

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

July 28, 2020

Richard L. Skolasky, Jr., ScD

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

2013-present Associate Professor, Johns Hopkins University School of Medicine, Orthopaedic Surgery
2014-present Associate Professor, Johns Hopkins University School of Medicine, Physical Medicine & Rehabilitation
2004-present Director, Surgical Outcomes Research Center, Johns Hopkins University School of Medicine, Orthopaedic Surgery

2015-present Associate Editor, Quality of Life Research
2011-present Statistical Editor, Cognitive & Behavioral Neurology
2008-present Member, Advisory Board, The Spine Journal
2017-present Member, Board of Directors, North American Spine Society
2020-present Member, Board of Directors, International Society for Quality of Life Research

Personal Data

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Education and Training

Undergraduate

1989-1993 BA, Psychology, Johns Hopkins University School of Arts and Sciences, Baltimore, MD

Graduate

1994-1997 N/A, Epidemiology/ Biostatistics, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
1997-1998 MA, Experimental Psychology, Towson University, Towson, MD

Doctoral

2003-2007 ScD, Health Policy & Management, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
Primary Mentor: Ellen J. MacKenzie, Ph.D.

Professional Experience

Dates	Position	Institution
1993-1998	Research Assistant	Department of Neurology, Johns Hopkins University
1998	Research Associate	Department of Neurology, Johns Hopkins University
1998-2000	Sr. Statistical Programmer	Department of Epidemiology, Johns Hopkins University
2000-2004	Instructor	Department of Neurology, Johns Hopkins University
2004-2012	Assistant Professor	Department of Orthopaedic Surgery, Johns Hopkins University
2004-present	Director	Surgical Outcomes Research Center, Johns Hopkins University
2013-present	Associate Professor	Department of Orthopaedic Surgery, Johns Hopkins University
2014-present	Associate Professor	Department of Physical Medicine & Rehabilitation, Johns Hopkins University

PUBLICATIONS

Original Research [OR]

h-Index, 52 (10,608 citations; 23 first author and 15 last author publications)

1. Dal Pan GJ, **Skolasky RL**, Moore RD. The impact of neurological disease on HIV-related hospitalizations in Maryland, 1991-1992. *Archives of Neurology*. 1997; 54(7):846-52. *Developed aims; Analyzed/Interpreted data; Co-wrote manuscript.*
2. Dal Pan G, Farzadegan H, Selnes OA, Hoover D, Miller E, **Skolasky RL**, Nance-Sproson L, McArthur JC for the Multicenter AIDS Cohort Study (MACS). Sustained cognitive decline in HIV infection: Relationship to CD4+ cell count, plasma viremia, and p24 antigenemia. *Journal of Neurovirology*. 1998; 4(1): 95-9. *Analyzed/Interpreted Data; Co-wrote manuscript.*
3. Bouwman FH, **Skolasky RL**, Hes D, Selnes OA, Glass JD, Nance-Sproson TE, Royal W, Dal Pan G, McArthur JC. Variable progression of HIV-associated dementia. *Neurology* 1998; 50(6): 1814-20. *Analyzed/Interpreted data; Co-wrote manuscript.*
4. Huang SS, **Skolasky RL**, Dal Pan GJ, Royal WR, McArthur JC. Survival Prolongation in HIV seropositive patients with progressive multifocal leukoencephalopathy treated with alpha-interferon: An observational study. *Journal of Neurovirology*. 1998; 4(3): 324-32. *Analyzed/Interpreted Data; Co-wrote manuscript.*
5. **Skolasky RL**, Dal Pan GJ, Olivi A, Lenz F, Abrams RA, McArthur JC. HIV-associated primary CNS lymphoma: Morbidity and utility of brain biopsy. *Journal of Neurological Sciences* 1999; 163(1): 32-8.
6. Sacktor NC, Lyles RH, **Skolasky RL**, Anderson DE, McArthur JC, McFarlane G, Selnes OA, Becker JT, Cohen B, Wesch J, Miller EN. Combination antiretroviral therapy improves psychomotor speed performance in HIV-seropositive homosexual men. Multicenter AIDS Cohort Study (MACS). *Neurology*. 1999; 52(8):1640-7. *Analyzed/Interpreted Data; Co-wrote manuscript.*
7. Sacktor NC, **Skolasky RL**, Lyles RH, Esposito D, Selnes OA, McArthur JC. Improvement in HIV-associated motor slowing after antiretroviral therapy including protease inhibitors. *J Neurovirology*. 2000; 6(1): 84-8. *Analyzed/Interpreted Data; Co-wrote manuscript.*
8. Sacktor NC, Lyles RH, **Skolasky RL**, Kleeberger C, Selnes OA, Miller EN, Becker JT, Cohen B, McArthur JC for the Multicenter AIDS Cohort Study (MACS). HIV-associated neurologic disease incidence changes: Multicenter AIDS Cohort Study, 1990-1998. *Neurology*. 2001; 56(2): 257-60. *Analyzed/Interpreted Data; Co-wrote manuscript.*
9. Sacktor NC, Tarwater PM, **Skolasky RL**, McArthur JC, Selnes OA, Becker J, Cohen B, Miller EN for the Multicenter AIDS Cohort Study (MACS). CSF antiretroviral drug penetrance and the treatment of HIV-associated psychomotor slowing. *Neurology*. 2001; 57(3):542-4. *Analyzed/Interpreted Data; Co-wrote manuscript.*
10. Geschwind MD, **Skolasky RL**, Royal WS, McArthur JC. The relative contributions of HAART and alpha-interferon for therapy of progressive multifocal leukoencephalopathy in AIDS. *Journal of Neurovirology*. 2001; 7(4): 353-7. *Analyzed/Interpreted Data; Co-wrote manuscript.*
11. **Skolasky RL**, Phair J, Detels R, Riddler S, Margolick J, Jacobson LD for the Multicenter AIDS Cohort Study (MACS). Thrush and fever as markers of immune competence in the era of highly active antiretroviral therapy (HAART). *AIDS Research and Human Retroviruses*. 2001; 17(14): 1311-6.
12. Davis HF, **Skolasky RL**, Selnes OA, Burgess DM, McArthur JC. Assessing the severity of HIV-associated dementia: Comparison of Modified HIV Dementia Scale and the Grooved Pegboard. *The AIDS Reader*, 2001; 38:29-31. *Analyzed/Interpreted Data; Co-wrote manuscript.*
13. Dougherty RH, **Skolasky RL**, McArthur JC. Progression of HIV-associated dementia treated with highly active antiretroviral therapy. *The AIDS Reader*, 2001; 12(2):69-74. *Analyzed/Interpreted Data; Co-wrote manuscript.*
14. Smit E, **Skolasky RL**, Dobs AS, Calhoun BC, Visscher BR, Palella FJ, Jacobson LP. Changes in the incidence and predictors of HIV related wasting syndrome: 1987-1999. *American Journal of Epidemiology*. 2002; 156(3): 211-18. *Analyzed/Interpreted Data; Co-wrote manuscript.*
15. Crawford TO, **Skolasky RL**. The relationship of SMN to amyotrophic lateral sclerosis. *Ann Neurol* 2002;52(6):857-858; author reply, 858-861.
16. Thio CL, Seaberg EC, **Skolasky RL**, Phair J, Visscher B, Munoz A, Thomas DL Multicenter AIDS Cohort Study. HIV-1, hepatitis B virus, and risk of liver-related mortality in the Multicenter Cohort Study (MACS). *Lancet*. 2002; 360(9349):1921-6.
17. Chaudhry V, Corse A, **Skolasky RL**. Surface electromyographic recording of volitional activity: A technique to detect partial motor conduction block. *Muscle and Nerve*. 2003; 27(5): 590-4. *Analyzed/Interpreted Data; Co-wrote manuscript.*
18. Farinpour R, Miller EN, Satz P, Selnes OA, Cohen BA, Becker JT, **Skolasky RL Jr**, Visscher BR.. Psychosocial risk factors of HIV morbidity and mortality: findings from the Multicenter AIDS Cohort Study (MACS). *J Clin Exp Neuropsychol* 2003;25(5):654-70. *Analyzed/Interpreted Data; Co-wrote manuscript.*
19. Kwiterovich PO, Jr., Vining EP, Pyzik P, **Skolasky RL**, Freeman JM. Effect of a high-fat ketogenic diet on plasma levels of lipids, lipoproteins, and apolipoproteins in children. *JAMA* 2003; 290(7):912-20. *Analyzed/Interpreted Data.*
20. Sacktor N, **Skolasky RL**, Tarwater PM, McArthur JC, Selnes OA, Becker J, Cohen B, Visscher B, Miller EN; Multicenter AIDS Cohort Study (MACS).. Response to systemic HIV viral load suppression correlates with psychomotor speed performance. *Neurology*. 2003;61(4):567-9. *Analyzed/Interpreted Data; Co-wrote manuscript.*

