

CURRICULUM VITAE

Sheila K. West, Ph.D.

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CURRICULUM VITAE

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EDUCATION:

1964-66	University of California at Santa Barbara
1966-67	California State College at Hayward
1967-71	University of California Medical Center at San Francisco
1976-1980	Johns Hopkins School of Hygiene and Public Health Baltimore, Maryland

DEGREES:

1971	Pharm. D. University of California Medical Center at San Francisco
1980	Ph.D. in Epidemiology Johns Hopkins School of Hygiene and Public Health Baltimore, Maryland

EMPLOYMENT:

1971-76	Program Director for Pharmacy Studies Health Services Research and Development Center Johns Hopkins University Baltimore, Maryland
1971-76	Research Associate Johns Hopkins School of Hygiene and Public Health Baltimore, Maryland
1976-80	Post Doctoral Fellow Department of Epidemiology Johns Hopkins School of Hygiene and Public Health
1980-84	Visiting Professor College of Medicine University of the Philippines Manila, Philippines

1984-85	Instructor Department of Ophthalmology Johns Hopkins University School of Medicine Baltimore, Maryland
1985-90	Assistant Professor Department of Ophthalmology Johns Hopkins University School of Medicine Baltimore, Maryland Joint Appointment: Department of Epidemiology Johns Hopkins School of Hygiene and Public Health
1991-1996	Associate Professor Department of Ophthalmology Johns Hopkins University School of Medicine Baltimore, Maryland Joint Appointment: Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health
1997	Professor Department of Ophthalmology Johns Hopkins University School of Medicine Baltimore, Maryland Joint Appointment: Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health
1999	EI-Maghraby Professor of Preventive Ophthalmology Department of Ophthalmology Johns Hopkins University School of Medicine Baltimore, Maryland Joint Appointment: Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health
2010	Vice Chair for Research Wilmer Eye Institute Johns Hopkins University School of Medicine

CONSULTANCIES:

1973-80	Consultant Federal Food and Drug Administration Panel on Over the Counter Medications (Federal Register 40, 12935, March 2, 1975)
1984-85	Consultant National Academy of Sciences Board on Science and Technology for International Development Project on Screening for Hepatitis in High Risk Infants, Philippines
1985-Present	World Health Organization: Consultant on Trachoma World Health Organization: Consultant on Cataract

	World Health Organization: Consultant on Ocular Effects of Ultraviolet Exposure
1986-Present	Ad Hoc Member of Study Section, VIS/A & B, National Eye Institute
1988-1994	Scientific Advisory Board Study on Risk Factors for Cataract and AMD in the Population of Beaver Dam, Wisconsin/NIH Grant University of Wisconsin
1989-2000	National Committee to Eradicate Trachoma in Saudi Arabia
1994-2000	Environmental Protection Agency: Consultant on Ocular Damage Due to UV Radiation.
1995	Ad Hoc Member of Study Section for U.S. Department of Agriculture, Division of Human Nutrition.
1998-2004, 2010-	Technical Expert Committee on Trachoma, International Trachoma Initiative
1999-2004	Scientific Advisor, National Academy of Sciences. Panel on Disability Determination for Individuals with Visual Impairments
2000-2005	Chairman, Data Monitoring and Oversight Committee, Carotenoids in Age-Related Eye Disease Study at University of Wisconsin (CAREDS)
2000-2005	Scientific Advisor, Data Monitoring and Oversight Committee. Vision in Pre-Schoolers study Ohio University (NIH, NEI)
2001-2003, 2010-	Contributing author, Surgeon General's Report on Active Smoking and Health.
2007	Chair, National Eye Institute Ocular Epidemiology Strategic Program Planning Panel.
2007	Chair, National Eye Institute ZEY 1VSN study section August 2007
2006-present	Member of Advisory Committee: Harvard Department of Ophthalmology K-12 program.
2009-20013	Chair, Data Monitoring and Oversight Committee for Beaver Dam Eye Study at U Wisconsin(NEI).
2012-	Chair, Data Monitoring and Oversight Committee for Trichiasis Surgery Study at UPenn (Lions).

