

Curriculum Vitae

Emily W. Gower, PhD

PERSONAL:

135 Dauer Drove
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Chapel Hill, NC 27599-7435
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EDUCATION:

- 2002 **Doctor of Philosophy**
Epidemiology with a concentration in Clinical Trials
Johns Hopkins Bloomberg School of Public Health
Baltimore, MD
- 1994 **Bachelor of Arts**
Major in Economics, Minor in Environmental Science
University of Pennsylvania
Philadelphia, PA

PROFESSIONAL EXPERIENCE:

Academic Appointments

- 2016 – Present Associate Professor, Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina
- 2012 – Present Adjunct Associate Professor in Ophthalmology, Johns Hopkins School of Medicine, Baltimore, Maryland
- 2016 – Present Adjunct Associate Professor, Department of Epidemiology and Prevention, Wake Forest Public Health Sciences, Wake Forest Health Sciences, Winston-Salem, North Carolina
- 2015 – 2016 Joint Appointment, Translational Science Institute, Wake Forest School of Medicine, Winston-Salem, North Carolina
- 2013 – 2016 Associate Professor with Tenure, Department of Epidemiology and Prevention, Wake Forest Public Health Sciences, Wake Forest Health Sciences, Winston-Salem, North Carolina
- 2011 – 2016 Joint Appointment, Department of Ophthalmology, Wake Forest School of Medicine, Winston-Salem, North Carolina
- 2011 – 2013 Associate Professor, Department of Epidemiology and Prevention, Wake Forest Public Health Sciences, Wake Forest Health Sciences, Winston-Salem, North Carolina
- 2009 – 2011 Joint Appointment, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health; Baltimore, Maryland
- 2009 – 2011 Associate Professor, Dana Center for Preventive Ophthalmology, Wilmer Eye Institute, Johns Hopkins University School of Medicine; Baltimore, Maryland

2002 – 2009 Assistant Professor, Dana Center for Preventive Ophthalmology, Wilmer Eye Institute, Johns Hopkins University School of Medicine; Baltimore, Maryland

Professional

2002 Research Assistant, Dana Center for Preventive Ophthalmology, Johns Hopkins University School of Medicine; Baltimore, Maryland

1999 – 2001 Research Assistant, Center for Clinical Trials, Johns Hopkins University School of Hygiene and Public Health; Baltimore, Maryland

1996 – 1997 Economist, Triangle Economic Research, LLC; Research Triangle Park, North Carolina

1995 – 1996 Associate Economist, Triangle Economic Research, LLC; Research Triangle Park, NC

1994 – 1995 Analyst, Economics Group, Deloitte and Touche, LLP; Washington, District of Columbia

HONORS:

2015 Wake Forest CTSA Mentorship Training Program

2009 Johns Hopkins Women’s Leadership Development Program: Nominated and selected to participate in a year-long program focused on refining skills to become a highly-effective leader

2008 Research to Prevent Blindness Ernest and Elizabeth Althouse Special Scholars’ Award \$70,000 unrestricted award for research in trachoma

2008 Wilmer Scholar: \$100,000 unrestricted award for research

2007 Best paper by a young investigator, 4th US Symposium on Ocular Epidemiology, Sponsored by the National Eye Institute

2006 Director’s Discovery Fund, Wilmer Eye Institute: \$10,000 awarded for research in trachoma

2002 Dana Center Student Award: Award given to the student who exhibits the most promise for a career in preventive ophthalmology research. Dana Center for Preventive Ophthalmology, Johns Hopkins School of Medicine

1998 – 2002 Pre-doctoral Fellow, National Eye Institute: Clinical Trials Training Grant for Pre-doctoral Fellows, Johns Hopkins Bloomberg School of Public Health

1997 – 1998 Rotary Ambassadorial Scholar, Nicosia, Cyprus: One-year, all-expenses-paid scholarship to study abroad

MEMBERSHIPS:

2002 – Present Association for Research in Vision and Ophthalmology

2009 – 2011 International Society for Pharmacoepidemiology

2002 – 2011 International Society for Geographic and Epidemiological Ophthalmology

2000 – 2010 Society for Clinical Trials

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP:

Book Chapters

1. Freeman EE and **Gower EW**. Visual Impairment. In Goldman MB, Troisi R and Rexrode KM. 2nd edition. 2013 Women and Health. (10 pages).

2. **Gower EW** and West SK. Age-related Cataract. In Johnson GJ, Minassian DC, Weale RA, West SK. *Epidemiology of Eye Disease*. 3rd edition. 2012 London: Imperial College Press. (20 pages)

*Peer-Reviewed Manuscripts (Notes: *Indicates student advisee. Maiden name is West)*

1. McCrory MC, Spaeder MC, **Gower EW**, Nakagawa TA, Simpson SL, Coleman MA, Morris PE. Time of Admission to the Pediatric Intensive Care Unit and Mortality. *Peds Critical Care Medicine*. *In press*.
2. Asfar T, Lee DJ, Lam BL, Murchison AP, Mayro EL, Owsley C, McGwin G, **Gower EW**, Friedman DS, Saadine J. Evaluation of a Web-based Training in Smoking Cessation Targeting Eye Care Professionals. *Health Education and Behavior* 2017. *In press*.
3. Kling JM, Manson JE, Naughton MJ, Temkit M, Sullivan SD, **Gower EW**, Hale L, Weitlauf JC, Nowakowski S, Crandall CJ. Association of Sleep Disturbance and Sexual Function in Postmenopausal Women. *Menopause* 2017. *In press* (9 pages).
4. Murchison AP, Haller JA, Mayro E, Hark L, **Gower E**, Huisingh C, Rhodes L, Friedman DS, Lee DJ, Lam BL & for the Innovative Network for Sight (INSIGHT) Research Group (2017): Reaching the Unreachable: Novel Approaches to Telemedicine Screening of Underserved Populations for Vitreoretinal Disease. *Current Eye Research* 2017. DOI: 10.1080/02713683.2017.1297463 (8 pages).
5. **Gower EW**, Lindsley K, Tulenko SE, Nanji AA, *Leyngold I, McDonnell PJ. Perioperative antibiotics for prevention of acute endophthalmitis after cataract surgery (Review). *Cochrane Database of Systematic Reviews* 2017; Issue 2 (43 pages).
6. *Miller JJ, Morris P, **Gower EW**, Young M. Experience in Decision Conflict and Regret among Surrogate Decision Makers in the Medical Intensive Care Unit. *J Critical Care* 2016; 32: 79-84 PMID: 26949832
7. *Schein Y, Harding JC, Merbs SL, Cassard SD, Mabula K, Othman MS, West SK, **Gower EW**. Corneal Sensitivity and Presence of Pathogenic Organisms among Participants Who Have Undergone Trichiasis Surgery Differ by Surgical Outcome. *Cornea* 2016; 35 (4): 513-18 PMID: 26890661
8. Effeo VS, Katula JA, Kirk JK, Pedley CF, Bollhalter LY, Brown WM, Savoca MR, Jones ST, Baek J, Bertoni AG, **LIFT Diabetes Research Team**. The Use of Electronic Medical Records for Recruitment in Clinical Trials: Findings from the Lifestyle Intervention for Treatment of Diabetes Trial. *Trials* 2016. 17(1):496 (10 pages).
9. Murchison AP, Friedman DS, **Gower EW**, Haller J, Lam BL, Lee DJ, McGwin G, Owsley C, Saadine J; INSIGHT Study Group. A Multi-Center Diabetes Eye Screening Study in Community Settings: Study Design and Methodology. *Ophthalmol* 2016; 23 (2): 109-15 PMID 26949832
10. *Oktavec KC, Cassard SD, Harding JC, Othman MS, Merbs SL, West SK, **Gower EW**. Patients' Perceptions of Trichiasis Surgery: Results from the Partnership for Rapid Elimination of Trachoma Surgery Clinical Trial. *Ophthalmol* 2015; 22 (3): 153-61 PMID: 25525820
11. Owsley C, McGwin G, Lee DJ, Lam BL, Friedman DS, **Gower EW**, Haller JA, Hark LA, Saadine J. Diabetes Eye Screening in Urban Settings Serving Minority Populations: Detection of Diabetic Retinopathy and Other Ocular Findings Using Telemedicine. *JAMA Ophthalmol* 2015; 133 (2): 174-81 PMID: 25393129
12. Merbs SL, Oktavec KC, Munoz BE, Perlini EF, West SK, Othman MS, **Gower EW**. Lower Post-operative Scar Height is Associated with Increased Post-operative Trichiasis One Year after Bilamellar Tarsal Rotation Surgery. *Ophthalmol* 2015; 22 (3): 200-7 PMID:26158578
13. **Gower EW**, Keay LJ, Stare DE, Arora P, Cassard SD, Behrens A, Tielsch JM, Schein OD. Characteristics of Endophthalmitis Following Cataract Surgery in the United States Medicare Population. *Ophthalmol* 2015; 122 (8): 1625-32 PMID:26045364

