

CURRICULUM VITAE
MARY KATHERINE O'NEILL RAYENS

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I. EDUCATION

<u>Dates</u>	<u>Degree</u>	<u>Institution</u>
1982 – 86	BS in Biology	University of Illinois at Urbana-Champaign
1987 – 89	MS in Statistics	University of Kentucky
1989 – 93	PhD in Statistics Dissertation: <i>Properties of Tango's Index for detecting clustering in time</i>	University of Kentucky

II. PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS

<u>Dates</u>	<u>Title</u>	<u>Institution</u>
1988 – 1990	Biostatistical Consultant	Colleges of Medicine and Dentistry, University of Kentucky
1990 – 1992	Research Associate	College of Nursing, University of Kentucky
1992 – 2002	Associate Director, Biostatistics Consulting Unit	Medical Center, University of Kentucky
1998 – 1999	Research Assistant Professor	College of Nursing and Department of Pediatrics, University of Kentucky
1999 – 2001	Research Assistant Professor	College of Nursing, Department of Pediatrics, and School of Public Health, University of Kentucky
2001 – 2006	Research Associate Professor	College of Nursing, Department of Pediatrics, and School (eventually College) of Public Health, University of Kentucky
2006 – 2008	Associate Professor	Colleges of Nursing and Public Health, University of Kentucky
2008 – present	Professor	Colleges of Nursing and Public Health, University of Kentucky

II. AWARDS

- 1993 Student prize and travel fellowship from the International Biometric Society, Eastern North American Region, for the paper presentation “Properties of Tango’s index for detecting clustering in time” (by **O’Neill, M.K.**).
- 1995 Recipient of the ‘Best of *Image* Award’ from Sigma Theta Tau International at the 33rd Biennial Convention for the article “Childhood physical and sexual abuse: Their relationship with depressive symptoms in adulthood” (by Hall, L.A., Sachs, B., **Rayens, M.K.**, and Lutenbacher, M. (1993). *Image: The Journal of Nursing Scholarship*, 25, 317-323).
- 1995 First place award in the D. Jean Wood Nursing Scholarship Contest sponsored by the Southern Nursing Research Society for the paper presentation “Mothers’ potential for child abuse: The roles of childhood abuse and social resources” (by Hall, L.A., Sachs, B., and **Rayens, M.K.**).
- 1998 First place award in the D. Jean Wood Nursing Scholarship Contest sponsored by the Southern Nursing Research Society for the paper presentation “Prevalence and correlates of depressive symptoms in college women” (by Peden, A.R., Hall, L.A., **Rayens, M.K.**, and Payne, L.).
- 1999 First place award in the D. Jean Wood Nursing Scholarship Contest sponsored by the Southern Nursing Research Society for the paper presentation “Kindergarten children’s knowledge of alcohol, tobacco, and other drugs” (by Hahn, E.J., Hall, L.A., **Rayens, M.K.**, Burt, A.V., Flathman, O., and Sheffel, K.L.).
- 2002 Editor’s choice award given by *American Journal of Orthodontics and Dentofacial Orthopedics* for the paper “The efficacy of a wax containing benzocaine in the relief of oral mucosal pain caused by orthodontic appliances” (by Kluemper, G.T., Hiser, D.G., Jay, M.J., and **Rayens, M.K.**).
- 2002 University of Kentucky Wethington Award for research excellence and productivity.
- 2003 Second place award for the poster “Mental health of rural adolescents” (by Peden, A.R., Reed, D.B. and **Rayens, M.K.**) presented at the 17th Annual Meeting of the American Psychiatric Nurses Association, Atlanta, GA, October 2003.
- 2005 – 2021 Annual University of Kentucky Wethington Awards for research excellence and productivity.
- 2007 Best of conference award for the poster, “Factors related to quality of life for adolescents with asthma and their parents,” (by Svavarsdottir, E.K., Burkhart, P.V., Orlygsdottir, B., **Rayens, M.K.**, and Westneat, S.) Presented at the Royal College of Nursing Annual International Nursing Research Conference, Dundee, Scotland, May 2007.

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Mary Kay Rayens, PhD

- 2007 Recipient of the 'Best of *Journal of Nursing Scholarship Award*' in the Clinical Scholarship category from Sigma Theta Tau International at the 39th Biennial Convention for the article "Testing an intervention to reduce negative thinking, depressive symptoms, and chronic stressors in low-income single mothers." (by Peden, A.R., **Rayens, M.K.**, Hall, L.A., and Grant, E. (2005). *Journal of Nursing Scholarship*, 37(3), 268-274).
- 2008 First place student poster award for the poster, "GIS mapping: Tobacco smoke, radon, and lung cancer," (by Hayes, G., **Rayens, M.K.**, and Robertson, H.). Presented at the Southern Nursing Research Society Annual Conference, Birmingham, AL, February 2008.
- 2010 Student Poster Showcase Award for Tobacco Use Prevention, presented by the Alcohol, Tobacco and Other Drugs Section, for the poster, "Quality improvement, clinician attitudes, and referrals to tobacco treatment counseling programs," (by Cassidy, K., Hahn, E.J., and **Rayens, M.K.**). Presented at the American Public Health Association 138th Annual Meeting, Denver, CO, November 2010.
- 2019 2019 Michael P. O'Donnell Paper of the Year for: Ickes, M.J., Wiggins, A., **Rayens, M.K.**, Edward, J., and Hahn, E.J. (2018). Employee adherence to a tobacco-free executive order in Kentucky. *American Journal of Health Promotion*.

III. TEACHING

Classes

- 1996-1998 NUR776 (Special Topics Seminar): Analysis, Interpretation, and Presentation of Quantitative Data
3 credit hours; Spring of each year; 5-6 PhD students and 45 contact hours per class
- 1999-2001 NUR794 Analysis, Interpretation, and Presentation of Quantitative Data
3 credit hours; Spring of each year; 2-5 PhD students and 45 contact hours per class
- 2002-2017 NUR903 Applied Biostatistics for Outcomes Evaluation (Spring section)
4 credit hours; Spring each year; Class sizes ranged from 5 to 34 DNP students; 16 in-class contact hours during 4 meeting days with the remainder of interaction via the posted course materials, Adobe connect, email, phone and office hours.
- 2016-2017 NUR903 Applied Biostatistics for Outcomes Evaluation (Fall section)
4 credit hours; Fall each year; Class size approximately 20 DNP students; 16 in-class contact hours during 4 meeting days with the remainder of interaction via the posted course materials, Adobe connect, email, phone and office hours.
- 2007 NUR794 Analysis, Interpretation, and Presentation of Quantitative Data
3 credit hours; Spring; 11 PhD students; 45 contact hours
- 2008 NUR620 Independent Study in Analysis, Interpretation, and Presentation of Quantitative Data
3 credit hours; Spring; 1 PhD student; approximately 20 contact hours

- 2018-2020 NUR903 Applied Biostatistics for Outcomes Evaluation (Fall section)
3 credit hours; Fall each year; Class size approximately 25 DNP students; completely online except for a short introduction to the immersion format at the beginning of the semester; all remaining interaction via the posted course materials, Zoom reviews, email, phone and office hours.
- 2019-2020 NUR 793: Measurement of Nursing Phenomena
4 credit hours; Spring 2019 and Fall 2020; about 4 PhD students per semester and approximately 25 in-class contact hours (team taught)
- 2019 NUR794 Analysis, Interpretation, and Presentation of Quantitative Data
3 credit hours; Spring 2019; 7 PhD students; approximately 20 in-class contact hours (team taught)

Short Courses and Guest Lectures

- 1993-1994 Presented a six-week short course entitled 'Biostatistical Methods' to faculty and residents in Internal Medicine; Spring of each year.
- 1997 Presented an eight-week course entitled 'Biostatistical Methods for Clinical Research' to faculty and residents in Neonatology; Summer.
- 1998 Discussed power estimation in the context of hypothesis testing and experiment planning for NUR792 students; 11/18/98.
- Discussed the use of parametric and nonparametric statistics in medical research, presented examples and provided graphs for NUR839 students; 10/14/98.
- 1999 Presented a lecture on the use of biostatistics in clinical research at the Residency Research Retreat for the College of Pharmacy; 8/5/99.
- Presented a two-lecture short course on biostatistical methods for injury data to the faculty and staff of the Kentucky Injury Prevention Center; 9/15/99 and 12/15/99.
- Discussed power estimation in the context of hypothesis testing and experiment planning for NUR792 students; 12/1/99.
- 2000 Presented a lecture on the use of biostatistics, including analysis methods and sample size calculation, to the Nephrology, Bone and Mineral Metabolism, Division of Internal Medicine; 5/3/00.
- Presented a lecture on the use of biostatistics in clinical research at the Residency Research Retreat for the College of Pharmacy; 8/10/00.
- Discussed power estimation in the context of hypothesis testing and experiment planning for NUR792 students; 11/29/00.

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Mary Kay Rayens, PhD

- 2001 Presented a lecture on the appropriate methods for the assessment of change in quantitative data to NUR793 students; 4/16/01.
- Discussed the use of biostatistics in clinical research at the Residency Research Retreat for the College of Pharmacy; 8/9/01.
- Discussed power estimation in the context of hypothesis testing and experiment planning for NUR792 students; 9/26/01.
- 2005 Presented a lecture on logistic regression to NUR794 students; 4/6/05.
- 2007 Presented a lecture on power analysis to NUR792 students; 11/14/07.
- 2008 Presented a lecture on power analysis to NUR792 students; 11/5/08.
- 2009 Discussed the use of research findings in policy development with NUR 778 students; 3/25/09.
- Presented a lecture on power analysis to NUR792 students; 11/4/09.
- 2010 Presented a lecture on factor analysis and reliability to NUR793; 2/24/10.
- 2010-2018 Presented a lecture on power analysis to NUR792 students; Fall of each year.
- 2020-2021 Presented a lecture on developing Results sections for publications (including organizing text, and making tables and figures) to NUR772 students; Spring of each year.

III. ADVISING ACTIVITY

Advising Statement:

Since 1992, I have advised more than 400 graduate students from the Colleges of Nursing, Medicine, Dentistry, Pharmacy, and Health Sciences on planning, conducting, and/or analyzing data from their research projects. Advising topics include experimental design, power analysis, data collection, data entry, data analysis, and how to summarize results. Since 1999, I have served and/or currently serve as a co-chair, committee member, or outside examiner on the following dissertation, thesis, or capstone committees or as advisor for the following undergraduate research interns:

Co-chair for:

Lou Ann Hartley, PhD in Nursing, 2003 (Dissertation: *Longitudinal analysis of access to health care, use of preventive health services, and practice of health-related behaviors of Appalachian and non-Appalachian adults in Kentucky*).

Gwendolyn Hayes Rinker, PhD in Nursing, 2009 (Dissertation: *Factors associated with residential radon testing intentions*).

Sarah Morris, PhD in Public Health, 2017 (Dissertation: *Methods for determining time to return to play after recreational injury in field and court sport athletes*).

Nicholas Conley, MPH in Public Health, 2019.

PhD Committee member for:

Terri Loan, PhD in Nursing, 2000 (Dissertation: *Predictors of ICU outcome in adults with severe traumatic brain injury*).

Barbara Nunley, PhD in Nursing, 2002 (Dissertation: *Stress, hardiness, and psychological distress of elderly spousal caregivers of persons with dementia*).

Stanley (Lee) Ridner, PhD in Nursing, 2004 (Dissertation: *Predicting smoking status in a college-age population*).

Sukjai Charoensuk, PhD in Nursing, 2005 (Dissertation: *Factors influencing depression in Thai adolescents*).

Chizimuzo Okoli, PhD in Nursing, 2005 (Dissertation: *Psychobehavioral effects of secondhand tobacco smoke exposure*).

Esam Al Khasib, PhD in Nursing, 2006 (Dissertation: *Patterns of colorectal cancer in Appalachian Kentucky*).

Nancy York, PhD in Nursing, 2006 (Dissertation: *Community readiness and local smoke-free policy development*).

Jennifer Hatcher, PhD in Nursing, 2006 (Dissertation: *The mental health of African American single mothers*).

Kristin Ashford, PhD in Nursing, 2007 (Dissertation: *Secondhand smoke exposure during and after pregnancy*).

Karen Heaton, PhD in Nursing, 2007 (Dissertation: *Feedback Actigraphy and Sleep in Long-Haul Truckers*).

Robert (Tony) English, PhD in Physical Therapy, 2008 (Dissertation: *Clinical functional testing in people 30-60 years old: Expected performance values and correlations to muscle fitness and activity level*).

Kanok-on (Ann) Chaowiang, PhD in Nursing, 2008 (Dissertation: *The Path Analytic Model of Depressive Symptoms among Thai Adolescents*).

Suzette Sewell Scheuermann, PhD in Nursing, 2008 (Dissertation: *Sleep Disturbances and Sleep Quality in Women with Fibromyalgia*).

Alison Connell, PhD in Nursing, 2010 (Dissertation: *Tobacco-free Prison Policies and Health Outcomes Among Inmates*).

Karma Cassidy, PhD in Nursing, 2010 (Dissertation: *Health System Processes, Clinician Attitudes, and Referrals to Tobacco Treatment Programs*).

Amanda Fallin, PhD in Nursing, 2011 (Dissertation: *Implementation Effectiveness of Tobacco-free Campus Policies*).

Audrey Darville, PhD in Nursing, 2012 (Dissertation: *Smoking Cessation in Persons with Medical Illness*)

Jessica Wilson, PhD in Nursing, 2012 (Dissertation: *Characteristics of All-terrain Vehicles and their Operators on Kentucky Farms*).