21. Towfighi A, **Skolasky RL**, McArthur JC. CSF soluble Fas correlates with the severity of HIV-associated dementia. *Neurology*. 2004; 62(4): 654-6. *Analyzed/Interpreted Data; Co-wrote manuscript.*
22. Monsul NT, Geisendorfer AR, Han PJ, Banik R, Pease ME, **Skolasky RL**, Hoffman PN. Intraocular injection of dibutyryl cyclic AMP promotes axon regeneration in rat optic nerve. *Experimental Neurology*. 2004; 186(2):124-33. *Analyzed/Interpreted Data.*
23. Pardo CA, Vining EPG, Guo L, **Skolasky RL**, Carson BS, Freeman JM. The pathology of Rasmussen's Syndrome: Stages of cortical involvement and neuropathological studies in 45 hemispherectomies. *Epilepsia*. 2004; 45(5):516-26. *Analyzed/Interpreted Data.*
24. Zhou L, McConville J, Chaudhry V, Adams RN, **Skolasky RL**, Vincent A, Drachman DB. Clinical comparison of muscle-specific tyrosine kinase (MuSK) antibody-positive and -negative myasthenic patients. *Muscle & Nerve*. 2004; 30(1): 55-60. *Analyzed/Interpreted Data; Co-wrote manuscript.*
25. Sacktor NS, **Skolasky RL**, Ernst T, Mao X, Selnes OA, Pomper MG, Chang L, Zhong K, Shungu DC, Marder K, Shibata D, Schifitto G, Bobo L, Barker PB. A multicenter study of two magnetic resonance spectroscopy techniques in individuals with HIV dementia. *Journal of Magnetic Resonance Imaging: MRI*. 2005; 21(4):325-33. *Analyzed/Interpreted Data; Co-wrote manuscript.*
26. Pletnikova O, Horter A, **Skolasky RL**, Troncoso J. A β deposition enhance cortical synuclein lesions in Parkinson's disease. *Neurobiology of Aging*. 2005; 26(8): 1183-92. *Analyzed/Interpreted Data.*
27. Restrepo L, Jacobs MA, Barker PB, Beauchamp NJ, **Skolasky RL**, Keswani SC, Wityk RJ. Etiology of perfusion-diffusion MRI mismatch patterns. *J Neuroimaging*. 2005; 15(3):254-60. *Analyzed/Interpreted Data.*
28. Venkataramana AB, **Skolasky RL**, Creighton JA, McArthur JC. Diagnostic utility of the subjective peripheral neuropathy screen for HIV-infected persons with peripheral sensory polyneuropathy. *AIDS Reader*. 2005; 15(7): 341-4, 348-9, 354. *Analyzed/Interpreted Data; Co-wrote manuscript.*
29. Sacktor NC, Wong M, Nakasujja N, **Skolasky RL**, Selnes OA, Musisi S, Robertson K, McArthur JC, Ronald A, Katabira E. The International HIV Dementia Scale: A new rapid screening test for HIV dementia. *AIDS*. 2005; 19(13): 1367-74. *Analyzed/Interpreted Data; Co-wrote manuscript.*
30. Andrade AS, McGruder HF, Wu AW, Celano SA, **Skolasky RL**, Selnes OA, Huang JC, McArthur JC. A programmable prompting device improved adherence to highly active antiretroviral therapy in HIV-infected patients with memory impairment. *Clin Infect Dis*. 2005; 14(6) :875-82. *Developed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*
31. Comi AM, Weisz CJC, Hight BH, **Skolasky RL**, Pardo CA, Hess EJ. Sturge-Weber syndrome: Altered blood vessel fibronectin expression and morphology. *Journal of Child Neurology*. 2005; 20(7): 572-7. *Analyzed/Interpreted Data; Co-wrote manuscript.*
32. Shaya FT, Samant N, **Skolasky RL**, Saunders E. Modeling risk of gastrointestinal events among Medicare NSAID users using propensity scores. *Expert Review of Pharmacoeconomics & Outcomes Research*. 2005; 5(5): 625-32. *Analyzed/Interpreted Data; Co-wrote manuscript.*
33. Riley LH, III, **Skolasky RL**, Albert TJ, Vaccaro AR, Heller JG: Dysphagia after anterior cervical decompression and fusion: prevalence and risk factors from a longitudinal cohort study. *Spine*. 2005; 30(22): 2564-9. *Obtained funding; Developed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*
34. Cherry CL, **Skolasky RL**, Lal L, Creighton J, Hauer P, Raman SP, Moore R, Carter K, Thomas D, Ebenezer GJ, Wesselingh SL, McArthur JC. Antiretroviral use and other risks for HIV-associated neuropathies in an international cohort. *Neurology*. 2006; 66(6): 867-73. *Analyzed/Interpreted Data; Co-wrote manuscript.*
35. Ain MC, Shirley ED, Pirouzmanesh A, **Skolasky RL**, Leet AI: Genu varum in achondroplasia. *J Pediatr Orthop*. 2006; 26(3): 375-379. *Analyzed/Interpreted Data.*
36. Shaya FT, El Khoury AC, Mullins D, Du D, **Skolasky RL**, Fatodu H, Garber H, Wier MR. Drug therapy persistence and stroke recurrence. *Am J Managed Care* 2006; 12(6): 313-9. *Analyzed/Interpreted Data; Co-wrote manuscript.*
37. Crawford TO, **Skolasky RL**, Fernandez R, Rosquist KJ, Lederman HM. Survival probability in ataxia telangiectasia. *Arch Dis Child* 2006; 91(7):610-1. *Analyzed/Interpreted Data; Co-wrote manuscript.*
38. **Skolasky RL**, Maggard AM, Hilibrand AS, Northrup BE, Ullrich CG, Albert TJ, Coe JD, Riley LH III: Agreement between surgeons and an independent panel with respect to surgical site fusion after single-level anterior cervical spine surgery: a prospective, multicenter study. *Spine*. 2006; 31(15):E503-E506.
39. Sacktor NC, Nakasujja N, **Skolasky RL**, Robertson K, Wong M, Musisi S, Ronald A, Katabira E. Antiretroviral therapy improves cognition in HIV+ individuals in sub-Saharan Africa. *Neurology*. 2006 67(2): 311-4. *Analyzed/Interpreted Data; Co-wrote manuscript.*
40. Wojna V, **Skolasky RL**, Hechavarria R, Mayo R, Selnes OA, McArthur JC, Melendez L, Maldonado E, Zorrilla CD, Garcia H, Kraiselburd E, Nath A. Prevalence of HIV-associated cognitive impairment in a group of Hispanic women at risk for neurological impairment. *Journal of Neurovirology*. 2006; 12(5): 356-64. *Analyzed/Interpreted Data; Co-wrote manuscript.*
41. Wu AW, Snyder CF, Andrade AS, Davis HF, Celano SA, **Skolasky RL**, Selnes OA, Letzt AM, McArthur JC. A randomized trial of the impact of a programmable medication reminder device on quality of life in HIV/AIDS patients. *AIDS Patient Care STDS*. 2006; 20(11):773-81. *Developed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*

