

October 9, 2018

CURRICULUM VITAE
RICHARD NORMAN JONES

Department of Psychiatry and Human Behavior
Warren Alpert Medical School
Brown University
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EDUCATION

Undergraduate	The George Washington University, Psychology, BA, 1991
Graduate	Johns Hopkins University, School of Hygiene and Public Health, Psychiatric Epidemiology, Sc.D., 1998

ACADEMIC APPOINTMENTS

Professor, Department of Psychiatry and Human Behavior, Department of Neurology, Warren Alpert Medical School, Brown University, 2017-present

Associate Professor, Department of Psychiatry and Human Behavior, Warren Alpert Medical School, Brown University, 2013-2017

Associate Professor (Research Scholar Track), Department of Neurology, Warren Alpert Medical School, Brown University, 2015-present

Associate Professor, Harvard Medical School (HMS), Beth Israel Deaconess Medical Center (BIDMC), Department of Medicine, Division of Gerontology, 2012-2013

Senior Scientist, Institute for Aging Research (IFAR), Hebrew SeniorLife (HSL), 2007-2013

Assistant Professor, HMS/BIDMC, 2007-2012

Instructor of Medicine, HMS/BIDMC, 2004-2007

Associate Scientist, IFAR/HSL 2003-2007

Senior Research Associate, 1997-2003

OTHER APPOINTMENTS

Major Administrative Leadership Positions	Director, Quantitative Science Program, Warren Alpert Medical School, Departments of Psychiatry and Human Behavior, Neurology, Norman Prince Neurosciences Institute at Rhode Island Hospital, 2013 - present
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	Associate Director, Health and Social Policy Research, HSL/IFAR 2004-2013
	Director, Mental Health and Aging Research, HSL/IFAR, 2004- 2013
Committee Service	Faculty Committee, HSL/IFAR, Member 1997-2013 and Chair 2003-2006 Institutional Review Board, HSL, Member 2006-2013, Chair 2006-2008 Senior Faculty Council, HSL/IFAR, Member 2009-2013, Chair 2011-2012
National and International	Technical Expert Panel, <u>Statistical Methods for Quality Initiatives</u> , Center for Medicare and Medicaid Services Member 2005-2006, Technical Expert Consultation on <u>Functioning and Disability Measurement</u> , World Health Organization, December 2015
Editorial Roles	Senior Associate Editor, <u>Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring</u> , 2014-present Statistical Editor, <u>Alzheimer's & Dementia</u> , 2013-present Assistant Editor, Biostatistics. <u>Journal of the American Geriatrics Society</u> , 2009-present
Grant Review	NIH Center for Scientific Review, ASG Study section, Standing Member, 7/2015-6/2019 NIH/ NIA ZAG1 ZIJ NIA Loan Repayment Special Emphasis Panel Standing member and mail reviewer, 2011-present Wellcome Trust, London UK, Peer Review Intermediate Fellowships, Ad hoc 2015 Health Research Board, Ireland, 2013 National Health and Medical Research Council (Australia), APP104510 (Project) Academy of Finland, Panel 6, Health and Society, 2010 NIH/NIH Program Project Special Emphasis Panel Scientific Review Group 2008 10 ZAG1 ZIJ-7(O1), Member, 2007- 2008 NIH/NIMH SRSP Review Group, Ad Hoc Member, 2007

HONORS AND AWARDS

Master of Arts *ad eundem*, Brown University, 2014
Top Reviewer Award, Journal of the American Geriatrics
Society, 2011, 2013, 2014

Exceptional Reviewer, Medical Care, 2007, 2008, 2010
Excellence in Tutoring, Harvard Medical School, Clinical
Epidemiology AC701 First year medical students. 2009
NIMH Traineeship in Psychiatric Epidemiology, Johns Hopkins
University, Pre-doctoral T32 award, 1995-1998

MEMBERSHIP IN SOCIETIES

Gerontological Society of America, 1998-present
Founding member Gerontological Society of America,
Measurement Statistics and Research Design (MSRD)
Interest Group, Chair 2002-2004
American Geriatrics Society, 2009-present

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Gallo J, Schoen R, Jones R. Cognitive impairment and syndromal depression in estimates of active life expectancy: the 13-year follow-up of the Baltimore Epidemiologic Catchment Area sample. *Acta Psychiatr Scand.* 2000;101(4):265-73.
2. Jones R, Gallo J. Dimensions of the Mini-Mental State Examination among community dwelling older adults. *Psychol Med.* 2000;30(3):605-18.
3. Kiely D, Simon S, Jones R, Morris J. The protective effect of social engagement on mortality in long-term care. *J Am Geriatr Soc.* 2000;48(11):1367-72.
4. Morris J, Carpenter I, Berg K, Jones R. Outcome measures for use with home care clients. *Canadian Journal on Aging-Revue Canadienne Du Vieillissement.* 2000;19:87-105.
5. Jones R, Gallo J. Education bias in the mini-mental state examination. *Int Psychogeriatr.* 2001;13(3):299-310.
6. Mahoney D, Tarlow B, Jones R, Tennstedt S, Kasten L. Factors affecting the use of a telephone-based intervention for caregivers of people with Alzheimer's disease. *J Telemed Telecare.* 2001;7(3):139-48.
7. Jones R, Gallo J. Education and sex differences in the mini-mental state examination: Effects of differential item functioning. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences.* 2002;57(6):P548-P58.
8. Leveille S, Bean J, Bandeen-Roche K, Jones R, Hochberg M, Guralnik J. Musculoskeletal pain and risk for falls in older disabled women living in the community. *J Am Geriatr Soc.* 2002;50(4):671-8.
9. Mahoney DF, Tarlow BJ, Jones RN, Sandaire J. Effects of a multimedia project on users' knowledge about normal forgetting and serious memory loss. *J Am Med Inform Assoc.* 2002;9(4):383-94.

10. Belle S, Czaja S, Schulz R, Zhang S, Burgio L, Gitlin L, Jones R, Mendelsohn A, Ory M, REACH. Using a new taxonomy to combine the uncombinable: Integrating results across diverse interventions. *Psychol Aging*. 2003;18(3):396-405.
11. Fries B, Morris J, Aliaga P, Jones R. Risk adjusting outcome measures for post-acute care. *Am J Med Qual*. 2003;18(2):66-72.
12. Jones R. Racial bias in the assessment of cognitive functioning of older adults. *Aging Ment Health*. 2003;7(2):83-102.
13. Jones R, Marcantonio E, Rabinowitz T. Prevalence and correlates of recognized depression in U. S. nursing homes. *J Am Geriatr Soc*. 2003;51(10):1404-9.
14. Jones R, Morris J, Marcantonio E, Lipsitz L. Satisfaction with primary care providers of older adults living in senior housing. *J Am Geriatr Soc*. 2003;51(4):582-3.
15. Kiely D, Bergmann M, Murphy K, Jones R, Orav E, Marcantonio E. Delirium among newly admitted postacute facility patients: Prevalence, symptoms, and severity. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2003;58(5):441-5.
16. Mahoney D, Tarlow B, Jones R. Effects of an automated telephone support system on caregiver burden and anxiety: Findings from the REACH for TLC intervention study. *Gerontologist*. 2003;43(4):556-67.
17. Mahoney DF, Jones RN, Coon DW, Mendelsohn AB, Gitlin LN, Ory M. The caregiver vigilance scale: Application and validation in the resources for enhancing Alzheimer's caregiver health (REACH) project. *American Journal of Alzheimer's Disease & Other Dementias®*. 2003;18(1):39-48.
18. Marcantonio E, Simon S, Bergmann M, Jones R, Murphy K, Morris J. Delirium symptoms in post-acute care: Prevalent, persistent, and associated with poor functional recovery. *J Am Geriatr Soc*. 2003;51(1):4-9.
19. Mor V, Angelelli J, Jones R, Roy J, Moore T, Morris J. Inter-rater reliability of nursing home quality indicators in the US. *Bmc Health Services Research*. 2003;3(1):20.
20. Hirdes JP, Fries BE, Morris JN, Ikegami N, Zimmerman D, Dalby DM, Aliaga P, Hammer S, Jones R. Home care quality indicators (HCQIs) based on the MDS-HC. *The Gerontologist*. 2004;44(5):665-79.
21. Jones RN, Fonda SJ. Use of an IRT-based latent variable model to link different forms of the CES-D from the Health and Retirement Study. *Soc Psychiatry Psychiatr Epidemiol*. 2004;39(10):828-35.
22. Kiely D, Bergmann M, Jones R, Murphy K, Orav E, Marcantonio E. Characteristics associated with delirium persistence among newly admitted post-acute facility patients. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2004;59(4):344-9.
23. Morris J, Jones R, Fries B, Hirdes J. Convergent validity of minimum data set-based performance quality indicators in postacute care settings. *Am J Med Qual*. 2004;19(6):242-7.
24. Bergmann M, Murphy K, Kiely D, Jones R, Marcantonio E. A model for management of delirious postacute care patients. *J Am Geriatr Soc*. 2005;53(10):1817-25.