VISITING LECTURESHIP/PROFESSORSHIPS:

1996:	Department of Ophthalmology
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- Dalhousie University
Halifax, Nova Scotia
- 1996: Department of Ophthalmology
University of Wisconsin
Madison, Wisconsin
- 1998: Scheie Eye Institute
University of Pennsylvania
Philadelphia, PA
- 1999: Department of Ophthalmology
Columbia College of Physicians and Surgeons
New York, NY
- 1999: Department of Ophthalmology
University of Alabama
Birmingham, AL
- 1999: Department of Ophthalmology
Kanazawa Medical University
Ishikawa, Japan
- 2000 Proctor Foundation, University of California, San Francisco
- 2010 NIMMO Visiting Professor
Royal Adelaide Hospital
Adelaide, Australia

HONORS & AWARDS:

- 1969 Member, Rho Chi Honor Fraternity
- 1971 Recipient, University of California Bowl of Hygeia
- 1988 Fight for Sight Award for Clinical Research on Ocular U.V. Effects
- 1993 Research to Prevent Blindness Senior Scientific Investigator
- 1994 Recipient, Gold Medal from the International Organization Against Trachoma, for Work on Community Interventions for Trachoma Control
- 1995 Carter Compton Collins II Lecturer, Optical Society of America
- 1999 Key-note speaker: Cataract Assessment Modalities and Epidemiology (CAME)-Club. Stockholm, Sweden
- 2000 Alta Lecture, Alta California Eye Research Foundation.
- 2001 Daniel G. Vaughan Memorial Lecture, Francis I Proctor Foundation

2001	Research to Prevent Blindness Senior Scientific Advisor
2001	Charles F. Prentice Medal Award winner, American Academy of Optometry
2001	Alcon Research Institute Awardee
2008	Research to Prevent Blindness Sabbatical Award

SOCIETIES:

International Epidemiologic Association
 Association for Research in Vision and Ophthalmology
 International Society of Geographic Ophthalmology and Epidemiology
 Society for Epidemiology Research
 American Epidemiology Society

COMMITTEES & BOARDS:

Program Planning Committee Member for Association of Research and Vision in Ophthalmology: 1992-1994. Chairman, 1993-1994.

Board of Trustee for Association of Research and Vision in Ophthalmology 1997-2002

Member, Editorial Board, Investigative Ophthalmology and Visual Sciences, 1992-present.

Member of Board, International Society of Geographic Ophthalmology and Epidemiology, 1994-present; President: International Society of Geographic Ophthalmology, 1996-1998.

Member, Editorial Board, Ophthalmic Epidemiology 1996-2006.

Editor in Chief, Ophthalmic Epidemiology, 2006-2011.

Chairman, World Health Organization/Prevention of Blindness Panel on Development of a Simplified Cataract Grading Scheme, 1995-1996.

Vice-Chairman, World Health Organization, Workshop on Curriculum Development for Training in Community Ophthalmology, International Centre for Eye Health, 1996.

Chairperson, Sixth meeting of the World Health Organization Alliance for the Global Elimination of Blinding Trachoma, 2001.

Chairperson, Meeting for the Development of Guidelines for Assessment of the Elimination of Blinding Trachoma, 2001.

President, Association for Research in Vision and Ophthalmology, 2001-2002

Member, Johns Hopkins Medical School Admissions committee: 1997-present

Board Member, ARVO Foundation for Eye Research, 2003-2011.

Technical Board Member, Helen Keller International.