42. Wong MH, Robertson K, Nakasujja N, **Skolasky RL**, Musisi S, Katabira E, McArthur JC, Ronald A, Sacktor NC. Frequency of and risk factors for HIV-associated dementia in an HIV clinic in sub-Saharan Africa. *Neurology*. 2007; 68(5): 350-5. *Analyzed/Interpreted Data; Co-wrote manuscript.*
43. **Skolasky RL**, Riley LH III, Albert TJ. Psychometric properties of the Cervical Spine Outcomes Questionnaire and its relationship to standard assessment tools used in spine research. *The Spine Journal*. 2007; 7(2):174-179.
44. Sacktor NC, **Skolasky RL**, Selnes OA, Watters M, Poff P, Shiramizu B, Shikuma C, Valcour V. Neuropsychological test profile differences among young and old HIV+ individuals. *J Neurovirology*. 2007; 13(3): 203-9. *Analyzed/Interpreted Data; Co-wrote manuscript.*
45. Wachtman LM, **Skolasky RL**, Tarwater PM, Esposito D, Schifitto G, Marder K, McDermott MP, Cohen BA, Nath A, Sacktor N, Epstein LG, Mankowski JL, McArthur JC. Platelet decline: an avenue for investigation into the pathogenesis of human immunodeficiency virus associated dementia. *Arch Neurol*. 2007; 64(9): 1264-72. *Analyzed/Interpreted Data; Co-wrote manuscript.*
46. Nieves DM, Plaud M, Wojna V, **Skolasky R**, Melendez LM. Characterization of peripheral blood human immunodeficiency virus isolates from Hispanic women with cognitive impairment. *J Neurovirology*. 2007; 13(4): 315-27. *Analyzed/Interpreted Data; Co-wrote manuscript.*
47. Wojna V, Robles L, **Skolasky RL**, Mayo R, Selnes OA, de la Torre T, Maldonado E, Nath A, Melendez L, Lasalde-Dominicci J. Associations between cigarette smoking with viral immune profile and cognitive function in human immunodeficiency virus seropositive women. *J Neurovirology*. 2007; 13(6): 561-8. *Developed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*
48. Wojna V, **Skolasky RL**, McArthur JC, Maldonado E, Hechavarría R, Mayo R, Selnes O, Ginebra T, de la Torre T, Garcia H, Kraiselburd E, Melendez-Guerrero LM, Zorrilla CD, Nath A. Spanish validation of the HIV dementia scale. *AIDS Patient Care STDS*. 2007; 21(12): 930-41. *Developed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*
49. **Skolasky RL**, Albert TJ, Vaccaro AR, Riley LH,III. Patient satisfaction in the cervical spine research society outcomes study: Relationship to improved clinical outcome. *Spine J*. 2009; 9(3): 232-9.
50. Wierks C, **Skolasky RL**, Ji JH, McFarland EG. Reverse total shoulder replacement: intraoperative and early postoperative complications. *Clin Orthop Relat Res*. 2009; 467(1): 225-34. *Analyzed/Interpreted Data; Co-wrote manuscript.*
51. **Skolasky RL**, Mackenzie EJ, Wegener ST, Riley LH III: Patient activation and adherence to physical therapy in persons undergoing spine surgery. *Spine*. 2008; 33(21): E784-91.
52. Velazquez I, Plaud-Valentin M, Wojna V, **Skolasky R**, Melendez LM. Antioxidant enzyme dysfunction in monocytes and CSF of Hispanic women with HIV-associated cognitive impairment. *J Neuroimmunology*. 2009; 206(1-2):106-11. *Analyzed/Interpreted Data; Co-wrote manuscript.*
53. Sacktor N, Nakasujja N, **Skolasky RL**, Robertson K, Musisi S, Ronald A, Katabira E, Clifford DB. Benefits and risks of stavudine therapy for HIV-associated neurologic complications in Uganda. *Neurology*. 2009; 72(2):165-70. *Analyzed/Interpreted Data; Co-wrote manuscript.*
54. Pull ter Gunne AE, **Skolasky RL**, Cohen DB. Fracture characteristics predict patient mortality after blunt force cervical trauma. *European Journal of Emergency Medicine*. 2010;17(2):107-9; discussion 126-7. *Supervised AF Pull ter Gunne; Developed aims; Co-wrote manuscript.*
55. Farmer KW, Brinkley MF, **Skolasky RL**, Sponseller PD, Ain MC. Lumbar fusion in achondroplasia. Does fusion to the sacrum affect function? *J Pediatr Orthop*. 2009; 29(5): 476-80. *Developed aims; Co-wrote manuscript.*
56. Sacktor N, Nakasujja N, **Skolasky RL**, Robertson K, Musisi S, Ronald A, Katabira E, Clifford DB. HIV subtype D is associated with dementia compared to subtype A in immunosuppressed individuals at risk for cognitive impairment in Kampala, Uganda. *Clinical Infectious Diseases*. 2009; 49(5): 780-6. *Analyzed/Interpreted Data; Co-wrote manuscript.*
57. Pichard CP, Robinson RE, **Skolasky RL**, Fedarko NS, Leet AI. Surgical blood loss during femoral rodding in children with osteogenesis imperfecta. *J Child Orthop*. 2009; 3(4): 301-5. *Analyzed/Interpreted Data; Co-wrote manuscript.*
58. Alesh H, Riley LH III, **Skolasky RL**. Race, insurance status, and geography as predictors of anterior cervical spine surgery rates and in-hospital mortality: an examination of U.S. trends from 1992-2005. *Spine*. 2009; 34(18): 1956-62.
59. Lai C-H, Melli G, Chang Y-J, **Skolasky RL**, Corse AM, Wagner KR, Cornblath DR. Open muscle biopsy in suspected myopathy: diagnostic yield and clinical utility. *European Journal of Neurology*. 2010;17(1):136-42. *Analyzed/Interpreted Data; Co-wrote manuscript.*
60. Pull ter Gunne AE, **Skolasky RL**, Ross H, van Laarhoven CJ, Cohen DB. Influence of perioperative resuscitation status on postoperative spine surgery complications. *Spine Journal*. 2010;10(2). 2010 Feb; 10(2):129-35. Epub 2009 Nov 14. *Supervised AF Pull ter Gunne; Developed aims; Co-wrote manuscript; Study supported by data collected at Surgical Outcomes Research Center.*
61. **Skolasky RL**, Mackenzie EJ, Wegener ST, Riley LH III. Psychometric properties of the Patient Activation Measure in persons undergoing spine surgery. *Quality of Life Research*. 2009 Dec; 18(10):1357-66. Epub 2009 Nov 15.
62. Garcia-Crespo K, Cadilla C, **Skolasky R**, Melendez LM. Restricted HIV-1 replications in placental macrophages is caused by inefficient viral transcription. *Journal of Leukocyte Biology*. 2010 Apr; 87(4):633-6. Epub 2009 Dec 30. *Analyzed/Interpreted Data; Co-wrote manuscript.*

