

CURRICULUM VITAE
The Johns Hopkins University School of Medicine

BONNIELIN K. SWENOR, PHD, MPH

Date of this version: July 30, 2019

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

- 2019-present *Associate Professor*, Wilmer Eye Institute (Primary Appointment)
Johns Hopkins University School of Medicine, Baltimore, MD
- 2019-present *Associate Professor*, Department of Epidemiology
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2014-present *Core Faculty*, Dana Center for Preventive Ophthalmology
Johns Hopkins University School of Medicine, Baltimore, MD
- 2019-present *Core Faculty*, Center on Aging and Health
Johns Hopkins University, Baltimore, MD

Personal Data

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Webpage: <https://www.hopkinsmedicine.org/wilmer/research/dana-center/research/swenor.html/?f>

Education and Training

Undergraduate

2001 *BS, Microbiology and Biochemistry*
Pennsylvania State University, State College, PA

Graduate

2009 *MPH, Epidemiology and Biostatistics*
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
Mentor: Sheila K. West, PhD

2013 *PhD, Epidemiology*
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
Mentor: Sheila K. West, PhD

Postdoctoral

2014 *Postdoctoral Research Fellow, Epidemiology and Geriatrics*
National Institute on Aging, National Institutes of Health, Bethesda, MD
Mentors: Luigi Ferrucci, MD, MPH and Stephanie Studenski, MD, MPH

Professional Experience

2001-2002 *Research Technician*, Andrew Clark Lab
Department of Biology, Pennsylvania State University, State College, PA

2002-2003 *Research Technician*, Andrew Clark Lab
Department of Molecular Biology & Genetics, Cornell University, Ithaca, NY

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| 2003-2004 | <i>Research Technician</i> , Andy Golden Lab National Institute of Diabetes, Digestive & Kidney Disorders, NIH, Bethesda, MD |
| 2004-2008 | <i>Senior Scientist</i> Center for Epidemiology, Biostatistics & Computational Biology, Exponent, Inc., Washington, DC |
| 2008-2009 | <i>Research Assistant</i> Cochrane Eyes & Vision Group, US Cochrane Center, Baltimore, MD |
| 2009-2010 | <i>Research Data Analyst</i> Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, MD |
| 2014-2019 | <i>Assistant Professor</i> Department of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD |
| 2014-2019 | <i>Assistant Professor</i> Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD |
| 2014-2019 | <i>Associate Faculty</i> Johns Hopkins University Center on Aging and Health, Baltimore, MD |
| 2019-present | <i>Associate Professor</i> Department of Ophthalmology, Johns Hopkins University School of Medicine, Baltimore, MD |
| 2019-present | <i>Associate Professor</i> Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD |
| 2019-present | <i>Core Faculty</i> Johns Hopkins University Center on Aging and Health, Baltimore, MD |

PUBLICATIONS:

Original Research [OR]

1. Lazzaro BP, **Scurman BK**, Carney SL, Clark AG. fRFLP and fAFLP: medium-throughput genotyping by fluorescently post-labeling restriction digestion. *Biotechniques*. 2002;33(3):539-40,542,545-6.
2. Lazzaro BP, **Scurman BK**, Clark AG. Genetic basis of natural variation in *D.melanogaster* antibacterial immunity. *Science*. 2004;303(5665):1873-6.
3. Burrows AE, **Scurman BK**, Kosinski ME, Richie C, Sadler PL, Schumacher JM, Golden A. The *C.elegans* Myt1 ortholog is required for the proper timing of oocyte maturation. *Development*. 2006;33(4):697-709.
4. Teta MJ, Lau E, **Scurman BK**, Wagner ME. Therapeutic radiation for lymphoma: risk of malignant mesothelioma. *Cancer*. 2007;109(7):1432-8.
5. Teta MJ, Mink PJ, Lau E, **Scurman BK**, Foster ED. US mesothelioma patterns 1973-2002: indicators of change and insights into background rates. *Eur J Cancer Prev*. 2008;17(6):525-34.
6. Alexander DD, Cushing CA, Lowe KA, **Scurman B**, Roberts MA. Meta-analysis of animal fat or animal protein intake and colorectal cancer. *Am J Clin Nutr*. 2009;89(5):1402-9.
7. Alexander DD, Mink PJ, Cushing CA, **Scurman B**. A review and meta-analysis of prospective studies of red and processed meat intake and prostate cancer. *Nutr J*. 2010;9:50.
8. **Swenor BK**, Bressler S, Caulfield L, West SK. The Impact of fish and shellfish consumption on age-related macular degeneration. *Ophthalmology*. 2010;117(12):2395-401.
9. Mink PJ, Mandel JS, Lundin JI, **Scurman BK**. Epidemiologic studies of glyphosate and non-cancer health outcomes: a review. *Regul Toxicol Pharmacol*. 2011;61(2):172-84.
10. Uribe JA, **Swenor BK**, Munoz BE, West SK. Uncorrected refractive errors in a Latino population: Proyecto VER. *Ophthalmology*. 2011;118(5):805-11.
11. Rog M, **Swenor B**, Cajas-Monson LC, McHiwe W, Kiboko S, Mkocho H, West S. A cross-sectional survey of water and clean faces in trachoma endemic communities in Tanzania. *BMC Public Health*. 2011;11(1):495.
12. Mink PJ, Mandel JS, **Scurman BK**, Lundin JI. Epidemiologic studies of glyphosate and cancer: A review. *Regul Toxicol Pharmacol*. 2012 Aug;63(3):440-52.
13. Sandhu RK, Munoz BE, **Swenor BK**, West SK. Refractive error and visual function difficulty in a Latino population. *Ophthalmology*. 2012 Sep;119(9):1731-6.