25. Jones R, Rosenberg A, Morris J, Allaire J, McCoy K, Marsiske M, Kleinman K, Rebok G, Malloy P. A growth curve model of learning acquisition among cognitively normal older adults. *Exp Aging Res.* 2005;31(3):291-312.
26. Kuo H, Jones R, Milberg W, Tennstedt S, Talbot L, Morris J, Lipsitz L. Effect of blood pressure and diabetes mellitus on cognitive and physical functions in older adults: A longitudinal analysis of the advanced cognitive training for independent and vital elderly cohort. *J Am Geriatr Soc.* 2005;53(7):1154-61.
27. Marcantonio E, Kiely D, Simon S, Orav E, Jones R, Murphy K, Bergmann M. Outcomes of older people admitted to postacute facilities with delirium. *J Am Geriatr Soc.* 2005;53(6):963-9.
28. Gallo WT, Bradley EH, Dubin JA, Jones RN, Falba TA, Teng H-M, Kasl SV. The persistence of depressive symptoms in older workers who experience involuntary job loss: Results from the health and retirement survey. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences.* 2006;61(4):S221-S8.
29. Inouye SK, Zhang Y, Han L, Leo-Summers L, Jones R, Marcantonio E. Recoverable cognitive dysfunction at hospital admission in older persons during acute illness. *J Gen Intern Med.* 2006;21(12):1276-81.
30. Jones RN. Identification of measurement differences between English and Spanish language versions of the Mini-Mental State Examination - Detecting differential item functioning using MIMIC modeling. *Med Care.* 2006;44(11):S124-S33.
31. Jones RN, Yang FM, Zhang Y, Kiely DK, Marcantonio ER, Inouye SK. Does educational attainment contribute to risk for delirium? A potential role for cognitive reserve. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences.* 2006;61(12):1307-11.
32. Kiely D, Jones R, Bergmann M, Murphy K, Orav E, Marcantonio E. Association between delirium resolution and functional recovery among newly admitted postacute facility patients. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences.* 2006;61(2):204-8.
33. Kiely DK, Volicer L, Teno J, Jones RN, Prigerson HG, Mitchell SL. The validity and reliability of scales for the evaluation of end-of-life care in advanced dementia. *Alzheimer Dis Assoc Disord.* 2006;20(3):176-81.
34. Kuo H, Jones R, Milberg W, Tennstedt S, Talbot L, Morris J, Lipsitz L. Cognitive function in normal-weight, overweight, and obese older adults: An analysis of the advanced cognitive training for independent and vital elderly cohort. *J Am Geriatr Soc.* 2006;54(1):97-103.
35. Mitchell SL, Kiely DK, Jones RN, Prigerson H, Volicer L, Teno JM. Advanced dementia research in the nursing home: The CASCADE study. *Alzheimer Dis Assoc Disord.* 2006;20(3):166-75.
36. Rudolph J, Jones R, Grande L, Milberg W, King E, Lipsitz L, Levkoff S, Marcantonio E. Impaired executive function is associated with delirium after coronary artery bypass graft surgery. *J Am Geriatr Soc.* 2006;54(6):937-41.
37. Simon SE, Bergmann MA, Jones RN, Murphy KM, Orav EJ, Marcantonio ER. Reliability of a structured assessment for nonclinicians to detect delirium among new admissions to postacute care. *JAMDA.* 2006;7(7):412-5.

38. Wolinsky FD, Unverzagt FW, Smith DA, Jones R, Wright E, Tennstedt SL. The effects of the ACTIVE cognitive training trial on clinically relevant declines in health-related quality of life. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences*. 2006;61(5):S281-S7.
39. Wolinsky FD, Unverzagt FW, Smith DM, Jones R, Stoddard A, Tennstedt SL. The ACTIVE cognitive training trial and health-related quality of life: Protection that lasts for 5 years. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2006;61(12):1324-9.
40. Inouye SK, Zhang Y, Jones RN, Kiely DK, Yang F, Marcantonio ER. Risk factors for delirium at discharge - Development and validation of a predictive model. *Arch Intern Med*. 2007;167(13):1406-13.
41. Kiely DK, Jones RN, Bergmann MA, Marcantonio ER. Association between psychomotor activity delirium subtypes and mortality among newly admitted postacute facility patients. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2007;62(2):174-9.
42. Rudolph JL, Jones RN, Rasmussen LS, Silverstein JH, Inouye SK, Marcantonio ER. Independent vascular and cognitive risk factors for postoperative delirium. *Am J Med*. 2007;120(9):807-13.
43. Yang FM, Jones RN. Center for Epidemiologic Studies - Depression scale (CES-D) item response bias found with Mantel-Haenszel method was successfully replicated using latent variable modeling. *J Clin Epidemiol*. 2007;60(11):1195-200.
44. Inouye SK, Zhang Y, Jones RN, Shi P, Cupples LA, Calderon HN, Marcantonio ER. Risk factors for hospitalization among community-dwelling primary care older patients: Development and validation of a predictive model. *Med Care*. 2008;46(7):726-31.
45. Leveille S, Kiel D, Jones RN, Roman A, Hannan M, Sorond F, Kang H, Samelson E, Gagnon M, Freeman M, Lipsitz L. The MOBILIZE Boston Study: Design and methods of a prospective cohort study of novel risk factors for falls in an older population. *BMC Geriatr*. 2008;8(1):16.
46. Marcantonio ER, Aneja J, Jones RN, Alsop DC, Fong TG, Crosby GJ, Culley DJ, Cupples LA, Inouye SK. Maximizing clinical research participation in vulnerable older persons: Identification of barriers and motivators. *J Am Geriatr Soc*. 2008;56(8):1522-7.
47. Martin L, Poss JW, Hirdes JP, Jones RN, Stones MJ, Fries BE, Rabinowitz T. Predictors of a new depression diagnosis among older adults admitted to complex continuing care: implications for the depression rating scale (DRS). *Age Ageing*. 2008;37(1):51-6.
48. Samelson E, Kelsey J, Kiel D, Roman A, Cupples L, Freeman M, Jones RN, Hannan M, Leveille S, Gagnon M, Lipsitz L. Issues in conducting epidemiologic research in elders: Lessons from the MOBILIZE Boston Study. *Am J Epidemiol*. 2008;168(12):1444-51.
49. Samelson EJ, Kelsey JL, Kiel DP, Roman AM, Cupples LA, Freeman MB, Jones RN, Hannan MT, Leveille SG, Gagnon MM, Lipsitz LA. Issues in Conducting Epidemiologic Research Among Elders: Lessons From The MOBILIZE Boston Study. *Am J Epidemiol*. 2008;168(12):1444-51.

