong Heart Study. *Neuropsychology*. 2024 Jul 8. PMID: 38976382
4. *\*\** Fonseca LM, Finlay MG, Chaytor NS, Morimoto NG, Buchwald D, Van Dongen HPA, Quan SF, **Suchy-Dicey A**. Mid-life sleep is associated with cognitive performance later in life in aging American Indians: data from the Strong Heart Study. Front Aging Neurosci. 2024 Jun 5;16:1346807. PMID: 38903901
5. **Suchy-Dicey AM**, Vo TT, Oziel K, Buchwald DS, Nelson LA, Verney SP, French BF. Psychometric reliability, validity, and generalizability of 3MSE scores among American Indian adults: the Strong Heart Study. J Int Neuropsychol Soc. 2024 Jun;30(5):454-463. PMID: 38263740
6. **Suchy-Dicey AM**, Vo TT, Oziel K, King R, Barbosa-Leiker C, Rhoads K, Verney S, Buchwald DS, French BF. Psychometric Properties of Controlled Oral Word Association (COWA) Test and Associations With Education and Bilingualism in American Indian Adults: The Strong Heart Study. Assessment. 2024 Apr;31(3):745-757. PMID: 37338127
7. Balabanski AH, Dos Santos A, Woods JA, Mutimer CA, Thrift AG, Kleinig TJ, **Suchy-Dicey AM**, Siri SRA, Boden-Albala B, Krishnamurthi RV, Feigin VL, Buchwald D, Ranta A, Mienna CS, Zavaleta-Cortijo C, Churilov L, Burchill L, Zion D, Longstreth WT Jr, Tirschwell DL, Anand SS, Parsons MW, Brown A, Warne DK, Harwood M, Barber PA, Katzenellenbogen JM. Incidence of Stroke in Indigenous Populations of Countries With a Very High Human Development Index: A Systematic Review. *Neurology*. 2024 Mar 12;102(5):e209138.
8. **Suchy-Dicey AM**, Vo TT, Oziel K, Buchwald DS, Nelson LA, Verney SP, French BF. Psychometric reliability, validity, and generalizability of 3MSE scores among American Indian adults: the Strong Heart Study. *J Int Neuropsychol Soc.* 2024 Jun;30(5):454-463.
9. **Suchy-Dicey AM**, Longstreth WT Jr, Rhoads K, Umans J, Buchwald D, Grabowski T, Blennow K, Reiman E, Zetterberg H. Plasma biomarkers of Alzheimer's disease and related dementias in American Indians: The Strong Heart Study*. Alzheimers Dement*. 2024 Mar;20(3):2072-2079.
10. **Suchy-Dicey AM**, Vo TT, Oziel K, King R, Barbosa-Leiker C, Rhoads K, Verney S, Buchwald DS, French BF. Psychometric Properties of Controlled Oral Word Association (COWA) Test and Associations With Education and Bilingualism in American Indian Adults: The Strong Heart Study. *Assessment*. 2024 Apr;31(3):745-757.
11. **Suchy-Dicey A**, Su Y, Buchwald DS, Manson SM, Reiman EM. Volume atrophy in medial temporal cortex and verbal memory scores in American Indians: Data from the Strong Heart Study. *Alzheimers Dement*. 2023 Jun;19(6):2298-2306.
12. \*\* Zamora-Kapoor A, Hebert L, Nelson L, Shibata D, Longstreth WT, Howard BV, Buchwald D, **Suchy-Dicey A.** Body Mass Index, White Matter Hyperintensities, and Cognitive Performance in American Indians: Data from the Strong Heart Study. *J Racial Ethn Health Disparities*. 2023 Oct;10(5):2423-2433.
13. \*\* Mascarenhas Fonseca L, Sage Chaytor N, Olufadi Y, Buchwald D, Galvin JE, Schmitter-Edgecombe M, **Suchy-Dicey A**. Intraindividual Cognitive Variability and Magnetic Resonance Imaging in Aging American Indians: Data from the Strong Heart Study. J Alzheimer’s Dis. 2023 Jan 11.
14. **Suchy-Dicey A**, Oziel K, Sawyer C, Olufadi Y, Ali T, Fretts AM, Umans J, Shibata DK, Longstreth WT, Rhoads K, Buchwald D, Grabowski TJ. Educational and clinical associations with longitudinal changes in cognitive function and brain imaging among American Indians: the Strong Heart Study. *Neurology* 2022*.* 26;99(24)