Liz Sturgeon, PhD in Nursing, 2012 (Dissertation: *Glycemic Variability and Respiratory and Peripheral Muscle Function in Critically Ill Ventilator-dependent Adults*).

Gwen Hooper, PhD in Nursing, 2013 (Dissertation: *Influence of Coping Styles on Anxiety Levels, Perceived Severity of Illness, Satisfaction with Information Received, and Relationship between Perceived Severity of Illness and Gleason Score of Patients Diagnosed with Prostate Cancer*).

Roxanne Bowman, PhD in Nursing, 2013 (Dissertation: *The Factors that Influence Duration of Exclusive Breastfeeding: A Mixed Methods Design*).

Lisa Jones, PhD in Nursing, 2014. (Dissertation: *The Utility of the U.S. Diabetes Conversation Map as an Intervention to Promote Diabetes Self-Management Adherence*).

Lisa Greathouse-Maggio, PhD in Nursing, 2015. (Dissertation: *Stigma, Anxiety, Depression and Lung Cancer*).

Julia Hall, PhD in Nursing, 2015. (Dissertation: *The Impact of Prenatal Depressive Symptoms, Intimate Partner Relationship and Immune Status on Postpartum Depression*).

Karen Damron, PhD in Nursing, 2016. (Dissertation: *An examination of maternal stress and secondhand smoke exposure on perinatal smoking status*).

Anna Olafia Siguroardottir, PhD in Nursing from the University of Iceland, 2016. (Dissertation: *Family Systems Nursing Interventions in Pediatrics*).

Zohn Centimole, PhD in Nursing, 2016 (Dissertation: *A Randomized Controlled Trial of Anesthesia Guided by BIS vs. Standard Care and Effects on Cognition*).

Stephanie Kehler, PhD in Nursing, 2017 (Dissertation: *Examining Biological and Psychological Variables in Hypertensive Disorders of Pregnancy*).

Hartley Feld, PhD in Nursing, 2018 (Dissertation: *Reproductive autonomy: Social context of pregnancy intention, a local to global approach*).

Arica Brandford, PhD in Nursing, 2019 (Dissertation: *An examination of race-based discrimination, depression, and occupational stress in black registered nurses*).

Cheryl Witt, PhD in Nursing, 2019 (Dissertation: *Depressive symptoms among farm women aged 50 and older*).

Stacy Stanifer, PhD in Nursing, 2020 (Dissertation: *Residential Radon Exposure, Its Contribution to Lung Cancer, and Social Determinants of Radon Testing*).

Yazan Al-Mrayat, PhD in Nursing, 2020 (Dissertation: *Tobacco use and nicotine withdrawal among patients with mental illness*).

Ásta Bjarney Pétursdóttir, PhD in Nursing (University of Iceland), 2020. (Dissertation: *Family Nursing Strengths-Orientated Supportive Intervention in Specialized Palliative Home Care Setting*).

Martha Monroe, PhD in Nursing, 2020. (Dissertation: *Establishing Exclusive Breastfeeding and the Influence of Hospital Support*.)

Kacy Allen-Bryant, PhD student in Nursing.

Lori Ogden, PhD student in Nursing.

Sara Duggan, PhD student in Nursing.

Amani Kappi, PhD candidate in Nursing.

Heather Russell, PhD student in Nursing.

Julie Derringer, PhD student in Nursing.

DNP Committee member for:

Deborah Whitehurst, DNP in Nursing, 2018 (PIP: *Antibiotic Prescribing for Treatment of Acute Pediatric Illnesses By Advanced Practice Nurses*).

Master's or Capstone Committee member for:

Doug Hiser, MS in Orthodontics, 1999.

Faraj Behbehani, MS in Orthodontics, 2000.

Jeffrey Hendrix, MS in Orthodontics, 2001.

Flora Chen, MS in Orthodontics, 2002.

Brian Hardy, MS in Orthodontics, 2002.

Michael Cherubini, MS in Orthodontics, 2003.

Ross Russell, MS in Orthodontics, 2003.

Mei Zhang, MPH, 2005.

Fawwaz Abdel Al Aloul, MPH, 2007.

Nicholas Conley, MPH, 2019.

Outside examiner for:

Attila Cseh, PhD in Economics, 2006 (Dissertation: *The labor market and mental health*).

Debra Huss, PhD in Psychology, 2007 (Dissertation: *Comorbidity of pediatric migraine and sleep disturbances: The role of a dysfunctional autonomic nervous system*).

Lei Yu, PhD in Statistics, 2008 (Dissertation: *Extended polychotomous logistic Markov model for longitudinal categorical responses*).

Stephanie Moore, PhD in Rehabilitation Sciences, 2013. (Dissertation: *Predictors of outcome following standardized rehabilitation for patients with shoulder pain*).

Sara Shaunfield, PhD in Communication, 2015. (Dissertation: *"It's a very tricky communication situation": A comprehensive investigation of end-of-life family caregiver communication burden*).

Natalie Myers, PhD in Rehabilitation Sciences, 2016. (Dissertation: *A Biomechanically Based Analysis Method Used to Assess Tennis Serve Mechanics*).

Timothy Benedict, PhD in Rehabilitation Sciences, 2018. (Dissertation: *Tissues and trauma: Pain neuroscience education for veterans with post-traumatic stress and low back pain*).

Amy Schuster, PhD in Gerontology, 2020. (Dissertation: *Communication Technology Intention to Use and Use by Cognitively Intact Long-Term Nursing Home Residents*).

Undergraduate research intern advisor for:

David Nicholson, BSN student (Fall 2007)

IV. RESEARCH AND CREATIVE PRODUCTIVITY

Funded External Grants: 1998 – 2014

Title: Prevention of Depression in College Women: A Pilot Study (Ann Peden, PI)
Role: Co-investigator
Agency: NINR, NIH
Grant #R15 NR04203, 9/15/96 – 6/30/99, \$102,900

Title: School/Home-based Drug Prevention with Families at Risk (Ellen Hahn, PI)
Role: Co-investigator
Agency: NINR, NIH
Grant #R15 NR04216-01A1, 8/1/97 – 7/31/98, \$102,130

Title: Tobacco Policy Study (Ellen Hahn, PI)
Role: Co-investigator
Agency: Robert Wood Johnson Smokeless States Program and the Coalition for Health and Agricultural Development
1997 – 98, \$121,978

Title: Impact of Occupational Therapy on the Health Status of Elderly Veterans (Don Holleman, PI)
Role: Biostatistician
Agency: Veterans Affairs Health Services Research and Development Service
Grant #W98 0540, 10/1/98 – 9/30/01, \$335,400

Title: Biobehavioral Outcomes in Nutritional Supplementation (Mary DeLetter, PI)
Role: Co-investigator
Agency: NINR, NIH
Grant #R55 NR04126-01, 9/30/96 – 9/29/99, \$100,000

Title: Pilot Assessment of Home Health Services (Mary DeLetter, PI)
Role: Consultant
Agency: Department of Veterans Affairs MidSouth Network
12/97 – 12/98, \$20,400

Title: Community Partnerships in Tobacco Prevention and Reduction (Ellen Hahn, PI)
Role: Co-investigator
Agency: CDC (via a contract with the Lexington Fayette-County Health Department)
9/1/98 – 8/31/99, \$24,500

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Title: Community Partnerships in Tobacco Prevention and Reduction (Ellen Hahn, PI)
Role: Co-investigator
Agency: CDC (via a contract with the Lexington Fayette-County Health Department)
9/1/99 – 8/31/00, \$70,051

Title: Community Partnerships in Tobacco Prevention and Cessation (Ellen Hahn, PI)
Role: Co-investigator
Agency: CDC (via a contract with the Kentucky Department of Public Health)
9/1/00 – 6/30/01, \$245,070

Title: Kentucky Behavioral Health Reform Monitoring Project (Pat Howard, PI)
Role: Co-investigator
Agency: US Department of Health and Human Services, Substance Abuse and Mental Health Services, Center for Mental Health Services
8/99 – 12/00, \$197,314

Title: Quality Improvement Hospital Outcomes Study at Central State Hospital, Louisville, Kentucky (Phase 1 and Phase 2), and at Western State Hospital, Hopkinsville, Kentucky (Phase 3); (Pat Howard, PI)
Role: Co-investigator
Agency: Cabinet for Human Resources, Commonwealth of Kentucky, Department for Mental Health and Mental Retardation Services
2/98 – 1/01, \$131,000

Title: Community Partnerships in Tobacco Prevention and Cessation (Ellen Hahn, PI)
Role: Co-investigator
Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/01 – 6/30/02, \$236,647

Title: Prevention of Depression in Low-income Single Mothers (Ann Peden, PI)
Role: Co-investigator
Agency: NINR, NIH
4/00 – 3/03, \$684,325

Title: Sustained Work Indicators of Older Farmers (Deborah Reed, PI)
Role: Co-investigator
Agency: NIOSH/CDC
9/01 – 9/07, \$1,188,250

Title: Evaluation of Farm Safety 4 Just Kids Day Camps (Deborah Reed, PI)
Role: Co-investigator
Agency: NIOSH/CDC
9/01 – 9/05, \$590,485

Title: Testing the Effect of a Multi-component Statewide Tobacco Contest (Ellen Hahn, PI)
Role: Co-investigator
Agency: American Legacy Foundation

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9/01 – 8/02, \$100,000

Title: Multi-center Study: A Cross-sectional and Longitudinal Assessment of Outcome Instruments in Patients with Ambulatory Cerebral Palsy (Chester Tylkowski, PI)

Role: Biostatistician

Agency: Shriners Hospitals for Children, Corporate Research
2001 – 04, \$784,323

Title: Promoting Children's Adherence to Asthma Self-Management (Pat Burkhart, PI)

Role: Co-investigator

Agency: NINR, NIH
8/02 – 7/06, \$146,250

Title: Testing the Effect of a Multi-component Statewide Smoking Cessation Contest (Continuation Funding Request; Ellen Hahn, PI)

Role: Co-investigator

Agency: American Legacy Foundation
8/02 – 7/03, \$29,275 (with an additional \$29,275 funded by the UK Markey Cancer Center)

Title: Community Partnerships in Tobacco Prevention and Cessation (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/02 – 6/30/03, \$161,425

Title: Development of an Academic Nurse-Managed Center Survey and Database (Julie Sebastian and Marcia Stanhope, Co-PIs)

Role: Co-investigator

Agency: Michigan Academic Nursing Consortium
1/1/03-12/15/03, \$100,000.

Title: Biobehavioral Intervention in Heart Failure (Debra Moser, PI)

Role: Co-investigator

Agency: NINR, NIH
6/04 – 2/09, \$1,584,335

Title: Physiologic and Behavioral Mechanisms Linking Depression with Increased Morbidity and Mortality in Patients with Heart Failure (Debra Moser, PI)

Role: Co-investigator

Agency: American Association Critical Care Nurses
6/03 – 4/07, \$98,838

Title: Community Partnerships for Tobacco Prevention and Reduction (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/03 – 6/30/04, \$180,000

Title: Breaking the Cycle: Smoking Intervention with Youth in Families Dealing with Lung Cancer (Catherine Martin, PI)

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Role: Co-investigator

Agency: Kentucky Lung Cancer Research Program
2/04 – 6/06, \$290,628

Title: Community Partnerships for Tobacco Prevention and Reduction (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/04 – 6/30/05, \$140,000

Title: Reducing SHTS: Cardiac and Asthma Outcomes (Ellen Hahn, PI)

Role: Co-investigator

Agency: Flight Attendant Medical Research Institute Clinical Innovator Award
7/04 – 6/07, \$325,062

Title: Smoke-free Laws and Employee Turnover (Ellen Hahn, PI)

Role: Co-investigator

Agency: Robert Wood Johnson Substance Abuse Policy Research Program
8/04 – 7/06, \$241,790

Title: Linkages between Anxiety and Outcomes in Heart Failure (Marla De Jong, PI)

Role: Advisor

Agency: TriService Nursing Research Program
4/05 – 3/06, \$40,078

Title: Community Partnerships for Tobacco Prevention and Reduction (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/05 – 6/30/06, \$150,000

Title: BMI, Nutrition, Inflammation and Heart Failure Outcomes (Terry Lennie, PI)

Role: Co-investigator

Agency: NIH, NINR
11/05 – 5/08, \$1,521,436

Title: Community Partnerships for Tobacco Prevention and Reduction (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)
7/1/06 – 6/30/07, \$110,000

Title: Impact of Family Distress and Burden in Patient Outcomes in Heart Failure
(Misook Chung, PI)

Role: Co-sponsor

Agency: NIH, NINR
7/1/06 – 6/30/09, \$280,961

Title: An Intervention for Promoting Smoke-free Policy in Rural Kentucky (Ellen Hahn, PI)

Role: Co-investigator

Agency: NCI, NHLBI

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4/1/07 – 3/31/12, \$3,173,787

Title: Community Partnerships for Tobacco Prevention and Reduction (Ellen Hahn, PI)

Role: Co-investigator

Agency: CDC (via a contract with the Kentucky Department of Public Health)

7/1/07 – 6/30/08, \$140,000

Title: HIV Testing Factors Among Rural/Small City Black Men (E.J. Brown, PI)

Role: Co-investigator

Agency: CDC

9/1/07 – 8/31/11, \$1,020,942

Title: Center for Biobehavioral Research in Self-Management of Cardiopulmonary Disease (Debra Moser, PI)

Role: Co-director of the Research Program Development, Data Analysis and Dissemination Core

Agency: NIH, NINR

9/1/07 – 6/30/12, \$1,285,375

Title: Older Mothers and Adult Daughters: High Blood Pressure Self Management Behaviors (Celeste Shawler, PI)

Role: Co-sponsor (statistician)

Agency: NIH; Funded

Title: Promoting Mammography in African American Women Visiting the Emergency Department (Jennifer Hatcher, PI)

Role: Co-sponsor

Agency: NIH; Funded

Title: Biobehavioral Cardiovascular Health Promotion Intervention in a State Prison System (Debra Moser, PI)

Role: Co-investigator

Agency: NIH, NINR; Funded

Title: Center for Excellence in Cardiopulmonary Health Promotion and Disease Prevention (Debra Moser, PI)

Role: Core faculty

Agency: NIH; Funded

Title: The Impact of Smoke-free Policy on Quitline Utilization and Smoking Outcomes (Anita Fernander, PI)

Role: Co-investigator

Agency: NIH/NCI
9/09 – 8/11, \$74,250

Title: A Model of Decision-making in Rheumatoid Arthritis (Elizabeth Salt, PI).