50. Selim M, Jones RN, Novak P, Zhao P, Novak V. The effects of body mass index on cerebral blood flow velocity. *Clin Auton Res.* 2008;18(6):331-8.
51. Yang F, Jones RN. Measurement differences in depression: Chronic health-related and sociodemographic effects in older Americans. *Psychosom Med.* 2008;70(9):993-1004.
52. Yang FM, Cazorla-Lancaster Y, Jones RN. Within group differences in depression among older Hispanics living in the United States. *J Gerontol B Psychol Sci Soc Sci.* 2008;63(1):P27-32.
53. Yang FM, Inouye S, Fearing M, Kiely D, Marcantonio E, Jones RN. Participation in activity and risk for incident delirium. *J Am Geriatr Soc.* 2008;56(8):1479-84.
54. Zhang B, Mitchell SL, Bambauer KZ, Jones RN, Prigerson HG. Depressive symptom trajectories and associated risks among bereaved Alzheimer disease caregivers. *Am J Geriatr Psychiatry.* 2008;16(2):145-55.
55. Fong T, Fearing M, Jones RN, Shi P, Marcantonio E, Rudolph J, Yang F, Kiely D, Inouye S. The Telephone Interview for Cognitive Status: Creating a crosswalk with the Mini-Mental State Exam. *Alzheimers & Dementia.* 2009;5(6):492-7.
56. Fong TG, Jones RN, Shi P, Marcantonio ER, Yap L, Rudolph JL, Yang FM, Kiely DK, Inouye SK. Delirium accelerates cognitive decline in Alzheimer disease. *Neurology.* 2009;72(18):1570-5.
57. Givens JL, Jones RN, Inouye SK. The Overlap Syndrome of Depression and Delirium in Older Hospitalized Patients. *J Am Geriatr Soc.* 2009;57(8):1347-53.
58. Hajjar I, Yang F, Sorond F, Jones RN, Milberg W, Cupples LA, Lipsitz LA. A Novel Aging Phenotype of Slow Gait, Impaired Executive Function, and Depressive Symptoms: Relationship to Blood Pressure and Other Cardiovascular Risks. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences.* 2009;64(9):994-1001.
59. Jones RN, Kiely DK, Marcantonio ER. Prevalence of delirium on admission to post-acute care is associated with a higher number of nursing home deficiencies. *Journal of the American Medical Directors' Association.* 2009;11(4):253-6.
60. Kiely D, Marcantonio E, Inouye S, Shaffer M, Bergmann M, Yang F, Fearing M, Jones RN. Persistent delirium predicts greater mortality. *J Am Geriatr Soc.* 2009;57:55-61.
61. Mitchell S, Teno J, Kiely D, Shaffer M, Jones RN, Prigerson H, Volicer L, Givens J, Hamel M. The clinical course of advanced dementia. *N Engl J Med.* 2009;361:1529-38.
62. Newman LR, Lown BA, Jones RN, Johansson A, Schwartzstein RM. Developing a Peer Assessment of Lecturing Instrument: Lessons Learned. *Acad Med.* 2009;84(8):1104-10.
63. Rudolph JL, Jones RN, Levkoff SE, Rockett C, Inouye SK, Sellke FW, Khuri SF, Lipsitz LA, Ramlawi B, Levitsky S, Marcantonio ER. Derivation and Validation of a Preoperative Prediction Rule for Delirium After Cardiac Surgery. *Circulation.* 2009;119(2):229-36.
64. Sorond F, Serrador J, Jones RN, Shaffer M, Lipsitz L. The Sit-to-Stand Technique for the measurement of dynamic cerebral autoregulation. *Ultrasound Med Biol.* 2009;35(1):21-9.

65. Teresi J, Ocepek-Welikson K, Kleinman M, Eimicke J, Crane P, Jones RN, Lai J, Choi S, Hays R, Reeve B, Reise S, Pilkonis P, Cella D. Analysis of differential item functioning in the depression item bank from the Patient Reported Outcome Measurement Information System (PROMIS): An item response theory approach. *Psychology Science Quarterly*. 2009;51(2):148-80.
66. Tucker-Drob EA, Johnson KE, Jones RN. The Cognitive Reserve Hypothesis: A Longitudinal Examination of Age-Associated Declines in Reasoning and Processing Speed. *Dev Psychol*. 2009;45(2):431-46.
67. Wolinsky FD, Mahncke HW, Kosinski M, Unverzagt FW, Smith DM, Jones RN, Stoddard A, Tennstedt SL. The ACTIVE cognitive training trial and predicted medical expenditures. *Bmc Health Services Research*. 2009;9:109.
68. Wolinsky FD, Mahncke HW, Vander Weg MW, Martin R, Unverzagt FW, Ball KK, Jones RN, Tennstedt SL. The ACTIVE Cognitive Training Interventions and the Onset of and Recovery from Suspected Clinical Depression. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences*. 2009;64(5):577-85.
69. Wolinsky FD, Weg MWV, Martin R, Unverzagt FW, Ball KK, Jones RN, Tennstedt SL. The Effect of Speed-of-Processing Training on Depressive Symptoms in ACTIVE. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences*. 2009;64(4):468-72.
70. Yang FM, Marcantonio ER, Inouye SK, Kiely DK, Rudolph JL, Fearing MA, Jones RN. Phenomenological Subtypes of Delirium in Older Persons: Patterns, Prevalence, and Prognosis. *Psychosomatics*. 2009;50(3):248-54.
71. Yang FM, Tommet D, Jones RN. Disparities in self-reported geriatric depressive symptoms due to sociodemographic differences: An extension of the bi-factor item response theory model for use in differential item functioning. *J Psychiatr Res*. 2009;43(12):1025-35.
72. Aiken Morgan A, Marsiske M, Dzierzewski J, Jones RN, Whitfield K, Johnson K, Cresci M. Race-related cognitive test bias in the ACTIVE study: A MIMIC model approach. *Exp Aging Res*. 2010;36(4):426-52.
73. Ayotte BJ, Yang FM, Jones RN. Physical Health and Depression: A Dyadic Study of Chronic Health Conditions and Depressive Symptomatology in Older Adult Couples. *Journals of Gerontology Series B-Psychological Sciences and Social Sciences*. 2010;65(4):438-48.
74. Givens JL, Jones RN, Shaffer ML, Kiely DK, Mitchell SL. Survival and comfort after treatment of pneumonia in advanced dementia. *Arch Intern Med*. 2010;170(13):1102-7.
75. Hannan MT, Gagnon MM, Aneja J, Jones RN, Cupples LA, Lipsitz LA, Samelson EJ, Leveille SG, Kiel DP. Optimizing the Tracking of Falls in Studies of Older Participants: Comparison of Quarterly Telephone Recall With Monthly Falls Calendars in the MOBILIZE Boston Study. *Am J Epidemiol*. 2010;171(9):1031-6.
76. Jones RN, Fong TG, Metzger E, Tulebaev S, Yang FM, Alsop DC, Marcantonio ER, Cupples LA, Gottlieb G, Inouye SK. Aging, Brain Disease, and Reserve: Implications for Delirium. *Am J Geriatr Psychiatry*. 2010;18(2):117-27.
77. Jones RN, Hirdes J, Poss J, Kelly M, Berg K, Fries B, Morris J. Adjustment of nursing home quality indicators. *BMC Health Services Research*. 2010;10(96):96.