15. **Suchy-Dicey A**, O’Leary M, Cole SA, Traore A, Verney S, Goldberg J, Howard B, Buchwald D, Whitney P. Psychosocial and cultural factors related to risk or resilience of cardiovascular outcomes in American Indians: the Strong Heart Study. *Social Psychiatry Psychiatric Epidemiology. 2022 Jul;57(7):1421-1433.*
16. **Suchy-Dicey A,** Howard BV, Longstreth WT, Reiman E, Buchwald D. APOE genotype, hippocampus, and cognitive markers of Alzheimer’s disease in American Indians: the Strong Heart Study. *Alzheimer’s & Dementia. 2022 Feb 10:10.*
17. Barbosa-Leiker C, Burduli E, Arias-Losado R, Muller C, Noonan C, **Suchy-Dicey A**, Nelson L, Verney SP, Montine TJ, Buchwald D. Testing gender and longitudinal measurement invariance of the SF-36 in American Indian older adults: The strong heart study. Psychol Assess. 2022 Sep;34(9):870-879.
18. Carty CL, Noonan C, Muller C, **Suchy-Dicey A**, Fretts AM, Verney SP, Howard BV, Buchwald D. Mid-Life Physical Activity and Late-Life Cognitive Performance among American Indians. Neuroepidemiology. 2022;56(2):119-126.
19. **Suchy-Dicey A**, Muller C, Shibata D, Howard BV, Cole SA, Longstreth WT, Devereux RB, Buchwald DS. Comparing Vascular Brain Injury and Stroke by Cranial Magnetic Resonance Imaging, Physician-Adjudication, and Self-Report: the Strong Heart Study. *Neuroepidemiology*, 2021; 55(5):398-406.
20. **Suchy-Dicey A,** Zhang Y, McPherson S, Tuttle K, Howard BH, Umans J, Buchwald DS. Glomerular filtration function decline, mortality, and cardiovascular events: data from the Strong Heart Study. *Kidney360* January 2021; 2(1)71-78.
21. \*\* Nikolaus C, Sinclair K, Buchwald DS, **Suchy-Dicey A**. Association of stress and resilience with cardiometabolic health among American Indian and Alaska Native adults. *Prev Med Rep.* 2021; 12;24:101517.
22. Balabanski A, Dos Santos A, Woods JA, Thrift AG, Kleinig TJ, **Suchy-Dicey A**, Ragnhild Siri S, Boden-Albala B, Krishnamurthi R, Feigin VL, Buchwald D, Ranta A, Mienna CS, Zavaleta C, Churilov L, Burchill L, Zion D, Longstreth Jr. WT, Tirschwell DL, Anand S, Parsons MW, Brown A, Warne DK, Harwood M Katzenellenbogen JM. The Incidence of Stroke in Indigenous Populations of Countries With a Very High Human Development Index: A Systematic Review Protocol. *Frontiers in Neurology.* 2021; 22;12:661570.
23. Nakayasu E, Gritsenko M, Piehowski P, Gao Y, Orton D, Schepmoes A, Fillmore T, Frohnert B, Rewers M, Krischner J, Ansong C, **Suchy-Dicey A**, Evans-Molina C, Qian W, Webb-Robertson B, Metz T. Tutorial: best practices and considerations for mass spectrometry-based protein biomarker discovery and validation. *Nature Protocols.* 2021; 16(8):3737-3760.
24. Barbosa-Leiker C, Burduli E, Arias-Losadoa R, Muller C, Noonan C, **Suchy-Dicey A**, Nelson L, Verney SP, Montine TJ, Dedra DS. Gender Differences in the Assessment of Depression in American Indian Older Adults: The Strong Heart Study. *Psychological Assessment*. 2021; 33(6):574-579.
25. Lewis JP, **Suchy-Dicey A,** Noonan C, Blue Bird Jernigan V, Umans JG, Domoto-Reilly K, Buchwald DS, Manson SM. Associations of binge drinking with vascular brain injury and atrophy in older American Indians: The Strong Heart Study. *J Aging Health.* 2021; 33.