Role: Co-Investigator

Agency: American College of Rheumatology
7/10-6/13

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Title: COPD and Strength of Smoke-free Laws (Ellen Hahn, PI)
Role: Co-investigator
Agency: FAMRI
7/10-6/13

Title: Kentucky Center for Clinical and Translational Science (Philip Kern, PI).
Role: Program Faculty/Co-Investigator
Agency: NIH
6/11-2/15

Title: Nutrition Intervention to Reduce Symptoms in Patients with Advanced Heart Failure (Terry Lennie, PI).
Role: Co-Investigator
Agency: NIH
9/11-7/16, \$1,523,306

Title: FRESH: Dual Home Screening for Lung Cancer Prevention (Ellen Hahn, PI).
Role: Co-Investigator
Agency: NIH
9/12 – 5/17, \$2,155,905.

Title: Reducing Health Disparities in Appalachians with Multiple Cardiovascular Disease Risk Factors (Debra Moser, PI).
Role: Co-Investigator
Agency: PCORI
5/13-3/17, \$2,139,010.

Title: Reducing diabetes risk for Rural Appalachian Grandparent Headed Households (Jenna Hatcher, PI)
Role: Co-Investigator
Agency: National Institute Diabetes & Digestive & Kidney
7/14-4/17, \$590,217

Title: Promoting Colorectal Cancer Screening in Rural Emergency Departments (Jenna Hatcher, PI)
Role: Co-Investigator
Agency: NCI
9/14-8/17, \$359,528

Title: Clean Indoor Air Partnership: Radon 2015-2016 (Ellen Hahn, PI)
Role: Co-Investigator
Agency: Kentucky Department for Public Health
7/15-6/16, \$79,279

Title: Clean Indoor Air Partnership: Radon 2016-2017 (Ellen Hahn, PI)
Role: Co-Investigator
Agency: Kentucky Department for Public Health
7/15-6/16, \$130,000

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Title: A randomized controlled trial of anesthesia guided by BIS vs. standard care and effects on cognition (Debra Moser, PI)
Role: Biostatistician
Agency: American Association of Nurse Anesthetists
7/14-11/15, \$26,700

Title: Effects of Family Sodium Watchers Program on Outcomes in Heart Failure Patient-Family Caregiver Dyads (Misook Chung, PI)
Role: Co-investigator
Agency: National Institute of Nursing Research
9/14-7/19, \$2,414,267

Title: Peer Counseling Intervention to Enhance Breastfeeding in Low-Income Infant-Mother Dyads in Central Kentucky (Ana Maria Linares, PI)
Role: Co-sponsor
Agency: Passport Health Plan
12/15-11/16, \$50,547

Title: Prescription for Radon (Ellen Hahn, PI)
Role: Co-investigator
Agency: Kentucky Department for Public Health
4/15-6/15, \$30,487

Title: The impact of electronic cigarettes (e-cigs) on perinatal immune responsiveness and birth outcomes in Appalachia (Kristin Ashford, PI)
Role: Co-investigator
Agency: National Institute on Drug Abuse
9/15-7/19, \$2,287,683

Funded Internal Grants: 1998 – present

Title: Factors Correlated with Admission to Extended Care for Older Veterans with a Diagnosis of Dementia (Philip DeSimone, PI)
Role: Consultant
Agency: College of Medicine Associate Dean for Research
9/98 – 9/99, \$3,339

Title: Training and Implementation Fidelity of the Life Skills Training Program in Kentucky (Ellen Hahn, PI)
Role: Co-investigator
Agency: UKMC Research Fund
7/99 – 6/00, \$15,000

Title: Improving Mental Health Outcomes Through a Primary Care Intervention (Ann Peden, PI)
Role: Co-investigator
Agency: UKMC Research Fund
8/99 – 7/00, \$15,000

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Title: Testing the Efficacy of a Smoking Cessation Program for College Students (Ruth Staten, PI)

Role: Co-investigator

Agency: UKMC Research Fund
7/99 – 6/00, \$15,000

Title: Testing the Effect of a Multi-component Statewide Smoking Cessation Contest (Continuation Funding Request; Ellen Hahn, PI)

Role: Co-investigator

Agency: UK Markey Cancer Center
8/02 – 7/03, \$29,275 (with an additional \$29,275 funded by the American Legacy Foundation)

Title: Mental Health and Smoking During and After Pregnancy (Ann Peden, PI)

Role: Co-investigator

Agency: UK Research Support Grant Program
2/04 – 1/05, \$18,100

Title: Factors Related to Quality of Life for Adolescents with Asthma and Their Parents (Pat Burkhart, PI)

Role: Co-investigator

Agency: UK Faculty Research Support Program
11/05-10/06, \$15,385

Title: Reaching Low Income Smokers through a Collaboration with County Extension Agents (Ellen Hahn, PI)

Role: Co-investigator

Agency: UK College of Agriculture HEEL Award

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Rayens, M.K., and Kryscio, R.J. (1993). Properties of Tango's Index for detecting clustering in time. *Statistics in Medicine*, 12, 1813-1827.

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Pavlik, E.J., Van Nagell, J.R., DePriest, P.D., Wheeler, L., Tatman, J.M., Boone, M., Sollars, S., **Rayens, M.K.**, and Kryscio, R.J. (1995). Participation in transvaginal ovarian cancer screening: Compliance, correlation factors, and costs. *Gynecologic Oncology*, 57, 395-400.

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Musgrave, Y.M., Davey, D.D., Weeks, J.A., Banks, E.R., **Rayens, M.K.**, and Ain, K.B. Assessment of fine-needle aspiration sampling technique in thyroid nodules. (1998). *Diagnostic Cytopathology*, 18, 76-80.

Hall, L.A., Sachs, B. and **Rayens, M.K.** (1998). Mothers' potential for child abuse: The roles of childhood abuse and social resources. *Nursing Research*, 47, 87-95.

Miller, C.S., Rolph, C., Lin, B., **Rayens, M.K.**, and Rubeck, R.F. (1998). Evaluation of a computer-assisted test engine in oral and maxillofacial radiography. *Journal of Dental Education*, 62, 381-385.

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- Salt, E., Wiggins, A.T., Hooker, Q., Crofford, L., Rayens, M.K., and Segerstrom, S. (2018). The effects of pain severity, pain catastrophizing, depression and exercise on perceived disability in acute low back pain patients. *Research and Theory for Nursing Practice*, 32(4), 436-448.
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Mary Kay Rayens, PhD

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- Odom-Forren, J., Brady, J., Wentz, S., Edwards, J.M., **Rayens, M.K.**, and Sloan, P. (2021). Perianesthesia nurses' knowledge, attitude, and intention to promote safe use, storage, and disposal of opioids. *Journal of PeriAnesthesia Nursing*. doi.org/10.1016/j.jopan.2021.06.091
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- Smith, J., Mcneely, C., Chung, M.L., Miller, J.L., Biddle, M., Schuman, D.L., Rayens, M.K., Lennie, T.A., Hammash, M., Mudd-Martin, and Moser, D.K. (2022). Does perceived stress mediate the relationship between financial status, depression, and anxiety in caregivers at risk for cardiovascular disease (CVD)? *European Journal of Preventive Cardiology*. doi.org/10.1093/eurjpc/zwac056.299
- Kehler, S., Rayens, M.K., and Ashford, K. (2022). Determining psychological distress during pregnancy and its association with the development of hypertensive disorder. *Pregnancy Hypertension*. doi.org/10.1016/j.preghy.2022.02.009

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Mary Kay Rayens, PhD

Stanifer, S.R., **Rayens, M.K.**, Wiggins, A., Gross, D., and Hahn, E.J. (2022). Home Radon Testing in Rural Appalachia. *Journal of Rural Health*, 38(1), 251-261. doi: 10.1111/jrh.12552. PMID: 33382465

Edward, J.S., **Rayens, M.K.**, Zheng, X., and Vanderpool, R.C. (2021). The association of health insurance literacy and numeracy with financial toxicity and hardships among colorectal cancer survivors. *Supportive Care in Cancer*, 29(10), 5673-5680. doi: 10.1007/s00520-021-06036-9. PMID: 33594514

Smith, J.L., Chung, M.L., Miller, J.L., Biddle, M., Schuman, D.L., **Rayens, M.K.**, Lennie, T.A., Smalls, B., Hammash, M., Mudd-Martin, G., and Moser, D.K. (2022). Profile of informal rural Appalachian caregivers of patients with chronic illnesses. *Journal of Rural Health*, 38(1), 240-250. doi: 10.1111/jrh.12560. PMID: 33644897

Wheeler, K.J., Miller, M., Pulcini, J., Gray, D., Ladd, E., and **Rayens, M.K.** (2022). Advanced Practice Nursing Roles, Regulation, Education, and Practice: A Global Study. *Annals of Global Health*. doi: 10.5334/aogh.3698. PMID: 35755314

Stanifer, S.R., **Rayens, M.K.**, Wiggins, A., and Hahn, E.J. (2021). Social Determinants of Health, Environmental Exposures and Home Radon Testing. *Western Journal of Nursing Research*. doi: 10.1177/01939459211009561. PMID: 33882759

Salt, E., Wiggins, A.T., Cooper, G.L., Benner, K., Adkins, B.W., Hazelbaker, K., and **Rayens, M.K.** (2021). A comparison of child abuse and neglect encounters before and after school closings due to SARS-Cov-2. *Child Abuse & Neglect*. DOI: 10.1016/j.chiabu.2021.105132. PMID: 34082194

Salt, E., Wiggins, A.T., Cerel, J., Hall, C.M., Ellis, M., Cooper, G.L., Adkins, B.W. and Rayens, M.K. (2022). Increased rates of suicide ideation and attempts in rural dwellers following the SARS-CoV-2 pandemic. *Journal of Rural Health*. doi: 10.1111/jrh.12686. PMID: 35708462

Hahn, E.J., Rademacher, K., Bucher, A., Sine, K., Wiggins, A.T., and **Rayens, M.K.** (2022). Smoke-free policy disparities in long-term care facilities. *American Journal of Health Promotion*, 36(3), 403-609. doi: 10.1177/08901171211051333. PMID: 35068198

Rayens, M.K., McGeeney, T., Wiggins, A.T., Bucher, A., Ickes, M., Huntington-Moskos, L., Clark, P., and Hahn, E.J. (2022). Smoke-free ordinances and youth tobacco use in Kentucky. *American Journal of Health Promotion*, 36(4), 673-677. doi: 10.1177/08901171211066913. PMID: 35081759

Karr, A., **Rayens, M.K.**, and Scott, L. (2022). Neonatal abstinence syndrome: Effectiveness of targeted umbilical cord drug screening. *Journal of Perinatology*.

Middleton, S.R., Wiggins, A.T., **Rayens, M.K.**, McMullen, J., and Ickes, M. (2022). Risk factors of emerging adults reporting concurrent use of e-cigarettes with THC/cannabis. *Journal of Substance Use*. doi.org/10.1080/14659891.2022.2077250

Non-refereed Publications

- Hahn, E.J., **Rayens, M.K.**, Toumey, C.P. and McCoy, C.A. (October 1998). Building consensus with decision-makers in Kentucky (pp. 97-101). In No more lies: Truth or consequences for tobacco, case studies. Fourth Annual National Conference on Tobacco and Health, St. Paul, MN.
- Howard, P.B., Clark, J.J., **Rayens, M.K.**, Coyle, R., and Littrel, R. (September 1999). Satisfaction as an outcome indicator of quality in mental health services at Western State Hospital. This summary of study findings was submitted to the Director of Western State Hospital, Hopkinsville, KY.
- Howard, P.B., Clark, J.J., **Rayens, M.K.**, and Coyle, R. (June 2000). Satisfaction as an outcome indicator of quality in mental health services at Central State Hospital. This summary of study findings was submitted to the Director of Central State Hospital, Louisville, KY.
- Howard, P.B., **Rayens, M.K.**, Clark, J.J., and Coyle, R. (August 2000). Satisfaction with mental health services: Report on the Medicaid adult population. This summary of study findings was submitted to the Kentucky Department of Mental Health and Mental Retardation Services, Frankfort, KY.
- Hahn, E.J., Plymale, M.A., and **Rayens, M.K.** in collaboration with Lawther, G. and Dunne, L. (March 2001). Kentucky Youth Tobacco Survey 2000. This report summarizes the results of the 2000 Kentucky Youth Tobacco Survey was submitted to the Kentucky Department for Public Health in Frankfort, KY, for statewide circulation.
- Hahn, E.J., **Rayens, M.K.**, Greathouse, L., King, E., Okoli, C.T.C, Hartley, L.A., and Yoder, A. (September 2002). Kentucky Tobacco Use Prevention and Cessation Report Card. This report summarizes the indicators of prevention and cessation of tobacco use for each of the 10 CDC-funded health departments as well as for all non-funded health departments around the state; it was submitted to the Kentucky Department for Public Health in Frankfort, KY, for statewide circulation.
- Hahn, E.J., **Rayens, M.K.**, Riker, C., Greathouse, L., Rasnake, R., Okoli, C., Hedgecock, S., Paul, T, and Wood, T. (September, 2003). Kentucky Tobacco Use Prevention and Cessation Status Report, 2003. Presented to the Kentucky Department of Public Health in Frankfort, KY, for statewide circulation.
- Hahn, E.J., **Rayens, M.K.**, Riker, C., Greathouse, L., Rasnake, R., Okoli, C., Cavendish, S., Wood, T., and Gresham, K. (September, 2004). Kentucky Tobacco Prevention and Cessation Status Report, 2004. Presented to the Kentucky Department of Public Health in Frankfort, KY, for statewide circulation.
- Hahn, E.J., **Rayens, M.K.**, Greathouse Maggio, L., Riker, C., Robertson, H., Peiper, N., Pasley, G., Okoli, C., Hedgecock, S., Cavendish, S., Lee, S., and McGee, J.M. (May 2006). Secondhand Smoke and Smoke-free Policy. Prepared in collaboration with the Kentucky Department of Public Health in Frankfort, KY, for statewide circulation.
- Hahn, E.J., Cole, L.K.J., Whitten, L., Robertson, H., Riker, C., **Rayens, M.K.**, Arrowood, K., Begley, K., Casanave, L., McGee, J., Kercksmar, S., Slone, N., Vestal, B., Wagner, K., and

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Warren, M. (June 2009). *Second-hand Smoke and Smoke-free Policy (Second Edition)*. Prepared in collaboration with the Kentucky Department of Public Health in Frankfort, KY, for statewide circulation.