14. Lam BL, Christ SL, Zheng D, West SK, Munoz BE, **Swenor BK**, Lee DJ. Longitudinal relationships among visual acuity and tasks of everyday life: The Salisbury Eye Evaluation Study. *Invest Ophthalmol Vis Sc.* 2013 Jan 7;54(1):193-200.
15. Ramulu PY, **Swenor BK**, Jefferys JL, Rubin GS. Description and validation of a test to evaluate sustained silent reading. *Invest Ophthalmol Vis Sc.* 2013 Jan 23;54(1):673-80.
16. Ramulu PY, **Swenor BK**, Jefferys JL, Friedman DS, Rubin GS. Difficulty with out-loud and silent reading in glaucoma. *Invest Ophthalmol Vis Sc.* 2013 Jan 23;54(1):666-72.
17. **Swenor B**, Ramulu RY, Willis J, Friedman D, Lin F. The prevalence of concurrent hearing and vision impairment in the United States. *JAMA Intern. Med.* 2013 Jan 21:1-2.
18. **Swenor BK**, Munoz B, West S. Does visual impairment affect mobility over time? The Salisbury Eye Evaluation Study. *Invest Ophthalmol Vis Sci.* 2013 Nov 19; 54(12):7683-90.
19. **Swenor BK**, Muñoz B, West SK. A longitudinal study of the association between visual impairment and mobility performance in older adults: The Salisbury Eye Evaluation Study. *Am J Epidemiol.* 2014 Feb 1;179(3):313-22.
20. **Swenor BK**, Bandeen-Roche K, Munoz B, West S. Does walking speed mediate the association between visual impairment and self-reported mobility disability? The Salisbury Eye Evaluation Study. *J Am Geriatric Soc.* 2014 Aug;62(8):1540-5.
21. Christ SL, Zheng DD, **Swenor BK**, Lam BL, West SK, Tannenbaum SL, Munoz BE, Lee DJ. Longitudinal relationships among visual acuity, functioning, and mortality: The Salisbury Eye Evaluation Study. *JAMA Ophthalmol.* 2014 Dec 1;132(12):1400-6.
22. **Swenor BK**, Simonsick EM, Ferrucci L, Newman AB, Rubin S, Wilson V. Visual impairment and incident mobility limitations: The Health, Aging, and Body Composition Study. *J Am Geriatric Soc.* 2015 Jan;63(1):46-54.
23. van Landingham SW, Srikumaran D, Siddiqui AA, **Swenor B**, Ramulu PY. Characteristics that Predict Ophthalmic Knowledge among Ophthalmology Residents. *Ophthalmology.* 2015 May;122(5):1063-5.
24. Zebardast N, **Swenor BK**, van Landingham S, Massof R, West SK, Munoz B, Ramulu PY. Comparing the impact of refractive and non-refractive vision loss on functioning and disability: The Salisbury Eye Evaluation Study. *Ophthalmology.* 2015 Jun;122(6):1102-10.
25. Nguyen AM, Arora KS, **Swenor BK**, Friedman DS, Ramulu PY. Physical activity restriction in age-related eye disease: a cross-sectional study exploring fear of falling as a potential mediator. *BMC Geriatr.* 2015 Jun 12;15:64.
26. Loprinzi PD, **Swenor BK**, Ramulu PY. Age-Related Macular Degeneration Is Associated with Less Physical Activity among US Adults: Cross-Sectional Study. *PLoS One.* 2015 May 1;10(5):e0125394.
27. Carvalho AB, Vicoso B, Russo CA, **Swenor B**, Clark AG. Birth of a new gene on the Y chromosome of *Drosophila melanogaster*. *Proc Natl Acad Sci U S A.* 2015 Oct 6;112(40):12450-5.
28. Zheng DD, Bokman CL, Lam BL, Christ SL, **Swenor BK**, West SK, Muñoz BE, Tannenbaum SL, Lee DJ. Longitudinal relationships between visual acuity and severe depressive symptoms in older adults: the Salisbury Eye Evaluation study. *Aging Ment Health.* 2016;20(3):295-302.
29. Huddle MG, Deal JA, **Swenor B**, Genter DJ, Lin FR. Association Between Dual Sensory Impairment, Hospitalization, and Burden of Disease. *J Am Geriatr Soc.* 2016 Aug;64(8):1735-7.
30. **Swenor BK**, Yonge AV, Goldhammer V, Miller R, Gitlin LN, Ramulu P. Evaluation of the Home Environment Assessment for the Visually Impaired (HEAVI): an instrument designed to quantify fall-related hazards in the visually impaired. *BMC Geriatr.* 2016 Dec 9;16(1):214.
31. Kaleem MA, West SK, Im LT, **Swenor BK**. Referral to Low Vision Services for Glaucoma Patients: Referral Patterns and Characteristics of Those Who Refer. *J Glaucoma.* 2017 Feb;26(2):e115-e120.
32. Yonge AV, **Swenor BK**, Miller R, Goldhammer V, West SK, Friedman DS, Gitlin LN, Ramulu PY. Quantifying Fall-Related Hazards in the Homes of Persons with Glaucoma. *Ophthalmology.* 2017 Apr;124(4):562-571.
33. Mathews PM, Ramulu PY, **Swenor BK**, Utine CA, Rubin GS, Akpek EK. Functional impairment of reading in patients with dry eye. *Br J Ophthalmol.* 2017 Apr;101(4):481-486.
34. **Swenor BK**, Varadaraj V, Dave P, West SK, Rubin G, Ramulu PY. Impact of the ability to divide attention on reading performance in glaucoma. *Invest Ophthalmol Vis Sci.* 2017 May 1;58(5):2456-2462.