26. **Suchy-Dicey A**, Noonan C, Burduli E, Mateen FJ, Longstreth WT Jr, Buchwald D, Navas-Acien A. Urinary arsenic and cadmium associations with findings from cranial MRI in American Indians: data from the Strong Heart Study. *Environmental Health Perspectives*. 2020 Dec;128(12):127009.
27. **Suchy-Dicey A**, Verney SP, Nelson LA, Howard BA, Crane PK, Buchwald DS. Depression symptoms and cognitive test performance in elderly American Indians: The Strong Heart Study. *J American Geriatric Society*. 2020 Aug;68(8):1739-1747
28. **Suchy-Dicey A**, Shibata D, Cholerton B, Nelson L, Calhoun D, Ali T, Montine TJ, Longstreth WL, Buchwald D, Verney SP. Cognitive correlates of MRI-defined cerebral vascular injury and atrophy in elderly American Indians: the Strong Heart Study. *J International Neuropsychological Society*. 2020:26(3):263-275.
29. Kalani R, Bartz T, **Suchy-Dicey A**, Elkind ME, Psaty B, Leung L, Rice K, Tirschwell D, Longstreth WT. Cholesterol variability and cranial MRI findings in older adults - the Cardiovascular Health Study. *Stroke*. 2020;51(1):69-74.
30. Verney S, **Suchy-Dicey A**, Cholerton B, Calhoun D, Nelson L, Montine T, Ali T, Longstreth WT, Buchwald D. The associations among sociocultural factors and neuropsychological functioning in elderly American Indians: The Strong Heart Study. *Neuropsychology*. 2019;33(8):1078-1088.
31. Shibata D, **Suchy-Dicey A**, Carty CL, Madhyastha T, Ali T, Best L, Grabowski TJ Jr, Longstreth WT Jr, Buchwald D. Lifestyle risk factors and findings on brain MRI of elderly American Indians: The Strong Heart Study. *Neuroepidemiology*. 2019;53(3-4):162-168.
32. Cholerton B, Omidpanah A, Verney SP, Nelson LA, Baker LD, **Suchy-Dicey A**, Longstreth WT Jr, Howard BV, Henderson JA, Montine TJ, Buchwald D. Type 2 diabetes and later cognitive function in older American Indians: The Strong Heart Study. *International J Geriatric Psychiatry*. 2019;34(7):1050-1057.
33. Shibata D, **Suchy-Dicey A**, Carty CL, Madhyastha T, Ali T, Best L, Grabowski TJ Jr, Longstreth WT Jr, Buchwald D. Vascular risk factors and findings on brain MRI of elderly American Indians: The Strong Heart Study. *Neuroepidemiology*. 2019; 52(3-4):173-180.
34. **Suchy-Dicey A**, Muller C, Madhyastha T, Shibata D, Cole S, Zhao J, Longstreth WT, Buchwald D. Telomere length and MRI findings of vascular brain injury and central brain atrophy: The Strong Heart Study. *American J Epidemiology* 2018;187(6):1231-1239.
35. Goins RT, Schure M, Jensen PN, **Suchy-Dicey A**, Nelson L, Verney SP, Howard BV, Buchwald D. Lower body functioning and correlates among older American Indians: The Cerebrovascular Disease and Its Consequences in American Indians Study. *BMC Geriatrics*. 2018;18(1):6.
36. Haring B, Omidpanah A, **Suchy-Dicey A**, Ali T, Best L, Cole S, Shibata D, Devereux R, Howard B, Buchwald D. Left ventricular mass, brain MRI and cognitive performance: The Strong Heart Study. *Hypertension*. 2017;70(5):964-971.
37. Cholerton B, Omidpanah A, Madhyastha T, Grabowski T, **Suchy-Dicey A**, Shibata D, Nelson L, Verney S, Howard B, Longstreth WT, Montine T, Buchwald D. Total brain and hippocampal volumes and cognition in older American Indians. *Alzheimer Disease Associated Disorders*. 2017;31(2):94-100.
38. **Suchy-Dicey A**, Shibata D, Madhyastha T, Grabowski T, Longstreth WT, Buchwald D. Findings of vascular brain injury and structural loss from cranial magnetic resonance imaging in elderly American Indians: the Strong Heart Study. *Neuroepidemiology*. 2017;48(1-2):39-47.