Lennie, T.A., Moser, D.K., Biddle, M.J., Welsh, D., Bruckner, G.G., Thomas, D.T., **Rayens, M.K.**, and Bailey, A. (2013). Nutrition intervention to decrease symptoms in patients with advanced heart failure. *Research in Nursing and Health*, 36(2), 120-145. Included in the journal as a 'Special Feature: Example of a successful research grant application;' the publication contains both the grant application and reviews.

Overfield, B.L., Andrews, W.M., Robertson, H., **Rayens, M.K.**, Hahn, E.J. (2016). Radon research collaboration between the Kentucky Geological Survey and the University of Kentucky College of Nursing: An innovative partnership. *Geological Society of American Special Papers* (520), 267-271.

Abstracts (excluding those published as part of conference proceedings)

Saxe, S.R., Anderson, J.W., **O'Neill, M.K.**, Kryscio, R.J., and Bridges, R.B. (1989). Bleeding and gingival indices in diabetic vs. non-diabetic patients. *1989 American Association of Dental Research Abstracts*.

Bridges, R.B., Saxe, S.R., Anderson, J.W., **O'Neill, M.K.**, and Kryscio, R.J. (1989). Diabetes and loss of connective tissue attachment. *1989 American Association of Dental Research Abstracts*.

Adams, G.L., Saxe, S.R., Anderson, J.W., **O'Neill, M.K.**, Kryscio, R.J., and Bridges, R.B. (1989). Tooth loss in diabetic vs. non-diabetic populations. *1989 American Association of Dental Research Abstracts*.

Burkhart, P.V., **Rayens, M.K.**, and Revelette, R. (February 2006) Asthma Outcomes Improve with Peak Flow Monitoring. *Journal of Allergy and Clinical Immunology: February, 2006 Supplement*.

First-authored paper presentations, 2019 – Present

Invited

Rayens, M.K., Conley, N., Haneberg, W.C., Stanifer, S., Wiggins, A.T., and Hahn, E.J. (March 2021). Using geologically-based radon potential maps to convey lung cancer risk. Invited oral presentation at the Radon Communication Seminar (online). Hosted by Lund University, Sweden.

International

Rayens, M.K., Mundy, M., Conley, N., Morris, E., Wilmhoff, C., Rademacher, K., and Hahn, E.J. (September 2019). Youth as Citizen Scientists to Promote Home Radon Testing in Appalachia. Oral presentation at the 2019 International Radon Symposium sponsored by AARST, Denver, CO.

National

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Rayens, M.K., McGeeney, T., Wiggins, A.T., Bucher, A., Ickes, M., Huntington-Moskos, L., Clark, P., and Hahn, E.J. (October 2020). Smoke-free laws and cigarette, smokeless and e-cigarette use prevalence among Kentucky high school students. Oral presentation at the American Public Health Association Annual Meeting, online.

Rayens, M.K., McGeeney, T., Wiggins, A.T., Bucher, A., Ickes, M., Huntington-Moskos, L., Clark, P., and Hahn, E.J. (August 2019). Smoke-free Ordinances and Youth Tobacco Use Prevalance. Oral presentation in a merged panel breakout session at the National Conference on Tobacco or Health, Minneapolis, MN.

Paper Presentations, 1991-2011

Invited

Rayens, M.K. (April 2001). Research at the University of Kentucky Medical Center: How does a biostatistician contribute? Fifteenth Annual Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences, Richmond, KY.

Rayens, M.K. (April 2003). Enhancing practice through clinical research findings. Kentucky Coalition of Nurse Practitioners and Nurse Midwives Annual Conference, Cincinnati, OH.

International

Hall, L.A., Sachs, B., **O'Neill, M.K.**, and Kryscio, R.J. (May 1991). Single-mother families: Predictors of health outcomes. Second International Family Nursing Conference, Portland, OR.

Sachs, B., Hall, L.A., and **O'Neill, M.K.** (November 1991). Maternal depressive symptoms and child abuse potential: Their relationship to child behavior. Sigma Theta Tau International Biennial Convention, Tampa, FL.

Hall, L.A., Sachs, B., and **O'Neill, M.K.** (May 1992). Mothers' potential for child abuse: The role of childhood physical and sexual abuse. Sigma Theta Tau International Nursing Research Conference, Columbus, OH.

O'Neill, M.K. (March 1993). Properties of Tango's index for detecting clustering in time. International Biometric Society, Eastern North American Region, Philadelphia, PA.

Hall, L.A., Kotch, J.B., Browne, D.H., and **Rayens, M.K.** (June 1993). Psychosocial predictors of depressive symptoms in postpartum mothers of high risk infants. Sigma Theta Tau International Nursing Research Congress, Madrid, Spain.

Hall, L.A., Browne, D.H., Kotch, J.B., and **Rayens, M.K.** (October 1993). Psychosocial factors associated with psychosomatic symptoms in postpartum mothers of high risk infants. North American Congress on Women's Health Issues, Toronto, Ontario, Canada.

Hall, L.A., **Rayens, M.K.**, Kotch, J.B., and Browne, D. (May 1994). Postpartum mental health: The test of a causal model. International Nursing Research Conference, Vancouver, British Columbia, Canada.

- Rayens, M.K.** (August 1994). A modified version of Tango's index for detecting clustering among continuously-recorded events. Joint Statistical Meetings, including American Statistical Association, International Biometric Society, Institute of Mathematical Statistics and Statistical Society of Canada, Toronto, Canada.
- Hall, L.A., Sachs, B., and **Rayens, M.K.** (June 1997). Factors influencing the parenting attitudes and child abuse potential of rural mothers with low birth weight children. Sigma Theta Tau International Nursing Research Congress, Vancouver, British Columbia, Canada.
- Sachs, B., Hall, L.A., and **Rayens, M.K.** (June 1997). Working with communities to improve health care delivery to rural families with low birth weight children. Sigma Theta Tau International Nursing Research Congress, Vancouver, British Columbia, Canada.
- Rayens, M.K.** and Hahn, E.J. (March 1999). Assessing Baseline Consensus and Convergence Toward Agreement. International Biometric Society, Eastern North American Region, Atlanta, GA.
- Martin, C.A., Kelly, T.H., Delzer, T., and **Rayens, M.K.** (June 1999). The interaction between sensation seeking and conduct disorder symptoms predicts drug use and amphetamine response. College on Problems of Drug Dependence 61st Annual Scientific Meeting, Acapulco, Mexico.
- Hoffmann, M., Berger, J.R., Nath, A., and **Rayens, M.** (June 2000). Cerebrovascular disease in young, HIV-infected, black Africans in the KwaZulu Natal Province of South Africa. Royal College of Physicians Edinburgh Conference, Edinburgh, Scotland.
- Peden, A.R., Reed, D.B., and **Rayens, M.K.** (October 2003). Mental health of rural adolescents. The Future of Rural Peoples: Rural Economy, Healthy People, Environment, Rural Communities: Fifth International Symposium Saskatoon, SK, Canada.
- Reed, D.R., Claunch, D., **Rayens, M.K.**, and Slusher, D. (July 2004). Evaluation of community-based farm safety education for children. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Rayens, M.K.**, Hall, L.A., Peden, A.R., Hahn, E.J., and Reed, D. (July 2004). Factor structure of the Center for Epidemiologic Studies – Depression Scale: A study of women across the life span. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Burkhart, P.V., **Rayens, M.K.**, and Barry, J. (July 2004). Self-concept and health locus of control: Factors related to children's adherence to recommended asthma treatment. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Peden, A.R., Hall, L.A., and **Rayens, M.K.** (July 2004). Prevention of depression in low-income single mothers. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Hahn, E.J., **Rayens, M.K.**, and Okoli, C. (July 2004). Secondhand tobacco smoke exposure among restaurant and bar workers. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.

- Reed, D.B., and **Rayens, M.K.** (July 2005). How do older farm residents define good health? Sigma Theta Tau International Nursing Research Congress, Waikoloa, Hawaii.
- Burkhart, P.V., **Rayens, M.K.**, Oakley, M.G., and Ohlmann, A.B. (July 2006). Testing an intervention to promote children's adherence to recommended asthma self-management. Sigma Theta Tau International Nursing Research Congress, Montreal, Quebec.
- Hall, L.A., Peden, A.R., and **Rayens, M.K.** (July 2006). Correlates of health status in low-income mothers of young children. Sigma Theta Tau International Nursing Research Congress, Montreal, Quebec.
- Peden, A.R., Hall, L.A., and **Rayens, M.K.** (July 2006). Testing the effects of a cognitive-behavioral intervention on the physical and mental health status of low-income single mothers. Sigma Theta Tau International Nursing Research Congress, Montreal, Quebec.
- Svavarsdottir, E.K., Burkhart, P.V., Orlygsdottir, B., **Rayens, M.K.**, and Westneat, S. (June 2007). Factors related to quality of life for adolescents with asthma and their parents. International Family Nursing Conference, Bangkok, Thailand.
- Rayens, M.K.**, Reed, D., and Zhang, M. (July 2007). Predictors of depressive symptoms in older rural couples: Actor-partner interdependence model. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Burkhart, P.V., **Rayens, M.K.**, and Oakley, M.G. (July 2007). Improved health outcomes with peak flow monitoring for children with asthma. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Hall, L.A., **Rayens, M.K.**, and Peden, A.R. (July 2007). The relationships of maternal smoking with maternal mental health and mothers' reports of children's behavior problems. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Skärsäter, I., **Rayens, M.K.**, Peden, A.R., Hall, L.A., and Zhang, M. (July 2007). Sense of coherence and recovery from depression. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Hahn, E.J., **Rayens, M.K.**, and Zhang, M. (July 2007). Effect of a smoke-free law on the community smoking rate. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Peden, A.R., **Rayens, M.K.**, Hall, L.A., Hahn, E.J., Riker, C.A., Ashford, K., and Zhang, M. (July 2007). A mental health intervention to help pregnant smokers quit. Sigma Theta Tau International Nursing Research Congress, Vienna, Austria.
- Butler, K.M., Maggio, L., Riker, C., **Rayens, M.K.**, and Hahn, E. (September 2007). Tobacco use dependence treatment education and undergraduate nursing students. Nurse Education Tomorrow 2007 Conference, Cambridge, England.

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Mary Kay Rayens, PhD

Skärsäter I., **Rayens, M.K.**, Peden, A., Hall, L., Zhang, M., Agren, H., Prochazka, H. (March 2008). Sense of coherence and recovery from major depression: A four-year follow-up. International Society of Affective Disorders Conference, Cape Town, South Africa.

Rayens, M.K. (August 2009). Teaching statistics to DNP and PhD nursing students: The opportunities and challenges of a distance-learning format. Joint Statistical Meetings, including American Statistical Association, International Biometric Society, Institute of Mathematical Statistics, Statistical Society of Canada, International Chinese Statistical Association and International Indian Statistical Association, Washington, DC.

Kerscmar, S.E., Mason, J., Adkins, S., Westneat, S., **Rayens, M.K.**, Robertson, H., and Hahn, E.J. (October 2010). Test and win: Reducing radon in the home. 20th International Radon Symposium. Columbus, OH.

Hahn, E.J., **Rayens, M.K.**, Kerscmar, S., Adkins, S., Mason, J., Robertson, H., and Rinker, G. (October 2011). Feasibility of a dual screening protocol and environmental feedback intervention for reducing radon and secondhand smoke. International Radon Symposium, American Association of Radon Scientists and Technologists (AARST), Orlando, FL.

National

Hall, L.A., Sachs, B., Gurley, D.N., Kryscio, R.J., **O'Neill, M.K.**, and Pietrukowicz, M. (November 1990). Maternal depression, parenting and child health: A longitudinal study of single-mother families. National Council on Family Relations 1990 Conference, Seattle, WA.

Hall, L.A., Sachs, B., **O'Neill, M.K.**, and Lutenbacher-Webne, M. (November 1991). Childhood maltreatment and depressive symptoms in adulthood. American Public Health Association 119th Annual Meeting, Atlanta, GA.

