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EDUCATION

STONY BROOK UNIVERSITY, Stony Brook, NY
PhD in Population Health and Clinical Outcomes Research: Department of Preventive Medicine, School of Medicine. Dissertation Topic: Analysis of Timing Effects of Pars Plana Vitrectomy for Removal of Intravitreal Crystalline Retained Lens Fragments after Surgery for Age-Related Cataracts. Advisor: Dr. John Rizzo.

HARVARD UNIVERSITY, Cambridge and Boston MA
MS Health Policy & Management and Biostatistics, Harvard School of Public Health
BA cum laude, Biochemical Sciences, Harvard College

EXPERIENCE

CLINICAL ASSISTANT PROFESSOR, Stony Brook University: School of Health Technology and Management and Vice Chair, Department of Health Care Policy & Management, Stony Brook, NY. Courses – Statistics and Data Analysis; c. Research design and statistical analysis for faculty and student research projects. (September 2005 – present, adjunct June 2003 – August 2005)

MANAGER, Kaden-Arrone Consulting, Sea Girt and Parsippany, NJ. Management consultant assisted hospitals in creating cost reports and maximizing reimbursement under the federal and state reimbursement systems. (1990 -1991)

MANAGEMENT CONSULTANT, Coopers & Lybrand, New York, NY. Assisted hospitals in the selection and implementation of information systems (IS), development of system plans, and performance of IS diagnostic studies. (1987-1990)

PROJECT MANAGER/ SYSTEMS ANALYST, Health Management Systems, New York, NY. Analyzed the collection, flow and usage of patient financial information in major urban hospitals. Designed and developed computer billing systems to increase revenue and consulted with hospital personnel to improve existing billing methodology. (1982-1987)

DATA ANALYST, New England Regional Burn Program, Boston, MA (1980-1982)

PLANNING AND MARKETING ASSISTANT, Children's Hospital, Boston, MA (1979-1980)

JOURNAL RESPONSIBILITIES

Ophthalmology: reviewer since 2013
Journal of Ophthalmology: reviewer since 2013
American Journal of Ophthalmology: reviewer since 2012
Journal of Clinical Ophthalmology: reviewer since 2012

RESEARCH IN PROGRESS

Review article "Managing Retained Lens Fragments: Guidance for cataract and retina surgeons based on literature review and recent analyses" with Dr. Michael Stewart, Chief of the Department of Ophthalmology, Mayo Clinic College of Medicine for *US Ophthalmic Review*, anticipated publication spring 2014.

Systematic Review, Meta-Analysis, and Cost-Effectiveness Analysis of primary vitrectomy for Diabetic Macular Edema with Dr. Michael Stewart, Chief of the Department of Ophthalmology, Mayo Clinic College of Medicine and Dr. Maurice Landers, University of North Carolina.

Article for submission to the journal *Systematic Reviews* describing alternate approaches for estimating the variance of a proportion, when performing a meta-analysis, in cases of zero events (or zero non-events) when traditional variance estimation is impossible.

Vanner EA & Stewart MW. (2013) Comparing same-day vs. delayed vitrectomy clinical outcomes after intravitreal retained lens fragments: an evidence-based review. Under review at *Ophthalmology*.

PEER REVIEWED PUBLICATIONS

Vanner EA, Stewart MW, Liesegang TJ, Bendel RE, Bolling JP, & Hasan SA. (2012) A Retrospective Cohort Study of Clinical Outcomes for Intravitreal Crystalline Retained Lens Fragments after Age-Related Cataract Surgery: A Comparison of Same-Day versus Delayed Vitrectomy. *Journal of Clinical Ophthalmology* 6, 1135-1148 PMID: 22888212

The article above was listed as the top article in MD Linx Ophthal (July 19, 2012) among articles "Ranked, sorted, and summarized by MDLinx editors from the latest literature," <http://www.mdlinx.com/ophthalmology/news.cfm> and appeared second in the BioMedLib list of the top 20 articles in "Who is Publishing in My Domain?".

Vanner EA & Stewart MW. (2011) A Systematic Review / Meta-Analysis of the Effects of the Timing of Pars Plana Vitrectomy for Removal of Intravitreal Retained Lens Fragments after Surgery for Age-Related Cataracts. *American Journal of Ophthalmology* 152(3), 345-351.e3 PMID: 21683330

The article above was the lead article in September 2011; listed first in the American Academy of Ophthalmology's Academy Express (August 31, 2011) under New

Journal Studies; listed first in the Ophthalmology Best Evidence Newsletter of October 5, 2011; appeared first in the BioMedLib list of the top 20 articles in "Who is Publishing in My Domain?" and #23 on the list of most often downloaded articles from the American Journal of Ophthalmology for 2011.