14. Burton M, Ali E, Ho D, **Gower EW**. Interventions for trichomatous trichiasis. *Cochrane Database Syst Rev* 2015: CD004008
15. Jampel HD, Cassard SD, Ramulu PY, Friedman DS, Shekhawat NS, Whiteside-de Vos J, Quigley HA, **Gower EW**. Trends Over Time and Regional Variations in the Rate of Laser Trabeculoplasty in the Medicare Population. *JAMA Ophthalmol* 2014; 132 (6): 685-90 PMID: 24744059
16. Do DV, Bressler SB, Cassard SD, **Gower EW**, Tabandeh H, Jefferys JL, Bressler NM. Ranibizumab for Macular Telangiectasia Type 2 in the Absence of Subretinal Neovascularization. *Retina* 2014; 34 (10): 2063-71 PMID: 24978428
17. *McCrary MC, **Gower EW**, Simpson SL, Nakagawa TA, Mou SS, Morris PE. Impact of Off-Hours Admissions to Pediatric Intensive Care on Mortality. *Pediatrics* 2014; 134 (5): e1345-53 PMID: 25287463
18. **Gower EW**, Kello AB, Kollmann KMH. Training Trichiasis Surgeons: Ensuring Quality. *Comm Eye Health* 2014; 27 (87): 58
19. **Gower EW**, West SK, Harding JC, Cassard SD, Munoz BE, Othman MS, Kello AB, Merbs SL. TT Clamp versus Standard Bilamellar Tarsal Rotation Instrumentation for Trichiasis Surgery: Results of a Randomized Clinical Trial. *JAMA Ophthalmol* 2013; 131 (3): 294-301 PMID: 23494035
20. *Lee BS, Munoz BE, West SK, **Gower EW**. Functional Improvement after 1- and 2-Eyed Cataract Surgery in the Salisbury Eye Evaluation. *Ophthalmol* 2013; 120 (5): 949-55 PMID: PMC3640760
21. Friedman DS, Cassard SD, Williams SK, Baldonado K, White RA, **Gower EW**. Outcomes of a Vision Screening Program for Underserved Populations in the United States. *Ophthalmol Epidemiol* 2013; 20 (4): 201-11 PMID: 23865601
22. **Gower EW**, Lindsley K, Nanji AA, *Leyngold I, McDonnell PJ. Peri-operative antibiotics for prevention of acute endophthalmitis after cataract surgery (Protocol). *Cochrane Database of Systematic Reviews* 2013; (7): CD006364
23. **Gower EW**, *Silverman E, Cassard SD, Williams SK, Baldonado K, Friedman DS. Barriers to Attending an Eye Examination after Vision Screening Referral within a Vulnerable Population. *J Health Care Poor Underserved* 2013; 24 (3): 1042-52 PMID: 23974379
24. Quigley HA, Cassard SD, **Gower EW**, Ramulu PY, Jampel HD, Friedman DS. The Cost of Glaucoma Care Provided to Medicare Beneficiaries from 2002-2009. *Ophthalmology* 2013; 120 (11): 2249-57 PMID: 23769330.
25. *Keay L, **Gower EW**, Cassard SC, Tielsch JM, Schein OD. Post-cataract Surgery Endophthalmitis in 2003-2004 in the United States: an Analysis of the Complete Medicare Database of Cataract Surgeries. *Ophthalmol* 2012; 119 (5): 914-22 PMID: PMC3343208
26. Do DV, **Gower EW**, Cassard SD, Boyer D, Bressler NM, Bressler SB, Heier J, Jefferys JL, Singerman L, Solomon SD. Detection of New Onset Choroidal Neovascularization using Optical Coherence Tomography: the AMD DOC Study. *Ophthalmol* 2012; 119 (4): 771-8 PMID: 22297028
27. Merbs SL, Kello AB, Gelema H, West SK, **Gower EW**. TT Clamp: A Surgical Instrument Designed to Improve the Outcome of the Bilamellar Tarsal Rotation Procedure. *Arch Ophthalmol* 2012; 130 (2): 220-3 PMID: 22332216
28. Woreta F, Munoz B, **Gower EW**, Alemayehu W, West S. Three-year Outcomes of the Surgery for Trichiasis, Antibiotics to Prevent Recurrence Trial. *Arch Ophthalmol* 2012; 130 (4): 427-31 PMID: PMC3898462
29. Cassard SD, Quigley HA, **Gower EW**, Friedman DS, Ramulu PY, Jampel HD. Regional Variations and Trends in the Prevalence of Diagnosed Glaucoma in the Medicare Population. *Ophthalmol* 2012; 119 (7): 1342-51 PMID: 22480741