Board of the Alcon Research Institute 2010-present

Scientific Advisory Board of Research to Prevent Blindness 2008-present

National Advisory Eye Council of the National Eye Institutes 2011-present

I REVIEW MANUSCRIPTS FOR THE FOLLOWING JOURNALS:

American Journal of Epidemiology
Archives of Ophthalmology
Ophthalmology
New England Journal of Medicine
Journal of American Medical Association
American Journal of Ophthalmology
American Journal of Public Health
Investigative Ophthalmology and Visual Sciences
Journal of Infectious Diseases
British Journal of Ophthalmology
Ophthalmic Epidemiology
Bulletin of the World Health Organization
PLoS NTD
Lancet

UNIVERSITY SERVICE:

Member, Medical School Research Advisory Committee

Member, Medical Student Admissions Committee, School of Medicine

Member, Women's Leadership Council, Johns Hopkins School of Medicine

Chair, Wilmer Professorial Promotions Committee

TEACHING:

Epidemiology of Eye Disease. Course in Johns Hopkins School of Hygiene and Public Health. Course Leader.

Advisor in Epidemiology Department and International Health Department to Doctoral Candidates (Virginia Turner, Marisol Concha, Yu-Shen Hsieh, John Kempen, David Friedman, Emily West, Ellen Freeman, Elizabeth Ssemanda, Bonnie Swenor).

Medical Student/grad student Summer Projects in International Ophthalmology. (Thomas Bochow, Ursula Tajchman, Nathan Congdon, Stephen McLeod, Deepa Abrahams, Sean Tobin, John Siler, Colleen Clendening, Robert Blount, Jennifer Frontera, Andrew Smith, Jonathon Miller, Alex Jensen, Luis Cajs-Monson, Jithin Yohannan, Gregory Greene, Matthew Oliva, Meraf

Wolle, Tinsay Woreta, Ilesh Patel, Jorge Uribe, Andrew Burke, Rachel Zack, Peter Campbell).

Public Health Ophthalmology Course, offered by Wilmer Institute and Johns Hopkins School of Hygiene and Public Health every three years. Lecturer and M.P.H. advisor to over 47 students.

GRANTS AND CONTRACTS:

1976 - 1980 **Co-Investigator:** Maternal and Paternal Occupational Risk Factors for Congenital Heart Defects. National Institute for Occupational Safety and Health. This study found an association between paternal exposure to wood and risk of tetralogy of Fallot.

1980 - 1984 **Co-Investigator:** Incidence and Prevalence of Hepatitis B in Populations in the Philippines Co-operative Agreement: University of Philippines Liver Study Group and Government of Japan. For the first time, we showed a prevalence of Hepatitis B antibody of 100% by age 15, and that incidence occurred in asymptomatic children.

1981 - 1983 **Principal Investigator:** Distribution and Correlate of Infant Mortality in the Philippines United States Agency for International Development Contract. Our study documented the variation in infant mortality by region in the Philippines and showed an association with maternal education levels.

1982 - 1985 **Principal Investigator:** Risk Factors for Nasopharyngeal Carcinoma among Filipinos Philippines Medical Research Council. Our study found an increased risk of NPCA associated with EB-Virus antibody and exposure to mosquito coils.

1984 - 1989 **Co-Investigator:** Sunlight Exposure and Age-Related Eye Diseases in Chesapeake Bay Watermen. National Eye Institute. This study documented the association between cataract and chronic, cumulative exposure to ultraviolet radiation.

1984 - 1988 **Co-Investigator:** Risk Factors for Trachoma in Tanzania. Edna McConnell Clark Foundation. Our research showed an association between environmental factors and the prevalence of active trachoma in pre-school children.

1987 - 1993 **Principal Investigator:** A Community Based Clinical Trial of Hygiene Intervention for Trachoma Control. Edna McConnell Clark Foundation. Our study documented a 30% reduction in severe trachoma in children following a community based face-washing campaign.

1988 - 1991 **Principal Investigator:** Risk Factors for Age-Related Macular Degeneration in a Longitudinal Study of Aging. National Eye Institute. We evaluated the protective effect of dietary and serum measures of anti-oxidant status and found a protective effect of Vitamin E on cataract and AMD.

1988 - 1990 **Epidemiologist:** Study of Ocular Complication of AIDS. National Eye Institute. This multi-center study found gancyclovir to be a preferable drug in the treatment of CMV retinitis.