78. Jones RN, Rudolph JL, Inouye SK, Yang FM, Fong TG, Milberg WP, Tommet D, Metzger ED, Cupples LA, Marcantonio ER. Development of a unidimensional composite measure of neuropsychological functioning in older cardiac surgery patients with good measurement precision. *J Clin Exp Neuropsychol.* 2010;32(10):1041-9.
79. Marcantonio E, Bergmann M, Kiely D, Orav E, Jones RN. Randomized trial of a delirium abatement program for postacute skilled nursing facilities. *J Am Geriatr Soc.* 2010;58(6):1019-26.
80. O'Connor M, Kapust L, Lin B, Hollis A, Jones RN. The 4Cs (Crash History, Family Concerns, Clinical Condition, and Cognitive Functions): A Screening Tool for the Evaluation of the At Risk Driver. *J Am Geriatr Soc.* 2010;58(6):1104-8.
81. Rudolph JL, Inouye SK, Jones RN, Yang FM, Fong TG, Levkoff SE, Marcantonio ER. Delirium: An Independent Predictor of Functional Decline After Cardiac Surgery. *J Am Geriatr Soc.* 2010;58(4):643-9.
82. Rudolph JL, Zanin NM, Jones RN, Marcantonio ER, Fong TG, Yang FM, Yap LA, Inouye SK. Hospitalization in Community-Dwelling Persons with Alzheimer's Disease: Frequency and Causes. *J Am Geriatr Soc.* 2010;58(8):1542-8.
83. Wolinsky FD, Mahncke H, Vander Weg MW, Martin R, Unverzagt FW, Ball KK, Jones RN, Tennstedt SL. Speed of processing training protects self-rated health in older adults: enduring effects observed in the multi-site ACTIVE randomized controlled trial. *Int Psychogeriatr.* 2010;22(3):470-8.
84. Berkowitz RE, Jones RN, Rieder R, Bryan M, Schreiber R, Verney S, Paasche-Orlow MK. Improving Disposition Outcomes for Patients in a Geriatric Skilled Nursing Facility. *J Am Geriatr Soc.* 2011;59(6):1130-6.
85. Brand CA, Martin-Khan M, Wright O, Jones RN, Morris JN, Travers CM, Tropea J, Gray LC. Development of quality indicators for monitoring outcomes of frail elderly hospitalised in acute care health settings: Study Protocol. *Bmc Health Services Research.* 2011;11:8.
86. Fong TG, Jones RN, Rudolph JL, Yang FM, Tommet D, Habtemariam D, Marcantonio ER, Langa KM, Inouye SK. Development and Validation of a Brief Cognitive Assessment Tool The Sweet 16. *Arch Intern Med.* 2011;171(5):432-7.
87. Gangavati A, Hajjar I, Quach L, Jones RN, Kiely DK, Gagnon P, Lipsitz LA. Hypertension, Orthostatic Hypotension, and the Risk of Falls in a Community-Dwelling Elderly Population: The Maintenance of Balance, Independent Living, Intellect, and Zest in the Elderly of Boston Study. *J Am Geriatr Soc.* 2011;59(3):383-9.
88. Gibbons LE, Crane PK, Mehta KM, Pedraza O, Tang Y, Manly JJ, Narasimhalu K, Teresi J, Jones RN, Mungas D. Multiple, correlated covariates associated with differential item functioning (DIF): Accounting for language DIF when education levels differ across languages. *Ageing research.* 2011;2(1):19.
89. Givens JL, Prigerson HG, Jones RN, Mitchell SL. Mental Health and Exposure to Patient Distress Among Families of Nursing Home Residents with Advanced Dementia. *J Pain Symptom Manage.* 2011;42(2):183-91.
90. Hayden KM, Jones RN, Zimmer C, Plassman BL, Browndyke JN, Pieper C, Warren LH, Welsh-Bohmer KA. Factor Structure of the National Alzheimer's Coordinating Centers Uniform Dataset Neuropsychological Battery An Evaluation of Invariance

- Between and Within Groups Over Time. *Alzheimer Dis Assoc Disord*. 2011;25(2):128-37.
91. Hayden KM, Reed BR, Manly JJ, Tommet D, Pietrzak RH, Chelune GJ, Yang FM, Revell AJ, Bennett DA, Jones RN. Cognitive decline in the elderly: an analysis of population heterogeneity. *Age Ageing*. 2011;40(6):684-9.
92. Jefferson AL, Gibbons LE, Rentz DM, Carvalho JO, Manly J, Bennett DA, Jones RN. A Life Course Model of Cognitive Activities, Socioeconomic Status, Education, Reading Ability, and Cognition. *J Am Geriatr Soc*. 2011;59(8):1403-11.
93. Quach L, Galica AM, Jones RN, Procter-Gray E, Manor B, Hannan MT, Lipsitz LA. The Nonlinear Relationship Between Gait Speed and Falls: The Maintenance of Balance, Independent Living, Intellect, and Zest in the Elderly of Boston Study. *J Am Geriatr Soc*. 2011;59(6):1069-73.
94. Yang FM, Heslin KC, Mehta KM, Yang C-W, Ocepek-Welikson K, Kleinman M, Morales LS, Hays RD, Stewart AL, Mungas D. A comparison of item response theory-based methods for examining differential item functioning in object naming test by language of assessment among older Latinos. *Psychological test and assessment modeling*. 2011;53(4):440-60.
95. Yen Y-C, Rebok GW, Gallo JJ, Jones RN, Tennstedt SL. Depressive Symptoms Impair Everyday Problem-Solving Ability Through Cognitive Abilities in Late Life. *Am J Geriatr Psychiatry*. 2011;19(2):142-50.
96. Crane PK, Carle A, Gibbons LE, Insel P, Mackin RS, Gross A, Jones RN, Mukherjee S, Curtis SM, Harvey D, Weiner M, Mungas D, Neuroimaging AsD. Development and assessment of a composite score for memory in the Alzheimer's Disease Neuroimaging Initiative (ADNI). *Brain Imaging and Behavior*. 2012;6(4):502-16.
97. Eggermont LHP, Penninx BWJH, Jones RN, Leveille SG. Depressive Symptoms, Chronic Pain, and Falls in Older Community-Dwelling Adults: The MOBILIZE Boston Study. *J Am Geriatr Soc*. 2012;60(2):230-7.
98. Fong TG, Jones RN, Marcantonio ER, Tommet D, Gross AL, Habtemariam D, Schmitt E, Yap L, Inouye SK. Adverse Outcomes After Hospitalization and Delirium in Persons With Alzheimer Disease. *Ann Intern Med*. 2012;156(12):848-U121.
99. Gross AL, Inouye SK, Rebok GW, Brandt J, Crane PK, Parisi JM, Tommet D, Bandeen-Roche K, Carlson MC, Jones RN, Neuroimaging AsD. Parallel but not equivalent: Challenges and solutions for repeated assessment of cognition over time. *J Clin Exp Neuropsychol*. 2012;34(7):758-72.
100. Gross AL, Jones RN, Habtemariam DA, Fong TG, Tommet D, Quach L, Schmitt E, Yap L, Inouye SK. Delirium and Long-term Cognitive Trajectory Among Persons With Dementia. *Arch Intern Med*. 2012;172(17):1324-31.
101. Huang L-W, Inouye SK, Jones RN, Fong TG, Rudolph JL, O'Connor MG, Metzger ED, Crane PK, Marcantonio ER. Identifying Indicators of Important Diagnostic Features of Delirium. *J Am Geriatr Soc*. 2012;60(6):1044-50.
102. Saczynski JS, Marcantonio ER, Quach L, Fong TG, Gross A, Inouye SK, Jones RN. Cognitive Trajectories after Postoperative Delirium. *N Engl J Med*. 2012;367(1):30-9.
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204. Ott BR, Jones R, Daiello LA, Monte Sdl, Stopa EG, Johanson CE, Denby C, Grammas P. Blood-Cerebrospinal Fluid Barrier Gradients in Mild Cognitive Impairment and Alzheimer's Disease: Relationship to Inflammatory Cytokines and Chemokines. *Frontiers in Aging Neuroscience*. 2018;10:245.

205. Hshieh T, Fong T, Schmitt E, Marcantonio E, D'Aquila M, Gallagher J, Xu G, Gou Y, Abrantes T, Bertrand S, Jones RN, Inouye S, for the BASIL study group. The Better Assessment of Illness (BASIL) for Delirium Severity: Study Design, procedures, and cohort description. *Gerontologist*. 2018;in press.

206. Gross AL, Tommet D, D'Aquila M, Schmitt E, Marcantonio ER, Helfand B, Inouye SK, Jones RN. Harmonization of delirium severity instruments: a comparison of the DRS-R-98, MDAS, and CAM-S using item response theory. *BMC Medical Research Methodology*. 2018;18(1):92.

OTHER PEER-REVIEWED PUBLICATIONS

1. Unverzagt FW, Smith DM, Rebok GW, Marsiske M, Morris JN, Jones RN, Willis SL, Ball K, King JW, Koepke KM, Stoddard A, Tennstedt SL. The Indiana Alzheimer Disease Center's Symposium on Mild Cognitive Impairment. *Cognitive Training in Older Adults: Lessons from the ACTIVE Study*. *Curr Alzheimer Res*. 2009;6(4):375-83.

2. Liu S, Jones RN, Glymour M. Implications of lifecourse epidemiology for research on determinants of adult disease. *Public Health Rev*. 2010;32(2):489-511.