63. Pull ter Gunne AF, Mohamed AS, **Skolasky RL**, van Laarhoven CJHM, Cohen DB. The presentation, incidence, etiology, and treatment of surgical site infections after surgery. *Spine*. 2010; 35(13): 1323-8. *Supervised AF Pull ter Gunne; Developed aims; Co-wrote manuscript; Study supported by data collected at Surgical Outcomes Research Center.*
64. Nakasujja N, **Skolasky RL**, Musisi S, Allebeck P, Robertson K, Ronald A, Katabira E, Clifford DB, Sacktor NC. Depression symptoms and cognitive function among individuals with advanced HIV infection initiating HAART in Uganda. *BMC Psychiatry*. 2010; 10:44 [online publication only]. *Analyzed/Interpreted Data; Co-wrote manuscript.*
65. Sponseller PD, Erkula G, **Skolasky RL**, Venuti KD, Dietz HC, III. Improving clinical recognition of Marfan syndrome. *J Bone Joint Surg Am*. 2010; 92(9): 1868-75. *Analyzed/Interpreted Data; Co-wrote manuscript.*
66. Mohamed MA, Barker PB, **Skolasky RL**, Selnes OA, Moxley RT, Pomper MG, Sacktor NC. Brain metabolism and cognitive impairment in HIV infection: a 3-T magnetic resonance imaging study. *Magn Reson Imaging*. 2010 Nov; 28(9):1251-7. Epub 2010 Aug 4. *Designed aims; Analyzed/Interpreted Data; Co-wrote manuscript.*
67. Sacktor NC, **Skolasky RL**, Cox C, Selnes OA, Becker J, Cohen B, Martin-Thormeyer E, Miller E, for the Multicenter AIDS Cohort Study (MACS). Longitudinal changes in psychomotor speed test performance among HIV+ and HIV- individuals: The impact of age and serostatus. *J Neurovirol*. 2010; 16(5):335-41. *Analyzed/Interpreted Data; Co-wrote manuscript.*
68. Carlisle ES, Ting BL, Abdullah MA, **Skolasky RL**, Schkrohowsky JG, Yost MT, Rigamonti D, Ain MC. Laminectomy in patients with achondroplasia: the impact of time to surgery on long-term function. *Spine*. 2011; May 15; 36(11):886-92. *Analyzed/Interpreted Data; Co-wrote manuscript.*
69. Zimmerman RM, Mohamed AS, **Skolasky RL**, Robinson MD, Kebaish KM. Functional outcomes and complications after primary spinal surgery for scoliosis in adults aged 40 years or older: a prospective study with minimum two-year follow-up. *Spine*. 2010; 35(20): 1861-6. *Designed aims; Obtained/Analyzed/Interpreted Data; Co-wrote manuscript; Study supported by data collected at Surgical Outcomes Research Center.*
70. Ain MC, Abdullah MA, Ting BL, **Skolasky RL**, Carlisle ES, Schkrohowsky JG, Rigamonti D. Progression of low back and lower extremity pain in a cohort of patients with achondroplasia. *J Neurosurg Spine*. 2010; 13(3): 335-40. *Analyzed/Interpreted Data; Co-wrote manuscript.*
71. Gandhi NS, Moxley RT, Creighton J, Vornbrock-Rossa H, **Skolasky RL**, Selnes OA, McArthur J, Sacktor N. A comparison of scales to evaluate the progression of HIV associated neurocognitive disorder. *HIV Therapy*. 2010; 4(3): 371-9. *Analyzed/Interpreted Data; Co-wrote manuscript.*
72. Kebaish KM, Neubauer PR, Voros GD, Khoshnevisan M, **Skolasky RL**. Scoliosis in adults aged 40 years and older: prevalence and relationship to age, race, and gender. *Spine*. 2011 Apr 20; 36(9):731-6. *Designed aims; Obtained/Analyzed/Interpreted Data; Co-wrote manuscript; Study supported by data collected at Surgical Outcomes Research Center.*
73. **Skolasky RL**, Green AF, Scharfstein D, Boulton C, Reider L, Wegener ST. Psychometric properties of the Patient Activation Measure among multimorbid older adults. *Health Services Research*. 2011 Apr; 46(2):457-78.
74. Kraft-Terry S, Gerena Y, Wojna V, Plaud-Valentin M, Rodriguez Y, Ciborowski P, Mayo R **Skolasky R**, Gendelman HE, Melendez LM. Proteomic analyses of monocytes obtained from Hispanic women with HIV-associated dementia show depressed antioxidants. *Journal of Proteomics Clinical Applications*. 2010 Sep; 4(8-9):706-14. *Analyzed/Interpreted Data; Co-wrote manuscript.*
75. Archer KR, Wegener ST, Seebach C, Song Y, **Skolasky RL**, Thornton C, Khanna AJ, Riley LH III. The effect of fear-avoidance beliefs on pain and disability after surgery for lumbar and cervical degenerative conditions. *Spine*. 2011 Sep 1;35(19):1554-62. *Obtained Data; Co-wrote manuscript; Study supported by data collected at Surgical Outcomes Research Center.*
76. Farjoodi P, **Skolasky RL**, Riley LH, III. The effects of hospital and surgeon volume on postoperative complications after lumbar spine surgery. *Spine (Phila Pa 1976)*. 2011;36(24):2069-2075. Epub 2011 Feb 18. *Supervised P Farjoodi; Obtained/Interpreted Data; Co-wrote manuscript.*
77. **Skolasky RL**, Carreon LY, Anderson PA, Albert TJ, Riley LH, III. Predicting health utility scores from the Cervical Spine Outcomes Questionnaire in a multicenter nationwide study of anterior cervical spine surgery. *Spine*. 2011 Dec 1;36(25):2211-6. Epub 2011 Feb 18.
78. Gandhi NS, **Skolasky RL**, Peters KB, Moxley RT, Creighton J, Vornbrock-Roose H, Selnes OA, McArthur JC, Sacktor NC. Comparing functional outcomes in HIV dementia. *J Neurovirology*. 2011 Apr;17(2):159-65. Epub 2011 March 25. *Analyzed/Interpreted Data; Co-wrote manuscript.*
79. **Skolasky RL**, Albert TJ, Maggard AM, Riley LH III. Minimally clinically important differences in the Cervical Spine Outcomes Questionnaire: results from a national multicenter study of anterior cervical decompression and arthrodesis. *JBJS*. 2011 Jul 20;93(14):1294-300.
80. Harrison DM, Newsome SD, **Skolasky RL**, McArthur JC, Nath A. Immune reconstitution is not a prognostic factor in progressive multifocal leukoencephalopathy. *J Neuroimmunol*. 2011 Sep 15;238(1-2):81-6. Epub 2011 Aug 12. *Analyzed/Interpreted Data; Co-wrote manuscript.*
81. **Skolasky RL**, Mackenzie EJ, Wegener ST, Riley LH III. Patient activation and functional recovery in persons undergoing spine surgery. *Orthopedics*. 2011 Nov;34(11):888.

82. **Skolasky RL**, Mackenzie EJ, Wegener ST, Riley LH III. Patient activation and functional recovery in persons undergoing spine surgery. *JBJS*. 2011 Sep 21; 93(18):1665-71.
83. Brown A, Sacktor N, Marder K, Cohen B, Schifitto G, **Skolasky RL**, Creighton J, Guo L, McArthur JC. CCL3L1 gene copy number in individuals with and without HIV-associated neurocognitive disorder. *Curr Biomark Find*. 2012 Jan 1;2012(2):1-6. *Analyzed/Interpreted Data; Co-wrote manuscript.*
84. **Jain A**, Stein BE, **Skolasky RL**, Jones LC, Hungerford MW. Total joint arthroplasty in patients with rheumatoid arthritis: a United States experience from 1992 through 2005. *J Arthroplasty*. 2012 Jun;27(6):881-8. Epub 13 Feb (DOI: 10.1016/j.arth.2011.12.027). *Supervised A Jain; Obtained Data; Co-wrote manuscript.*
85. **Nesterenko SO**, Riley LH, III, **Skolasky RL**. Anterior cervical discectomy and fusion versus cervical disc arthroplasty: current state and trends in treatment for cervical disc pathology. *Spine (Phila Pa 1976)*. 2012 Aug 1;37(17):1470-4.
86. Gerena Y, **Skolasky RL**, Toro-Nieves D, Bofill A, Mayo R, Nath A, Wojna V. Soluble and Cell-associated Insulin Receptor Dysfunction Correlates with Severity of HAND in HIV-infected Women. *PLoS ONE* 2012;7(5):e37358. Epub 2012 May 22. *Analyzed/Interpreted Data; Co-wrote manuscript.*
87. Rodriguez-Franco EJ, Cantres-Rosario YM, Plaud-Valentin M, Romeu R, Rodriguez Y, **Skolasky RL**, Melendez V, Cadilla CL, Melendez L. Dysregulation of macrophage-secreted cathepsin B contributes to HIV-1-linked neuronal apoptosis. *PLoS ONE* 2012;7(5):e36571. Epub 2012 May 31. *Analyzed/Interpreted Data; Co-wrote manuscript.*
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Review Articles [RA]

1. **Skolasky RL**. The evolution of our measurement of patient treatment expectations. *Spine J*. 2016 Oct;16(10):1175-7.
2. **Skolasky RL**. Considerations in writing about single-case experimental design studies. *Cogn Beh Neurol*. 2016 Dec;29(4):169-73.

Book Chapters/Monographs [BC]

1. **Skolasky RL**, Riley LH (2012). Cost Utility Analysis: Use of average cost per Quality-Adjusted Life Year versus the Incremental Cost Effectiveness Ratio. In: Rihn JA, Vaccaro AR, Albert TJ (Ed.). *Defining the Value of Spine Care*. Jaypee Brothers Medical Publishing, Ltd, London UK, pp 129-35.
2. **Skolasky RL** (2014). Patient Activation: Utility in Elective Lumbar Spine Surgery. In: Michalos AC (Ed.). *Encyclopedia of Quality of Life and Well-Being Research*. Springer, Dordrecht, Netherlands: Springer, pp 4650-5.

Media Releases or Interviews [MR]

1. HIV Dementia Alarming High in Africa, January 29, 2007.
2. Will Patients Stick to Physical Therapy? Questionnaire Can Help Doctors Predict, October 1, 2008.
3. Questionnaire Can Help Doctors Predict Which Patients will Commit to Physical Therapy, October 9, 2008.
4. Marfan, A “Look-Alike” Disorder, or Neither?, August 5, 2010.
5. Vertebral Augmentation for Spinal Fractures Offers Greater Patient Surgical and Overall Cost Savings, October 17, 2013.
6. Survey Shows Spine Surgeons Need to Screen More Patients for Anxiety and Depression, April 1, 2014.
7. No Anti-Clotting Treatment Needed for Most Kids Undergoing Spine Surgeries, July 15, 2014.
8. More Patient Input, Better Spine Outcomes, October 1, 2014
9. Study: Phone Counseling Reduces Pain, Disability after Back Surgery, March 31, 2015.
10. Antidepressant May Improve Cognitive Symptoms in People with HIV, February 25, 2016.
11. Aiming to Predict Recovery and Tailor Support for Spine Surgery Patients, April 1, 2019.
12. Patient-Related Factors Predict Satisfaction with Spine Surgery, August 1, 2019.
13. Identifying and Managing Physician Burnout in Today’s Healthcare Environment, NASS Podcast, April 14, 2020.