Rayens, M.K. and Kryscio, R.J. (July 1992). A note on the null distribution of Tango's index for detecting clustering in time. Statistics and Computing in Disease Clustering Workshop, Stony Brook, NY.

Hahn, E.J., **Rayens, M.K.**, Toumey, C., and McCoy, C. (October 1998). Building consensus with decision makers in Kentucky. National Conference on Tobacco and Health, St. Paul, MN.

Hahn, E.J., Warnick, T., and **Rayens, M.K.** (November 2000). Tobacco control policy in the public and private sectors: Evaluation and surveillance issues. American Public Health Association 128th Annual Meeting, Boston, MA.

Hahn, E.J., **Rayens, M.K.**, Okoli, T.C. (November 2002). Assessing workplace tobacco policies: A community-academic partnership. American Public Health Association 130th Annual Meeting, Philadelphia, PA.

Hahn, E.J., **Rayens, M.K.**, Warnick, T.A., Christie, D., Greathouse, L. (November 2002). Population-based cessation: Outcomes of a Quit and Win contest. National Conference on Tobacco or Health, San Francisco, CA.

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Mary Kay Rayens, PhD

Staten, R.R., Miller, K.H., Noland, M.P. and **Rayens, M.K.** (April 2003). An application of an ecological model to understanding physical activity and dietary behaviors among college students. 2003 AAHPERD National Convention and Exposition, Philadelphia, PA.

Hahn, E.J., **Rayens, M.K.**, and Okoli, C.T.C. (November 2003). Restaurant and bar worker exposure to secondhand smoke in different policy environments. 131st Annual Meeting of the American Public Health Association, San Francisco, CA.

Peden, A.R., Hall, L.A., and **Rayens, M.K.** (October 2004). Preventing depression in low-income single mothers. National Congress on the State of the Science in Nursing Research, Washington, DC.

Okoli, C.T.C., Hahn, E.J., Riker, C.A., and **Rayens, M.K.** (November 2004). School tobacco policies in a tobacco growing state. American Public Health Association 132st Annual Meeting, Washington, DC.

Hahn, E.J., Thompson, E., **Rayens, M.K.**, Blomquist, G., Garen, J., and Mullineaux, D.J. (May 2005). Smoke-free laws and employee turnover. National Conference on Tobacco or Health, Chicago, IL.

Rayens, M.K., and Hahn, E.J. (July 2005). Mental health and readiness to quit smoking: A study of rural adults in Kentucky. Paper presented as part of the symposium "Rural mental health: Issues across the lifespan," organized by McColloch, B.J. The Clock is Ticking for Rural America: A Behavioral Health and Safety Conference, Bloomington, MN.

Peden, A.R., **Rayens, M.K.**, and Reed, D.B. (July 2005). Depressive symptoms in adolescents living in Rural America. Paper presented as part of the symposium "Rural mental health: Issues across the lifespan," organized by McColloch, B.J. The Clock is Ticking for Rural America: A Behavioral Health and Safety Conference, Bloomington, MN.

Burkhart, P.V., **Rayens, M.K.**, and Revelette, R. (March 2006). Asthma outcomes improve with peak flow monitoring. American Academy of Allergy, Asthma and Immunology Conference, Miami Beach, FL.

Reed, D.B. and **Rayens, M.K.** (May 2007). Senior farm residents link ability to work to their definition of health. National Rural Health Association Conference, Anchorage, AK.

Reed, D.B. and **Rayens, M.K.** (June, 2007). Predictors of Depressive Symptoms in Older Farm Couples: Actor-Partner Interaction Model. National Institute for Farm Safety Annual Conference, British Columbia, Canada.

Hahn, E.J., **Rayens, M.K.**, Hatcher, J., and Zhang, M. (November 2007). Motivation to quit smoking among relatives of lung cancer patients. American Public Health Association 135th Annual Meeting, Washington, DC.

Hahn, E.J., **Rayens, M.K.**, Langley, R.E., and Dignan, M. (November 2007). Differential effects of smoke-free laws on smoking cessation behavior. American Public Health Association 135th Annual Meeting, Washington, DC.

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Mary Kay Rayens, PhD

Rayens, M.K., Hahn, E.J., and Fernander, A. (October 2008). Ethnic differences in tobacco use and cessation. American Public Health Association 136th Annual Meeting, San Diego, CA.

Rayens, M.K., Riker, C., Durbin, E., Zhang, M., Cavendish, S., and Hahn, E.J. (October 2008). Smoke-free policy development in rural communities: Predictors of leadership. American Public Health Association 136th Annual Meeting, San Diego, CA.

Reed, D.B., **Rayens, M.K.**, Zhang, M., Garkovich, L.E., Privette, C., and Winter, K. (June 2009). Senior farmers' attitudes toward retirement. National Institute of Farm Safety Conference, New Orleans, LA.

Reed, D.B., **Rayens, M.K.**, Zhang, M., Winter, K.P., and Perry, S. (August 2009). Over age 50 and still in the field. First NIOSH Invitational Intra/Extramural Agriculture, Forestry, and Fishing Safety and Health Workshop, NIOSH, Cincinnati, OH.

Rayens, M.K., Svavarsdottir, E.K., Burkhart, P.V., and Zhang, M. (November 2009). Cultural differences in parent-adolescent agreement on the adolescent's asthma-related quality of life. American Public Health Association 137th Annual Meeting, Philadelphia, PA.

Rayens, M.K., York, N.L., Adkins, S.M., Kaufman, E., and Hahn, E.J. (November 2010). Political climate and smoke-free laws in rural communities: Views from elected officials and community advocates. American Public Health Association 138th Annual Meeting, Denver, CO.

Hatcher, J., **Rayens, M.K.**, and Schoenberg, N. (November 2010). Fear as a barrier to mammography. American Public Health Association 138th Annual Meeting, Denver, CO.

Hahn, E.J., **Rayens, M.K.**, Langley, R.E., Adkins, S.M., and Dignan, M. (November 2010). Do smoke-free laws in rural, distressed counties encourage cessation? American Public Health Association 138th Annual Meeting, Denver, CO.

Hahn, E.J., **Rayens, M.K.**, and York, N. (November 2010). Social justice in rural underserved areas: Community readiness for smoke-free policy development. American Public Health Association 138th Annual Meeting, Denver, CO.

Butler, K., Hedgecock, S., **Rayens, M.K.**, Derifield, S., McGinn, C., Murray, D., and Hahn, E. (November 2010). Promoting healthy behaviors in a rural community using culturally sensitive smoking cessation outreach strategies. American Public Health Association 138th Annual Meeting, Denver, CO.

Kostygina, G., Fallin, A., Wagner, K., Warren, M., **Rayens, M.K.**, & Hahn, E. (November 2010). Messages that motivate rural communities to support smoke-free policy change. American Public Health Association 138th Annual Meeting, Denver, CO.

Fernander, A., **Rayens, M.K.**, Hahn, E.J., Zhang, M., and Adkins, S.M. (November 2010). Menthol smoking, smoke-free policies and cessation services. American Public Health Association 138th Annual Meeting, Denver, CO.

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Mary Kay Rayens, PhD

Kerscmar, S.E., Mason, J., Adkins, S., Westneat, S., **Rayens, M.K.**, Robertson, H., and Hahn, E.J. (November 2010). Building a radon-free environment: A test your home and win contest. American Public Health Association 138th Annual Meeting, Denver, CO.

Hahn, E.J., **Rayens, M.K.**, Kerscmar, S., Adkins, S., Mason, J., Robertson, H., and Rinker, G. (October 2011). Reducing radon and secondhand smoke in the home. American Public Health Association 139th Annual Meeting, Washington, DC.

Kostygina, G., Hahn, E.J., and **Rayens, M.K.** (October 2011). Inter-organizational relationships in rural smoke-free policy: A social network analysis. American Public Health Association 139th Annual Meeting, Washington, DC.

Butler, K.M., Adkins, S., **Rayens, M.K.**, Hahn, E.J., Gombeski, W., and Britt, J. (October 2011). Community smoke-free laws and secondhand smoke exposure, home smoking policies and support for public smoke-free policy. American Public Health Association 139th Annual Meeting, Washington, DC.

Kostygina, G., **Rayens, M.K.**, Wagner, K., and Hahn, E.J. (October 2011). Building demand for smoke-free policies in rural communities through low-cost media campaigns. American Public Health Association 139th Annual Meeting, Washington, DC.

Reed, D. B., **Rayens, M. K.**, Adkins, S., Garkovich, L. (October 2011). Farm elders define health as the ability to work. American Public Health Association 139th Annual Meeting, Washington, DC.

Regional

Lutenbacher, M., Hall, L.A., Sachs, B., and **Rayens, M.K.** (February 1993). Psychometric examination of the CES-D scale: A secondary analysis. Southern Research Society Annual Conference, Birmingham, AL.

Hall, L.A., Sachs, B., and **Rayens, M.K.** (February 1995). Mothers' potential for child abuse: The roles of childhood abuse and current social resources. 1995 Southern Nursing Research Society Annual Conference, Lexington, KY.

Peden, A.R., Hall, L.A., Payne, L., and **Rayens, M.K.** (February 1998). Prevalence and correlates of depressive symptoms in college women. Southern Nursing Research Society Annual Conference, Fort Worth, TX.

Peden, A.R., Hall, L.A., **Rayens, M.K.** and Beebe, L.L. (February 1999). Prevention of depression in college women: Testing an intervention. Southern Nursing Research Society Annual Conference, Charleston, SC.

Hahn, E.J., Hall, L.A., **Rayens, M.K.**, Burt, A.V., Flathman, O., Corley, D., Sheffel, K. (February 1999). Kindergarten children's knowledge of alcohol, tobacco, and other drugs. Southern Nursing Research Society Annual Conference, Charleston, SC.

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Mary Kay Rayens, PhD

Peden, A.R., Hall, L.A., and **Rayens, M.K.** (February 2000). The quality of primary intimate relationships in college women: Effects on Depression. Southern Nursing Research Society Annual Conference, Little Rock, AK.

Kulig, J.C., Lock, S.E., Stanhope, M., and **Rayens, M.K.** (February 2000). Determining healthy behaviors among elementary populations. Southern Nursing Research Society Annual Conference, Little Rock, AK.

Hall, L.A., Peden, A.R., and **Rayens, M.K.** (February 2002). The effect of intimate relationships on the mental health of college women, part of a symposium organized by R. Staten entitled "Creating a healthier future: Prevention research with college students." Southern Nursing Research Society Annual Conference, San Antonio, TX.

Svavarsdottir, E.K. and **Rayens, M.K.** (March 2002). Childhood chronic asthma: How Icelandic and American families perceive the health status of their young child. Midwest Nursing Research Society Annual Conference, Chicago, IL.

Barnes, S.L., Kearney, P., Boulanger, B., Bernard, A., Tsuei, B., and **Rayens, M.K.** (December 2002). Trauma attending presence in the resuscitation room does not affect outcome in severe trauma. Southern Surgical Association Conference, Palm Beach, FL.

Hahn, E.J. and **Rayens, M.K.** (February 2003). Evaluation of a statewide population-based cessation contest, part of a symposium organized by E. Hahn entitled "Tobacco cessation: Individuals, populations, and policies." Southern Nursing Research Society Annual Conference, Orlando, FL.

Rayens, M.K. and Svavarsdottir, E.K. (February 2004). A new methodological approach in nursing research: An actor, partner and interaction effect model for family outcomes. Southern Nursing Research Society Annual Conference, Louisville, KY.

Peden, A.R., Hall, L.A., **Rayens, M.K.** and Grant, E. (February 2004). Prevention of depression in low-income single mothers. Southern Nursing Research Society Annual Conference, Louisville, KY.

Staten, R., Miller, K., Noland, M., and **Rayens, M.K.** (February 2004). The relationship of self-reported BMI to body image, physical activity, dietary behavior and selected demographics, part of a symposium organized by S. Barton entitled "Obesity in Infancy, Childhood, and Adolescence." Southern Nursing Research Society Annual Conference, Louisville, KY.

Hahn, E.J. and **Rayens, M.K.** (February 2004). Effectiveness of a Quit and Win contest with a low income population. Southern Nursing Research Society Annual Conference, Louisville, KY.

Svavarsdottir, E.K. and **Rayens, M.K.** (March 2004). An actor and a partner effect on family hardiness: Icelandic and American families of young children with asthma. Midwest Nursing Research Society Annual Conference, St. Louis, MO.

Okoli, C.T.C., Hahn, E.J., and **Rayens, M.K.** (February 2005). Exposure to secondhand smoke and nicotine dependence, part of a symposium organized by E. Hahn entitled "Secondhand

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tobacco smoke: Protecting the most vulnerable.” Southern Nursing Research Society Annual Conference, Atlanta, GA.

Okoli, C.T., Hahn, E.J., Al-Delaimy, W., and **Rayens, M.K.** (February 2005). Hair nicotine as a biomarker for exposure to secondhand smoke, part of a symposium organized by E. Hahn entitled “Secondhand tobacco smoke: Protecting the most vulnerable.” Southern Nursing Research Society Annual Conference, Atlanta, GA.

Hahn, E.J., Hurt, Y.R., Rasnake, R.T., **Rayens, M.K.**, and Al-Delaimy, W.K. (February 2005). Secondhand smoke exposure in restaurant and bar workers, part of a symposium organized by Ellen Hahn entitled “Secondhand tobacco smoke: Protecting the most vulnerable.” Southern Nursing Research Society Annual Conference, Atlanta, GA.