30. **Gower EW**, West SK, Cassard SD, Munoz BE, Harding JC, Merbs SL. Definitions and Standardization of a New Grading Scheme for Eyelid Contour Abnormalities after Trichiasis Surgery. *PLoS Negl Trop Dis* 2012; 6 (6): e1713 PMID: PMC3383763
31. Merbs SL, Harding JC, Cassard SD, Munoz BE, West SK, **Gower EW**. Relationship between Post-operative Appearance and 6-Week Operative Outcome in Trichiasis Surgery. *PLoS Negl Trop Dis* 2012; 6 (7): e1718 PMID: PMC3393656
32. Kaleem MA, Munoz BE, Murno CA, **Gower EW**, West SK. Visual Characteristics of Elderly Night Drivers in the Salisbury Eye Evaluation Driving Study. *Invest Ophthalmol Vis Sci* 2012; 53 (9): 5161-7 PMID: 22743327
33. *Shan SJ, Wang J, **Gower EW**, Miller NR. Pre-residency characteristics associated with post-residency academic productivity in a cohort of ophthalmology residents. *J Academic Ophthalmol* 2012; 5 (1): 24-36
34. Schein OD, Cassard SD, Tielsch JM, **Gower EW**. Cataract Surgery among Medicare Beneficiaries. *Ophthalm Epidemiol* 2012; 19 (5): 257-64 PMID: 22978526
35. Munro CA, Winicki JM, Schretlen DJ, **Gower EW**, Turano KA, Munoz BE, Keay L, Bandeen-Roche K, West SK. Sex Differences in Cognition in Healthy Elderly Individuals. *Neuropsychol Dev Cogn B Aging Neuropsychol Cogn* 2012; 19 (6): 759-68 PMID: PMC3518851
36. *Woodfield A, **Gower EW**, Ramanathan S. Intra-operative Complication Rates between Second and Third-year Ophthalmology Residents: A Five-Year Comparison. *Ophthalmol* 2011; 118 (5): 954-8 PMID: 21539981
37. *Keay L, **Gower EW**, Oechsler RA, Iovieno A, Cavanagh HD, Matoba A, Hammersmith KM, Stulting RD, Lee S, Tuli SS, Mauger TF, Colby KA, Irvine JA, Schein OD. Clinical and microbiological characteristics of fungal keratitis in the United States, 2001-2007: A Multi-center Study. *Ophthalmol* 2011; 118 (5): 920-6 PMID: PMC3673009
38. **Gower EW**, Merbs SL, Munoz BE, Bedri A, Alemayehu W, Imeru A, West SK. Rates and risk factors for unfavorable outcomes 6 weeks after trichiasis surgery. *Invest Ophthalmol Vis Sci* 2011; 52 (5): 2704-11 PMID: PMC3088559
39. Wolle MA, Cassard SD, **Gower EW**, Munoz BE, Wang J, Alemayehu WA, West SK. Impact of Trichiasis Surgery on Physical Functioning in Ethiopian Patients: STAR Trial. *Am J Ophthalmol* 2011; 151 (5): 850-7 PMID: PMC3079795
40. May WN, Castro-Combs J, Kashiwabuchi RT, Hertzog H, Tattiyakul W, Kahn YA, Hirai F, **Gower EW**, Behrens A. Bacterial-sized particle inflow through sutured clear corneal incisions in a laboratory human model. *J Cataract Refract Surg* 2011; 37 (6): 1140-6 PMID: 21497050
41. **Gower EW**, Cassard SD, Bass EB, Schein OD, Bressler NM. A Cost-effectiveness Analysis of Three Treatments for Age-related Macular Degeneration. *Retina* 2010; 30 (2): 212-21 PMID: 19940805
42. Munro CA, Jefferys J, **Gower EW**, Munoz B, Lyketsos CG, Keay L, Turano KA, Bandeen-Roche K, West SK. Predictors of Lane Change Errors Among Elderly Drivers. *J Am Geriatr Soc* 2010; 58 (3): 457-64 PMID: PMC3072714
43. Chang MA, Do DV, Bressler SB, Cassard SD, **Gower EW**, Bressler NM. Prospective One-year Study of Ranibizumab for Predominantly Hemorrhagic Choroidal Neovascular Lesions in Age-related Macular Degeneration. *Retina* 2010; 30 (8): 1171-6 PMID: 20827138
44. May WN, Castro-Combs J, Quinto G, Kashiwabuchi R, **Gower EW**, Behrens A. Standardized Seidel's Test for the Evaluation of Different Configurations of Cataract Sutureless Incisions. *J Cataract Refract Surg* 2010; 36 (6): 1011-7 PMID: 20494775

45. **Gower EW**, Keay L, Oechsler R, Iovieno A, Alfonso E, Matoba A, Colby K, Tuli S, Patel S, Lee S, Irvine J, Stulting D, Mauger T, Schein OD. Trends in Fungal Keratitis in the United States 2001 to 2007. *Ophthalmol* 2010; 117 (12): 2263-7 PMID: 20591493
46. Keay L, Munoz BE, Turano KA, Hassan SE, Munro C, Duncan D, Baldwin KC, Jasti S, **Gower EW**, and West SK. Visual and cognitive deficits predict stopping or restricting driving: the Salisbury Eye Evaluation Driving Study (SEEDS). *Invest Ophthalmol* 2009; 50 (1): 107-13 PMCID: PMC2633220
47. Turano, KA Munoz BE, Hassan SE, Duncan DD, **Gower EW**, Bandeen Roche K, Keay L, Munro CA, West SK. Poor Sense of Direction is Associated with Constricted Driving Space in Older Drivers. *J Gerontol B Psychol Sci Soc Sci* 2009; 64 (3): 348-55 PMCID: PMC2670254
48. Keay L, Jasti S, Munoz B, Turano KA, Munro CA, Duncan DD, Baldwin K, Bandeen-Roche KJ, **Gower EW**, West SK. Urban and Rural Differences in Drivers' Failure to Stop at Stop Signs. *Accid Anal Prev* 2009; 41 (5): 995-1000 PMCID: PMC2726825
49. Spencer CS, Frick KD, **Gower EW**, Kempen JH, Wolff JL. Disparities in Access to Medical Care for Individuals with Visual Impairment. *Ophthalmol Epidemiol* 2009; 16 (5): 281-8 PMID: 19874107
50. Woreta TA, Munoz B, **Gower EW**, Alemayehu W, West SK. The impact of trichiasis surgery on visual acuity outcomes in Ethiopia. *Arch Ophthalmol* 2009; 127 (11): 1505-10 PMID: 19901217
51. Bradley EA, **Gower EW**, Bradley DJ, Meyer DR, Cahill KV, Custer PL, Houlik DE, Woog John J. Orbital Radiation for Graves Ophthalmopathy, A Report by the American Academy of Ophthalmology. *Ophthalmol* 2008; 115 (2): 398-409
52. Sodhi A, Leung L, Do DV, **Gower EW**, Schein OD, Handa JT. Recent Trends in Management of Rhegmatogenous Retinal Detachment. *Survey of Ophthalmol* 2008; 53 (1): 50-67
53. *Charkoudian L, **Gower EW**, Solomon SD, Schachat AP, Bressler NM, Bressler SB. Vitamin Usage Patterns in the Prevention of Advanced Age-related Macular Degeneration. *Ophthalmol* 2008; 115 (6): 1032-38 PMID: 18096234
54. Nguyen-Khoa BA, Goehring EL, Werther W, **Gower EW**, Do DV, Jones JK. Hospitalized Cardiovascular Diseases in Neovascular Age-Related Macular Degeneration. *Arch Ophthalmol* 2008; 126 (9): 1280-6 PMID: 18779491
55. Berhane Y, Worku A, Bejiga A, Adamu L, Alemayehu W, Bedri A, Haile Z, Ayalew A, Adamu Y, Gebre T, Kebede TD, **West ES**, West SK. Prevalence of Trachoma in Ethiopia. *Ethiop K Health Dev* 2007; 21 (3): 211-15
56. Berhane Y, Worku A, Bejiga A, Adamu L, Alemayehu W, Bedri A, Haile Z, Ayalew A, Adamu Y, Gebre T, Kebede TD, **West ES**, West SK. Prevalence and Causes of Blindness and Low Vision in Ethiopia. *Ethiop J Health Dev* 2007; 21 (3): 204-10
57. Frick KD, **Gower EW**, Kempen JH, Wolff JL. Economic Impact of Visual Impairment and Blindness in the United States. *Arch Ophthalmol* 2007; 125 (4): 544-50
58. Smith AN, Broman AT, Munoz BE, Alemayehu W, West SK, **Gower EW**. Relationship between Trachoma and Acute and Chronic Malnutrition in Children in Rural Ethiopia. *J Trop Pediatr* 2007; 53 (5): 308-12
59. West SK, Alemayehu W, Munoz B, Imeru A, **Gower EW**. Azithromycin Prevents Recurrence of Severe Trichiasis Following Trichiasis Surgery: STAR Trial. *Ophthalmol Epidemiol* 2007; 14 (5): 273-7
60. **West ES**, Munoz B, Imeru A, Alemayehu W, Melese M, West SK. The Association Between Epilation and Corneal Opacity Among Eyes with Trichomatous Trichiasis. *Br J Ophthalmol* 2006; 90 (2): 171-4
61. West SK, **West ES**, Alemayehu W, Melese M, Munoz B, Imeru A, Worku A, Gaydos C, Meinert CL, Quinn T. Single Dose Azithromycin Prevents Trichiasis Recurrence following Surgery: Randomized Trial in Ethiopia. *Arch Ophthalmol* 2006; 124 (3): 309-14