FUNDING

Extramural Funding

Research Extramural Funding

Current

- 09/01/2018 – 03/31/2024 *Optimizing treatment for patients with chronic low back pain*
 Patient Centered Outcomes Research Institute (PCORI)
 \$9,453,662
 PI: Fritz
 Role: co-I/site PI, 40% effort
- 06/16/2006 – 05/31/2021 *Center for novel therapeutics for HIV-associated cognitive disorders*
 NIMH 1P30MH75673-01
 (this grant is renewable indefinitely, subject to annual progress)
 \$1,013,374 (Annual Direct)
 PI: McArthur
 Role: co-I, 15% effort

Pending

- 04/01/2021 – 03/31/2026 *Skeleton and joint degeneration in aging*
 NIA P01
 \$11,000,000
 PI: Cao
 Role: Core co-PI, 35% effort
- 04/01/2021 – 03/31/2026 *SpineCloud: Image analytics and predictive modeling for data-driven spine surgery*
 NBIB U01
 \$512,521 (Annual Direct)
 PI: Siewerdsen
 Role: co-I, 20% effort
- 07/01/2021 – 06/30/2025 *Supporting Patient Activation for Self-Management of Symptomatic Spine Osteoarthritis with a Targeted Intervention Based on Key Influencing Characteristics*
 NINR R01
 \$2,488,764
 PI: Skolasky and Taylor

Role: Co-PI, 25% effort

Previous

03/01/2013 – 05/30/2019

Comparative effectiveness of postoperative management of degenerative spinal conditions

Patient Centered Outcomes Research Institute (PCORI)

\$1,867,629

PI: Archer

Role: co-I, 15% effort

09/30/2009- 08/29/2014

Functional recovery in lumbar spine surgery

AHQ 1R01HS017790-01A1

\$246,538 (Annual Direct)

PI: Skolasky

Role: PI, 40% effort

06/01/2008 – 12/31/2015

Rate of proximal junctional failure of long posterior spinal instrumented fusion using open versus minimally invasive surgery at the proximal segment

DePuy Spine, Inc.

\$68,665 (Annual Direct)

PI: Kebaish

Role: co-I, 20% effort

06/01/2008 – 12/31/2012

Development of a patient-centered cervical disc arthroplasty outcome tool

DePuy Spine, Inc.

\$51,871 (Annual Direct)

PI: Skolasky

Role: PI, 10% effort

01/01/2011 – 12/31/2012

Current use of disk arthroplasty and discectomy-fusion in treatment of cervical disk pathology

Cervical Spine Research Society

\$15,000 (Annual Direct)

PI: Nesterenko

Role: co-I/resident mentor, 5% effort

01/01/2005 – 12/31/2009

Oxidative stress markers in HIV-dementia

NINDS 1R01MH071150

PI: Sacktor

Role: co-I, 10% effort

07/01/2007 – 06/30/2010

Translational research in neuro-AIDS and mental health

NIMH 2R25MH080661-04

PI: Nath

Role: co-I, 10% effort

06/01/2006 – 09/30/2007

Functional recovery in spinal stenosis: Understanding patient activation

AHRQ 1R03HS016106-01A1

PI: Skolasky

Role: PI, 20% effort

07/01/2004 – 06/30/2009

Pathophysiology of HIV dementia in women

NINDS 5S11NS046278

PI: Wojna

Role: co-I, 10% effort

07/01/2004 – 06/30/2007

Predicting progression of neuro-AIDS

NINDS 1R01NS049465-01

PI: McArthur

Role: co-I, 10% effort

07/01/1998 – 06/30/2001

Research Center for AIDS Dementia
NINDS 3P01NS026643-10S1
PI: McArthur
Role: staff, 100% effort

Clinical Extramural Funding

Current

10/18/2018 – present

Effect of abaloparatide on lumbar disc degeneration
Medenos, Inc
PI: Kebaish
Role: co-I, 5% effort

07/11/2018 – present

Multi-center prospective evaluation of complex adult spinal deformity surgery
ISSG
PI: Kebaish
Role: co-I, 5% effort

02/06/2018 – present

An assessment of P-15L bone graft in transforaminal lumbar interbody fusion
Cerapedics, Inc.
PI: Neuman
Role: Co-I, 5% effort

04/24/2012 – present

Prospective radiographic and clinical evaluation of surgical treatment for cervical deformity
International Spine Study Group
PI: Kebaish
Role: co-I, 5% effort

04/08/2011 - present

Multi-center prospective evaluation of operative versus non-operative treatment for adult spinal deformity: Differentiating clinical and radiographic features and evaluation of treatment outcomes
International Spine Study Group
PI: Kebaish
Role: co-I, 5% effort

Previous

03/10/2017 – 09/30/2019

A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Staphylococcus Aureus 4-Antigen Vaccine (SA4Ag) in Adults Undergoing Elective Open Posterior Spinal Fusion Procedures with Multilevel Instrumentation
Pfizer, Inc.
PI: Kebaish
Role: Co-I, 10% effort

08/08/2012 – 12/13/2013

INSITE: Investigation of sacroiliac fusion treatment
SI-Bone, Inc.
PI: Cohen
Role: co-I, 10% effort

09/10/2009 – 09/14/2013

CSSG Multi center retrospective and observational data registry for clinical and radiographic outcomes of complex spine surgeries
K2M, Inc.
PI: Kebaish
Role: co-I, 10% effort

02/21/2008 – 08/06/2012

A Multi-Center, Prospective, Randomized Controlled Trial Comparing Cervical Arthroplasty to Anterior Cervical Discectomy and Fusion (ACDF) for the Treatment of Cervical Degenerative Disc Disease (DDD)

DePuy Spine, Inc.
PI: Riley
Role: co-I, 10% effort

01/20/2007 – 06/30/2012 *Prophylactic vertebroplasty in long spinal fusion for prevention of proximal junctional kyphosis*
DePuy Spine, Inc.
PI: Kebaish
Role: co-I, 10% effort

Educational Extramural Funding

Current

2015 – present *Training in Orthopaedic Team Science*
NIAMS
\$205,098 (Annual Direct)
PI: Clemens
Role: Program Faculty, 10% effort

2007 – 2011 *Diversity related NeuroAIDS and mental health research*
NINDS
\$238,376 (Annual Direct)
PI: Nath
Role: co-I, 10% effort

Other Extramural Funding, including Philanthropy

Previous

11/01/2014 – 10/31/2016 *Spine Outcomes Patient Focus Groups*
AT&T Foundation
\$25,000
PI: Skolasky

Intramural Funding

Research Intramural Funding

Previous

09/01/2010 – 05/31/2011 *Estimating the use of pre-surgical psychological screening*
Johns Hopkins University, Office of the Provost
\$5,000
Role: Mentor to undergraduate student

EDUCATIONAL ACTIVITIES

Educational Focus

I have focused my interdisciplinary training and access to develop life-long learning among those individuals (surgical residents and post-doctoral fellows, and graduate, undergraduate, and high school students) that I mentor. To accomplish this goal, I have developed the Surgical Outcomes Research Center to serve as a virtual center allowing access to educational and research information and professional connections to support interest and gain skills in public health investigation and clinical orthopaedics. Working with my departmental peers, I have mentored dozens of surgical residents to focus on quantitative and qualitative research methods, analysis, and interpretation. Partnering with peers in the Bloomberg School of Public Health, I have mentored post-doctoral fellows and graduate students by applying the skills that they have learned in their training to real world problems. Partnering with the Office of Medical Tutorials at the undergraduate campus, I have successfully offered a medical tutorial in clinical orthopaedic spine since 2005 – mentoring more than 100 undergraduate students. Finally, partnering with the Johns Hopkins Summer Job Program, I have been a mentor for high school students seeking broader exposure to professional and health-related settings.