35. Adeyemo O, Jeter PE, Rozanski C, Arnold E, Dalvin LA, **Swenor B**, Dagnelie G; PLoVR Study Group. Living with Ultra-Low Vision: An Inventory of Self-Reported Visually Guided Activities by Individuals with Profound Visual Impairment. *Transl Vis Sci Technol*. 2017 May 31;6(3):10.
36. Anson E, Bigelow RT, **Swenor B**, Deshpande N, Studenski S, Jeka JJ, Agrawal Y. Loss of peripheral sensory function explains much of the increase in postural sway in healthy older adults. *Frontiers in Aging Neuroscience*. 2017 Jun 20;9:202.
37. Kaleem M, Ridha F, Shwani Z, **Swenor B**, Goshe J, Singh A. Rates of Intraocular Pressure Elevation and Use of Topical Antihypertensive Medication After Descemet Stripping Automated Endothelial Keratoplasty. *Cornea*. 2017 Jun;36(6):669-674.
38. Mihailovic A, **Swenor B**, Friedman D, West S, Gitlin L, Ramulu P. Gait implications of visual field damage from glaucoma. *Transl Vis Sci Technol*. 2017 Jun 23;6(3):23.
39. West SK, Munoz B, Mkocho H, Dize L, Gaydos C, **Swenor B**, Ervin AM, Quinn TC. Treating Village Newcomers and Travelers for Trachoma: Results from ASANTE cluster randomized trial. *PLOS ONE*. 2017 Jun 29;12(6):e0178595.
40. Varadaraj V, Mihailovic A, Ehrenkranz R, Lesche S, Ramulu PY, **Swenor BK**. Gait characteristics of age-related macular degeneration patients. *Transl Vis Sci Technol*. 2017 Aug 1;6(4):14.
41. Zhao D, Guallar E, Gajwani P, **Swenor B**, Crews J, Saaddine J, Mudie L, Varadaraj V, Friedman DS; SToP Glaucoma Study Group. Optimizing glaucoma screening in high risk population: design and 1-year findings of the Screening to Prevent (SToP) Glaucoma study. *Am J Ophthalmol*. 2017 Aug;180:18-28.
42. Lee MJ, Abraham AG, **Swenor BK**, Sharrett AR, Ramulu PY. Application of OCT in the Detection and Classification of Cognitive Decline. *Journal of Current Glaucoma Practice*. 2017;11(3).
43. Fuller SD, Mudie LI, Siordia C, **Swenor BK**, Friedman DS. Nationwide prevalence of severe vision, hearing, and dual sensory impairments and their associations with cognitive, independent living, self-care, and ambulatory difficulties in the 2011-2015 American Community Survey PUMS. *Ophthalmology*. 2018 Jan 4. pii: S0161-6420(17)31673-1.
44. Zhao D, Guallar E, Bowie JV, **Swenor B**, Gajwani P, Kanwar N, Friedman DS. Improving Follow-up and Reducing Barriers for Eye Screenings in Communities: The SToP Glaucoma Study. *Am J Ophthalmol*. 2018 Jan 17.
45. Varadaraj V, Lesche S, Ramulu PY, **Swenor BK**. Reading speed and comprehension in age-related macular degeneration. *Am J Ophthalmol*. 2018 Feb;186:138-143.
46. Rein DB, Wittenborn JS, Phillips EA, Saaddine JB, Ahmed F, Ammerman M, Cotch MF, Davidson C, Doherty M, Erdem E, Flaxman AD, Friedman DS, Jackson KM, Joslin CE, Klein BEK, Klein R, Koehlmoos TP, Lamuda P, Lee PP, Liu Y, Lum F, Mokotoff ED, Okeke NL, Phillips EA, Sinha NP, **Swenor BK**, Todd J; Vision and Eye Health Surveillance System Study Group. Establishing a Vision and Eye Health Surveillance System for the Nation: A Status Update on the Vision and Eye Health Surveillance System. *Ophthalmology*. 2018 Apr;125(4):471-473.
*Role: Steering committee member
47. Kaleem MA, West SK, Im L, **Swenor BK**. Referral to Low Vision Services for Glaucoma Patients: Referral Criteria and Barriers. *J of Glaucoma*. 2018 Jul;27(7):653-655.
48. Zheng D, **Swenor BK**, Christ S, West S, Lam B, Lee D. Longitudinal Relationships between Visual Impairment and Cognitive Function in the Salisbury Eye Evaluation Study. *JAMA Ophthalmol*. 2018 Sep 1;136(9):989-995.
49. Whitson HE, Lin F, Cronin-Golomb A, Cruickshanks K, Gilmore CG, Owsley C, Peelle J, Recanzone G, Sharma A, St. Hillaire-Clarke C, **Swenor B**, Yaffe K. AGS and NIA Bench-to Bedside Conference: Sensory Impairment and Cognitive Decline in Older Adults. *J Am Geriatr Soc*. 2018 Sep 24. *Role: Steering committee member
50. Mudie L, Varadaraj V, Gajwani P, Munoz B, Ramulu P, Lin F, **Swenor B**, Friedman DS, Zebardast N. Dual Sensory Impairment: The association between glaucomatous vision loss and hearing impairment and function. *PLOS ONE*. 018 Jul 6;13(7):e0199889.
51. **Swenor BK**, Guo X, Boland MV, Goldstein JE. Leveraging electronic health records to identify and characterize patients with low vision. *Ophthalmic Epidemiol*. 2018 Oct 16:1-8.
52. **Swenor BK**, Wang J, Varadaraj V, Rosano C, Yaffe K, Albert M, Simonsick EM. Vision Impairment and Cognitive Outcomes in Older Adults: The Health ABC Study. *J Gerontol A Biol Sci Med Sci*. 2018 Oct 25.