62. **Gower EW**, Solomon AW, Burton MJ, Aguirre A, Munoz BE, Bailey RW, Holland M, Makalo P, Massae P, Mkocha H, Mabey DC, West SK. Chlamydial Positivity of Nasal Discharge at Baseline is Associated with Ocular Chlamydial Positivity Two Months Following Azithromycin Treatment. *Invest Ophthalmol Vis Sci* 2006; 47 (11): 4767-71
 63. Merbs SL, West SK, **West ES**. Pattern of Recurrence of Trichomatous Trichiasis Following Surgery: Surgical Technique as an Explanation. *Ophthalmol* 2005; 112 (4): 705-9
 64. **West ES**, Alemayehu W, Munoz B, Melese M, Imeru A, West SK. Surgery for Trichiasis, Antibiotics to Prevent Recurrence: STAR Clinical Trial Methodology. *Ophthalmol Epidemiol* 2005; 12 (4): 279-86
 65. **West ES**, Behrens A, McDonnell PJ, Tielsch JM, Schein OD. The Incidence of Endophthalmitis Following Cataract Surgery Among the US Medicare Population Increased Between 1994-2001. *Ophthalmol* 2005; 112 (8): 1388-94
 66. Melese M, **West ES**, Alemayehu W, Munoz B, Worku A, Gaydos C, West SK. Characteristics of Trichiasis Patients Presenting for Surgery in Rural Ethiopia. *Br J Ophthalmol* 2005; 89 (9): 1084-8
 67. **West ES**, Munoz B, Mkocha H, Holland MJ, Aguirre A, Solomon AW, Bailey R, Foster A, Mabey D, West SK. Mass Treatment and the Effect on the Load of *C. trachomatis* Infection in a Trachoma Hyper-endemic Community. *Invest Ophthalmol Vis Sci* 2005; 46 (1): 83-7
 68. **West ES**, Mkocha H, Munoz B, Mabey D, Foster A, Bailey R, West SK. Risk Factors for Trichiasis Recurrence in a Trachoma-Endemic Area. *Invest Ophthalmol Vis Sci* 2005; 46 (2): 447-53
- Cummings KJ, Lee SM, **West ES**, Cid J, Fein SF, Aoki Y, Sulkowski MS and Goodman SN. Interferon and Ribavirin vs. Interferon Alone in the Re-treatment of Chronic Hepatitis C Previously Nonresponsive to Interferon: A Meta-analysis of Randomized Trials. *JAMA* 2001; 285 (2): 193-9 PMID: 11176813
69. Dunford RW, Johnson FR and **West ES**. Whose Losses Count in Natural Resource Damages? *Contemporary Economic Policy* 1997; 15 (3): 77-87

Other Peer-reviewed Communication

1. **Gower EW**, Keay L, Cassard SD, Tielsch JM, Schein OD. Author reply. *Ophthalmology* 2012; 119 (12): 2656-7
2. Keay L, **Gower EW**, Cassard SD, Tielsch JM, Schein OD. Author reply. *Ophthalmology* 2012; 119 (11): 2416

Reviews, Invited Editorials, and Invited Publications

1. **Gower EW**, Lindsley K, Nanji AA, Leyngold I, McDonnell PJ. Perioperative antibiotics for prevention of acute endophthalmitis after cataract surgery. *Cochrane Database Syst Rev* 2013; 7: CD00636
2. **Gower EW**, Whiteside-de Vos J, Cassard SD, Shekhawat NS, Friedman DS. The Medicare Glaucoma Screening Benefit: A Critical Program that Misses its Target. *Am J Ophtho* 2013; 156 (2): 2110212.e2
3. **Gower EW**. Solving the Trachoma Elimination Puzzle, One Piece at a Time. *The Lancet* 2012; 379 (9811): 102-3
4. **Gower EW**. Anti-VEGF Therapies for the Treatment of Age-related Macular Degeneration. *Journal of Comparative Effectiveness Research* 2012; 1 (6): 485-8
5. **Gower EW**. Estimating the Incidence of Endophthalmitis Using a National Medical Database. *Ophthalmol Epidemiol* 2008; 15 (6): 357-8
6. **Gower EW**. Trichiasis: Moving towards Elimination. *Int Opht Clin* 2007; 47 (3): 77-86

7. *Abraham AG, Congdon N, **Gower EW**. The New Epidemiology of Cataract. *Ophthalmol Clin N Amer* 2006; 19 (4): 415-25
8. **West ES** and Schein OD. Sunlight and Age-Related Macular Degeneration. *Int Ophthalmol Clin* 2005; 45 (1): 41-7

Monographs and Textbooks

1. **International Coalition for Trachoma Control**. Organizing Trichiasis Surgical Outreach: A Preferred Practice for Program Managers 2015 (28 pages)
2. Johnson GJ, Minassian DC, Weale RA, West SK, **Gower EW**, Kuper H, Lindfield R. The Epidemiology of Eye Disease. London: Imperial College Press 2012 (606 pages)
3. West S, Bedri A, Kim T, **West ES**, Alemayehu W, Mariotti SP. Final Assessment of Trichiasis Surgeons. Geneva: WHO Programme for the Prevention of Blindness 2005 (20 pages)

Invited Presentations

International

- 2015 **Gower EW**. Two presentations: 1) Evidence for the Management of Post-operative Trichiasis and 2) Research on the Contribution of HEAD START to Surgical Management. Global Scientific Meeting on Trachomatous Trichiasis; World Health Organization, Cape Town, South Africa
- 2014 **Gower EW**, Kollmann MK. Oranges and Dummies: A New Approach to an Ancient Problem. World Ophthalmology Congress, Tokyo, Japan
- 2014 **Gower EW**. HEAD START: Surgical Simulation to Improve Trichiasis Surgery Training. Global alliance for Elimination of Blinding Trachoma, Annual Meeting; World Health Organization, Addis Ababa, Ethiopia
- 2012 **Gower EW**. Two presentations: 1) Improving the Trichiasis Surgery Technique and 2) Standards for Outcomes. Global Scientific Meeting on Trachomatous Trichiasis; World Health Organization, Moshi, Tanzania
- 2010 **Gower EW**. Post-cataract Surgery Endophthalmitis. New Zealand Eye Centre, Auckland, NZ