3. Jones RN, Manly J, Glymour MM, Rentz DM, Jefferson AL, Stern Y. Conceptual and Measurement Challenges in Research on Cognitive Reserve. *J Int Neuropsychol Soc*. 2011;17(4):593-601.

4. Mungas D, Crane PK, Gibbons LE, Manly JJ, Glymour MM, Jones RN. Advanced psychometric analysis and the Alzheimer's Disease Neuroimaging Initiative: reports from the 2011 Friday Harbor conference. *Brain Imaging and Behavior*. 2012;6(4):485-8.

5. Templin TN, Hays RD, Gershon RC, Rothrock N, Jones RN, Teresi JA, Stewart A, Weech-Maldonado R, Wallace S. Introduction to patient-reported outcome item banks: issues in minority aging research. *Expert review of pharmacoeconomics & outcomes research*. 2013;13(2):183-6.

6. Jones RN. Practice and retest effects in longitudinal studies of cognitive functioning. *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*. 2015;1(1):101.

7. Fong TG, Inouye SK, Jones RN. Delirium, Dementia, and Decline. *JAMA Psychiatry*. 2017;in press.

8. Shafi MM, Santarnecchi E, Fong TG, Jones RN, Marcantonio ER, Pascual-Leone A, Inouye SK. Advancing the Neurophysiological Understanding of Delirium. *J Am Geriatr Soc.* 2017: in press
9. Fick DM, Auerbach AD, Avidan MS, Busby-Whitehead J, Ely EW, Jones RN, Marcantonio ER, Needham DM, Pandharipande P, Robinson TN. Network for Investigation of Delirium Across the US (NIDUS): Advancing the Field of Delirium with a New Interdisciplinary Research Network. *J Gerontol Nurs.* 2017;43(5):4-6.
10. Fick DM, Auerbach AD, Avidan MS, Busby-Whitehead J, Ely EW, Jones RN, Marcantonio ER, Needham DM, Pandharipande P, Robinson TN, Schmitt EM, Trivison TG, Inouye SKI. Network for Investigation of Delirium across the U.S.: Advancing the Field of Delirium with a New Interdisciplinary Research Network. *J Am Geriatr Soc.* 2017.

BOOKS AND BOOK CHAPTERS

1. Jones RN. Data Analysis Issues. In: Lipsitz L, Bernard M, Chernoff R, Connelly C, Evans L, Foreman M, Hanlon J, Kuchel G, Wieland D, Studenski S, editors. *Multidisciplinary Guidebook for Clinical Geriatric Research.* Washington, D.C.: The Gerontological Society of America; 2006. p. 63-87.
2. Hirdes J, Curtin-Telegdi N, Mathias, Krista , Perlman CM, Saarela T, Kolbeinsson H, Valdimarsdottir R, Morris JN, Fries BE, Rabinowitz T, Martin L, Barbaree H, Brown GP, Stewart S, Smith TF, Jones RN, Baas R. *interRAI Mental Health Clinical Assessment Protocols (CAPs), 9.1: interRAI;* 2008.
3. Jones R. Latent growth curve models. In: Newsom J, N JR, Hofer S, editors. *Longitudinal data analysis: A practical guide for researchers in aging, health, and social sciences.* New York: Routledge; 2011. p. 271-90.
4. Newsom J, N JR, Hofer S. *Longitudinal data analysis: A practical guide for researchers in aging, health, and social sciences.* New York: Routledge; 2011. 271-90 p.
5. Teresi JA, Jones RN. Bias in psychological assessment and other measures. In: Geisinger K, Bracken B, Carlson J, Hansen J-I, Kuncel N, Reise S, Rodriguez M, editors. *APA handbook of testing and assessment in psychology, Vol 1: Test theory and testing and assessment in industrial and organizational psychology* APA handbooks in psychology. Washington, DC: American Psychological Association; 2013. p. 139-64.

OTHER NON-PEER-REVIEWED PUBLICATIONS

1. Kiely DK, Jones RN, Bergmann MA, Marcantonio ER. Delirium and functional recovery in elderly patients - Authors' response to letter by Speciale et al. *Journals of Gerontology Series a-Biological Sciences and Medical Sciences.* 2007;62(1):108.
2. Marcantonio ER, Bergmann MA, Kiely DK, Orav EJ, Jones RN. EFFECTIVE TREATMENT OF DELIRIUM IS DIFFICULT BUT NOT IMPOSSIBLE RESPONSE. *J Am Geriatr Soc.* 2011;59(1):168-9.
3. Marcantonio ER, Saczynski JS, Jones RN. Cognitive Trajectories after Postoperative Delirium REPLY. *N Engl J Med.* 2012;367(12):1164-5.

4. Cavallari M, Guttmann CRG, Jones RN, Inouye SK, Alsop DC, Grp SS. Reply: Neural substrates of vulnerability to post-surgical delirium with prospective diagnosis. *Brain*. 2016;139(Pt 10):e55.
5. Cieza A, Oberhauser C, Bickenbach J, Jones RN, Uestuen TB, Kostanjsek N, Morris JN, Chatterji S. Health is not just the absence of disease. *Int J Epidemiol*. 2016;45(2):586-7.
6. Fong TG, Inouye SK, Jones RN. Delirium, Dementia, and Decline. *JAMA Psychiatry*. 2017;in press(3):212-213.
7. Jones RN. Cognitive Training Improves Cognitive Performance, but What Else? *J Am Geriatr Soc*. 2018;66(4):648-649.
8. Hayden KM, Inouye SK, Cunningham C, Jones RN, Avidan M, Davis D, Kuchel G, Khachaturian AS. Reduce the burden of dementia now. *Alzheimer's & Dementia*. 2018;14(7):845-847.

CORPORATE AUTHORSHIP OR MULTICENTER TRIALS

1. AGS/NIA Delirium Conference Writing Group Planning Committee and Faculty. The American Geriatrics Society/National Institute on Aging Bedside-to-Bench Conference: Research Agenda on Delirium in Older Adults. *J Am Geriatr Soc*. 2015;63(5):843-52. (*presenter*)

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

NON-PEER-REVIEWED

Latent Variable Methods Workshop

This is a website designed to provide information on upcoming workshops, as well as distribute all slides, handouts, data, and syntax used in previous latent variable methods workshops. Every summer we hold a three day workshop providing an introduction to latent variable data analysis.

<https://sites.google.com/site/lvmworkshop/>

QSP Workflow

This is a website devoted to distributing and discussing best practices for workflow in applied data analysis. Content is contributed by my working group at HSL/IFAR. We provide information on applied data analysis and workflow using Stata, R, Mplus, LaTeX, GraphViz, and other tools.

<https://sites.google.com/site/ifarwf/>

Phi Coefficient. Wikipedia entry. http://en.wikipedia.org/wiki/phi_coefficient

runmplus

runmplus is software for wrapping Mplus (Los Angeles, CA) within Stata (College Station, TX). The software is in the public domain (meaning it is freely distributed, not protected by copyright, and users may freely download, use, and modify). It is published in the Statistical Software Components (SSC) archive provided by the Research Papers in Economics (REPEC) archive at Boston College. The software is also distributed freely from my short course web site. I do not keep a record of users. Based on support and feature requests I know that runmplus has an international user base. The software streamlines the estimation of complex models using Mplus by facilitating data preparation and by including an output interpreter.