Teaching

Classroom Instruction

2003 – 2012 Specialized Neuroscience Project, Program Faculty, University of Puerto Rico
2004 – present Orthopaedic Surgery Residents' In-Service Training Program, Program Faculty, Johns Hopkins University

2005 – present Medical Tutorial in Orthopaedic Surgery Clinical Research, Program Director, Johns Hopkins University
2017 – present Johns Hopkins Summer Jobs Program, Program Faculty, Johns Hopkins University

CME Instruction

JHMI/Regional

2010 First Annual Johns Hopkins Patient Safety Summit, Baltimore, MD
2014 Blaustein Pain Conference, Baltimore, MD
2015 Orthopaedic Grand Rounds, Anne Arundel Medical Center, Annapolis, MD
2015 American Medical Society for Sports Medicine Fellows Conference, Columbia, MD

National

2011 Grand Rounds, Department of Orthopaedic Surgery, University of Puerto Rico, San Juan, PR
2012 American Academy of Orthopaedic Surgery Board Preparation and Review Course, Chicago, IL
2016 Grand Rounds, Department of Physical Medicine & Rehabilitation, University of Pittsburgh, Pittsburgh, PA
2016 Grand Rounds, Department of Orthopaedic Surgery, University of Utah, Salt Lake City, UT
2016 Grand Rounds, Department of Orthopaedic Surgery, Tufts University, Boston, MA
2016 Grand Rounds, Department of Orthopaedic Surgery, Western Michigan University, Kalamazoo, MI

International

2016 Grand Rounds, Department of Orthopaedics, University of Copenhagen, Copenhagen, DK
2016 Grand Rounds, Department of Orthopaedics, University of Aarhus, Aarhus, DK

Workshops/Seminars

JHMI/Regional

2004- *Didactic Resident Research Seminar*, Department of Orthopaedic Surgery, Johns Hopkins University School of Medicine

National

2009 Council for Value in Spinal Care Meeting, Philadelphia, PA

Mentoring

Pre-Doctoral Advisees/Mentees

2004-2005 Zubin Daruwalla, BS, Medical Student, Surgical Outcomes Research Center
• 2005: Contributed Talk, North American Spine Society
2005-2007 Gabor Voros, BS, Medical Student, Surgical Outcomes Research Center
• 2007: Contributed Talk, North American Spine Society Annual Meeting
• 2007: Contributed Poster, North American Spine Society Annual Meeting
2007-2008 Ryan Zimmerman, BS, Medical Student, Surgical Outcomes Research Center
• 2008: Contributed Talk, North American Spine Society Annual Meeting
2007-2008 Albert Pull Ter Gunne, BS, Medical Student, Surgical Outcomes Research Center
• Publications: OR 54, 60, 63
• 2008: Contributed Talk, North American Spine Society Annual Meeting
2008-2009 Hasan Alish, BS, Medical Student, Surgical Outcomes Research Center
• Publications: OR 58, 114
• 2009: Contributed Talk, North American Spine Society Annual Meeting
2010-2011 Arthur Young, Undergraduate Student, Surgical Outcomes Research Center
• Publications: OR 93
• 2011: Contributed Talk, North American Spine Society Annual Meeting
2012-2013 Chris Martin, BA, Medical Student, Surgical Outcomes Research Center
• Publications: OR 96
2012-2013 Andrew Chen, BS. MHS Student, Surgical Outcomes Research Center
• Publications: OR 105
• 2012: Contributed Talk, Lumbar Spine Research Society Annual Meeting
• 2013: Contributed Talk, North American Spine Society Annual Meeting
2015-2016 Emily Miller, Medical Student, Surgical Outcomes Research Center
• Publications: OR 122

- 2015-2017 Taylor Purvis, BS, Medical Student, Spine Outcomes Research Center
 - 2016: Contributed Talk, North American Spine Society Annual Meeting
 - Publications: OR 126, 130, 135, 142
- 2017 Teklu Dawit, BS, Visiting Medical Student, Meharry Medical College
- 2018-2019 Andrew Harris, BS, Visiting Medical Student, University of Florida College of Medicine
 - 2017: Contributed Talk, North American Spine Society
 - Publications: OR 145, 148, 149, 153, 154, 157, 159, 160, 163, 165
 - 2019: Contributed Talk, North American Spine Society
- 2018-2019 Nicholas Andrade, BS, Medical Student, Surgical Outcomes Research Center
 - Publications: OR 151
 - 2018, Contributed Talk, North American Spine Society
- 2018-2020 Alvaro Ibaseta, BS, Medical Student
 - Publications: OR 147, 151
 - 2019: Contributed Talks, North American Spine Society, Scoliosis Research Society
- 2018-2020 Rafa Rahman, BS, Medical Student
 - Publications: OR 147, 151
 - 2019: Contributed Talk, Cervical Spine Research Society, North American Spine Society, Scoliosis Research Society
- 2018-2020 Mark Ren, BS, Medical Student
 - Publications: OR 161
- 2019-2020 Emmanuel McNeeley, BS, Visiting Medical Student,
 - 2019, Contributed Talk, University of Florida School of Medicine
 - 2020, Contributed Talk, Holy Cross Innovation and Technology Symposium
- 2020- Lahin Amlani, BS, Medical Student

Post-Doctoral Advisees/Mentees

- 2005-2006 Kevin Draxinger, DO, Post-doctoral Fellow, Surgical Outcomes Research Center
 - 2006: Contributed Talk, North American Spine Society Annual Meeting
- 2006-2008 Philip Neubauer, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 72, 103
 - 2008: Contributed Talk: North American Spine Society Annual Meeting
- 2007-2009 Mona Mohamed, MD, Radiology Fellow
 - Publications: OR 66
 - 2009: Contributed Talk, Annual Meeting of the International Society for Magnetic Resonance Imaging in Medicine
- 2009-2010 Payam Farjoodi, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 76
 - 2010: Contributed Talk, Annual Meeting of the Cervical Spine Research Society
- 2010-2011 Sergey Nesterenko, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 85
 - 2010: Contributed Talk, Annual Meeting of the Cervical Spine Research Society
 - 2011: Contributed Talk, Annual Meeting of the Cervical Spine Research Society
- 2012-2013 Hamid Hassnzadeh, MD, Post-Doctoral Fellow, Surgical Outcomes Research Center
 - Publications: OR 92, 97, 101, 103, 104
 - Contributed Talk:
- 2012-2013 Eric Tan, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 88, 99
- 2012-2016 Amit Jain, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 84, 92, 97, 101, 103, 104, 108, 111
 - Contributed Talk, North American Spine Society Annual Meeting
- 2014-2015 Tina Raman, MD, Surgical Resident, Surgical Outcomes Research Center
 - Publications: OR 129
 - 2015: Contributed Talk, North American Spine Society Annual Meeting
- 2014-2015 Karthik Ponnusamy, MD, Surgical Resident, Surgical Outcomes Research Center

- Publications: OR 120, 124, 138
 - 2015: Contributed Talk, American Association of Hip and Knee Surgeons
- 2015-2016 Shalina Selvarajah, MD, Post-doctoral Fellow, Surgical Outcomes Research Center
- 2016: Contributed Talk, North American Spine Society Annual Meeting
- 2016-2019 Keith Aziz, MD, Surgical Resident, Surgical Outcomes Research Center
- Publications: OR 138
 - 2016: Contributed Talk, American Association of Hip and Knee Surgeons
- 2019- Majd Marrache, MD, Surgical Fellow, Surgical Outcomes Research Center
- Publications: OR 148, 154, 165
 - 2019: Contributed Talk, North American Spine Society