Peden, A.R., Hall, L.A., and **Rayens, M.K.** (February 2005). Improving the mental health of low-income single mothers: A 12-month longitudinal study. Southern Nursing Research Society Annual Conference, Atlanta, GA.

Hall, L.A., **Rayens, M.K.**, and Peden, A.R. (February 2005). Maternal factors associated with child behavior: Testing a proposed model. Southern Nursing Research Society Annual Conference, Atlanta, GA.

Rayens, M.K., and Hahn, E.J. (February 2006). Social support, depressive symptoms, stressful life events and the ability to quit smoking. Southern Nursing Research Society Annual Conference, Memphis, TN.

Burkhart, P.V., Oakley, M.G., **Rayens, M.K.**, Bowman, R.K., Knox, C.A., Abshire, D.A., Zhang, M., and Revelette, W.R. (February 2006). Promoting children’s adherence to asthma self-management. Southern Nursing Research Society Annual Conference, Memphis, TN.

Peden, A.R., Hall, L.A., and **Rayens, M.K.** (February 2006). Use of alcohol and tobacco and the mental and physical health of low-income single mothers. Southern Nursing Research Society Annual Conference, Memphis, TN.

Rayens, M.K., Moser, D., and Riegel, B. (February 2007). A new methodology for nursing research: Propensity score analysis. Southern Nursing Research Society Annual Conference, Galveston, TX.

Burkhart, P., **Rayens, M.K.**, and Oakley, M. (February 2007). Is peak flow monitoring effective in improving health outcomes for children with asthma? Southern Nursing Research Society Annual Conference, Galveston, TX.

Hahn, E.J., Burkhart, P., Moser, D., **Rayens, M.K.**, and Lee, S. (February 2007). Effect of a smoke-free law on asthma and cardiac events. Southern Nursing Research Society Annual Conference, Galveston, TX.

Peden, A., **Rayens, M.K.**, and Hall, L. (February 2007). Predictors of the physical health status of low-income mothers of young children. Southern Nursing Research Society Annual Conference, Galveston, TX.

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Mary Kay Rayens, PhD

Moser, D., Chung, M., Riegel, B., **Rayens, M.K.**, and Lennie, T. (February 2007). Nonadherence is a mediator of the link between depressive symptoms, and rehospitalization or mortality in patients with heart failure. Southern Nursing Research Society Annual Conference, Galveston, TX.

Hall, L.A., Peden, A.R., and **Rayens, M.K.** (February 2008). STOP: An intervention that decreases negative thinking, part of a symposium organized by A. Peden entitled "Cognitive-behavioral strategies: The body of evidence grows." Southern Nursing Research Society Annual Conference, Birmingham, AL.

Hahn, E.J., Peden, A.R., **Rayens, M.K.**, Hall, L.A., and Ashford, K. (February 2008). Smoking during and after pregnancy: A cognitive-behavioral intervention for tobacco treatment, part of a symposium organized by A. Peden entitled "Cognitive-behavioral strategies: The body of evidence grows." Southern Nursing Research Society Annual Conference, Birmingham, AL.

Rayens, M.K., Hahn, E.J., Langley, R.E., and Zhang, M. (February 2008). Public support for smoke-free laws in Kentucky: Differences between urban and rural residents. Southern Nursing Research Society Annual Conference, Birmingham, AL.

Butler, K.M., Hahn, E.J., and **Rayens, M.K.** (February 2008). Preparing future nurses for tobacco dependence treatment. Southern Nursing Research Society Annual Conference, Birmingham, AL.

Burkhart, P.V., **Rayens, M.K.**, and Oakley, M.G. (February 2008). Improved asthma quality of life for children participating in a self-management program. Southern Nursing Research Society Annual Conference, Birmingham, AL.

Chung, M., Lennie, T., Moser, D., and **Rayens, M.K.** (February 2008). The effects of depressive symptoms and anxiety on quality of life: Testing dyadic dynamic using Actor-Partner Interdependence Model. Southern Nursing Research Society Annual Conference, Birmingham, AL.

Hahn, E.J., **Rayens, M.K.**, and Hatcher, J. (February 2008). Telephone interview and efficacy of Quit and Win Contests. Southern Nursing Research Society Annual Conference, Birmingham, AL.

Ashford, K., Hahn, E.J., Hall, L.A., and **Rayens, M.K.** (February 2009). Measuring secondhand smoke exposure in mother-baby couplets. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Wu, J., Moser, D., Lennie, T., Chung, M., and **Rayens, M.K.** (February 2009). Medication adherence mediates the relationship between ethnicity and event-free survival in patients with heart failure. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Howard, P.B., El-Mallakh, P., and **Rayens, M.K.** (February 2009). Implementation of a medication management evidence-based practice in a community mental health setting. Southern Nursing Research Society Annual Conference, Baltimore, MD.

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Mary Kay Rayens, PhD

Ridner, S.L., Hahn, E.J., **Rayens, M.K.**, Noland, M., and Staten, R. (February 2009). College students' exposure to tobacco marketing in smoke-free bars. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Rayens, M.K., Hahn, E.J., Zhang, M., Staten, R., and Butler, K. (February 2009). Smoking and drinking rates among college students before and after a smoke-free ordinance. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Hahn, E.J., **Rayens, M.K.**, York, N., and Zhang, M. (February 2009). Readiness for smoke-free policy development in rural communities. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Butler, K., Staten, R., **Rayens, M.K.**, Zhang, M., and Hahn, E.J. (February 2009). Smoke-free policy and alcohol use among college students. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Staten, R., Wieland, D., Noland, M., and **Rayens, M.K.** (February 2009). Electronic media and communication among college students: Frequency of use and relationships with mental health indicators. Southern Nursing Research Society Annual Conference, Baltimore, MD.

Hatcher, J., **Rayens, M.K.**, and Reed, D.R. (February 2009). Psychometric evaluation of the John Henryism Active Coping Scale in older farmers, part of a symposium organized by A. Peden entitled "Psychometric assessment of measures used with vulnerable populations." Southern Nursing Research Society Annual Conference, Baltimore, MD.

Hall, L.A., **Rayens, M.K.**, and Peden, A.R. (February 2009). Psychometric properties of the Everyday Stressors Index in low-income single mothers, part of a symposium organized by A. Peden entitled "Psychometric assessment of measures used with vulnerable populations." Southern Nursing Research Society Annual Conference, Baltimore, MD.

Riker, C., Fisher, S., Lee, E., Zhang, M., **Rayens, M.K.**, Helme, D., and Hahn, E.J. (February 2010). Smoke-free policy and media coverage in rural communities. Southern Nursing Research Society Annual Conference, Austin, TX.

Hahn, E.J., Kercksmar, S., Mason, J., Robertson, H., Rinker, G., and **Rayens, M.K.** (February 2011). Freedom from Radon and Smoking in the Home (FRESH): A feasibility study. Southern Nursing Research Society Annual Conference, Jacksonville, FL.

Hahn, E. J., **Rayens, M. K.**, York, N. L., Adkins, S. (February 2011). Promoting smoke-free policy development in rural Kentucky: A randomized controlled community-based trial. Southern Nursing Research Society Annual Conference, Jacksonville, FL.

State

Rayens, M.K. (March 1993). Properties of Tango's index for detecting clustering in time. Ninth Annual Eastern Kentucky University Symposium in the Mathematical, Statistical, and Computer Sciences, Richmond, KY.

Local

Sachs, B., Hall, L., Lutenbacher, M., and **Rayens, M.K.** (April 1995). Rural low birthweight children and their mothers. Research Papers Day, Delta Psi Chapter, Sigma Theta Tau International, Lexington, KY.

Hahn, E.J., **Rayens, M.K.**, Toumey, C.P., and McCoy, C.A. (October 1998). Rural legislators' views on tobacco control and health policy. University of Kentucky Rural Health Research Colloquium, Lexington, KY.

Hahn, E.J., **Rayens, M.K.**, and Plymale, M. (January 2001). Findings from the Kentucky Youth Tobacco Survey 2000. University of Kentucky College of Nursing Research Seminar Series, Lexington, KY.

Hahn, E.J. and **Rayens, M.K.** (September 2002). Population-based cessation: Outcomes of a Quit and Win contest. University of Kentucky School of Public Health Grand Rounds Seminar Series, Lexington, KY.

Hahn, E.J. and **Rayens, M.K.** (September 2002). Population-based cessation: Outcomes of a Quit and Win contest. University of Kentucky College of Nursing Seminar Series, Lexington, KY.

Staten, R. R., **Rayens, M.K.**, Hahn, E. J., Noland, M., Ridner, L. (October 2002). Social Influences on tobacco using and non-using college students. Prevention Research Center Seminar, Lexington, KY.

Staten, R.R., Noland, M.P., Miller, K.H., and **Rayens, M.K.** (September 2003). An ecological model of nutrition and physical activity in college students. UK College of Nursing Seminar Series, Lexington, KY.

Staten, R., Hahn, E., **Rayens, M.K.**, Noland, M., and Ridner, L. (November 2003). Social influences on tobacco using and non-using college students. UK Public Health Grand Rounds Series, Lexington, KY.

Reed, D.R., Claunch, D., **Rayens, M.K.**, and Slusher, D. (September 2004). Evaluation of community-based farm safety education for children. University of Kentucky College of Nursing seminar: Symposium of papers by UK College of Nursing faculty presented at the Sigma Theta Tau International Nursing Research Congress in Dublin.

Rayens, M.K., Hall, L.A., Peden, A.R., Hahn, E.J., and Reed, D. (September 2004). Factor structure of the Center for Epidemiologic Studies – Depression Scale: A study of women across the life span. University of Kentucky College of Nursing seminar: Symposium of papers by UK College of Nursing faculty presented at the Sigma Theta Tau International Nursing Research Congress in Dublin.

Peden, A.R., Hall, L.A., and **Rayens, M.K.** (September 2004). Prevention of depression in low-income single mothers. University of Kentucky College of Nursing seminar: Symposium of papers by UK College of Nursing faculty presented at the Sigma Theta Tau International Nursing Research Congress in Dublin.

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Hahn, E.J., **Rayens, M.K.**, and Okoli, C. (September 2004). Secondhand tobacco smoke exposure among restaurant and bar workers. University of Kentucky College of Nursing seminar: Symposium of papers by UK College of Nursing faculty presented at the Sigma Theta Tau International Nursing Research Congress in Dublin.

Okoli, C., Hahn, E., Hall, L., and **Rayens, M.K.** (March 2005). Hair nicotine as a biomarker for exposure to secondhand smoke. University of Kentucky College of Nursing Student Scholarship Showcase.

Rayens, M.K., and Hahn, E.J. (September 2005). Mental Health and Readiness to Quit Smoking: A Study of Rural Adults in Kentucky. Presented as part of the College of Nursing Seminar Series.

Peden, A.R., **Rayens, M.K.**, and Reed, D.B. (September 2005). Depressive Symptoms in Adolescents Living in Rural America. Presented as part of the College of Nursing Seminar Series.

Hahn, E. J., Burkhart, P.V., **Rayens, M.K.**, Lee, S., and Moser, D.K. (June 2006). Smoke-free Laws and Asthma Outcomes. First Annual Clinical and Translational Science Spring Conference, Lexington, KY.

Hahn, E., Riker, C., **Rayens, M.K.**, and Liu, Y. (November 2006). Joys and challenges of preparing an international research grant application: Smoke-free policy development in China. UK College of Nursing Seminar Series, Lexington, KY.

Rayens, M.K., Reed, D.B., and Zhang, M. (September 2007). Predictors of Depressive Symptoms in Older Rural Couples: Actor-Partner Interdependence Model. UK College of Nursing Seminar Series, Lexington, KY.

Kercsmar, S.E., Mason, J., Westneat, S., **Rayens, M.K.**, Hahn, E.J. (March 2010). Test and Win: Reducing Radon in the Home. The Center for Biobehavioral Research in Self-Management of Cardiopulmonary Disease and the Office of Research and Scholarship Seminar Series, Lexington, KY.

Poster Presentations, 1992-2011

Lutenbacher-Webne, M., Hall, L.A., **O'Neill, M.K.**, and Sachs, B. (February 1992). Psychosomatic symptoms, parenting attitudes, and child behavior in single-mother families: A secondary analysis of data. Southern Nursing Research Society Annual Conference, Nashville, TN.

Greiner, P., Hall, L.A., **O'Neill, M.K.**, and Sachs, B. (February 1992). Psychosocial predictors of functional health, parenting attitudes, and child behavior in single-parent families: A secondary analysis of data. Southern Nursing Research Society Annual Conference, Nashville, TN.

Satterly, C.M., Hall, L.A., Sachs, B., and **Rayens, M.K.** (February 1993). Psychometric evaluation of the Family Function Questionnaire: Preliminary findings. Southern Nursing Research Society Annual Conference, Birmingham, AL.