1988 - 1991 **Principal Investigator:** Risk Factors for Trichiasis in Women. Edna McConnell Clark Foundation. Women are four times more likely to have trichiasis, and women whose mothers had trichiasis are at higher risk of trichiasis themselves.

1990 - 1993 **Principal Investigator:** Longitudinal Study of Age-Related Ocular Changes in Chesapeake Bay Watermen. National Eye Institute. Our team provided the first findings linking

smoking to progression of nuclear opacities, and documented the incidence and progression of AMD in our cohort.

1990 - 1993 **Principal Investigator:** Trachoma Task Force for Trachoma Control. Edna McConnell Clark Foundation. The Task Force sponsored a series of international meetings on vaccine development and intervention strategies for trachoma control.

1992 - Present **Principal Investigator:** Visual Impairment and Functional Disability in the Elderly, Program Project, National Institute on Aging. This program project has the equivalent of 4 ROIs in several areas relating vision to function. To date, we have found higher rates of visual and functional disability in blacks.

1993 - Present **Co-Investigator:** Seroepidemiologic Study of *C. trachomatis* in Tanzania. Edna McConnell Clark Foundation. This project has found a high rate of sub-clinical chlamydia ocular infection in persons with trichiasis and scarring. Different cytokine distributions exist, comparing trichiasis cases and normal controls.

1993 - 1995 Reading Center for Lens Photographs in a Clinical Trial of a Phase Separation Inhibitor with Oculon, Inc. We are documenting the rates of opacification in a vitrectomy model of cataractogenesis as an efficacy study for FDA approval of drug.

1993 - 1994 **Co-Investigator:** Health Effects and the Ozone Hole in Chile. Environmental Protection Agency. We found no data to support acute adverse human health effects due to the ozone hole.

1993 - 2004 **Principal Investigator:** Azithromycin in Trachoma Control: Re-emergent infection in Trachoma Communities. Edna McConnell Clark Foundation. We are currently studying the outcome of mass treatment with tetracycline versus Azithromycin.

1994 - 1996 **Principal Investigator:** Development of an Epidemiologic Model for Trachoma. National Eye Institute. Our project is designed to evaluate several intervention strategies for trachoma control using a mathematical model.

1995 - 1996 **Co-Investigator:** Wilmer Core Center Grant, Biostatistical Center. National Institute of Health, National Eye Institute.

1995 - Present **Principal Investigator:** Anti-Cataract Drugs and U.V. Exposure in an Emory Mouse Model. American Federation for Aging Research. We are developing a mouse model to study cataractogenic agents.

1995 - 1997 **Co-Investigator:** Objective Assessment of Cataract. National Eye Institute. We are developing metrics for computer driven assessment of lens photographs.

1996 - 2001 **Principal Investigator:** Blindness and Visual Impairment among Mexican Hispanics. National Eye Institute. We are studying causes of visual loss and diabetes in a population of Hispanics in Nogales and Tucson.

1996 - 2001 **Co-Investigator:** Ocular Lympho-Epithelial Response to Chlamydia Infection. National Institute of Health.

1997-1999 **Principal Investigator:** Optimal Dosing of Azithromycin for trachoma control. Edna McConnell Clark Foundation. Our project is designed to study the impact on trachoma of targeted

treatment with size dose Azithromycin in children.

1998-2002 **Principal Investigator:** Interventions for Visual Loss in Nursing Home Residents. National Institute on Aging

1998-2003 **Principal Investigator:** Visual Impairment and Physical Disability in Older Persons

2000-2003 **Co-Investigator:** Strategies for the Control of Blinding Trachoma. Wellcome Trust

2002- Present **Principal Investigator:** Trial of Antibiotics to Reduce Recurrent Trichiasis. National Institute of Health, National Eye Institute.

2004- Present **Principal Investigator:** Who Drives Safely? Visual/Cognitive Factors in Elders. National Institutes of Health, National Institute on Aging

2004- Present **Principal Investigator:** Latino Eye Health: A Communication Strategy for Diabetic Eye Disease. National Institute of Health, National Eye Institute.