Jones, R. N. (2010). RUNMPLUS: Stata module to set up data for Mplus (Version S457154): Boston College Department of Economics. Retrieved from <http://ideas.repec.org/c/boc/bocode/s457154.html>

INVITED PRESENTATIONS

LOCAL

1. Applications of Modern Measurement in the Epidemiology of Aging / Invited Lecture Social Epidemiology Journal Club, Harvard School of Public Health, Department of Society, Health and Human Development (2006)
2. Latent Variable Modeling of Cognitive Reserve / Grand Rounds Beth Israel Deaconess Medical Center, Department of Medicine (2009)
3. Measurement and Methodology in Late Life Depression / Invited Lecture Harvard Medical School, Catalyst (2009)
4. Measurement Theory Considerations in Health Care Quality Assessment / Center for Gerontology and Healthcare Research, Brown University (2010)
5. Neuropsychological Profiles in Alzheimer's Disease and Cerebral Infarction: A Longitudinal MIMIC Model / Invited Lecture Harvard School of Public Health, Catalyst Biostatistics Seminar (2011)
6. Screening for Delirium: Applications of Item Response Theory in Deriving a New Tool / Invited Lecture (2011)
7. Anesthesia Grand Rounds, Brigham and Women's Hospital, Boston MA (2011)

NATIONAL

1. Race/ethnicity and Late-Life Cognitive Function: A Study of Item Bias in the AHEAD Telephone Interview for Cognitive Status / Invited Lecture. University of Michigan, Institute for Social Research, Ann Arbor MI. 2001.
2. Applications of Psychometric Modeling in Research on Mental Health and Aging / Invited Lecture. Columbia University, Stroud Center for the Quality of Life. 2002.
3. Some approaches to longitudinal data analysis / Invited Pre-Conference Workshop. Gerontological Society of America, Boston MA. 2002.

4. Modern Measurement and the Assessment of Adult Cognitive Function / Invited Lecture. National Institutes of Health, National Institute on Aging, Intramural Research Program, Baltimore MD. 2003.
5. Applications of Item Response Theory in Aging Research / Invited Lecture. Yale Program on Aging and Claude D. Pepper Center for Older Americans Independence Center, New Haven CT. 2003.
6. Applications of Modern Measurement Techniques in Research on Mental Health and Aging / Invited Lecture. NIMH Advanced Center for Interventions and Services Research (ACISR): Depression and Aging, Department of Psychiatry, University of Pennsylvania, Philadelphia PA. 2004.
7. Unidimensionality: Issues and Implications in Applied Research / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2004.
8. Longitudinal Data Analysis Using Mplus / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2004.
9. Detecting Differential Item Functioning using Mplus/MIMIC Modeling / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2004.
10. Approaches for Developing/Adapting Health-Related Concepts and Measures in Diverse Older Populations / Invited Lecture Pre-Conference Workshop. NIA Resource Centers for Minority Aging Research, Gerontological Society of America, Orlando FL. 2005.
11. IRT – Approaches to Measurement Using Mplus / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2005.
12. Using the MIMIC Model to Detect Differential Item Functioning / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2006.
13. Latent Growth Curve Models for Longitudinal Data Analysis using Mplus / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2006.
14. Applications of Modern Measurement in the Epidemiology of Cognitive Aging / Invited Lecture. Cognitive Neuroscience Seminar, Taub Institute for Research on Alzheimer's Disease and the Aging Brain. Gertrude H. Sergievsky Center, Columbia University College of Physicians and Surgeons, New York. 2006.
15. Multivariate Models in Aging Research: An Mplus Primer / Invited Lecture. Yale University Program on Aging, New Haven CT. 2008.
16. Structural Equations Modeling Approach to Measurement Noninvariance and Differential Item Functioning Detection / Invited Lecture. University of Washington, Quality of Life and Biobehavioral Cancer Prevention and Control Training Program, Seattle WA. 2009.
17. Latent Variable Modeling of Cognitive Reserve / Invited Lecture. Alzheimer's Disease Research Centers Core Directors Meeting, Baltimore MD. 2009.

18. Latent Variable Modeling of Cognitive Reserve / Invited Lecture. Advanced Psychometrics Workshop, University of Washington, Friday Harbor WA. 2009.
19. Screening for Delirium: Applications of Item Response Theory in Deriving a New Tool / Invited Lecture. University of Washington, Seattle WA. 2009.
20. Longitudinal DIF in Physical Function Items. Detection using Multiple Group Structural Equation Modeling / Invited Lecture. PROMIS Psychometrics Summit III , Chicago IL. 2010.
21. Impact of DIF in CAT: A Simulation Study using the PROMIS Depression Item Bank / Invited Lecture. PROMIS Psychometrics Summit IV, Airlie VA. 2011.
22. Individual Assessments of Cognitive Change. Committee on the Public Health Dimensions of Cognitive Aging, Institute of Medicine, National Academy of Sciences. Washington, DC. April 10, 2014
23. (Mis-) Measurement of reserve. Cognitive Aging Summit III. National Institutes of Health, National Institute of Aging, April 6, 2017

INTERNATIONAL

1. An Overview of Structural Equation Modeling in Cognitive Aging Research / Pre-conference workshop (International Neuropsychological Society). 2011.
2. Applications of item response theory in the measurement of physical disability. Joint Statistical Meetings; August 7, 2013; Montreal, Quebec, Canada.
3. Harmonizing Measurements Across Studies of Dementia and Cognitive Aging. Alzheimer's Association International Conference, Data and Data Analytics Professional Interest Area Scientific Symposium, July 23, 2016, Toronto Ontario CANADA.
4. Item Analysis Project. Alzheimer's Association International Conference, Subjective Cognitive Decline Professional Interest Area Scientific Symposium, July 23, 2016, Toronto Ontario CANADA.
5. Cross-national Harmonization of Mental Status and Cognitive Performance Data: Suitability for Comparative Epidemiologic Research. Inserm Workshop: Recent Developments in Analysis of Patient-Reported Outcomes and Psychometric Data in Health. May 21, 2019, Bordeaux, France

GRANTS

Past

- 1997-2001 **TLC Telephone System for Alzheimer's Family Caregivers (Mahoney, DF)**
U01AG013255
Co-Investigator, Biostatistician
The goal of this study was to evaluate a technology based intervention to support family caregivers of patients with Alzheimer's disease.
- 2000 **Race, Ethnicity and Late-Life Cognitive Functioning (Jones, RN)**
R03 AG18690
Principal Investigator (\$25,000)
The aim of this proposal was to conduct an item response theory (IRT) based item bias evaluation of cognitive assessments of very old persons. Item bias analyses were conducted to test the null hypotheses that, while holding constant group differences in underlying cognitive ability, the cognitive test items are (a) free from bias according to race/ethnicity, and (b) free from bias according to level of educational attainment.
- 2000-2006 **Trial to Reduce Delirium in Aged Post-Acute Patients (Marcantonio, ER)**
R01 AG017649
Co-Investigator
The goal of this study was to evaluate a cluster-randomized controlled trial for the amelioration of delirium among post-acute care patients.
- 2001-2006 **PROGRAM HEAL - Activating the Lives of Older Adults (Morris, JN)**
R01 AG017931
Co-Investigator
The goal of this project was to evaluate an applied intervention to promote activity among nursing home residents using community volunteers.
- 2002-2011 **Harvard Older Americans Independence Center (Lipsitz, LA)**
P60 AG008812
Core Director, Biostatistics and Evaluation Core
The goal of this project was to support pilot and developmental studies on the physiology of falls and functional limitations among older adults.
- 2003-2006 **ACTIVE Phase II: HRCA Field Site (Morris, JN)**
U01 NR004507
Co-Investigator
The goal of this study was to evaluate the effects of a randomized controlled trial of cognitive training programs for older adults at 5 years after intervention.
- 2003-2006 **Evaluation of the Massachusetts Extended Care Career Ladder Initiative (Jones, RN)**
Commonwealth Corporation, Massachusetts
Principal Investigator

The goal of this study was to evaluate the impact of the Commonwealth Corporation's Extended Care Career Ladder Initiative using administrative data.