Local/Regional

- 2015 **Gower EW**. Global Health Research. 5th Annual Global Health Symposium, Wake Forest School of Medicine
- 2015 **Gower EW**. 2020 Vision: Efforts to Eliminate Blinding Trachoma in the Next Five Years. Grand Rounds, Department of Pediatrics, Wake Forest School of Medicine
- 2014 **Gower EW**. Low-cost Innovations for Lay Medical Persons. 4th Annual Global Health Symposium: Innovations in Global Health, Wake Forest School of Medicine
- 2014 **Gower EW**. The Pathway to Eliminating Blinding Trachoma. Global Health Education Series, Wake Forest School of Medicine
- 2012 **Gower EW**. Overview of Global Health Research: Nuts and Bolts. 3rd Annual

- 2002 **West ES**, Kayengoya A, Munoz BE, Mkocho H, West SK. The Role of Active Trachoma in Trichiasis Recurrence in a Trachoma-Endemic Area. Program and Abstract from the annual Wilmer Research Meeting, Award presentation, Baltimore, MD

Abstracts, Scientific Exhibits, Presentations at National Meetings

- 2017 Wang T, **Gower E**, Garg S, Pate V, Buse J, Sturmer T, Hong J. Incretins and Diabetic Retinopathy: Real-world Evidence for Safety. International Society for Pharmacoepidemiology, Montreal Canada (August).
- 2017 Wang T, **Gower E**, Garg S, Pate V, Buse J, Sturmer T, Hong J. Incretins and Diabetic Retinopathy: Real-world Evidence for Safety. American Diabetes Association. San Diego, CA (June).
- 2017 **Gower EW**, Dykstra R, Raja A, Merbs SL. Immediate Post-operative Appearance Predicts Long-term Outcomes of Trichiasis Surgery. Society for Epidemiological Research. Seattle, Washington (June).
- 2017 **Gower EW**. Friedman DS, Greven F, Lee D, Lam B, Henderson A, Chen C, Owsley C, McGwin G, Jeenum Z, Haller J, Murchison A, Horan T, Shiuey E. Evaluating the Role of A Comprehensive Eye Exam When Joining Medicare. Association for Research in Vision and Ophthalmology Annual Meeting. Baltimore, MD (May).
- 2017 **Gower EW**, Dykstra R, Raja A, Merbs SL. Immediate Post-operative Appearance Predicts Long-term Outcomes of Trichiasis Surgery. World Health Organization Trachoma Scientific Informal Workshop. Geneva, Switzerland (April).
- 2016 **Gower EW**. Defining Research Priorities to Maximize High-quality Trichiasis Surgery Service Delivery. Coalition for Operational Research on NTDs, Atlanta, GA (November)
- 2016 **Gower EW**. HEAD START: A Surgical Mannequin to Improve Trichiasis Surgery. Coalition for Operational Research on NTDs, Innovation Lab, Atlanta, GA (November)
- 2016 **Gower EW**. Training Trichiasis Surgeons: Evaluation of a Surgical Simulation Tool. International Association for Prevention of Blindness 10th General Assembly, Durban, South Africa (October)
- 2016 **Gower EW**. Clinical Skills Session Using HEAD START in Surgical Practice. International Association for Prevention of Blindness 10th General Assembly, Durban, South Africa (October)
- 2016 Betts BS, **Gower EW**, Lovato J, Ambrosius W, Chew E, Greven CM. What is the Concordance Between Visual Acuity Measured by Primary Care Providers and Ophthalmologists? The ACCORD Eye Study. American Academy of Ophthalmology, Chicago, IL (October)
- 2016 **Gower EW**, Kello AB, Kollmann M, Johnson J. Surgical Simulation in Low-resource Settings Improves Intra-operative Aspects of Trichiasis Surgery Training. Association for Research in Vision and Ophthalmology, Seattle, WA (May)

- 2016 **Gower EW**, Palmer SL, Kello AB, Boubacar K, Abdu M, Hamiden C, Adamou H, Amza A. The Use of a Surgical Simulation Device for Refresher training in Trichiasis Surgery. World Health Organization (WHO), Trachoma Scientific Informal Workshop, Sydney, Australia (April)
- 2016 Merbs SL, Talero L, **Gower EW**. Surgery for Lower Eyelid Trichomatous Trichiasis. World Health Organization (WHO), Trachoma Scientific Informal Workshop, Sydney, Australia (April)
- 2015 Asfar T, Lee DJ, Owsley C, McGwin G, **Gower EW**, Friedman DS, Murchison AP, Mayro E. Training Eye Care Providers in Tobacco Treatment: Building Capacity. Association for Vision and Research in Ophthalmology, Denver, CO (May)
- 2015 Dykstra RS, Merbs SL, Munoz BE, **Gower EW**. Evaluating the Utility of Post-operative Photos as Educational Tools in Trichiasis Surgery Training. Association for Vision and Research in Ophthalmology, Denver, CO (May)
- 2015 **Gower EW**, Munoz BE, Rajak S, Merbs SL, Ali E, Burton MJ. Preoperative Lash Location is an Important Predictor of Long-term Success after Trichiasis Surgery. Association for Vision and Research in Ophthalmology, Denver, CO (May)
- 2015 **Gower EW**, Munoz BE, Rajak S, Merbs SL, Ali E, Burton MJ. Preoperative Lash Location is an Important Predictor of Long-term Success after Trichiasis Surgery. World Health Organization, Trachoma Informal Scientific Workshop, Hammamet, Tunisia (April)
- 2014 Greven C, **Gower EW** for the ACCORD EYE Study Research Group. Lack of Association between Thiazolidinedione Use and Incidence of Diabetic Macular Edema at Four Years Follow-Up in the ACCORD Eye Study. American Academy of Ophthalmology Annual Meeting, Chicago, IL (October)
- 2014 Shekhawat N, Stein J, Pajewski N, **Gower EW**. Bevacizumab versus Ranibizumab for Neovascular AMD: The potential effect of who and where. American Academy of Ophthalmology Annual Meeting, Chicago, IL (October)
- 2014 **Gower EW**, Haller J, Lee D, Owsley C, Saaddine J and the INSIGHT Research Group. Visual Impairment is Common among Participants in a Community-based Diabetic Retinopathy Screening Program. Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2014 McGwin G, **Gower EW**, Haller JA, Lee DK, Owsley Cm Saaddine J. Follow-up adherence rates and patients' perspectives following a non-invasive, non-mydriatic eye screening at community-based, outpatient settings. Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2014 **Gower EW**, Alemayehu W, Bedri A, Johnson JE, Kollmann M, Pedlingham N, Sisay A. Screening Tools for Selecting Trichiasis Surgery Trainees. World Health Organization, Trachoma Informal Scientific Workshop, Addis Ababa, Ethiopia (April)
- 2014 Hamid K. Nwachukwu BU. Lang JE. D'Agostino RB, **Gower EW**, Li Z, Carroll