2005-2008 **Principal Investigator:** Cataract: Health Disparity for Older African-Americans. National Institutes of Health, National Institute on Aging

2005-2008 **Principal Investigator:** Do Water and Health Education Programs Affect Trachoma and Ocular C. trachomatis? Hilton Foundation

2006- Present **Principal Investigator:** Yearly Mass Treatment for C. Trachomatis: When Can We Stop? National Institute of Health, National Eye Institute.

2006-2008 **Co-Investigator:** Training a Lens Photograph Reading Center for a Clinical Trial. Othera Pharmaceuticals, Inc.

2007- Present **Co-investigator:** Novel assessment of early changes in Diabetic Retinopathy. National Institute of Health, National Eye Institute.

2007-2014 **Principal Investigator:** Partnership for Rapid Elimination of Trachoma. Bill and Melinda Gates Foundation.

2008-2014 **Principal Investigator:** Ancillary Benefit of Azithromycin Mass treatment for Trachoma Control. Bill and Melinda gates Foundation.

2012-present: Co Investigator: Effect of azithromycin on mortality in children. Sub contract from UCSF from Bill and Melinda Gates Foundation

2013-present: **Principal Investigator for Data Coordinating Center:** Profession of Stargardt's disease. Foundation Fighting Blindness

2011-present: **Principal Investigator:** Surveillance and treatment for Newcomers and Travelers to control Trachoma. National Institutes of Health, National Eye Institute.

2012-present: **Principal Investigator:** Testing a simple TT recognition card for training Community Drug Distributors to recognize trichiasis: Lions Club International

BIBLIOGRAPHY:

1. West S, Johnson R. The development of treatment guides and a drug formulary for nurse practitioners. *Am J Hosp Pharm* 1973;30:316.
2. Knapp DA, Brandon BM, West S, Leavitt DE. Drug use review - a manual system. *J Am Pharm Assoc* 1973;NS13:417.
3. Knapp DA, Knapp DE, Brandon BM, West S. The development and application of criteria in drug use review programs. *Am J Hosp Pharm* 1974;31:648-656.
4. West S. Pharmacy manpower in the United States: a wasted resource. *Int J Health Serv* 1974;4:181-187.
5. West S, Brandon BM, Stolley PD, Rumrill R. Use of antihistamines for the common cold. *Pediatrics* 1975;56:100-107.
6. German PS, Hoey Jr, Horky R, Levine DM, Skinner EA, West S, Zauber AG. Symposium: health care of the aged in four ambulatory settings with a focus on the hypertensive patient. Introduction. *Gerontologist* 1975;15:311-313.
7. West S. Providers as prescribers: attitudes toward aspects of prescribing and their relationship to a management of hypertension in elderly. *Gerontologist* 1975;317-319.
8. West S. Women in pharmacy. *Drug Intell Clin Pharm* 1975;9:412-414.
9. Oderda G, West S. Over the counter emetics and antiemetics. In: *Handbook of Non-prescription Drugs*, 3rd-5th Edition, Washington DC: The American Pharmaceutical Association, 1977.
10. Brandon BM, Stolley PD, West S, Swartz D, Rumrill R. Drugs used in the treatment of asthma. *Compr Ther* 1977;3:9-15.
11. West S, Brandon B, Stevens AM, Zauber A, Chase G, Stolley PD, Rumrill R. Drug utilization review in an HMO: I. Introduction and examples of methodology. *Med Care* 1977;15:505-514.
12. West S. Risk factors for congenital heart defects. Doctoral Dissertation, November 1980.
13. West S. Infant mortality in the Philippines. Report prepared under contract 492-1723 with USAID/Manila, May 1981.
14. West S, Gasmen S. Risk factors for infant death in Bay, Laguna. Report under Contract with USAID/Manila, June 1983.
15. Lingao AL, Domingo EO, West S, Reyes CM, Gasmen S, Viterbo G, Tiu E, Lansang MA. Seroepidemiology of hepatitis B virus in the Philippines. *Am J Epidemiol* 1986;123:473-480.
16. West S, Lingao AL, Domingo EO, Raymundo D, Caragay B. Incidence and prevalence of hepatitis B: A community-based survey in the Philippines. *Am J Epidemiol* 1986;123:681-689.