- Carpenter, J., Andrykowski, M., Wilson, J., Hall, L., **Rayens, M.K.**, Sachs, B., and Cunningham, L. (February 1998). Psychometrics for two short forms of the Center for Epidemiologic Studies – Depression Scale (CES-D). Southern Nursing Research Society Annual Conference, Fort Worth, TX.
- Hahn, E.J., **Rayens, M.K.**, Toumey, C. and McCoy, C. (November 1998). Kentucky legislators' views on tobacco. American Public Health Association Conference, Washington, DC.
- Hahn, E.J., **Rayens, M.K.**, and Warnick, T.A. (November 1999). Progress in restaurant smoking policy: Creation of a statewide food service establishment data base. American Public Health Association Conference, Chicago, IL.
- Hahn, E.J., Warnick, T.A., **Rayens, M.K.**, and Love, K. (November 1999). Monitoring workplace smoking policies. American Public Health Association Conference, Chicago, IL.
- Peden, A.R., Hall, L.A., **Rayens, M.K.**, and Shawler, C. (June 2001). Prevention of depression in low-income single mothers. International Congress of Nursing, 22nd Quadrennial Congress, Copenhagen, Denmark.
- Hall, L.A., Peden, A.R., **Rayens, M.K.**, and Shawler, C. (June 2001). Correlates of maternal perception of child behavior in low-income single mothers of young children. Sigma Theta Tau 12th International Congress, Copenhagen, Denmark.
- Hahn, E.J., Warnick, T., **Rayens, M.K.**, Greathouse, L. and Rasnake, R. (November 2001). Evaluation of a multi-component, population-based cessation contest with a disparate population. National Conference on Tobacco or Health, New Orleans, LA.
- Hendrix, J.M., Hicks, E.P., **Rayens, M.K.**, Hansen, B.R. and Beeman, C.S. (March 2002). Relationships between cervical vertebrae and mandibular canine development stages for skeletal maturation evaluation. International Association of Dental Research Meetings, San Diego, CA.
- Chen, F.C., Beeman, C.S., Hicks, E.P., and **Rayens, M.K.** (March 2002). The prevalence of hypodontia in rural southeast Kentucky Appalachian Region. International Association of Dental Research Meetings, San Diego, CA.
- Hahn, E.J., **Rayens, M.K.**, Warnick, T.A., Christie, D., Greathouse, L. (November 2002). Evaluation of a statewide, population-based cessation contest. American Public Health Association, Philadelphia, PA.
- Staten, R.R., **Rayens, M.K.**, Hahn, E. J., Noland, M., Ridner, L. (November 2002). Social influences on tobacco using and non-using college students. Department of Education Higher Education Center on Alcohol and Other Drug Abuse and Violence Annual Meeting, Seattle, WA.
- DeLetter, M., Berger, R., Boosalis, M., **Rayens, M.K.**, and Harthill, M. (February 2003). Nutritional and metabolic changes in persons with chronic airflow limitation. Southern Nursing Research Society Annual Conference, Orlando, FL.

- Peden, A.R., Hall, L.A., **Rayens, M.K.**, and Grant, E. (February 2003). The mental health of low-income single mothers and its effects on their children. Southern Nursing Research Society Annual Conference, Orlando, FL.
- Cherubini, M.L., Ebersole, J.L., Hicks, E.P., and **Rayens, M.K.** (March 2003). Rofecoxib, a cyclooxygenase-2 inhibitor, and its analgesic efficacy in orthodontically induced pain: A randomized controlled trial. American Association of Orthodontics Conference, Honolulu, HI.
- Cherubini, M.L., Ebersole, J.L., Hicks, E.P., and **Rayens, M.K.** (June 2003). Rofecoxib, a cyclooxygenase-2 inhibitor, and its analgesic efficacy in orthodontically induced pain: A randomized controlled trial. International Association of Dental Research, Goteborg, Sweden.
- Peden, A.R., Reed, D.B., and **Rayens, M.K.** (October 2003). Mental health of rural adolescents. 17th Annual Meeting of the American Psychiatric Nurses Association, Atlanta, GA.
- Reed, D.R., **Rayens, M.K.**, and Daniel, D. (October 2003). How are they faring in the field: First report of a 5 year study of farmers over 50. The Future of Rural Peoples: Rural Economy, Healthy People, Environment, Rural Communities: Fifth International Symposium, Saskatoon, SK, Canada.
- Claunch, D., Reed, D.B, **Rayens, M.K.**, Burgus, S., and Slusher, D. (October 2003). FS4JK day camps: Who learns the most? The Future of Rural Peoples: Rural Economy, Healthy People, Environment, Rural Communities: Fifth International Symposium, Saskatoon, SK, Canada.
- Charoensuk, S., Hall, L.A., **Rayens, M.K.**, and Peden, A.R. (February 2004). Psychometric properties of the CES-D and the BDI in a single mother population. Southern Nursing Research Society Annual Conference, Louisville, KY.
- Hahn, E.J., Moser, D., Burkhart, P., and **Rayens, M.K.** (May 2004). Reducing secondhand tobacco smoke: Cardiac and asthma outcomes. Flight Attendants Medical Research Institute Symposium, Miami Beach, FL.
- Rayens, M.K.**, Hall, L.A., and Peden, A.R. (July 2004). Mother-daughter bond: Influence on parenting the next generation. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Hall, L.A., Peden, A.R., and **Rayens, M.K.** (July 2004). The effect of a cognitive-behavioral intervention on mothers' perception of their children's behavior. Sigma Theta Tau International Nursing Research Congress, Dublin, Ireland.
- Hall, L.A., Peden, A.R., and **Rayens, M.K.** (October 2004). Effect of a cognitive-behavioral intervention on mothers' perceptions of child behavior. National Congress on the State of the Science in Nursing Research, Washington, DC.
- Hahn, E.J., Moser, D.K., Burkhart, P.V., **Rayens, M.K.**, and York, N.L. (October 2004). Reducing secondhand tobacco smoke: Cardiac and asthma outcomes. International Society for the Prevention of Tobacco Induced Diseases, Louisville, KY.

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- Hahn, E.J., **Rayens, M.K.**, Christie, D.M., Greathouse, L.W., and York, N.L. (October 2004). Evaluation of a statewide population-based cessation contest. International Society for the Prevention of Tobacco Induced Diseases, Louisville, KY.
- DeLetter, M., Boosalis, M., Berger, R., and **Rayens, M.K.** (October 2004). Effect of chronic airflow limitation on nutritional, metabolic, and functional status. National Congress on the State of the Science in Nursing Research, Washington, DC.
- Hahn, E.J., Thompson, E., **Rayens, M.K.**, Mullineaux, D.J., Blomquist, G.C., and Garen, J.E. (December 2004). Smoke-free laws & employee turnover. Robert Wood Johnson Foundation Substance Abuse Prevention Research Program, Charleston, SC.
- York, N.L., Hahn, E.J., and **Rayens, M.K.** (February 2005). Smoke-Free Laws and Voluntary Tobacco Policies in Manufacturing Facilities. Southern Nursing Research Society Annual Conference, Atlanta, GA.
- Vinson, J., Staten, R., and **Rayens, M.K.** (February 2005). The factors associated with attempts to decrease or stop alcohol and/or drug use by college undergraduates. Southern Nursing Research Society Annual Conference, Atlanta, GA.
- Charoensuk, S., Peden, A.R., Hall, L.A., and **Rayens, M.K.** (February 2005). Factors influencing depression in Thai adolescents. Southern Nursing Research Society Annual Conference, Atlanta, GA.
- York, N., Hahn, E.J., and **Rayens, M.K.** (May 2005). Voluntary policy change in manufacturing facilities following introduction and enactment of a smoke-free ordinance. National Conference on Tobacco or Health, Chicago, IL.
- Chaowiang, K., Staten, R., **Rayens, M.K.**, and Peden, A. (February 2006). Factors Influencing on General Well-Being in College Students. Southern Nursing Research Society Annual Conference, Memphis, TN.
- Adams, S., Peden, A.R., Hall, L.A., and **Rayens, M.K.** (February 2006). The Relationship of Childhood Physical and Sexual Abuse with Negative Thinking and Depressive Symptoms in Adulthood. Southern Nursing Research Society Annual Conference, Memphis, TN.
- Hatcher, J., Hall, L.A., Peden, A.R., and **Rayens, M.K.** (February 2006). Predictors of Depressive Symptoms in Low-Income African American Single Mothers. Southern Nursing Research Society Annual Conference, Memphis, TN.
- Hahn, E.J., Peden, A.R., Hall, L.A., Riker, C.A., **Rayens, M.K.**, and Ashford, K. (February 2006). A Mental Health Intervention to Help Pregnant Smokers Quit. Southern Nursing Research Society Annual Conference, Memphis, TN.
- Hall, L.A., Peden, A.R., and **Rayens, M.K.** (February 2006). The Effects of Employment on the Mental Health of Low-Income Single Mothers, part of the symposium entitled "Health Outcomes in Work-Life." Southern Nursing Research Society Annual Conference, Memphis, TN.

Hahn, E.J., **Rayens, M.K.**, Okoli, C., and Al-Delaimy, W. (February 2006). Effects of a Smoke-Free Law on Restaurant and Bar Workers' Exposure to Secondhand Tobacco Smoke, part of the symposium entitled "Health Outcomes in Work-Life." Southern Nursing Research Society Annual Conference, Memphis, TN.

Reed, D.B. and **Rayens, M.K.** (February 2006). Physical and Mental Health of Older Farmers, part of the symposium entitled "Health Outcomes in Work-Life." Southern Nursing Research Society Annual Conference, Memphis, TN.

Hahn, E.J., Burkhart, P.V., **Rayens, M.K.**, Moser, D., and Lee, S (March 2006). Smoke-Free Laws and Asthma Outcomes. American Academy of Allergy, Asthma and Immunology Conference, Miami Beach, FL.

Rayens, M.K. and Hahn, E.J. (June 2006). Social Support, Depressive Symptoms, Stressful Life Events and the Ability to Quit Smoking. First Annual Clinical and Translational Science Spring Conference, Lexington, KY.

Hahn, E.J., **Rayens, M.K.**, Lee, S., Burkhart, P. and Moser, D. (July 2006). Smoke-free laws and acute asthma and cardiac outcomes. Thirteenth World Conference on Tobacco or Health, Washington, DC.

Hahn, E.J., Thompson, E.C., **Rayens, M.K.**, Blomquist, G.C., Garen, J.E., and Mullineaux, D.J. (July 2006). Effect of smoke-free laws on turnover in a large national restaurant chain. Thirteenth World Conference on Tobacco or Health, Washington, DC.

Okoli, C.T.C, Hahn, E.J., and **Rayens, M.K.** (July 2006). Behavioral effects of nicotine exposure from secondhand smoke among restaurant and bar workers. Thirteenth World Conference on Tobacco or Health, Washington, DC.

Ashford, K., Hahn, E., Peden, A., **Rayens, M.K.**, and Hall, L. (February 2007). Successful postpartum smoking abstinence. Southern Nursing Research Society Annual Conference, Galveston, TX.

Smith, C., Lennie, T., Hall, L., Chung, M., Heo, S., **Rayens, M.K.**, Riegel, B., and Moser, D. (February 2007). Testing the validity of a one-item quality of life assessment tool in heart failure. Southern Nursing Research Society Annual Conference, Galveston, TX.

York, N., Hahn, E., **Rayens, M.K.**, Anderson, D., and Talbert, J. (February 2007). Community readiness for smoke-free policy change in Kentucky. Southern Nursing Research Society Annual Conference, Galveston, TX.

Ohlmann, A., Burkhart, P., Baumgardner, J., Svavarsdottir, E., Oakley, M., Orlygsdottir, B., Westneat, S., and **Rayens, M.K.** (February 2007). Factors related to asthma quality of life for U.S. and Icelandic adolescents. Southern Nursing Research Society Annual Conference, Galveston, TX.

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Mary Kay Rayens, PhD

- Hall, L., **Rayens, M.K.**, and Peden, A. (February 2007). The mother-daughter bond during childhood and parenting the next generation. Southern Nursing Research Society Annual Conference, Galveston, TX.
- Adams, S., **Rayens, M.K.**, Peden, A., Hall, L., and Leukefeld, C. (February 2007). Factors associated with retention of previously incarcerated women in a community-based substance abuse treatment programs. Southern Nursing Research Society Annual Conference, Galveston, TX.
- Parrish, E., Peden, A., Reed, D. and **Rayens, M.K.** (February 2007). Psychometric properties of the John Henryism scale in rural adolescents. Southern Nursing Research Society Annual Conference, Galveston, TX.
- Baumgardner, J., Ohlmann, A., Burkhart, P., Svavarsdottir, S., Oakley, M., Orlygsdottir, B., Westneat, S., and **Rayens, M.K.** (April 2007). Factors related to quality of life for U.S. and Icelandic adolescents with asthma. Showcase of Undergraduate Scholars, University of Kentucky, Lexington, KY.
- Svavarsdottir, E.K., Burkhart, P.V., Orlygsdottir, B., **Rayens, M.K.**, and Westneat, S. (May 2007). Factors related to quality of life for adolescents with asthma and their parents. Royal College of Nursing Annual International Nursing Research Conference, Dundee, Scotland.
- Rayens, M.K.** and Hahn, E.J. (June 2007). Effects of a Quit and Win Tobacco Cessation Contest. Second Annual Clinical and Translational Science Spring Conference, Lexington, KY.
- Butler, K.M., **Rayens, M.K.**, Maggio, L., Riker, C., & Hahn, E. (September 2007). Tobacco dependence treatment and healthcare workers. WorkLife2007: Protecting and Promoting Worker Health – A National Symposium (NIOSH), Bethesda, MD.
- Reed, D.R., **Rayens, M.K.**, Zhang, M., and Claunch, D.T. (September 2007). Health care delay of aging agriculture producers. WorkLife2007: Protecting and Promoting Worker Health – A National Symposium (NIOSH), Bethesda, MD.
- Chung, M.L., Moser, D.K., and **Rayens, M.K.** (September 2007). The effects of depressive symptoms and anxiety on quality of life: Testing dyadic dynamics using the Actor-Partner Interdependence Model. Health Failure Society of America Annual Meeting, Washington, DC.
- Hahn, E.J., **Rayens, M.K.**, Hatcher, J., Zhang, M. Motivation to quit smoking among relatives of lung cancer patients. (September 2007). Markey Cancer Center Research Day, Lexington, KY.
- Rayens, M.K.**, Hahn, E.J., Zhang, M., and Butler, K.M. (October 2007). Telephone interviews and efficacy of Quit and Win Contests. 2007 National Conference on Tobacco or Health, Minneapolis, MN.
- Hahn, E.J., **Rayens, M.K.**, Zhang, M., and Langley, R. (October 2007). Public support for smoke-free laws: An urban versus rural comparison. 2007 National Conference on Tobacco or Health, Minneapolis, MN.