39. **Suchy-Dicey AM**, Shibata D, Best LG, Verney SP, Longstreth WT Jr, Lee ET, Okin PM, Devereux R, O'Leary M, Ali T, Jensen PN, Muller C, Nelson LA, Rhoades E, Madhyastha T, Grabowski TJ, Beauchamp N, Umans JG, Buchwald D. Cranial magnetic resonance imaging in elderly American Indians: design, methods, and implementation of the Cerebrovascular Disease and Its Consequences in American Indians study. *Neuroepidemiology*. 2016;47(2):67-75.
40. **Suchy-Dicey AM**, Laha T, Hoofnagle A, Newitt R, Sirich TL, Meyer TW, Thummel KE, Yanez ND, Himmelfarb J, Weiss NS, Kestenbaum BR. Tubular secretion in CKD. *J American Society Nephrology*. 2016;27(7):2148-55.
41. McDonell MG, Nepom JR, Leickly E, **Suchy-Dicey A**, Hirchak K, Echo-Hawk A, Schwartz SM, Calhoun D, Donovan D, Roll J, Ries R, Buchwald D. A culturally-tailored behavioral intervention trial for alcohol use disorders in three American Indian communities: Rationale, design, and methods. *Contemporary Clinical Trials*. 2016;47:93-100.
42. Peters MJ,[…]**Suchy-Dicey AM** (#82 of 115) […]. *Nature Communications*. The transcriptional landscape of age in human peripheral blood. 2015.6:8570.
43. \*\* Hiratsuka VY, **Suchy-Dicey AM**, Garroutte EM, Booth-LaForce C. Patient and provider factors associated with American Indian and Alaska Native adolescent tobacco use screening. *J Primary Care Community Health*. 2016;7(1):2-9.
44. Floyd JS, Sitlani CM, Wiggins KL, Wallace E, **Suchy-Dicey A**, Abbasi SA, Carnethon MR, Siscovick DS, Sotoodehnia N, Heckbert SR, McKnight B, Rice KM, Psaty BM. Variation in resting heart rate over 4 years and the risks of myocardial infarction and death among older adults. *Heart*. 2015;101(2):132-8.
45. **Suchy-Dicey** **A**, Heckbert SR, Smith NL, McKnight B, Rotter JI, Chen YI, Psaty BM, Enquobahrie DA. Gene expression in thiazide diuretic or statin users in relation to incident type 2 diabetes. *International J Molecular Epidemiological Genetics*. 2014;5(1):22-30.
46. Westra HJ, […] **Suchy-Dicey A** (#36 of 58) […]. Systematic identification of trans eQTLs as putative drivers of known disease associations. *Nature Genetics*. 2013;45(10):1238-1243.
47. **Suchy-Dicey A**, Wallace ER, Mitchell SV, Aguilar M, Gottesman RF, Rice K, Kronmal R, Psaty BM, Longstreth WT Jr. Blood pressure variability and the risk of all-cause mortality, incident myocardial infarction, and incident stroke in the Cardiovascular Health Study. *Am J Hypertens*. 2013;26(10):1210-7.
48. **Suchy-Dicey A**, Enquobahrie DA, Heckbert SR, Rotter JI, Psaty BM, McKnight B. Hemodynamic fluid shear stress response genes and atherosclerosis: a candidate gene association analysis in the Cardiovascular Health Study. *International J Molecular Epidemiological Genetics*. 2012;3(2):174-8.
49. Schnabel RB, Aspelund T, Li G, Sullivan LM, **Suchy-Dicey A**, Harris TB, Pencina MJ, D'Agostino RB Sr, Levy D, Kannel WB, Wang TJ, Kronmal RA, Wolf PA, Burke GL, Launer LJ, Vasan RS, Psaty BM, Benjamin EJ, Gudnason V, Heckbert SR. Validation of an atrial fibrillation risk algorithm in whites and African Americans. *Archives Internal Medicine*. 2010;170(21):1909-17.
50. Adamo L, Naveiras O, Wenzel PL, McKinney-Freeman S, Mack PJ, Gracia-Sancho J, **Suchy-Dicey A**, Yoshimoto M, Lensch MW, Yoder MC, García-Cardeña G, Daley GQ. Biomechanical forces promote embryonic haematopoiesis. *Nature*. 2009;459(7250):1131-5.