17. West S, Taylor HR. The detection and grading of cataracts: An epidemiologic perspective. *Surv Ophthalmol* 1986;31:175-184.
18. Thylefors B, Dawson CR, Jones BR, West S, Taylor HR. A simple system for the assessment of trachoma and its complications. *Bull WHO* 1987;65:477-483.
19. Taylor HR, West S, Katala S, Foster A. Trachoma: Evaluation of a new grading scheme in the United Republic of Tanzania. *Bull WHO* 1987;65:485-488.
20. West S, Muñoz BE, Newland HS, Emmett EA, Taylor HR. Lack of evidence for aspirin use and prevention of cataracts. *Arch Ophthalmol* 1987;105:1229-1231.
21. Lansang MA, Domingo EO, Lingao AL, West S, Alisago E. Liver and biliary: Sensitivity and specificity of capillary blood HBsAg as a surrogate marker for HBeAg in pregnant women. *J Gastroenterol Hepatol* 1987;2:159-165.
22. Taylor HR, West S. A simple system for the clinical grading of lens opacities. *Lens Res* 1988;5:175-181.
23. West S, Rosenthal F, Newland HS, Taylor HR. Use of photographic techniques to grade nuclear cataracts. *Invest Ophthalmol Vis Sci* 1988;29:73-77.
24. West S, Taylor HR. Community-based intervention programs for trachoma control. *Int Ophthalmol* 1988;12:19-23.
25. Taylor HR, West S, Rosenthal FS, Muñoz B, Newland HS, Abbey H, Emmett EA. Effect of ultraviolet radiation on cataract formation. *N Engl J Med* 1988;319:1429-1433.
26. Thylefors B, Dawson CR, Jones BR, West S, Taylor HR. Systeme simple d'evaluation du trachome et de ses complications. *Int Rev Trach* 1988;1-2:83-91.
27. Bochow TW, West S, Azar A, Muñoz B, Sommer A, Taylor HR. Ultraviolet light exposure and risk of posterior subcapsular cataracts. *Arch Ophthalmol* 1989;107:369-372.
28. West S, Lynch M, Turner V, Muñoz B, Rapoza P, Mmbaga BBO, Taylor HR. Water availability and trachoma. *Bull WHO* 1989;67:71-75.
29. Taylor HR, West S. The clinical grading of lens opacities. *Aust N Z J Ophthalmol* 1989;17:81-86.
30. West S, Rosenthal FS, Bressler NM, Bressler SB, Muñoz B, Fine SL, Taylor HR. Exposure to sunlight and other risk factors for age-related macular degeneration. *Arch Ophthalmol* 1989;107:875-879.
31. Bressler NM, Bressler SB, West S, Fine SL, Taylor HR. The grading and prevalence of macular degeneration in Chesapeake Bay watermen. *Arch Ophthalmol* 1989;107:847-852.
32. West S, Muñoz B, Emmett EA, Taylor HR. Cigarette smoking and risk of nuclear cataracts. *Arch Ophthalmol* 1989;107:1166-1169.
33. Taylor HR, Rapoza PA, Johnson S, Muñoz B, Katala S, Mmbaga BBO, West S. The

epidemiology of infection in trachoma. *Invest Ophthalmol Vis Sci* 1989;30:1823-1833.