Ali MM, Dwyer DS, **Vanner EA**, & Lopez A. (2010) Adolescent Propensity to Engage in Risky Behaviors: The Role of Individual Resilience. *Int. J. Environ. Res. Public Health* 7(5), 2161-2176; doi:[10.3390/ijerph7052161](https://doi.org/10.3390/ijerph7052161) PMID:20623017.

Horowitz, B & **Vanner, EA**. (2010) Relationships Between Active Engagement in Life Activities and Quality of Life for Assisted-Living Residents. *Journal of Housing for the Elderly* 24(2), 130-150.

Block P, **Vanner EA**, Keys CB, Rimmer JH, & Skeels SE. (2010) Project Shake-It-Up! An Empowerment Model of Disability, Capacity Building and Health Promotion. *Journal of Disability and Rehabilitation* 9, 741-754 PMID:20302442.

Vanner EA, Block P, Christodoulou CC, Horowitz, BP, & Krupp LB (2008) Pilot Study Exploring Quality of Life and Barriers to Leisure-Time Physical Activity in Persons with Moderate to Severe Multiple Sclerosis. *Disability and Health Journal* 1, 58-65 PMID:21122712.

Lopez A, **Vanner EA**, Cowan A, Samuel A, Shepherd D (2008) Intervention Planning Facets-Four Facets of Occupational Therapy Intervention Planning: Economics, Ethics, Professional Judgment, and Evidence-Based Practice. *American Journal of Occupational Therapy* 62(1), 87-96 PMID:18254435.

Horowitz, B, **Vanner, EA**, & Olowu T. (2006) Interdisciplinary Health Science Education to Promote Cultural Competence. *Journal of Allied Health* 35(4), e343-358.

CONFERENCE PAPER PRESENTATIONS

Vanner EA & Stewart MW. (2010) A Systematic Review / Meta-Analysis of the Effects of the Timing of Pars Plana Vitrectomy for Removal of Intravitreal Retained Lens Fragments after Surgery for Age-Related Cataracts. 43rd Annual Retina Society Meeting, San Francisco, CA. September 23-26, 2010.

Horowitz B, Olowu T, & **Vanner EA**. (2004) Strategies to Promote Culturally Competent Occupational Therapy Practice. American Occupational Therapy Association Conference, Minneapolis, MN. May 2004

CONFERENCE POSTER PRESENTATIONS

Timko-Swaim, L, Kuemmel, PD, Thailer, R & **Vanner EA** (2012) Perspectives on Audience Response System Use: Is it for Everyone? New York State Society of Physician Assistants Fall CME Conference. Tarrytown, NY. October 19-21, 2012.

Horowitz B & **Vanner EA**. (2009-10). The Relationships Between Active Engagement in Everyday Occupations and Quality of Life for Older Adults in Residential Communities. New York State Society on Aging Conference, Rochester, NY. October 15-17, 2009; American Occupational Therapy Association, Orlando, FL. April 29 – May 2, 2010, 2010; World Federation of Occupational Therapists Congress, Santiago, Chile. May 4-7, 2010.

Santasier A, **Vanner EA**, & DeChiaro-Pfisterer AM, (2008) A Quantitative and Qualitative Analysis of PT Student Failure: Factors that Contribute to Poor Performance on the National Physical Therapy Licensing Exam. Combined Sections Meeting of the American Physical Therapy Association, Nashville, TN. February 2008.

Ortega RM, Blatt D, & **Vanner EA**. (2007) The Impact of Learning Styles on Blackboard Website Usage. Conference on Instructional Technology, Plattsburg, NY, May 2007.

Horowitz B, Lee J, Soin S, Wan WL, Block P, & **Vanner EA**. (2005). Valued Activities, Daily Routines, and Roles among Church Affiliated Chinese and Korean American Elders. Gerontological Society of America Annual Meetings, Orlando, Florida, November, 19 2005.

Badalamenti C, Cheung H, Liu A, Block P, **Vanner, EA.**, & Horowitz B (2005). Three barriers in multiple sclerosis to physical and recreational activities: depression, fatigue, and cognitive impairments. American Occupational Therapy Association 2005 Annual Meeting, Long Beach, California, May 13, 2005.

Soin S, Wan WL, Horowitz B, Block P, & **Vanner EA**. (2005). The influence of occupations and roles within family life on perceived quality of life among Chinese and Korean American elders. American Occupational Therapy Association 2005 Annual Meeting, Long Beach, California, May 13, 2005.