**RESEARCH AWARDS AND FEDERAL GRANT SUPPORT**

**CURRENT**

National Institute on Aging – R01AG070822 (PI: **Suchy-Dicey**) 9/1/21 – 8/31/26

*Resilience, cultural alignment, social support, and brain aging in the Strong Heart Study*

This project seeks to conduct novel data collection and analysis on trait-based psychosocial resilience, related features, cognitive function, and Alzheimer’s disease in 3000 adult American Indians.

National Institute on Aging - RF1AG071677 (PI: **Suchy-Dicey**) 9/1/22-8/31/27

*Psychological Factors, Community, and Brain Aging in American Indians: the Strong Heart Study*

This study will examine longitudinal relationships among stress, depression, substance use, quality of life, community connectedness, and cognition via the NIH Toolbox in a 30-year cohort of aging AI adults.

National Institute on Aging – R01(TBD) (PI: **Suchy-Dicey**) 4/1/23 – 2/1/28

*Bilingualism as a protective factor of ADRD in American Indian adults: the Strong Heart Study*

This project seeks to culturally adapt existing instruments, and collect novel data on bilingualism, cultural identity, and cognition in 3000 adult American Indians.

**National Institute on Minority Health and Health Disparities –** R01MD014035 (PI Nelson) **5/1/19 – 1/31/24**

*American Indian Chronic Disease Risk and Sleep Health*

We aim to estimate prevalence of sleep disorders, deficiencies, and comorbidities among American Indians from using objective, self-report, and subjective measurements of sleep health and sleep disturbances.

**National Institute on Aging – R01064493 (PI Nelson) 9/1/19 – 5/31/24**

***Urban Native Elders Risk and Protective Factors for Alzheimer’s and Related Dementias***

We aim to recruit 1000 urban American Indians for structural and functional MRI, neuropsychological testing, and clinical examination to quantify neurological aging in this underserved, understudied population.

**COMPLETED**

National Institute on Aging – KAG057821A **(**PI: **Suchy-Dicey) 7/1/18 – 6/30/23**

***Incident Vascular Brain Injury, Probable Alzheimer's Disease and Cognitive Change in American Indians***

**Capitalizing on accumulated longitudinal data collected under the leadership of the PI, this K01 award will generate the first estimates of incident vascular brain injury, prevalent cognitive impairment, and Alzheimer’s disease in elderly American Indians.**

**National Institute on Minority Health and Health Disparities – U54MD000507 (PI Manson) 9/1/17 – 8/31/22 (NCE)**

***American Indian and Alaska Native Health Disparities***

**This center of excellence will create a scientifically rigorous, culturally informed, patient-centered research program on cognitive impairment and dementia in Indigenous US peoples.**

University of Washington ADRC (PI: **Suchy-Dicey**) 5/0/21-4/31/22

*Plasma phosphorylated tau protein and Alzheimer’s disease in American Indians*

**Health Equity Research Center Grant Award Washington State University (PI: Suchy-Dicey) 10/1/17 – 09/31/18**

***Resilience in American Indian Elders: Data from the Strong Heart Study***

National Institute on Aging – P50AG005136 (PI Grabowski) 5/1/15 – 4/30/20

*Cognitive Impairment, Alzheimer’s Disease and Vascular Brain Injury in American Indians*

**National Heart, Lung, and Blood Institute –** R01HL093086-05 (PI Buchwald) 8/15/09 – 6/30/16

*Cerebrovascular Disease and its Consequences in the Strong Heart Study Cohort*

**National Institute on Aging –** P30AG15292 (PI Manson) 7/1/07 – 6/30/17

*Resource Center for Minority Aging Research/Native Elder Research Center*

**National Heart Lung and Blood Institute –** T32HL07902 (PI Siscovick) 9/1/08 – 3/31/13

***Training grant for research fellows, University of Washington***