- 2003-2004 **Aging and Course of Depressive Symptoms (Jones, RN)**
R03 AG021153
Principal Investigator (\$100,000)
The aim of this study was to evaluate age changes in depressive symptoms over a wide age range (50+) and to evaluate sex and race/ethnicity differences in depressive symptom trajectories.
- 2004-2009 **The CASCADE Study: End-of-Life in Advanced Dementia (Mitchell, SL)**
R01 AG024091
Co-Investigator
The goal of this study was to describe the natural course and family decision making at the end-of-life for patients with advanced dementia.
- 2004-2010 **HRC/Harvard Research Nursing Home (Lipsitz, LA)**
P01 AG0004390
Core Director, Data Management and Analysis Core
The goal of this project was to mount a prospective community-based study of older persons and their experiences and risks for falls.
- 2005-2006 **Delirium and Survival in Post-Acute Care (Jones, RN)**
R03 AG025262
Principal Investigator (\$100,000)
The aim of this study was to evaluate the impact of the occurrence of delirium among older patients admitted to post-acute care on risk of death.
- 2005-2009 **Understanding Disparities in Mental Status Assessment (Jones, RN)**
R01 AG025308
Principal Investigator
The goal of this study was to perform psychometric and statistical methods development for the detection of item bias, and to apply those tools to the detection of bias in the assessment of cognitive performance level across different race and ethnicity groups.
- 2006-2010 **Improving the Quality of Care in Nursing Homes (Morris, JN)**
R01 NR009071
Co-Investigator
The goal of this project was to evaluate a focused effort to integrate quality indicator performance data into care practice modifications in Massachusetts nursing homes.
- 2007 **Understanding Disparities in Mental Status Assessment – Supplement (Jones, RN)**
R01 AG025308-03S1
Principal Investigator
The goal of this study was to extend methods and applied research for item bias detection to from mental status to depression.

- 2007-2010 **Developing a Culturally- and Clinically-Sensitive Depression Instrument to Improve Screening Among Minority Older Adults with Cardiovascular Disease (Yang, PI)**
 NARSAD Young Investigator Award
 This study examined measurement bias in widely used depression screening instruments. A major product of this research is an dynamic or adaptive test of the severity of depression capable of being administered by computer or paper-and-pencil, based on the PROMIS (NIH Roadmap Patient Reported Outcomes Measurement Information System) Depression item bank. My role is as mentor and co-investigator.
- 2008-2011 **ACTIVE Phase III: HRCA Field Site (Morris, JN)**
 U01 NR004507
 This is the 10-year follow-up of more than 3000 elders enrolled in a randomized controlled trial of three cognitive training interventions.
- 2007-2012 **Improving Cognitive Outcome Precision and Responsiveness with Psychometrics (Crane, PK)**
 R01 AG029672
 Co-Investigator
 This is a competing supplement to the Alzheimer's Neuroimaging Initiative. The goals are to improve psychometric test sensitivity to neuroimaging findings.
- 2008-2014 **Deriving and Validating a 3-Minute Diagnostic Assessment for Delirium (Marcantonio, ER)**
 R01 AG030618
 Co-Investigator
 This is a project engaged in developing an improved screening tool for delirium. We are making use of modern measurement methods (e.g. item response theory).
- 2009-2014 **Patient Reported Outcomes in Clinical Care of Patients with HIV (Crane, PK)**
 U01 AR057954
 Co-Investigator
 This is a NIH Roadmap PROMIS (Patient Reported Outcomes Measurement Information System) project with the aim of developing and evaluating computerized adaptive testing of patient reported outcomes in an HIV clinic. My expertise in measurement bias detection has led to my being invited to lead analyses in PROMIS. The PROMIS initiative is developing standard, flexible, and dynamic assessment tools for the assessment of the outcomes of health care accessing the patient's perspective. My role is to evaluate methodologies to detect and assess the impact of measurement bias (differential item functioning) when responses are collected with dynamic (computerized adaptive) approaches.
- 2013-2014 **Big Questions in Cognitive Aging: An Integrative Analysis (Gross, A)**
 R03 AG045494
 Co-Investigator

The goal of this project was to use several large epidemiologic studies with longitudinal data that administered different neuropsychological test batteries and harmonize the measures across study and scale to a nationally representative sample of older adults.

- 2009-2014 **Validation of PROMIS in Diverse Cancer Populations (Potosky, AL)**
U01 AR057971
Consultant 2009-2014
The goals of this project are evaluate the Patient Reported Outcomes Measurement Information System (PROMIS) measures of depression, fatigue, physical function, and social function in cancer patients. This study will provide evidence about whether there are differences in the measurements of these outcomes across different population groups. My role is to lead the analysis of measurement bias in the PROMIS domains. The research will provide data to inform changes to improve the measures and ultimately enable their wider use in health research.
- 2010-2016 **Interdisciplinary Study of Delirium and its Long-Term Outcomes (Inouye, SK)**
P01 AG031720
Project Leader, Project 4: The Role of Reserve in Delirium
This project, The Role of Reserve in Delirium, was part of a program project involving a prospective observational epidemiologic study of delirium among 500 surgical patients. This project concerns the role of reserve on the occurrence and consequences of delirium following elective surgery. The major aims of this study are to: (1) develop both a specific and a general index of reserve that reflect brain reserve and cognitive reserve, and (2) evaluate the independent contribution of reserve facets to the risk for incident delirium, and (3) evaluate the independent contribution of reserve facets to the long-term consequences of delirium.
- 2010-2016 **Interdisciplinary Study of Delirium and its Long-Term Outcomes (Inouye, SK)**
P01 AG031720
Core co-Director, Core C
The Data Management and Statistical Analysis Core processes, prepares, and analyses data for the Delirium program project.
- 2014-2017 **Treatment decisions for Perinatal Bipolar Disorder (Abrantes & Uebelacker, MPI)**
R34 MH103570
Co-Investigator
The goal of this study is to evaluate women's attitudes regarding treatment of bipolar disorder in the perinatal period, and to clarify the processes by which women make decisions to continue or discontinue medication treatment for bipolar disorder during this high risk period.
- 2017-2018 **Modulating impulsivity in suicidal adolescents with tDCS: a proof of concept study (Liu, PI)**

R21-MH112055

Co-Investigator

The purpose of this proof-of-concept study is to determine whether transcranial direct current stimulation (tDCS) may affect impulsive cognition and behavior in adolescent suicide attempters, in a three-group randomized design, through specific neural pathways (the right inferior frontal gyrus in the case of behavioral impulsivity and the left orbitofrontal cortex in the case of cognitive impulsivity), as assessed with electroencephalography (EEG) and event-related potentials (ERPs).

2015-2018 **Ecological Momentary Assessment of Behavioral and Psychosocial Predictors of Weight Loss following Bariatric Surgery**

(Bond & Thomas, MPI)

R01 DK108579-01

Co-Investigator

The goal of this project is to recruit and follow a cohort of individuals who recently received bariatric surgery to address obesity, and identify the trajectory of weight changes and correlates variability in those trajectories.

Current, Active

2018-2023 **Delirium, Dementia, and the Vulnerable Brain Project 4: Defining the Phenotype of Complicated Delirium**

(Jones, Project Leader, Inouye, PI)

2-P01 AG031720

Project Leader

This project will develop a predictive model for cognitive decline following surgery and delirium. Project 4 will use qualitative and quantitative methods to empirically derive a new classification system for delirium subtypes based on post-delirium episode complications and cognitive decline.

2018-2020 **Meeting the End-of-life Care Needs of Nursing Home Residents with Advanced Alzheimer's Disease or Related Dementia: A Longitudinal Study of Pain and Depressive Symptoms**

(Belanger, PI)

R03-AG060241

Co-Investigator

This project addresses the management of pain and depressed mood, which are two common and distressing symptoms among advanced Alzheimer's Disease or Related Dementia in the nursing home setting. This project is particularly relevant to the mission of the NIA because it capitalizes on existing administrative data to improve end-of-life care in ADRD, which has become the 6th leading cause of death in the US.

2018-2023 **Health and Retirement Study**

(Weir, PI)

U01-AG009740

Co-Investigator

Continuation of the Health and Retirement Study (HRS) through years 29-34. The HRS is the nation's pre-eminent resource for publicly-available data on the economic well-being and physical and mental health of its older population. Its longitudinal design allows rigorous examination of causal pathways among social, psychological, economic, and health variables and the impact of policy changes on these relationships.