34. Taylor HR, West S, Rosenthal F, Muñoz B, Newland H, Emmett E. Corneal changes associated with chronic ultraviolet radiation. *Arch Ophthalmol* 1989;107:1481-1484.
35. Jabs DA, West S, Fox R, Jacobson L, Enger C, Newsome DA, Polk FB. Ocular manifestations of infection with the human immunodeficiency virus. In: Belfort RJr, Petrilli AMN, Nussenblatt RB (eds): *World Uveitis Symposium. Proceedings, First World Uveitis Symposium, Guarujá, Sao Paulo, Brazil, March 1988.* Sao Paulo, Roca 1989: pp 527-533.
36. Lansang MA, Domingo E, Lingao A, West S. A cost-effectiveness analysis of a simple micromethod for hepatitis-B screening in hepatitis-B virus control programmes. *Int J Epidemiol* 1989;18(suppl2):S38-S43.
37. Taylor HR, West S, Mmbaga BBO, Katala S, Turner V, Lynch M, Muñoz B, Rapoza P. Hygiene factors and increased risk of trachoma in Central Tanzania. *Arch Ophthalmol* 1989;107:1821-1825.
38. Strickland PT, Vitasa BC, West S, Rosenthal FS, Emmett EA, Taylor HR. Quantitative carcinogenesis in man: Ultraviolet dose-dependence of skin cancer in Maryland watermen. *J Natl Cancer Inst* 1989;81:1910-1913.
39. West S, Taylor HR. Reliability of photographs for grading trachoma in field studies. *Br J Ophthalmol* 1990;74:12-13.
40. Vitasa BC, Taylor HR, Strickland PT, Rosenthal FS, West S, Abbey H, Ng SK, Muñoz B, Emmett EA. Association of non-melanoma skin cancer and actinic keratosis with cumulative solar ultraviolet exposure in Maryland watermen. *Cancer* 1990;65:2811-2817.
41. McLeod SD, West S, Quigley HA, Fozard J. A longitudinal study of the relationship between intraocular and blood pressures. *Invest Ophthalmol Vis Sci* 1990;31:2361-2366.
42. Taylor HR, Muñoz B, West S, Bressler NM, Bressler SB, Rosenthal FS. Visible light and risk of age-related macular degeneration. *Trans Am Ophthalmol Soc* 1990;88:163-178.
43. McCauley A, Lynch M, Pounds M, West S. Changing water-use patterns in a water-poor area: Lessons for a trachoma intervention project. *Soc Sci Med* 1990;31:1233-1238.
44. Rapoza PA, West S, Katala SJ, Taylor HR. Prevalence and causes of vision loss in Central Tanzania. *Int Ophthalmol* 1991;15:123-129.
45. West S, Rapoza, Muñoz B, Katala S, Taylor HR. Epidemiology of ocular chlamydial infection in a trachoma-hyperendemic area. *J Infect Dis* 1991;163:752-756.
46. West S, Congdon N, Katala S, Mele L. Facial cleanliness and risk of trachoma in families. *Arch Ophthalmol* 1991;109:855-857.
47. West S, Muñoz B, Turner V, Mmbaga BBO, Taylor HR. The epidemiology of trachoma in Central Tanzania. *Int J Epidemiol* 1991;20:1088-1092.
48. Taylor HR, Siler JA, Mkocho HA, Muñoz B, Velez V, DeJong L, West S. Longitudinal study of

the microbiology of endemic trachoma. *J Clin Microbiol* 1991;29:1593-1591.