53. Lee MJ, Varadaraj V, Ramulu PY, Whitson HE, Deal JA, **Swenor BK**. Memory and Confusion Complaints in Visually Impaired Older Adults: An Understudied Aspect of Well-Being. *Gerontol Geriatr Med*. 2019 Jan 8;5: 2333721418818944.
54. Benoit SR, **Swenor B**, Geiss LS, Gregg EW, Saaddine JB. Eye Care Utilization Among Insured People With Diabetes, U.S. 2010-2014. *Diabetes Care*. 2019 Jan 24. pii: dc180828.
55. Varadaraj V, Frick KD, Saaddine JB, Friedman DS, **Swenor BK**. Trends in Eye Care Use and Eyeglasses Affordability: The US National Health Interview Survey, 2008-2016. *JAMA Ophthalmol*. 2019 Jan 24.
56. Deemer AD, **Swenor BK**, Fujiwara K, Deremeik JT, Ross NC, Natale DM, Bradley CK, Werblin FS, Massof RW. Preliminary Evaluation of Two Digital Image Processing Strategies for Head-Mounted Magnification for Low Vision Patients. *Transl Vis Sci Technol*. 2019 Feb 28;8(1):23.
57. Thomas AG, Ruck JM, Chu N, Shaffer AA, Haugen CE, Ying H, **Swenor B**, Norman SP, Want JG, Segev DL, McAdams-DeMarco M. Kidney Transplant Outcomes in Recipients with Visual Impairment, Hearing Impairment, Physical Disability, and Walking Disability: A Prospective Cohort Study. *Nephrol Dial Transplant*. *Accepted*.
58. **Swenor BK**, Lee MJ, Varadaraj V, Whitson HE, Ramulu PY. Aging with Vision Loss: A framework for assessing the impact of visual impairment on older adults. *Gerontologist*. *Accepted*.
59. **Swenor BK**, Lee MJ, Tian J, Varadaraj V, Bandeen-Roche K. Visual Impairment and Frailty: Examining an understudied relationship. *J Gerontol A Biol Sci Med Sci*. *Accepted*.

Book Chapters, Monographs [BC]

1. **Swenor BK**, Guralnik J, Ferrucci L. "Demography and Epidemiology". In: Hazzard's Geriatric Medicine and Gerontology, 7th Edition, Halter JB, Ouslander, JG, Tinetti ME, Studenski S, High KP, and Asthana S, editors, New York: McGraw Hill. 2016.
2. Varadaraj V, Friedman DS, **Swenor BK**. "Low Vision, Disability, and Blindness". In: Albert and Jakobiec's Principles and Practices of Ophthalmology, 4th Edition, Daniel Albert, Joan Miller, Dimitri Azar and Lucy H. Young, Editors. Philadelphia: Saunders Elsevier. 2020.

Editorials [ED]

1. **Swenor BK**. A Gerontological Perspective on Visual Impairment and Mobility. *JAMA Ophthalmol*. 2016 Oct 1;134(10):1093-1094.
2. **Swenor BK**. Losing Vision and Gaining Perspective. *JAMA*. 2019 Feb 5; 321(5):455-456.
3. Kaleem MA, **Swenor BK**, West SK, Im L, Shepard JD. Low Vision Services and the Glaucoma Patient. *Ophthalmology Glaucoma*. *Accepted*.
4. **Swenor BK**, Meeks L. Disability Inclusion: Moving Beyond Mission Statements. *N Engl J Med*. 2019 May 30;380(22):2089-2091.

Media Releases or Interviews [MR]

1. Reuters News Health. *Memory complaints can help gauge cognitive health in visually impaired elderly*. June 4, 2018. https://www.mdlinx.com/ophthalmology/?article_alert=7523341
2. Daily Mail. *Want to protect your brain? Look after your eyes! Maintaining healthy vision may help prevent cognitive decline in elderly people, study suggests*. June 7, 2018. <https://www.msn.com/en-gb/health/mindandbody/want-to-protect-your-brain-look-after-your-eyes-maintaining-healthy-vision-may-help-prevent-cognitive-decline-in-elderly-people-study-suggests/ar-AAzDhG4>
3. US News. *As the eyes go, so may the mind*. June 28, 2018. <https://health.usnews.com/health-care/articles/2018-06-28/as-the-eyes-go-so-may-the-mind>
4. Science News. *Exploring links between senses and cognitive health*. September 24, 2018. <https://www.sciencedaily.com/releases/2018/09/180924160940.htm>
5. Wilmer Eye Institute Annual Report. *Building a field from scratch: The Dana Center*. December 2018. https://www.hopkinsmedicine.org/wilmer/news/publications/wilmer-magazine/annual_report_18.pdf