Brtalik L, Farkas T, Nguyen M, Horowitz B, Block P, & **Vanner, EA**. (2005). The Influence of Leisure/Social Activities on Quality of Life of Assisted Living Residents. American Occupational Therapy Association 2005 Annual Meeting, Long Beach, California, May 13, 2005.

Grande R, McLaughlin J, Virag S, Clark-Brown VJ, & **Vanner, EA**. (2005) Undergraduate College Students' Knowledge and Value of the Occupational Therapy Profession. American Occupational Therapy Association 2005 Annual Meeting, Long Beach, California, May 13, 2005.

EDUCATIONAL PRESENTATIONS

Research Seminar: School of Health Technology and Management, Stony Brook University, Stony Brook, NY – October 10, 2012. Topic: Study Design and Analysis of a Small, Non-Randomized Data Set.

Ophthalmology Grand Rounds: Stony Brook University Hospital, Stony Brook, NY - September 13, 2012. Topic: A Systematic Review / Meta-Analysis of the Effects of the Timing of Pars Plana Vitrectomy for Removal of Intravitreal Retained Lens Fragments after Surgery for Age-Related Cataracts: Same-Day vs. Delayed.

Research Seminar: School of Health Technology and Management, Stony Brook University, Stony Brook, NY – November 9, 2010. Topic: A Systematic Review and Meta-Analysis using Odds Ratios from Logistic Regression.

Doctoral Seminar: Department of Preventive Medicine, School of Medicine, Stony Brook University, Stony Brook, NY – March 5, 2012. Topic: A Systematic Review / Meta-Analysis of the Effects of the Timing of Pars Plana Vitrectomy for Removal of Intravitreal Retained Lens Fragments after Surgery for Age-Related Cataracts (preliminary results).

OTHER RESEARCH ACTIVITIES AND STATISTICAL CONSULTING

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| 2013 | Data analysis for Occupational Therapy Student and Practitioner Views About Gerontology/Geriatric Practice |
| 2012 | Consulting for data analysis of a Systematic Review / Meta-Analysis for Dr. Cecilia Avila for diagnostic equivalecy |
| 2012 | Power analysis for a study to determine the prevalence of Sleep Apnea in a pediatric population |
| 2011 | Medicare Inpatient Hospital Readmissions Reduction Program: Discussion of the Proposed Risk-Adjustment Methodology and Analysis of Stony Brook University Medical Center's Readmissions |
| 2011 | Review of a study screening instrument for a systematic review about referral, participation, and enrollment in cardiac rehabilitation |
| 2011 | Assistance in inter-rater reliability assessment of an instrument to evaluate clinical competence of respiratory therapy students |
| 2011 | Power analysis for a study on strength of adolescents with multiple sclerosis |
| 2010-2011 | Statistical analysis for Homeostasis Test Compatibility with Capped Tubes |
| 2010 | Consulting for data analysis of A Study of Leadership Behaviors among Chairpersons in Allied Health Programs |

- 2009 Study planning and data analysis assistance for a study to determine how and to what extent the use of blended learning formats facilitated clinical reasoning skills in occupational therapy students.
- 2008-2011 Research design and power analysis assistance for a multidisciplinary exercise and nutrition program that addresses the prevention of cardiovascular risk factors and childhood obesity
- 2008 Data analysis for Emergency Medical Technician training program evaluation
- 2008 Survey design assistance for Practice Patterns for Use of Therapeutic Ultrasound
- 2008 Data analysis for Chronic Stress and Associated Coping Strategies among Volunteer EMS Personnel.
- 2007-2008 Data analysis for Ethical Competence of Physical Therapists Practicing in the State of New York
- 2007-2008 Variability analysis of physician assistant students' performance on clinical exams
- 2007 Data analysis for Immediate Effects of a Pre-Performance Ankle Rehabilitation Program on Ankle Balance and Proprioception in Taped and Untaped conditions
- 2007 Integrating Research and Practice in Interdisciplinary Dementia Care to Support Family Caregivers
- 2006-2008 Data analysis for Environmental modifications: Impact on occupational performance, social participation, and quality of life
- 2005 Data analysis for Shake-It-Up: Health promotion and capacity building for people with Spinal Cord Injuries and related neurological disabilities
- 2005 Introducing disability studies to occupational therapy students. Special Issue on Occupational Therapy and Disability Studies
- 2004-2007 Data analysis for Making Dental Professionals Smile: How Knowledge & Utilization of Ergonomic Equipment Effects Levels of Reported Pain among Dental Professionals