- 2018-2023 **Health and Retirement Study Harmonized Cognitive Assessment**
(Langa, PI)
U01-AG058499
Co-Investigator
The Harmonized Cognitive Assessment Protocol (HCAP) is a major expansion to the data collected in the Health and Retirement Study (HRS), and provides rigorous and detailed assessment of the level of cognitive functioning of HRS participants. This proposal is for the continuation of HCAP-related research in the HRS study through years 29-34.
- 2014-2019 **Development of a Delirium Severity Toolkit**
(Jones RN, Inouye SK, MPI)
R01 AG044518
Principal Investigator (1 of 2 PIs)
The goal is to develop a Delirium Severity Toolkit, a dynamic set of new measures developed with expert clinical judgment using modern psychometric theory to capture the severity of delirium in various phenomenological presentations.
- 2008-2023 **Conference on Advanced Psychometric Methods in Cognitive Aging Research**
(Mungas, D)
R13 AG030995
Co-Investigator
This conference series is designed to promote the application of modern psychometric methods in research on cognitive decline associated with diseases of aging. I serve as an organizing committee member and as a faculty.
- 2014-2019 **Mechanisms of circuit failure and treatments in patient-derived neurons in autism**
(Morrow, E)
R01 MH105442
Co-Investigator
This proposal involves the study of patient-derived stem cells using induced pluripotent stem cell technology.
- 2015-2019 **Autism-linked endosomal mechanisms in neuronal arborization and connectivity**
(Morrow, E)
R01 MH102418-01A1
Co-Investigator
Human mutations in endosomal NHE6 constitute a newly recognized, monogenic, autism-related disorder. The objective for this research proposal is to elucidate the mechanisms by which NHE6 mutations lead to defects in circuit development, and to test the ability of alkalinizing agents to normalize these mutant phenotypes in mouse in vitro and in vivo.

- 2015-2020 **Suicide Risk Reduction in the Year following Jail Release**
 (Johnson & Weinstock, MPI)
 U01 MH106660
 Co-Investigator
 The goal of this observational study is to recruit and follow a cohort of people following jail release for one year, and identify the incidence and predictors of suicidal behavior in this cohort.
- 2016-2021 **Network for investigation of Delirium across the US**
 (Inouye, PI)
 R24-AG054259
 Co-investigator
 This is a collaborative network to advance scientific research on the causes, mechanisms, outcomes, diagnosis, prevention, and treatment of delirium in older adults. The work of the Measurement and Harmonization Resource Core, which will be led by Dr. Jones and Co-Leader Dr. Dale Needham at Johns Hopkins University, is to establish a repository of delirium measures, and prepare recommendations on which measures should be used for specific circumstances. The goal of this activity is to enhance the quality and consistency of delirium measurement, and enable investigators to compare and share data across studies.
- 2016-2019 **Exploring the role of inflammation in long-term cognitive decline following surgery and delirium**
 (Inouye, PI)
 Alzheimer's Drug Discovery Foundation (ADDF)
 Co-Investigator
 The aims of this project are to develop a predictive model for long-term cognitive decline following delirium, and to assess the correlation of plasma, CSF, and [11C]-PBR28 PET-imaging biomarkers of inflammation preoperatively and at one-month follow-up in a new sample of 35 patients undergoing major orthopedic surgery under spinal anesthesia.

Current, Inactive

- 2014-2019 **Evaluation of the Coping Long Term with Active Suicide Program**
 (Miller, I)
 R01 MH101129
 Co-Investigator
 This project will evaluate an innovative intervention specifically designed to reduce suicidal behavior in a high risk group of suicidal inpatients.
- 2014-2019 **RCT of a tailored walking program to reduce stress among pregnant women**
 (Battle, C)
 R01 NR014540
 Co-Investigator
 The research involves a randomized controlled trial to contrast a prenatal walking program

versus health education control among 152 pregnant women. Outcomes are depressive symptoms and maternal health and functioning, and infant neurobehavioral outcomes.

- 2014-2019 **Life Stressors, Impulsivity, and Adolescent Suicidal Behavior**
(Liu, R)
R01 MH101138
Co-Investigator
This project will examine how life stressors, different neurocognitive/neurobehavioral dimensions of impulsivity and loss-related experiences explain how past suicide attempts increase risk for future recurrences in a multiwave longitudinal study of 150 adolescent in-patients.
- 2015-2020 **Efficacy of a Prenatal Yoga Intervention for Antenatal Depression**
(Battle, C)
R01 HD081868
This study will involve a randomized controlled trial to evaluate a gentle prenatal yoga class compared to a prenatal health education workshop in lowering depressive symptoms among pregnant women with antenatal depression.
- 2016-2022 **Initiating and Maintaining Physical Activity in Depressed Individuals**
(Abrantes & Uebelacker, MPI)
R01-HL127695
Co-Investigator
This proposed intervention study seeks to promote the adoption and maintenance of exercise behavior among persons with depression.
- 2017-2021 **Brain/behavior mechanisms of irritability and cognitive flexibility in children**
(Dickstein, PI)
R01-MH111542
Co-Investigator
The long-term goal of the proposed research is to improve the biological classification and treatment irritability in children. This application seeks to advance what is known about the brain and behavior relationships underlying cognitive flexibility and irritability in children. The research will be accomplished by studying 210 children who present to psychiatric services, enrolling them in a research study, which will involve brain scans (magnetic resonance imaging) and evaluation with psychological tests and measures.
- 2016-2021 **Predicting suicide: a longitudinal analysis of speech patterns in a high risk sample**
(Schatten and Miller, MPI)
R01-MH108610
Co-Investigator
The purpose of this project is to determine the utility of unstructured speech patterns to identify suicide risk derived from experiential measures (i.e., ecological momentary assessment) to predict suicide risk in the six-months following hospital discharge.

UNIVERSITY TEACHING ROLES

- 2003-2006 Clinical Epidemiology (AC701), Harvard Medical School, 8 first year medical students
- 2006-2013 Clinical Epidemiology and Population Health (AC511), Harvard Medical School, 8 first year medical students
- 2006-present Summer Workshop on Latent Variable Modeling in Aging Research. *Every summer since 2006 I have led a 3 day workshop on latent variable modeling. The didactic material is based in aging research, but the international audience includes students, post-docs and faculty from diverse fields (medicine, psychology, sociology, statistics). The workshop focus alternates between measurement models (e.g., factor analysis) and longitudinal data analysis. Workshop materials are freely distributed via the world wide web (see Professional educational materials or reports, in print or other media).*
- 2014 – Present Seminars in methodology in the clinical neurosciences. Quantitative Science Program, Brown University. Eight seminars or workshops are offered:
- QSP-01 Introduction to latent variable modeling
 - QSP-02 Measurement models, Item Response Theory and latent trait models
 - QSP-03 Longitudinal data analysis using latent variables
 - QSP-04 Design of randomized controlled trials in Psychology, Psychiatry, Neurology, and the Clinical Neurosciences
 - QSP-05 Analysis of randomized controlled trials in Psychology, Psychiatry, Neurology, and the Clinical Neurosciences
 - QSP-06 Seminar on advanced topics in controlled trials
 - QSP-07 Laboratory in data analysis using latent variables and structural equations.
 - QSP-08 Seminar on measurement in health research

HOSPITAL TEACHING ROLES

- 2001
- Study Design for Observational and Intervention Research. Geriatrics fellows and gerontology post-docs, HSL/IFAR and BIDMC
- 2003, 2004 Everything You Need to Know about Epidemiology and Biostatistics in 40 Minutes or Less. Geriatrics fellows and gerontology post-docs, HSL/IFAR and BIDMC

PEER REVIEWER FOR MEDICAL JOURNALS

Age & Ageing
Alzheimer's & Dementia
American Journal of Epidemiology
American Journal of Geriatric Psychiatry
Archives of Gerontology and Geriatrics
Brain
Canadian Journal on Aging
Clinical Nutrition
Dementia and Geriatric Cognitive Disorders
Depression and Anxiety
European Journal of Neurology
Health Related Quality of Life
International Psychogeriatrics
Journal of Applied Gerontology
Journal of the American Geriatrics Society
Journal of the American Medical Association
Journal of Alzheimer's Disease
Journal of Bone and Mineral Research
Journal of Epidemiology and Community Health
Journal of General Internal Medicine
Journal of the International Neuropsychological Society
Journals of Gerontology: Medical Sciences
Journals of Gerontology: Social Sciences
Learning and Individual Differences
Medical Care
Neurobiology of Aging
Psychology and Aging
Psychological Assessment
Quality of Life Research
Research on Aging