High School, Undergraduate, and Visiting Students

Prior to 2008, list of students unknown

- 2009 Chris Schneider, Daniel Myers, Gregory McDermott, Anthony Serritella, Alex Neuman, David Chang, *Johns Hopkins Medical Tutorial*
- 2010 Mathew Brown, Bharat Maraj, Greg McDermott, Arthur Young, Mandi Le, Peter Stempniewicz, Jennie Choe, Brittany Tusing, Daniel Gergen, *Johns Hopkins Medical Tutorial*
- 2011 Allen Zhu, Calixto-Hope Lucas, George Olsen, Jonathan Beagan, Joseph Kim, Saaniya Bedi, Rebecca Dang, Priya Kamath, *Johns Hopkins Medical Tutorial*
- 2012 Vania Green, Hyunjee Kwak, Edward Pang, Amanda Vakos, Vincenzo Bonaddio, Alexandra Foxx, Kathryn Grimes, Abhilash Guduru, Nehah Harinarayan, Abraham Kim, Bo Kim, Calixto-Hope Lucas, Giuliana Rotunno, *Johns Hopkins Medical Tutorial*
- 2013 Shelby Graham, Jean He, Hyunjee Kwak, David Lee, Joy Zhou, *Johns Hopkins Medical Tutorial*
- 2014 Suleiman Abiola, Braden Anderson, Destiny Bailey, Kyle Flynn, Jonathan Monteiro, Michael Musteric, Michael Rocco, Catherine Shiau, Alec Sinatro, Elena Andreou, Sarah Benett, Sofia Espinosa, Maria Hazbon, Ramon Leo, *Johns Hopkins Medical Tutorial*
- 2015 Kyu Hee Lee, James Meyers, Samy Ramadane, Brendan Connolly, Ellie Burton, Nikki Kerns, Sung Han Kim, Colin Huang, Maria Shishikura, Agni Bhattachary, Marcela Sierra-Arce, Jonathan Paris, Simeon Kawakami, Kareem Osman, Melanie Levine, Amber Chen-Godspeed, *Johns Hopkins Medical Tutorial*
- 2016 Leah Rand, Weston Ernst, Devina Ghosh, Natali Qin, Melissa Chang, Joseph Da, Eden Epner, Viktorya Piehl, Irene Lee, *Johns Hopkins Medical Tutorial*
- 2016 Sebastian Tabisz, *Johns Hopkins Summer Jobs Program*
- 2017 Viktorya Piehl, Wes Ernst, Samy Ramadane, Rebecca Zhang, Tochi Emeghara, Debarshi Bhowmik, Katarina Mayer, Quinn Seau, Anisha Kohli, Vivek Vadlamudi, *Johns Hopkins Medical Tutorial*
- 2017 Sebastian Tabisz, *Johns Hopkins Summer Jobs Program*
- 2018 Tochi Emeghara, Ambreanna Arneus, Hui Shi, Bo Hyun Kim, Sergio Guadix, Sean Yoon, Marie Nunez, Clement Ojo, Max Downey, *Johns Hopkins Medical Tutorial*
- 2018 Thanh Ngan Tran, *Johns Hopkins Summer Jobs Program*
- 2019 Vipul Bhat, Sophie Song, Garth Cook, Marie Nunez, Erik Cruz, Kimberly Hall, Hope Kelly, Shaohong Wang, Rachel Sue, Mateus Pianowski, *Johns Hopkins Medical Tutorial*
- 2019 Marques Randolph, *Johns Hopkins Summer Jobs Program*
- 2020 Rachel Sue, Amy Lu, Sruthi Katakam, Maryam Ibrahim, Mohnish Nadella, *Johns Hopkins Medical Tutorial*

Educational Program Building/Leadership

- 2004- Spine Fellowship Interviewing Candidates for Admission
- 2010-2016 Orthopaedic Residency Interviewing Candidates for Admission

RESEARCH ACTIVITIES

Research Focus

My research group, the Surgical Outcomes Research Center (SOURCE), seeks to improve the healthcare and health related quality of life among those patients with musculoskeletal conditions. To achieve this aim, we seek to understand how characteristics of the patient, condition, treatment, and rehabilitation affect health and economic outcomes that are of importance to patients. Further, we have developed assessment strategies to quantify health related quality of life among patients, novel interventions to support patients during recovery following surgical interventions, and health systems strategies to identify the right treatment for the right patient and the right time.

A **key finding** of my research group has been the role that patient activation plays in engagement in rehabilitation and home exercise following surgery. This finding has led to the development of a telephone-based behavioral change intervention (Health Behavior Change Counseling) that has been shown effective at improving health related quality of life among patients presenting for spine surgery.

Leveraging the resources of SOURCE, I have continued to support research (e.g., Supporting AHRQ- and PCORI-funded research and industry-sponsored clinical trials) and education (e.g., Johns Hopkins Medical Tutorial, Resident and Fellow Mentoring).

Research Program Building / Leadership

Dates	Program	Role
2004-	Surgical Outcomes Research Center	Director

In this capacity, I work with the clinician-researchers across specialty divisions of the Department of Orthopaedic Surgery to develop and nurture individual research agendas. This includes working closely with each clinician-researcher in formulation of research objectives, study design, data collection and management, statistical analysis and inference, and preparation of presentations and manuscripts. In this role, I serve as a collaborator with full input at each step of the research process. The group has been successful under my tenure in securing several research grants (see above).

2015- Orthopaedic Surgery Internal Grant Review Director

In this capacity, I have developed internal procedures for junior faculty and residents to submit grant applications for review and comment by senior faculty within our department. This includes working closely with each applicant to develop the research question and specific aims, to identify the appropriate methods and partners, and ensure that work effort is adequately accounted.

SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

Institutional Appointments

2017- Musculoskeletal Service Line, Johns Hopkins Medicine, Technical Working Group
2020- COVID-19 Administrative Response Team, Department of Orthopaedic Surgery, Johns Hopkins Medicine

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2003- Institutional Review Board member
2004- Research Committee, Department of Orthopaedic Surgery
2017 Promotions Committee, Johns Hopkins Bloomberg School of Public Health

Editorial Activities

Advisory Board appointments

2012- Advisory Board, The Spine Journal

Editorial Board appointments

2008- Editorial Board, The Spine Journal
2011- Statistical Editor, Cognitive & Behavioral Neurology
2012- Editorial Board, International Journal of Statistics in Medicine Research
2015- Associate Editor, Quality of Life Research

Journal Peer-Review Activities

2008- The Spine Journal
2009- Spine
2010- Quality of Life Research
2010- AIDS & Clinical Research
2011- Cognitive & Behavioral Neurology
2011- American Journal of Epidemiology
2011- Western Journal of Nursing Research
2012- Rehabilitation Psychology
2012- Physician & Sports Medicine
2013- Annals of Orthopedics and Rheumatology
2014- Health Expectation

2015- New England Journal of Medicine
2017- Health Services Research
2018- British Medical Journal

Data Safety Monitoring Board

1. “Natural history and outcomes of treatment of scoliosis in osteogenesis imperfecta” (PI: Paul Sponseller)
2. “A Double-Blind, Placebo-Controlled, Randomized, Multiple-Ascending-Dose, Safety Study of MYO-029 Administered to Adult Patients with Becker, Facioscapulohumeral and Limb Girdle Muscular Dystrophy” (PI: Kathryn Wagner)
3. “A randomized double-blind, placebo controlled, parallel-group, multi-center trial of pregabalin versus placebo in the treatment of neuropathic pain associated with HIV neuropathy” (PI: Anita Venkataramana)
4. “Effects of glucocorticoids on cognition in HIV-infected women” (PI: Leah Rubin)

Advisory Committees, Review Groups/Study Sections

2004-2008 Member, *Measuring Health Disparities* Department of Health & Mental Hygiene, State of Maryland
2008-2012 Member, *Johns Hopkins Center for Global Health*, Framework Program in Global Health Predoctoral Research Fellowship
2014 Member, *Health Care Effectiveness and Outcomes Research*, Agency for Healthcare Research and Quality
2016- Member, *Small Projects in Rehabilitation Research (SPiRE)*, Department of Veterans Affairs
2018- Member, *Improving Health Systems*, Patient Centered Outcomes Research Institute
2018- Member, Orthopedic Strategically Coordinated Registry Network (ORTHO-CRN)
2019- Member, *Special Emphasis Panel ZDE1 YM(12)*, National Institute of Dental and Craniofacial Research

Professional Societies

2002-2004 American Statistical Association
2002-2006 American Psychological Association
2005-2014 Academy Health
2005-2008 American Public Health Association
2005- Cervical Spine Research Society
2005-2008 Research Committee, member
2011-2016 Special Projects Committee, member
2017- Resident Fellow Grant Sub-committee, member
2005- North American Spine Society
2009-2016 Research Project Management, member
2016- Research Project Management, chair
2011-2017 Governance Committee, member
2017- Governance Committee, chair
2017- Board of Directors
2015- International Society for Quality of Life Research
2016-2019 Health Preference Research SIG, co-chair
2018- Membership Committee, co-chair
2020- Board of Directors

Conference Organizer, Session Chair

2007- Abstract reviewer, North American Spine Society (NASS) Annual Meeting
2007- Abstract reviewer, Cervical Spine Research Society Annual Meeting
2012 Session moderator, ABJS Carl T. Brighton Workshop on Outcome Measures in Orthopedics
2015- Abstract reviewer, International Society on Quality of Life (ISOQOL) Annual Conference
2017 Session chair, Health Utility Measurement II, ISOQOL Annual Conference
2018 Abstract reviewer, International Society for the Advancement of Spine Surgery
2019 Session chair, Health Preference Research Symposium, ISOQOL Annual Conference
2019 Session chair, Leadership Development Program, NASS, Annual Meeting
2020 Workshop reviewer, International Society on Quality of Life (ISOQOL) Annual Conference
2020 Symposium reviewer, International Society on Quality of Life (ISOQOL) Annual Conference
2020 Session chair, Leadership Development Program, NASS, Annual Meeting

Consultantships

University of Puerto Rico (PI: Loyda Melendez, PhD)

University of Puerto Rico (PI: Valerie Wojna, MD)

RECOGNITION

Awards/Honors

- 1996 *Young Investigator's Award* for work on 'Variation in Clinical Progressions of HIV-associated Dementia,' XI International Conference on AIDS.
- 2011 *Provost Undergraduate Research Award* for work on 'Assessment of pre-surgical psychological screening in patients undergoing spine surgery: Implementation and clinical impact.
- 2011 *Russell A. Hibbs Award for the Best Clinical Science Presentation* for work on 'Clinical Results and Functional Outcome in Adult Patients Following Surgical Treatment for Spinal Deformity: Primary vs. Revision,' Scoliosis Research Society.
- 2015 *North American Spine Society 30th Anniversary: 30 Years, 30 Members* for recognition of my contributions to clinical research of spine disease and of my contributions to the mission of NASS.