6. Johns Hopkins Medicine Magazine. *High sights for low vision*. February 2019. https://www.hopkinsmedicine.org/news/publications/hopkins_medicine_magazine/features/winter-2019/high-sights-for-low-vision
7. Reuters. *Seniors with vision loss experience discrimination, depression*. May 30, 2019. <https://www.reuters.com/article/us-health-vision-discrimination/seniors-with-vision-loss-experience-discrimination-depression-idUSKCN1T02I8>
8. Eureka. *How to improve care for patients with disabilities? We need more providers like them*. June 10, 2019. https://www.eurekaalert.org/pub_releases/2019-06/jhm-hti060719.php
9. NPR. *What medicine can learn from doctors and researchers with disabilities*. June 13, 2019. <https://www.npr.org/sections/health-shots/2019/06/13/732440454/what-medicine-can-learn-from-doctors-and-researchers-with-disabilities>

Other Media [OM] (Videos, Websites, Blogs, Social Media, etc.)

1. Eyes on Success Podcast. *Careers in STEM*. December 16, 2015. <https://www.eyesonsuccess.net/include/search.php?submit=search&sn=1551>
2. National Eye Institute News Page. *Analysis suggests a link between vision and cognition loss*. September, 24, 2018. <https://nei.nih.gov/content/study-suggests-maintaining-good-vision-may-stave-cognitive-decline>
3. Johns Hopkins Medicine. *On the front lines of low vision: People behind the promise*. February 2019. <https://www.youtube.com/watch?v=3cizh0hpVFI&feature=youtu.be>
4. News Medical. *Age Related Macular Degeneration Awareness Month: How visual impairment affects older adults*. March 2019. <https://www.news-medical.net/news/20190305/Age-Related-Macular-Degeneration-Awareness-Month-How-visual-impairment-affects-older-adults.aspx>

FUNDING

EXTRAMURAL Funding

Research Extramural Funding- Grants or contracts obtained to support a research initiative

Current

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| 09/30/14 – 09/29/19 | Optimizing approaches to identifying glaucoma among at-risk African Americans and Hispanics U01DP005123 CDC \$500,000 PI: Swenor (transfer from D. Friedman) |
| 04/01/19 – 03/31/21 | Measurement of Cognitive Function in Older Adults with Sensory Loss R21AG060243 NIA/NIH \$150,000 MPI: Swenor, Deal |
| 02/01/19 – 01/31/24 | Sensorimotor predictors of preclinical AD 1R01AG061786 NIA/NIH \$500,000 MPI: Schrack, Agarwal, Lin Role: Co-Investigator |
| 03/01/17 – 02/28/22 | Vision Loss and Cognition: Testing the sensory loss consequence hypothesis 1K01AG052640-01 NIA/NIH \$134,000 PI: Swenor |

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| 01/01/19 – 12/31/19 | <p>Cataract Surgery and Frailty No grant number Wilmer Eye Institute/Research to Prevent Blindness \$50,000 PI: Swenor</p> |
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| <u>Previous</u> | |
| 03/01/18 – 02/28/19 | <p>Admin. Suppl. to 1K01AG052640-01 Vision Loss and Cognition: Testing the sensory loss consequence hypothesis 3K01AG052640-02S1 NIA/NIH \$100,000 PI: Swenor</p> |
| 06/01/18 – 05/31/19 | <p>Improving Communication with Caregivers among Older Adults with Dual Sensory Impairment: Feasibility of a Hearing Intervention in a Low Vision Rehabilitation Clinic NIA/NIH – Roybal Center P30AG048773 \$30,000 Project PI: Reed Role: Co-Investigator</p> |
| 10/01/16 – 03/30/19 | <p>Intergovernmental Personnel Agreement (IPA) No grant number Centers for Disease Control and Prevention \$77,825 PI: Swenor</p> |
| 01/01/18 – 12/31/18 | <p>Dual Sensory Impairment and Neurocognitive Outcomes No grant number Wilmer Eye Institute/Research to Prevent Blindness \$98,000 PI: Swenor</p> |
| 08/15/17 – 05/31/18 | <p>Admin. Suppl. to U01AG052445-01 Stress, Mental Disorders, Accelerated Aging, and Dementia: a 35-year Cohort Study 3U01AG052445-02S1 NIA/NIH \$99,075 PI: Spira and Eaton Role: Co-Investigator</p> |
| 07/01/17 – 06/30/18 | <p>Exploring the Relationship between Visual Impairment and Frailty in Older Adults P30AG021334 Johns Hopkins University Older Americans Independence Center, NIA/NIH \$48,000 PI: Walston Role: Project PI</p> |
| 11/01/17 – 10/31/18 | <p>Electronic Advisory for Low Vision Referral (EVOLVE Study) No Grant Number Reader's Digest Partners for Sight \$70,000 PI: Goldstein Role: Co-Investigator</p> |

02/01/17 – 01/31/18 Vision Measures and Functional Brain Imaging
 No grant number
 Wilmer Eye Institute/Research to Prevent Blindness
 \$60,820
PI: Swenor