- EB, Poehling GG, Koman A. Implementation of a Novel Musculoskeletal Emergency Center Reduces Time to Care for Extremity Injuries. AAOS Annual Meeting, New Orleans, LA (March)
- 2014 McCrory MC, **Gower EW**, Simpson SL, Nakagawa TA, Mou SS, Morris PE. Off-hours admission and mortality in pediatric intensive care. 43rd Critical Care Conference, Society for Critical Care Medicine, San Francisco, CA (January)
- 2013 **Gower EW**, Kollmann KHM. Trachomatous Trichiasis Surgery Training: Seeking New Solutions to MMDP. Neglected Tropical Disease Network Annual Meeting, Brighton, UK (September)
- 2013 Shekhawat NS, Cassard SD, **Gower EW**, Friedman DS, Quigley HA, Jampel HD. Regional and Physician-level Variation in Rates of Laser Trabeculoplasty in the Medicare Population. American Glaucoma Society Annual Meeting, San Francisco, CA (March)
- 2013 Quigley HA, Cassard SD, **Gower EW**, Ramulu PY, Jampel HD, Friedman DS. The Cost of Glaucoma Care Provided to Medicare Beneficiaries from 2002-2009. American Glaucoma Society Annual Meeting, San Francisco, CA (March)
- 2012 **Gower EW**, Cassard SD, Harding JC, West SK, Munoz BE, Merbs SL. Outcomes of Repeat Trichiasis Surgery. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2012 Merbs, SL. Oktavec K, Munoz BE, Perlini EF, West SK, **Gower EW**. Incision Height and Trichiasis Recurrence in Bilamellar Tarsal Rotation Surgery. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2012 Cassard SD, Merbs SL, Harding JC, Munoz BE, West SK, **Gower EW**. The Epidemiology of Lower Eyelid Trachomatous Trichiasis among Upper Eyelid Trichiasis Surgery Patients. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2012 **Gower EW**. Differences in Corneal Sensitivity, Presence of Pathogenic Organism and Dry Eye Symptoms among Trichiasis Surgery Patients. World Health Organization, Trachoma Scientific Workshop, Baltimore, MD (April)
- 2012 Lee BS, Munoz BE, West SK, **Gower EW**. Functional Improvement After 1- and 2-Eyed Cataract Surgery in the Salisbury Eye Evaluation. ASCRS Meeting, Presentation for general program and also invited presentation for Resident & Fellows Day, Chicago, IL (April)
- 2011 **Gower EW**. Cost Issues in Trichiasis Surgery. American Society for Tropical Medicine and Hygiene, Philadelphia, PA (December)
- 2011 **Gower EW**, Cassard SD, Chu L, Varma R, Klein R. Risk of Adverse Events Differs following Intravitreal Injection of Bevacizumab and Ranibizumab. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)

- 2010 **Gower EW**, Munoz BE, Alemayehu W, West SK. Surgical Factors Play a Significant Role in Rates of Trichiasis Recurrence. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2010 **Gower EW**. Endophthalmitis after Cataract Surgery. Ocular Infections Meeting, West Palm Beach, FL (April)
- 2009 **Gower EW**. Merbs SL. Making Surgery More Straightforward May Improve Surgical Outcomes: A New Surgical Tool. American Society for Tropical Medicine and Hygiene, Washington, DC (November)
- 2009 **Gower EW**, Keay L, Cassard SD, Tielsch J, Stare D, Behrens A, Schein OD. Rates and Risk Factors for Endophthalmitis Following Cataract Surgery. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2009 **Gower EW**, Chittanda F, Suzuki M, Munoz B. One-Year Surgical Outcomes in Southern Tanzania. World Health Organization, Trachoma Scientific Workshop, Geneva, Switzerland (April)
- 2007 **West ES**, Cassard SD, Schein OD, Bressler NM. Cost-effectiveness of Three Treatments for Age-related Macular Degeneration. 4th US Symposium on Ocular Epidemiology, Sponsored by the National Eye Institute, Sarasota, FL (October)
- 2006 **Gower EW**, Haller J, Werther WA, Napalkov P, Francom S, Butler S, Shams N. Cardiovascular and Cerebrovascular Events in Patients with Neovascular Age-Related Macular Degeneration. Cannes Retinal Festival, Cannes, France (September)
- 2006 **West ES**, Cassard SD, Schein OD, Bressler NM. Cost-effectiveness of Treatment for Age-related Macular Degeneration. AMD Update, Baltimore, MD (May)
- 2006 **West ES**, Munoz BE, Broman AT, West SK. Effects of Cataract Surgery on Measured and Perceived Function in the SEE Study. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2006 **West ES**, Munoz BE, Imeru A, Alemayehu W, Bedri A, West SK. Risk Factors for Unfavorable Outcomes Within Six Weeks Following BTRP Surgery. World Health Organization, Trachoma Scientific Workshop, Geneva, Switzerland (April)
- 2006 **West ES**. Surgery to Correct Trichiasis. Pfizer Meeting of Experts in Trachoma Control, Phoenix, AZ (January)
- 2005 **West ES**, Munoz BE, Imeru A, M Melese, Alemayehu W, West SK. Epilation is Associated with Less Corneal Opacity Among Trichiasis Cases with Moderate to Severe Entropion. World Health Organization, Trachoma Scientific Workshop, Geneva, Switzerland (April)
- 2004 **West ES**, Munoz BE, Imeru A, M Melese, Alemayehu W, West SK. Effect of

Epilation on Corneal Opacity and Blindness Among Trichiasis Surgery Patients. International Society for Geographic and Epidemiological Ophthalmology, Dubai, United Arab Emirates (September)

- 2004 **West ES**, West SK, Munoz BE, Mkocho H, Mabey D. Mass Treatment and the Effect on the Load of C. Trachomatis in a Trachoma Hyper-endemic Community. Program and abstract for the Annual Association for Research in Vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2004 **West ES**, M Melese, Munoz B, Alemayehu W, Imeru A, West SK. Characteristics of Trichiasis Cases Enrolled in a Clinical Trial in Ethiopia. World Health Organization, Trachoma Scientific Workshop, Geneva, Switzerland (April)
- 2004 **West ES**. The 'S' Component: Trichiasis Surgery. World Health Organization Global Alliance for the Elimination of Trachoma 2020 annual meeting. Geneva, Switzerland (April)
- 2003 **West ES**, Kayengoya A, Munoz BE, Mkocho H, West SK. Association for Risk Factors for Trichiasis Recurrence in a Trachoma-endemic Area. Program and abstract for the annual Association for Research in vision and Ophthalmology (ARVO) meeting, Fort Lauderdale, FL (May)
- 2003 **West ES**, Kayengoya A, Munoz BE, Mkocho H, West SK. Risk Factors for Trichiasis Recurrence in a Trachoma-endemic Area. World Health Organization Trachoma Scientific Workshop, Geneva, Switzerland (April)
- 2003 **West ES**, Munoz BE, West SK Trichiasis: An Important Cause of Visual Impairment in Rural Ethiopia. Program and Abstract from the annual Wilmer Research Meeting, Baltimore, MD (April)

Doctoral Dissertation

- 2002 **Doctor of Philosophy**
Epidemiology with a concentration in Clinical Trials
Johns Hopkins Bloomberg School of Public Health
Baltimore, MD
Dissertation Topic: Risk Factors for Trichiasis Recurrence in Tanzania
Advisor: Steven Goodman, MD, PhD

TEACHING ACTIVITIES:

Graduate Students/Residents/Fellow Advised

Wake Forest School of Medicine

2015 – Present Ashmitha Raja MD, Clinical and Population Translational Science Program (CPTS) ScM student Thesis Title: The Prevalence of Lower Eyelid Trichiasis Among Patients with Upper Eyelid Trichiasis

2014 – 2016 Rick Dykstra, medical student

2012 – 2014 Michael McCrory, MD, CPTS student

Thesis title: Impact of Off-Hours Admissions to Pediatric Intensive Care on Mortality

2013 – 2016 Jesse Miller, MD, Fellow

Fellowship Project Title: Experience in Decision Conflict and Regret among Surrogate Decision Makers in the Medical Intensive Care Unit

2009 – Present Julia Whiteside de Vos, MD, MPH DrPH student

2008 – 2012 Tyrie Jenkins, MD, MPH student (distance learning program)

Johns Hopkins Bloomberg School of Public Health MPH Capstone Advisees

2010 – 2011 Aesha Duria, MPH student (project title unknown)