Invited Talks

Regional

1. "Translational research in NeuroAIDS and mental health" September 18, 2007. Departments of Neurology and Radiology. Baltimore, MD.
2. "Psychometric properties of the Patient Activation Measure in persons undergoing spine surgery" September 7, 2008. AHRQ Annual Conference "Promoting Quality ... Partnering for Change". Bethesda MD.
3. "Functional recovery in lumbar spine surgery: The impact of patient activation on health behavior and patient reported outcomes" June 30, 2010. First Annual Patient Safety Summit. Baltimore, MD.
4. "Finding the sweet spot: Identifying tDCS responders" March 14, 2014. Division of Cognitive Neurology, Department of Neurology. Baltimore, MD.
5. "Functional Recovery in Lumbar Spine Surgery: Understanding Patient Activation and Engagement" November 7, 2014. Blaustein Pain Conference. Baltimore, MD.
6. "Prevention of swallowing problems after anterior cervical spine surgery: Comparative effectiveness of tracheal traction exercise and short-term steroid use" June 3, 2015. Anne Arundel Medical Center. Annapolis, MD.
7. "Recipe for research: Sample size and Power" September 8, 2015. Nursing Research Committee, Department of Nursing, Baltimore, MD.
8. "Data management for the clinician scientist" January 13, 2016. Department of Radiology. Baltimore, MD.
9. "Patient activation: Development, scoring, and use in research" March 25, 2016. Johns Hopkins Healthcare, Baltimore, MD.
10. "Clinical research in orthopaedics: Impact and role of patients" April 13, 2016. American Academy of Orthopaedic Surgery Research Day. Baltimore, MD.
11. "Prevention of swallowing problems after anterior cervical spine surgery: Comparative effectiveness of tracheal traction exercise and short-term steroid use" September 2015. Johns Hopkins Clinical Research Network, Baltimore, MD.
12. "Patients improving their outcomes" June 2, 2017. Baer Lecture and Biennial, Department of Orthopaedic Surgery. Baltimore, MD.
13. "Health by numbers: Patient reported outcomes in spine care" June 20, 2017. Center for Health Services Outcomes Research. Baltimore, MD.
14. "Adult registry data from the Johns Hopkins Spine Outcomes Research Center" November 9, 2018. Orthopedic Strategically Coordinated Registry Network (ORTHO-CRN) Annual Meeting. Silver Spring, MD.
15. "Spine registries and patient reported outcomes" November 6, 2019. Orthopedic Strategically Coordinated Registry Network (ORTHO-CRN) Annual Meeting. Silver Spring, MD.
16. "Use of PROMIS in Orthopaedic Device Studies" June 17, 2020. Orthopedic Strategically Coordinated Registry Network (ORTHO-CRN) Regulatory Grand Rounds. Silver Spring, MD.
17. "Overview of PROMIS and Use Across Orthopaedic Surgery" June 17, 2020. Orthopedic Strategically Coordinated Registry Network (ORTHO-CRN) Regulatory Grand Rounds. Silver Spring, MD.

National

1. "Adherence to physical therapy after spine surgery: Understanding patient activation" August 14, 2008 APA Symposium: Conceptualizing the role of engagement for successful health intervention, Boston MA.
2. "Outcomes monitoring that demonstrates value for payer, provider, and patient" September 21, 2009. Advancing Multi-Disciplinary Approaches to Spine and Back Pain Management Conference. San Diego, CA.
3. "Reporting cost-effectiveness: Should cost/QALY be the gold standard?" August 13, 2010. Value Spine Conference, Chicago, IL.

4. "Patient satisfaction in the Cervical Spine Research Society Outcome Study: Relationship to improved clinical outcome" September 22, 2009. Advancing Multi-Disciplinary Approaches to Spine and Back Pain Management Conference. San Diego, CA.
5. "Reporting Cost-Effectiveness: Should QALY/Cost be the Gold Standard" October 31, 2009 Council for Value in Spine Care. Philadelphia, PA.
6. "Patient factors influencing outcome in spine surgery" September 23, 2011. Grand Rounds, Department of Orthopaedic Surgery, University of Puerto Rico. San Juan, PR.
7. "Determining the cost of spine interventions: Indirect costs" February 24, 2012 Council for Value in Spine Care. Philadelphia, PA.
8. "How do you measure cost for value driven engineering" April 24, 2012 Value Driven Engineering: A Conference on Medical Innovation for U.S. Global Competitiveness. Akron OH.
9. Commonalities, differences, and challenges with current provider derived outcomes measurement tools: A population framework. ABJS Carl T. Brighton Workshop on Outcome Measures in Orthopaedics. November 7-10, 2012. Tampa, FL.
10. Conjunction Junction: Connecting key players for transformative research. Michigan State University/Sparrow Health System. July 2, 2013. East Lansing, MI.
11. "The influence of patient activation on health behavior and recovery following spine surgery" Dean's Retreat. April 22, 2013. Baltimore, MD.
12. "Functional recovery in lumbar spine surgery: Understanding patient activation and engagement" Blaustein Pain Research Conference. November 7, 2014. Baltimore, MD.
13. How to conduct an effective survey study. American Medical Society for Sports Medicine Fellows Conference. July 24, 2015. Columbia, MD.
14. How do I pay for my study? American Medical Society for Sports Medicine Fellows Conference. July 26, 2015. Columbia, MD.
15. "Recipe for research: Sample size and power" Nursing Research Committee. September 8, 2015. Baltimore, MD.
16. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Orthopaedic Surgery, University of Utah. Salt Lake City, UT. January 6, 2016.
17. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Physical Medicine & Rehabilitation, University of Pittsburgh. Pittsburgh, PA. June 15, 2016.
18. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Orthopaedic Surgery, Tufts University School of Medicine, Boston, MA. October 27, 2016.
19. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Orthopaedics, Western Michigan University School of Medicine, Kalamazoo, MI. November 17, 2016.
20. "Leadership Development and Training: Communication and Self-Awareness" North American Spine Society, 2017 Annual Meeting.
21. "Leadership Development and Training: Creativity and Development" North American Spine Society, 2017 Annual Meeting.
22. "Presurgical Psychological Evaluation: Why, Who, How - and What Value" North American Spine Society, 2018 Annual Meeting.
23. "Leadership Perspective: Identifying and managing physician burnout in today's health care environment" North American Spine Society, 2019 Annual Meeting, Chicago, IL.
24. "Health Preference Research: Past, Present, and Future" International Society on Quality of Life, 2019 Annual Conference. San Diego, CA.

International

1. "Functional outcomes in lumbar spine surgery" Department of Orthopaedic Surgery, University of Puerto Rico, San Juan, PR. September 28, 2011.
2. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Orthopedics, University of Copenhagen. Copenhagen, DK. October 18, 2016.
3. "Health Behavior Change Counseling improved rehabilitation engagement and leads to better functional outcomes following lumbar spine surgery" Grand Rounds, Department of Rehabilitation, University of Aarhus, Aarhus, DK. October 24, 2016.
4. "Functional recovery after lumbar spine surgery: Using patient reported outcomes to identify risk factors" PTH Clinical Trial Kick-Off Meeting, The Third Hospital of Hebei Medical University, Hebei, China. March 10, 2018.

5. “The influence of anxiety and depression on recovery from spine surgery” 8th session of Digital Orthopedic Academic Conference, 3rd session Digital Orthopedic Conference of SICOT China chapter and First International Orthopedic Education Summit of Chinese great Bay area, Shenzhen, China.
6. “Role of Health Preferences in Clinical Decision Making: The Past, Present, and Future” International Society on Quality of Life, 2018 Annual Conference. Dublin, Ireland.