06/01/15 – 05/31/16 Reading and Mobility in AMD Patients
 No grant number
 Wilmer Eye Institute/Research to Prevent Blindness
 \$50,000
PI: Swenor

Other Extramural Funding, including philanthropy

10/01/16 – 09/30/17 Philanthropic gift from Dr. Jane Kroeger
 \$30,000 to Dr. Swenor

CLINICAL ACTIVITIES

Not Applicable

EDUCATIONAL ACTIVITIES

Teaching

Classroom instruction

2011 *Teaching Assistant*, Epidemiologic Methods 1, JHSPH
 2011 *Teaching Assistant*, Epidemiologic Methods 3, JHSPH
 2011-2012 *Teaching Assistant*, Principles of Epidemiology, JHSPH
 2012 *MPH Student Capstone Leader*, JHSPH
 2012 *Teaching Assistant*, *Applications of Case-Control Methods*, JHSPH
 2012-2013 *Teaching Assistant*, Epidemiology of Aging, JHSPH
 2016 *Lecturer*, Epidemiology of Aging, JHSPH
 2014-present *Course Director*, Eye Disease Epidemiology, JHSPH

Clinical Instruction

Not applicable

CME instruction

JHMI/Regional

2016, 2017, “Epidemiology of Diabetic Retinopathy and Retinal Vein Occlusion”,
 2018 What’s new in diabetic retinopathy and venous occlusive disease, JHMI

Workshops/Seminars

2018 *Creator and Organizer*, “Pathway to a Research Grant Workshop, The Wilmer Eye Institute;
 Developed and organized a grant writing workshop for faculty, trainees at the Wilmer Eye Institute

Mentoring

Post-doctoral Advisees /Mentees

- 2015-present Varshini Varadaraj, Postdoctoral Fellow, JHU SOM, Role: Research Advisor
- Publications: OR33, OR39, OR40, OR43, OR48, OR50, OR52, OR53, OR55, OR58, OR59
 - Media: MR1
 - Wilmer Research Meeting Research Poster Award, 2018
 - Johns Hopkins Excellence in Diversity Postdoctoral Research Poster Award, 2018
 - Aging Research Showcase Poster Contest winner, 2019
 - ARVO Member -in-Training Research Award, 2019
 - Wilmer Research Meeting Presenter Award, 2019
- 2018-2019 Elizabeth Couser, PhD, Postdoctoral Fellow, JHU SOM, Role: Research Advisor
- 2019-present Niranjani Nagarajan, Postdoctoral Fellow, JHU SOM, Role: Research Advisor
- 2019-present Fahd Naufal, Postdoctoral Fellow, JHU SOM, Role: Research Advisor
- 2019-present Lama Assi Postdoctoral Fellow, JHU SOM, Role: Research Advisor

Pre-doctoral Advisees /Mentees

- 2015-2016 Stephen Lesche, Medical Student, JHU SOM, Role: Research Advisor
- Publications: OR39, OR43
- 2017-present Moon Jeong Lee, Medical Student, JHU SOM, Role: Research Advisor
- Publications: OR42, OR53, OR58, OR59
 - Media: MR1
 - ARVO Member -in-Training Research Award, 2018
 - Dana Center for Preventive Ophthalmology Student Award, 2018
 - Stuart and Ellie Fine Award for Clinical Research in Ophthalmology, 2019
- 2017-present Julia Whiteside, MD, DrPH Student, JHSPH, Role: Doctoral Thesis Advisor
- 2018-present Sophie Gu, Medical Student, JHU SOM, Role: Research Advisor
- 2019-present Priyanka Kumar, Medical Student, JHU SOM, Role: Research Advisor
- 2019 Kayla Swiatek, Medical Student, University of Kentucky, Role: MSTAR Research Advisor

Masters Advisees /Mentees

- 2015-2016 Paulomi Dave, MPH Student, JHSPH, Role: MPH Capstone Advisor
- Publications: OR33
- 2015-2016 Mohamud Qadi, MPH Student, JHSPH, Role: MPH Capstone Advisor
- 2017-2018 Ahmed Shakarchi, MPH Student, JHSPH, Role: MPH Capstone Advisor
- Aging Research Showcase Poster Contest winner, 2018
 - Research Fellow, JHSOM 2018
- 2018-present Kamran Rahmatnejad, MPH Student, JHSPH, Role: MPH Academic Advisor
- 2018-2019 Niranjani Nagarajan, MPH Student, JHSPH, Role: Practicum Mentor
- 2018-2019 Yi Sun, MPH Student, JHSPH, Role: Practicum Mentor
- 2018-2019 Mina Motaghi, MPH Student, JHSPH, Role: Practicum Mentor

Undergraduate Advisees /Mentees

- 2018-present Annie Zhang, Public Health BS Student, JHU, Role: Research Advisor
- 2018-2019 Yunmeng Wang, Post-Baccalaureate Pre-Med Student, JHU, Role: Medical Research Tutorial Advisor

Thesis Committees

- 2018 Yuan Tzuang, “Links Between Sleep, Cognition and Health Services Use in Older Adults”, Preliminary Oral Examination Committee Member

RESEARCH ACTIVITIES

Research Focus

My research spans three areas. (1) Examining the interrelationship between vision loss and aging. This includes determining the effects of visual impairment and eye disease on physical, cognitive, social functioning, as well as health outcomes, such as mortality, comorbidity, and frailty. The goal is to develop interventions that will improve aging outcomes in older adults with eye disease and visual impairments. (2) Improving access to care for older adults with visual impairments, including increasing the utilization of low vision rehabilitation services. (3) Enhancing the representation of persons with disabilities in science and medicine, and including developing strategies to promote the inclusion, recruitment and representation of persons with disabilities in these settings.