49. Rosenthal FS, West S, Muñoz B, Emmett EA, Strickland PT, Taylor HR. Ocular and facial skin exposure to ultraviolet radiation in sunlight: A personal exposure model with application to a worker population. *Health Physics* 1991;61:77-86.
50. Bobo L, Muñoz B, Viscidi R, Quinn T, Mkocho H, West S. Diagnosis of *Chlamydia trachomatis* eye infection in Tanzania by polymerase chain reaction/enzyme immunoassay. *Lancet* 1991;338:847-850.
51. Strickland PT, Vitasa BC, Bruze M, Emmett EA, West S, Taylor HR. Solar radiation induced skin cancer and DNA photoproducts in humans. *Basic Life Sciences* 1990;53:83-94.
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53. Taylor HR, Muñoz B, Rosenthal FS, West S. An abbreviated assessment of ocular exposure to ultraviolet radiation. *Aust N Z J Ophthalmol*. 1992;20:219-223.
54. McCauley A, West S, Lynch M. Household decisions among the Gogo people of Tanzania: Determining the roles of men, women and the community in implementing a trachoma prevention program. *Soc Sci Med* 1992;34(7):817-824.
55. Brechner R, West S, Lynch M. Trachoma and flies: Individual versus environmental risk factors. *Arch Ophthalmol* 1992;110:687-689.
56. Luna EJA, Medina NH, Oliveira M, De Barros OM, Vranjac A, Melles HHB, West S, Taylor HR. Epidemiology of trachoma in Bebedouro State of Sao Paulo, Brazil: Prevalence and risk factors. *Int J Epidemiol* 1992;21:169-177.
57. Hildeshein A, West S, DeVeyra E, DeGuzman MF, Jurado A, Jones C, Imai J, Hinuma Y. Herbal medicine use, Epstein-Barr Virus, and risk of nasopharyngeal carcinoma. *Cancer Res* 1992;52:3048-3051.
58. Taylor HR, Siler J, Mkocho H, Muñoz B, West S. The natural history of endemic trachoma: A longitudinal study. *Am J Trop Med Hyg*. 1992;46:552-559.
59. Muñoz B, Tajchman U, Bochow T, West S. Alcohol use and risk of posterior subcapsular cataracts. *Arch Ophthalmol* 1993;111:110-112.
60. West SK, Muñoz B, Wang F, Taylor HR. Measuring progression of lens opacities for longitudinal studies. *Curr Eye Res* 1993;12:123-132.
61. Congdon N, West S, Vitale S, Katala S, Mmbaga BBO. Exposure to children and risk of active trachoma in Tanzania women. *Am J Epidemiol* 1993;137:366-372.
62. Turner V, West S, Muñoz B, Katala S, Taylor HR, Halsey N, Mmbaga BBO. Risk factors for trichiasis in women, Kongwa, Tanzania: A case control study. *Int J Epidemiol* 1993;22:341-347.
63. Rapoza PA, West SK, Katala SJ, Muñoz B, Taylor HR. Etiology of corneal opacification in

Central Tanzania. *Int Ophthalmol* 1993;17:47-51.

64. Vitale S, West S, Hallfrisch J, Alston C, Wang F, Moorman C, Muller D, Singh V, Taylor HR. Plasma antioxidants and risk of cortical and nuclear cataract. *Epidemiol* 1993;4:195-203.
65. West S, Hildesheim A, Dosemeci M. Non-viral risk factors for nasopharyngeal carcinoma in the Philippines: Results from a case-control study. *Int J Cancer* 1993;55:722-727.
66. West S. Daylight, diet, and age-related cataract. *Opt Vis Sci* 1993;70;11:869-872.
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68. West S, Muñoz B, Bobo L, Quinn TC, Mkocha H, Lynch M, Mmbaga BBO, Viscidi R. Nonocular chlamydia infection and risk of ocular reinfection after mass treatment in a trachoma hyperendemic area. *Invest Ophthalmol Vis Science* 1993;34;11:3194-3198.
69. Hildesheim A, West S, Dosemeci M, DeVeyra E, DeGuzman MF, Jurado A. Nasopharyngeal carcinoma in the Philippines: Preliminary results from a case control study of multiple factors. In: *The Epstein-Barr Virus and Associated Diseases*. Eds. T. Turaz, J.S. Pagano, D.V. Ablashi, G. de The, G. Lenoir, G.R. Pearson. Colloque INSERM/John Libbey Eurotext Ltd. 1993;225:743-747.
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72. Gieser SC, Vassileva PI, West SK. Ophthalmology in Bulgaria. *Arch Ophthalmol* 1994;112:687-690.
73. West S, Lynch M, Muñoz B, Katala S, Tobin S, Mmbaga BBO. Predicting surgical compliance in a cohort of women with trichiasis. *Int Ophthalmol*. 1994;18:105-109
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