2008 – 2009 Ramya Swami, MPH student (project title unknown)

2008 – 2009 Angie Cheng, MPH student (project title unknown)

Wilmer Eye Institute, School of Medicine

2007 – 2009 Lisa Keay, Post-doctoral fellow Project Title: Endophthalmitis After Cataract Surgery

2006 – 2007 Hsiang-Kai Hsu, MPH student Project Title: The Use of Sterilid to Reduce Ocular Surface Bacteria before Cataract Surgery

2005 – 2008 Julia Whiteside de Vos, MD, MPH student (distance learning program)

2004 – 2008 Afshan Nanji, medical student Project Title: The Effect of Blue Blocking Lenses on Dark Adaptation Among Elderly

2004 – 2007 Sapna Gangaputra, MPH and then post-doctoral fellow (project title unknown)

2004 – 2005 Rahul Ali, MPH student (project title unknown)

GRANTS:

Current

UG1 EY025992-01 National Eye Institute (Gower)

03/01/2016 – 02/28/2020

Evaluating the Role of Incision Height in Improving
In this randomized clinical trial, we will assess the effect
of modifying the WHO recommended incision height of
3mm to 5mm for trichiasis surgeries and will compare
the effectiveness of 2 surgical procedures
(Bilamellar Tarsal Rotation and Trabut).

\$3,031,691

Role: **Principal Investigator**

Seeing is Believing Innovation Fund Round 2 (Gower)

02/01/2017 – 06/30/2018

Meeting the Global Demand for HEAD START and
Ensuring Successful Implementation

\$199,370

This is a competitive renewal to continue work on the
evaluation of a surgical simulation device as a training and
skills maintenance tool for trichiasis surgery technicians
working in low-resource settings. This project has 3 aims:
to finalize development of 3-D printed cartridges for the
simulator, to assess the effectiveness of long-term HEAD START
practice on skills maintenance during periods of low surgical
productivity, and to develop a monitoring program to ensure
HEAD START training is conducted according to protocol.

Role: **Principal Investigator**

The Fred Hollows Foundation (Gower) 01/01/2016 – 06/01/2017
Long-term Evaluation of HEAD START Utilization \$20,000
We will conduct monitoring and evaluation of ongoing
HEAD START training programs
in Ethiopia and Uganda.
Role: **Principal Investigator**

Completed

HHSN268201600004C, NHLBI (Shumaker) 10/2015 – 10/2020
Women’s Health Initiative SE Regional Center \$718,707
The contract will support continued follow-up of the
Women’s Health Initiative (WHI) – Regional Center
subjects to expand knowledge about the determinants
of cardiovascular disease in older women, and support a
core scientific resource for the research community,
including mentoring young investigators.

Role: **Co-Investigator**

*(Moved from active to completed because these were
for work while I was at Wake Forest and did not transfer with me.
Worked on grant from 10/2015 to 11/2016)*

UL1 TR001420-01, NIH (Li) 08/2015 – 03/2019
Wake Forest Clinical and Translational Science Award \$3,232,083
This application establishes a Clinical and Translational
Science Award based in the Wake Forest Translational
Science Institute. A Mentored Career Development Program
(KL2 TR001421; PI: Kritchevsky) is part of this award.
Dr. Gower serves on the executive committee.

Role: **Co-Investigator**

*(Moved from active to completed because these were
for work while I was at Wake Forest
and did not transfer with me. Worked on grant from
8/2015 to 11/2016)*

Duke Endowment (Burke) 08/2015 – 07/2018
A Carolinas Learning Health System \$524,564
The goal of this project is to establish the infrastructure
for sharing electronic medical records data across
academic and private health care organizations.

Role: **Co-Investigator**

*(Moved from active to completed because these were
for work while I was at Wake Forest and did not transfer with me.
Worked on grant from 8/2015 to 11/2016)*

HHSN268201100027C, NHLBI (Ambrosius) 12/2011 – 12/2016
The ACCORDION Eye Study \$1,312,207

This is an ancillary study to ACCORDION and is an observational follow-up to ACCORD Eye.

In the ACCORDION Eye Study, subjects will have retinal photographs taken at eight years after their ACCORD randomization to examine for the progression of diabetic retinopathy, a condition common in diabetics and which can result in diminished vision.

Role: **Co-Investigator**

Helen Keller International (Gower)

8/2015 – 09/2016

HEAD START for Supportive Supervision of Trichiasis Surgeons

\$90,199

In this project we aim to determine whether a surgical simulation device is beneficial in improving surgical skills through refresher training and supportive supervision.

Role: **Principal Investigator**

CDC (Friedman)

09/2010 – 09/2016

Translating Research into Healthy Eyes and Vision Loss Prevention

\$119,440

This grant has two distinct areas of research. The first focuses on analyzing data from multiple existing databases in order to evaluate what disparities exist in access to eye care and subsequent treatment. I serve as the project PI for analyses of Medicare data looking at issues of disparity in eye care.

The second area consists of designing, implementing and monitoring programs aimed at reducing disparities.

This aim involves colleagues from multiple translational research centers. The first project focused on developing a diabetic retinopathy screening program; the second focuses on an educational program for clinicians to guide interventions to reduce smoking. The final project is one that I designed; it is investigating the uptake of an eye exam as part of Welcome to Medicare benefits.

Role: **Sub-contract Principal Investigator**

The END Fund (Gower)

09/2014 – 06/2016

HEAD START to End Blinding Trachoma:

\$44,813

Equipment and Support Grant

This grant provides funding for the simulation devices being used in the Helen Keller International grant listed directly above this one.

Role: **Principal Investigator**

R21 EY023303-02 National Eye Institute (Gower)

04/2013 – 03/2016

Secondary Analysis of Four Trichiasis Surgery Clinical Trials to Inform Management Strategies

\$125,000

The goal of this work is to integrate data from four complementary trichiasis surgery trials, including a National Eye Institute funded trial, to address key epidemiologic questions that can directly impact trichiasis management.

Role: Principal Investigator

Seeing is Believing Innovation Fund (Gower) 04/2014 – 11/2015
HEAD START: An Innovative Training Device to Help End \$182,000

Blinding Trachoma

Role: Principal Investigator

Fred Hollows Foundation (Gower) 01/2014 – 12/2014
Methods for Selecting High-quality Surgical Trainees \$34,354

Role: Principal Investigator

Helen Keller International (Gower) 01/2013 – 12/2013
Manual Dexterity Evaluation to Improve Trichiasis Surgery Quality \$40,964

Role: Principal Investigator

NHLBI (Ambrosius) 11/2012 – 12/2012
ACCORD – Eye \$91,507

Role: Co-Investigator

Genentech, LLC (Gower) 03/2010 – 12/2012
Analysis of Safety Data for AMD Patients Treated with \$608,351

Intraocular Injections

Role: Principal Investigator

Bill & Melinda Gates Foundation (West, Overall PI) 12/2007 – 11/2012
Partnership for the Rapid Elimination of Trachoma \$1,900,000

Role: Principal Investigator, Trichiasis Surgery Trial sub-grant

Novartis (Gower) 10/2006 – 12/2011
Institutional Consulting Contract \$75,000

Role: Principal Investigator

Centers for Disease Control (Freidman) 09/2009 – 09/2011
National Vision Preservation Initiative \$913,809

Role: Co-Investigator

R01EB007969-01A1 National Institutes of Health 07/2008 – 07/2011
Biomedical Research Partnership \$5,884,819