Research Program Building / Leadership

2017-present *Co-Organizer*, Cognitive and Sensory Loss Working Group
JHU Center on Aging and Health

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

2018-present Departmental Representative, Faculty Senate, JHSOM
2018-present Junior Faculty Resources Advisory Council, JHSOM
2019-present Vice Chair, Faculty Senate, JHSOM
2019-present Assembly of the Faculty Body Leaders, JHU

Editorial Activities

Journal peer review activities

2013-present Ophthalmic Epidemiology
2014-present Ophthalmology
2014-present Journal of Gerontology: Medical Sciences
2015-present JAMA Ophthalmology
2015-present British Journal of Ophthalmology
2015-present BMC Ophthalmology
2016-present Investigative Ophthalmology and Visual Science
2018-present Journal of the American Geriatrics Society

Other peer review activities

2016-2017 Grant Review Committee, Prevent Blindness America

Advisory Committees, Review Groups/Study Sections

2017-2018 Steering Committee, Vision Health Initiative, Centers for Disease Control and Prevention
2018 Steering Committee, Center for Vision and Public Health, Prevent Blindness America
2019-present Advisory Committee, Center for Vision and Public Health, Prevent Blindness America
2019-present Committee Member, Aging and Vision Loss Coalition, VisionServe Alliance
2019-present Committee Member, Lancet Commission on Global Eye Health
2019-present Advisory Committee and Delegate, World Congress on Disability in Medicine

Professional Societies

2009-present Association for Research in Vision and Ophthalmology
2013-present Gerontological Society of America
2017-present Society for Epidemiologic Research

Conference Organizer

National

- 2016-2017 *Steering Committee*, U13 Conference: Sensory Impairment and Cognitive Decline, NIA/American Geriatrics Society
- 2019-present *Founder and Chair*, Vision and Eye Health Interest Group, Gerontological Society of America

International

- 2014-2017 *Member*, Advocacy and Outreach Committee, Association for Research in Vision and Ophthalmology
- 2016-2019 *Member*, Annual Meeting Program Committee, Association for Research in Vision and Ophthalmology
- 2018-2019 *Chair*, Epidemiology and Clinical Research, Annual Meeting Program Committee, Association for Research in Vision and Ophthalmology

Session Chair

National

- 2017 *Co-Chair*, Comorbid Sensory and Cognitive Impairment: What we do (not) know, U13 Conference: Sensory Impairment and Cognitive Decline, Bethesda, MD
- 2018 *Co-Chair*, Refining Concepts in Frailty, Gerontological Society of America, Boston, MA
- 2019 *Co-Chair*, Measuring and Interpreting Cognitive Functioning in the Context of Sensory Deficits, Society for Epidemiology Research, Minneapolis, MN

International

- 2018 *Co-Chair*, Implementation Science in Ophthalmology, Association for Research in Vision and Ophthalmology, Honolulu, HI
- 2019 *Co-Chair*, Aging with Vision Loss: Understanding the aging consequences of visual impairment, Association for Research in Vision and Ophthalmology, Vancouver, BC

RECOGNITION

Awards, Honors

- 2009 *Dana Center for Preventive Ophthalmology Student Award*, Wilmer Eye Institute, JHSOM
- 2010-2011 *National Eye Institute Clinical Trials Training Program in Vision Research*, JHSPH
- 2011-2013 *National Institute on Aging Epidemiology & Biostatistics of Aging Training Grant*, JHSPH
- 2012 *Teaching Assistant Award*, JHSPH
- 2015 *Loan Repayment Program Recipient*, NEI/NIH
- 2016 *Travel Grant to the Association for Research in Vision and Ophthalmology Annual Conference*, Readers Digest Partners for Sight Foundation
- 2017 *Envision Atwell Low Vision Research Award Runner-Up*, Envision University
- 2017 *Loan Repayment Renewal Program Recipient*, NEI/NIH
- 2018 *Emerging Women's Leadership Program*, JHSOM
- 2018 *Loan Repayment Renewal Program Recipient*, NEI/NIH
- 2019 *Most Promising Assistant Professor Award*, Wilmer Eye Institute, JHSOM

Invited Talks

JHMI/Regional

- 2009 *The impact of fish and shellfish consumption on age-related macular degeneration*
Wilmer Residents Association Clinical Conference, JHSOM
- 2014 *The role of visual impairment on functioning and quality of life of older adults*
Center on Aging and Health, JHSOM
- 2017 *Vision loss and cognitive function in older adults*
National Institutes of Health, Neuroimaging Meeting, Baltimore, MD
- 2017 *Aging with vision loss*
Lions Club Low Vision Research Foundation Rally, Baltimore, MD
- 2018 *Integrating patients with low vision into the research process*
Low Vision 360, Baltimore, MD

- 2018 *Visual Impairment and Frailty: Focusing on an understudied relationship*
Geriatric Medicine Grand Rounds, JHSOM
- 2018 *Visual Impairment and Aging*
Wilmer Eye Institute, JHSOM
- 2018 *Visual Impairment and Driving: Considerations for Older Adults*
AAA LongROAD Driving Study Annual Meeting, Baltimore, MD
- 2018 *Broadening the Scope of Diversity Initiatives to Include Persons with Disabilities*
Diversity Leadership Council, JHU
- 2019 *Vision Impairment and Aging*
Baltimore Chapter of the Maryland Association of Hospital Auxiliary Committee, Baltimore, MD
- 2019 *Vision Impairment and Cognitive Decline*
Dementia Consortium, JHSOM
- 2019 *Characteristics of patients with low vision and the physical and emotional challenges they encounter*
District 22 Lions Club Convention, Ocean City, MD
- Planned
- 2019 *Moving Beyond Mission Statements: Enhancing the Inclusion of Persons with Disabilities at JHU*
Diversity Leadership Council, JHU
- 2019 *Vision Impairment and Aging*
Maryland Association of Hospital Auxiliary Committee Meeting, Fredrick, MD
- 2019 *Visual Impairment and Aging*
A Woman's Journey Conference, Baltimore, MD
- 2019 *Losing Vision and Gaining Perspective*
Department of Medicine Grand Rounds, JHSOM
- National
- 2013 *How visual impairment impacts mobility disability*
Department of Ophthalmology Grand Rounds, University of Colorado, Denver, CO
- 2013 *Visual impairment and mobility disability*
National Institute on Aging, Bethesda, MD
- 2015 *Why is my 20/20 patient complaining of reading difficulty?*
American Glaucoma Society, San Diego, CA
- 2017 *NASEM recommendations to the CDC*
Focus on Eye Health National Summit, Washington, DC
- 2018 *Technology for low vision: Room for improvement*
American Academy of Ophthalmology, Chicago, IL
- 2019 *The social implications of vision loss among older adults*
American Society on Aging, New Orleans, LA
- 2019 *Aging with Visual Impairment*
Prevent Blindness National Eye Summit, Washington, DC
- 2019 *Losing Vision and Gaining Perspective*
Keynote Speaker, Prevent Blindness National Eye Summit, Washington, DC
- 2019 *Aging with Vision Loss: Using perspective to drive research*
Department of Family Medicine, University of Michigan, Ann Arbor, MI
- 2019 *Cognitive Consequences of Vision Loss: Examining the complex relationship between visual impairment and cognition*
Kellogg Eye Center, University of Michigan, Ann Arbor, MI
- Planned
- 2019 *Losing Vision and Gaining Perspective*
School of Medicine, University of Maryland
- 2019 *How does the Mouth, Eyes and Ears Impact Social Isolation*
Gerontological Society of America, Austin, TX

International

- 2018 *How to talk to patients with visual impairments*
Association for Research in Vision and Ophthalmology, Honolulu, HI
- 2019 *Mobility and falls under low light levels*
Association for Research in Vision and Ophthalmology, Vancouver, BC

Planned

- 2020 *Vision and Cognition*
Keynote speaker, 19th Symposium sur l'incapacité visuelle et la réadaptation, Montreal

OTHER PROFESSIONAL ACCOMPLISHMENTS

Posters

- 2010 *Dietary patterns and age-related macular degeneration within the Salisbury Eye Evaluation Study*
Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL
- 2011 *Impact of repeated mass drug administration on infection with *C.trachomatis* in a longitudinal cohort of children*
Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL
- 2012 *Association between cognitive resources and reading speed among patients with glaucoma and dry eye*
Association for Research in Vision and Ophthalmology, Fort Lauderdale, FL
- 2013 *Is vision impairment just another comorbid condition?*
Association for Research in Vision and Ophthalmology, Seattle, WA
- 2014 *Does walking speed mediate the association between visual impairment and mobility disability?*
Association for Research in Vision and Ophthalmology, Orlando, FL
- 2016 *Is vision impairment just another comorbid condition?*
Workshop on Pathways, Contributors and Correlates of Functional Impairment across Specialties, Washington, DC
- 2016 *Short and sustained reading speeds in AMD patients: An interaction with cognitive status*
Association for Research in Vision and Ophthalmology, Seattle, WA
- 2017 *Study of the uptake of low vision rehabilitation services: Prevalence and Incidence of Low Vision among Patients Seeking Ophthalmic Care*
Association for Research in Vision and Ophthalmology, Baltimore, MD
- 2019 *Visual Impairment and Frailty: An important yet understudied relationship*
International Conference on Frailty and Sarcopenia, Miami, FL
- 2019 *Digging Deeper into the Vision-Cognition Relationship: Determining associations between vision and cognitive domains*, Association for Research in Vision and Ophthalmology, Vancouver, BC
- 2019 *Visual Impairment and Engagement in Cognitively Stimulating Activities*
Gerontological Society of America, Austin, TX

Oral/Podium Presentations

- 2014 *Visual impairment and mobility in older adults: The Baltimore Longitudinal Study of Aging*
Gerontological Society of America, Washington DC
- 2018 *Visual impairment and frailty: The Women's Health and Aging Study*
Association for Research in Vision and Ophthalmology, Honolulu, HI
- 2018 *Visual impairment and frailty: The Women's Health and Aging Study*
Gerontological Society of America, Boston, MA
- 2019 *Inconsistencies in assessing cognitive functioning in individuals with sensory impairment*
Society for Epidemiologic Research, Minneapolis, MN
- 2019 *Vision Loss and the Healthcare System*
Gerontological Society of America, Austin, TX