Microsurgery Assistant Workstation

Role: Co-Investigator

R01 EY016769 National Eye Institute (Gower) 09/2005 – 09/2010
Rates and Risk Factors for Endophthalmitis after Cataract Surgery \$1,305,766

Role: Principal Investigator

National Institute of Aging (West) 09/2004– 07/2010
Who Drives Safely? Visual/Cognitive Predictors in Elders \$5,152,821

Role: Co-Investigator

Genentech, LLC (Bressler) 08/2006 – 09/2009

Ranibizumab for Hemorrhagic Choroidal Neovascularization Role: Clinical Trialist	\$156,928
Lincey Foundation (Do/Gower) AMD: Detection of New Onset CNV Role: Principal Investigator, Coordinating Center	07/2006 – 09/2009 \$1,808,415
Bausch & Lomb (Gower) Rates and Risk Factors for Fungal Keratitis Role: Principal Investigator	04/2006 – 09/2008 \$337,667
Genentech, LLC (Bressler) Ranibizumab for Idiopathic Parafoveal Telangiectasia Role: Clinical Trialist	09/2006 – 08/2008 \$67,096
Juvenile Diabetes Research Foundation (Bressler) Natural History of Subclinical Diabetic Macular Edema Role: Co-Investigator	11/2004 – 06/2008 \$219,470
National Eye Institute U01 (West) Surgery for Trichiasis, Antibiotics to Prevent Recurrent Trichiasis (STAR) Clinical Trial Role: Project Director	09/2002 – 08/2007 \$2,506,504
OSI Eyetech (Bressler) Macugen for CME in Diabetics Study (DME) Role: Clinical Trialist	04/2006 – 05/2007 \$260,798
OSI Eyetech (Bressler) Macugen for CME in Non-diabetics Study (CME) Role: Clinical Trialist	04/2006 – 03/2007 \$243,330
<i>Pending</i>	
USAID Morbidity Management and Disability Prevention Grant Helen Keller International (prime recipient) Role: Senior Scientific Advisor	04/2017 – 03/2020 \$345,126
Gillings Innovation Labs Improving Diabetic Eye Disease Screening and Management Through a Novel Integrated Care Approach Role: Principal Investigator	08/2017 – 07/2018 \$150,000
Johns Hopkins University Rates and Risk Factors Idiopathic Macular Holes Analysis of Medicare Claims data to evaluate prevalence and risk factors for developing idiopathic macular hole. Role: Site Principal Investigator	03/2017 – 09/2017 \$27,280

PROFESSIONAL SERVICE:

University

Wake Forest School of Medicine

2015 – Present CTSA Clinical Informatics Affinity Group
2015 – Present CTSA Cabinet member
2015 – Present Executive Committee, Wake Forest CTSA
2015 – Present Search Committee, Director of Health Care Innovation
2014 – Present Executive Committee, Surgical Quality Performance Improvement Program
2014 – Present Surgical Quality Improvement Steering Committee
2013 – 2015 Research Informatics Advisory Committee
2012 – 2014 Global Health Advisory Committee
2013 Search Committee Member, Director of Global Health Education position

Johns Hopkins School of Medicine

2008 – 2010 Co-chair, Office of Research Administration Users Group Evaluation Committee

Departmental

Wake Forest School of Medicine

2015 – Present Member, Search Committee, Biostatistical Sciences Faculty
2015 – 2016 Member, University-wide Search Committee, Director of Healthcare Innovation and Transformation
2015 Member, Search Committee, Social Sciences and Health Policy Department Chair
2014 Member, High Performance Computing Group
2012 – 2013 Chair, Divisional Retreat Planning Committee
2013 Chair, Large Databases Development Working Group

Johns Hopkins School of Medicine

2010 – 2011 Faculty Search Committee
2007 – 2010 Wilmer Residents' Meeting, Mitchell Prize Selection Committee
2005 – 2009 Co-chair, Friday Afternoon Research Meetings (FARM) Planning Committee
2009 Internal grant review committee, Pool Professor Research Funds
2006 – 2008 Wilmer 2010 Culture Committee
2006 – 2008 Liaison, Wilmer 2010 Culture, Research Funding Subcommittee
2005 – 2007 Co-chair, Wilmer Research Meeting Committee

Journal Reviewer

American Journal of Epidemiology
American Journal of Tropical Medicine and Hygiene
Annals of Ophthalmology

Archives of Ophthalmology
British Journal of Ophthalmology
Bulletin of the World Health Organization: The International Journal of Public Health
Clinical Ophthalmology
Diabetes
Epidemiology
Eye
Investigative Ophthalmology and Visual Science (IOVS)
Journal of Epidemiology and Community Health
Journal of Vision
Journal of the American Medical Association (JAMA)
Journal of Cataract and Refractive Surgery
Lancet
Ophthalmic Epidemiology
Ophthalmology
Primary Care Diabetes
PLOS Neglected Tropical Diseases
Retina
Tropical Medicine and International Health

Funding Agency Reviewer

10/2016	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R01, R34, and UG1 grant applications
04/2016	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications
01/2016	Singapore Ministry of Health National Medical Research Council reviewer
11/2015	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications
03/2015	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R21 and U10 grant applications
12/2014	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R21 and U10 grant applications
04/2014	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R21 and U10 grant applications
06/2010-12/2013	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, Study Section Chair and <i>ad hoc</i> reviewer of R21 and R34 grant applications
07/2012-06/2012	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, Study Section Chair and <i>ad hoc</i> reviewer of R21 and R34 grant applications
04/2012	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R21 and U10 grant applications
12/2011	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications
12/2011	NIH, NEI Special Emphasis Panel, Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications
04/2011	NIH, NEI Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications
11/2009	National Institutes of Health (NIH), National Eye Institute (NEI) Special Emphasis Panel, <i>ad hoc</i> reviewer of R01 and U10 grant applications

2007 – 2010	Center for Global Health, Johns Hopkins School of Medicine: reviewer for internal research applications
<i>Editorial Board</i>	
2013 – Present	<i>Ophthalmic Epidemiology</i> , Editorial Board
<i>International Advisory Board</i>	
2014 – 2016	Chair, Trichiasis Surgery Working Group, International Coalition for Trachoma Control
<i>Other:</i>	
2015	Meeting Organizer: World Health Organization, Global Trichiasis Scientific Meeting, November 4-6, 2015 Cape Town, South Africa
<i>Consultancies</i>	
2009 – 2010	Epidemiology Advisor for Ikona Medical Corporation Assisted with grant preparation, study design and implementation, and interpretation of results for studies investigating capsular endoscopy and uterine imaging
2006	Epidemiology Advisor for National Blindness Survey, Ethiopia Assisted with study design, training and implementation for Ethiopia's national blindness prevalence survey
2005	World Health Organization, Global Elimination of Trachoma Advisory Panel Identified key research priorities for eliminating blinding trachoma by 2020
<i>Societal Meeting Activities</i>	
2009	Symposium Co-organizer, Association for Research in Vision and Ophthalmology
2008	Abstract reviewer, Society for Medical Decision Making Conference
2007	Mini-symposium Organizer, Association for Research in Vision and Ophthalmology
<i>Other Societal Committees</i>	
2010 – Present	Member, Women in Eyes and Vision Research Networking Committee, ARVO
2011	Investigator Award Selection Committee, Prevent Blindness America
2005 – 2010	Advisory Board Member, International Society for Geographic and Epidemiological Ophthalmology