- York, N.L., Hahn, E.J., and **Rayens, M.K.** (October 2007). Local elected officials' views on smoke-free policy. 2007 National Conference on Tobacco or Health, Minneapolis, MN.
- York, N.L., Hahn, E.J., and **Rayens, M.K.** (October 2007). A novel approach to evaluating smoke-free policy readiness. 2007 National Conference on Tobacco or Health, Minneapolis, MN.
- Butler, K.M., **Rayens, M.K.**, Maggio, L., Riker, C., & Hahn, E. (October 2007). Tobacco treatment training in nursing education: Live and learn. 2007 National Conference on Tobacco or Health, Minneapolis, MN.
- Rayens, M.K.**, Hahn, E.J., Zhang, M., Butler, K., and Steinke, D. (November 2007). Effect of a smoke-free law on the community smoking rate. American Public Health Association 135th Annual Meeting, Washington, DC.
- Ashford, K., Hahn, E.J., **Rayens, M.K.**, and Hall, L.A. (February 2008). Prenatal secondhand smoke exposure and birth outcomes. Southern Nursing Research Society Annual Conference, Birmingham, AL.
- Chaowiang, K., **Rayens, M.K.**, and Peden, A.R. (February 2008). Factors influencing depressive symptoms among Thai adolescents. Southern Nursing Research Society Annual Conference, Birmingham, AL.
- Durbin, E.G., Riker, C., Hahn, E.J., Cavendish, S., Zhang, M., and **Rayens, M.K.** (February 2008). Leadership and smoke-free policy development. Southern Nursing Research Society Annual Conference, Birmingham, AL.
- Hayes, G., **Rayens, M.K.**, and Robertson, H. (February 2008). GIS mapping: Tobacco smoke, radon, and lung cancer. Southern Nursing Research Society Annual Conference, Birmingham, AL.
- Hahn, E.J., **Rayens, M.K.**, Ridner, S.L., and Staten, R. (February 2009). Smoke-free policy and college students' opinions. Southern Nursing Research Society Annual Conference, Baltimore, MD.
- Rinker, G., **Rayens, M.K.**, and Hahn, E.J. (February 2009). Radon knowledge, beliefs and risk-reduction behaviors. Southern Nursing Research Society Annual Conference, Baltimore, MD.
- Hahn, E.J., **Rayens, M.K.**, Zhang, M., and York, N. (June 2009). Developing smoke-free policy in rural Kentucky. National Conference on Tobacco or Health, Phoenix, AZ.
- Riker, C., Stefaniak, K., Webb, M., **Rayens, M.K.**, Zhang, M., Durbin, E., and Hahn, E.J. (June 2009). Smoke-free policy and leadership in rural communities. National Conference on Tobacco or Health, Phoenix, AZ.
- York, N., Hahn, E.J., **Rayens, M.K.**, Zhang, M., and Casey, B. (June 2009). Measuring strength of tobacco control in rural communities. National Conference on Tobacco or Health, Phoenix, AZ.

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Butler, K., Hedgecock, S., Derifield, S., McGinn, C., Murray, D., **Rayens, M.K.**, and Hahn, E.J. (June 2009). Reaching low income smokers: A collaboration with county extension agents. National Conference on Tobacco or Health, Phoenix, AZ.

Rayens, M.K., Arrowood, K., Zhang, M., York, N., Begley, K., and Hahn, E.J. (June 2009). Smoke-free Policy in Rural Areas: Views from Elected Officials and Community Advocates. National Conference on Tobacco or Health, Phoenix, AZ.

Rayens, M.K., Langley, R.E., Zhang, M., Dignan, M., and Hahn, E.J. (November 2009). Tobacco cessation and smoke-free laws in rural, economically distressed communities. American Public Health Association 137th Annual Meeting, Philadelphia, PA.

Hahn, E.J., **Rayens, M.K.**, Zhang, M., Lee, S., Burkhart, P.V., and Moser, D.K. (November 2009). Gender, smoke-free laws and reduction in hospitalizations for acute myocardial infarction. American Public Health Association 137th Annual Meeting, Philadelphia, PA.

Hahn, E.J., **Rayens, M.K.**, York, N., and Zhang, M. (November 2009). Policy outcomes and readiness for smoke-free legislation in rural communities. American Public Health Association 137th Annual Meeting, Philadelphia, PA.

Ashford, K., Hahn, E.J., **Rayens, M.K.**, Hall, L.A. & Ferguson, J. (November 2009). Prenatal secondhand smoke exposure and birth/newborn outcomes. American Public Health Association 137th Annual Meeting. Philadelphia, PA

Fallin, A., **Rayens, M.K.**, and Hahn, E. (November 2009). Smoke-free laws, smoke-free restaurant policies, and smoke-free school campuses. American Public Health Association 137th Annual Meeting, Philadelphia, PA.

Ashford, K., Hahn, E. J., **Rayens, M.K.**, Hall, L. A., Noland, M. & Ferguson, J. (November 2009). The effects of prenatal secondhand smoke exposure on preterm birth and newborn outcomes. Annual Clinical and Translational Science Spring Conference, Lexington, KY.

Cassidy, K., Hahn, E.J., and **Rayens, M.K.** (November 2010). Quality improvement, clinician attitudes, and referrals to tobacco treatment counseling programs. American Public Health Association 138th Annual Meeting, Denver, CO.

Fernander, A., **Rayens, M.K.**, Adkins, S.M., and Hahn, E.J. (November 2010). Influence of smoke-free laws on quitline utilization among underserved populations. American Public Health Association 138th Annual Meeting, Denver, CO.

Hahn, E.J., **Rayens, M.K.**, York, N.L., and Adkins, S. (February 2011). Promoting smoke-free policy development in rural Kentucky: A randomized controlled community-based trial. Southern Nursing Research Society Annual Conference, Jacksonville, FL.

Butler, K. M., Record, R., Kercksmar, S., **Rayens, M. K.**, Murray, D., Hahn, E. J. (March 2011). Health literacy as an essential component of a smoking cessation outreach strategy. Kentucky Health Literacy Summit, Bowling Green, KY.

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Butler, K. M., Hedgecock, S., Derifield, S., McGinn, C., Record, R., Adkins, S., **Rayens, M. K.**, Murray, D., Hahn, E. J. (April 2011). A culturally sensitive smoking cessation outreach strategy for rural adults. 6th Annual Spring Conference, University of Kentucky Center for Clinical and Translational Science, Lexington, KY.

Kercsmar, S., Hahn, E.J., Robertson, H., **Rayens, M.K.**, and Adkins, S. (June 2011). Promoting healthy homes through primary care: Freedom from Radon and Smoking in the Home (FRESH). National Healthy Homes Conference, Denver, CO.

Rayens, M.K. and Reed, D. (October 2011). The impact of work, stress and physical health on the mental health of older farm couples. American Public Health Association 139th Annual Meeting, Washington, DC.

Hahn, E.J., **Rayens, M.K.**, York, N., and Adkins, S. (October 2011). Promoting smoke-free policy development in rural Kentucky: A randomized controlled community-based trial. American Public Health Association 139th Annual Meeting, Washington, DC.

Fallin, A., Zuercher, R., **Rayens, M.K.**, Adkins, S., and Hahn, E.J. (October 2011). Development of a brief, online community readiness survey for smoke-free policy. American Public Health Association 139th Annual Meeting, Washington, DC.

Conference Presentations (including papers and posters); 2012 to present

Rahman, R., Warshawsky, N. E., **Rayens, M. K.**, Nursing Research Papers Day, "The effect of nurse manager turnover on patient fall and pressure ulcer rates." (November 2012).

Fallin, A., Hahn, E. J., Begley, K., Adkins, S., **Rayens, M. K.**, American Public Health Association Conference, "An online, automated readiness survey and stage-based interventions for rural smoke-free policy development." (October 2012).

Rahman, R., Warshawsky, N. E., **Rayens, M. K.**, Kentucky Organization of Nurse Leaders (KONL) Annual Meeting, Kentucky Organization of Nurse Leaders (KONL), "The effect of nurse manager turnover on patient fall and pressure ulcer rates." (September 2012).

Hahn, E. J., **Rayens, M. K.**, York, N., Adkins, S., National Conference on Tobacco or Health, "Eliminating disparities by advancing smoke-free policy in rural communities." (August 2012).

Hahn, E. J., **Rayens, M. K.**, Frazier, S. K., Adkins, S., National Conference on Tobacco or Health, "Smoke-free policy and chronic obstructive pulmonary disease hospitalizations." (August 2012).

Fallin, A., **Rayens, M. K.**, Hahn, E. J., National Conference on Tobacco or Health, "Smoke-free policy implementation effectiveness." (August 2012).

Howard, P. B., El-Mallakh, P., and **Rayens, M. K.** Organizational support for implementation of a medication management evidence-based practice in the treatment of schizophrenia. 3rd Annual Congress of NeuroTalk-2012, BIT Life Sciences, Beijing, China. (May 2012).

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Reed, D. B., **Rayens, M. K.**, Teaster, P. B., Adkins, S., 33rd Annual Meeting of the Southern Gerontological Society, Southern Gerontological Society, "Mental health effects of farmwork for farmers and farm couples over age 50." (April 2012).

Hatcher, J., **Rayens, M. K.**, Dignan, M. B., American Society of Preventive Oncology, "Exploring perceptions of risk, benefits, and barriers by stage of mammography adoption." (March 2012).

Hahn, E. J., **Rayens, M. K.**, Frazier, S. K., Mannino, D. M., Adkins, S., Hopkins, E., 2012 Annual Conference, Southern Nursing Research Society, "Fewer hospitalizations for chronic obstructive pulmonary disease in communities with smoke-free public policies." (February 2012).

Hatcher, J., Schoenberg, N. E., **Rayens, M. K.**, 2012 annual meeting of Southern Nursing Research Society, "Mammography Promotion in the Emergency Department: Should we go there." (February 2012).

Mudd-Martin, G. T., Martinez, M., **Rayens, M. K.**, Gokun, Y., Meininger, J., International Society of Nurses in Genetics Conference, "Cardiovascular disease and type 2 diabetes risk reduction among Latinos: Integrating genomic and family history education into a healthy lifestyle intervention." (October 2013).

Kelly, T., Stoops, W., Hu, W., Orren, D., **Rayens, M.K.**, and Knapp, A. (April 2013). Joys and Challenges of Working Cross-Discipline in a Translational Science Team. Part of the symposium: Transdisciplinary Translational Science: Moving Outside Your Comfort Zone. University of Kentucky Center for Clinical and Translational Science Spring Conference. Lexington, KY.

Rayens, M.K. and Hahn, E.J. (July 2013). Secondary analysis of large datasets for healthcare outcome studies. UK College of Nursing Seminar Series, Lexington, KY.

Salt, E. G., **Rayens, M. K.**, Frazier, S. K., 2013 Southern Nursing Research Society Annual Meeting, Southern Nursing Research Society (SNRS), "Predictors of perceived quality of patient-provider communication in patients with rheumatoid arthritis." (February 2013).

Hahn, E. J., **Rayens, M. K.**, Butler, K. M., Ashford, K. B., Adkins, S., Southern Nursing Research Society Conference, Southern Nursing Research Society, "Home smoking policies, strength of smoke-free law and children in the home." (February 2013).

Salt, E. G., **Rayens, M. K.**, Frazier, S. K. (2013, February). *Predictors of perceived quality of patient-provider communication in patients with rheumatoid arthritis*. 2013 Southern Nursing Research Society Annual Meeting, Southern Nursing Research Society (SNRS), Little Rock, AR.

Warshawsky, N. E., Lake, S., **Rayens, M. K.**, Havens, D. (2013, April). *Describing the practice environment of nurse managers*. STTI Creating Healthy Work Environments, Indianapolis, IN.

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- Hahn, E. J., **Rayens, M. K.**, Butler, K. M., Ashford, K. B., Adkins, S. (2013, February). *Home smoking policies, strength of smoke-free law, and children in the home*. Southern Nursing Research Society Conference, Southern Nursing Research Society, Little Rock, AR.
- Warshawsky, N. E., Lake, S., **Rayens, M. K.**, Havens, D. (2013, March). *Describing the practice environment of nurse managers*. American Organization of Nurse Executives Annual Meeting, Denver, CO.
- Rahman, R., Warshawsky, N. E., **Rayens, M. K.** (2013, March). *The effect of nurse manager turnover on patient fall and pressure ulcer rates*. Scholarship Showcase, College of Nursing, Lexington, KY.
- El-Mallakh, P., Howard, P. B., **Rayens, M. K.**, Roque, A. P., Adkins, S. (2013, July). *Organizational Fidelity to a Medication Management Evidence-Based Practice in a Public Sector Treatment Setting*. Sigma Theta Tau International Biennial Conference, Sigma Theta Tau, Prague, Czech Republic.
- Moser, D. K., Dekker, R. L., Mudd-Martin, G. T., Chung, M. L., Biddle, M. J., Bailey, A. L., Casey, B. R., Westneat, S., **Rayens, M. K.**, Novak, M. J., Lennie, T. A. (2013, November). *Improving depressive symptoms among rural patients at high risk for cardiovascular disease in the most mentally distressed area in the country*. 2013 American Heart Association Scientific Sessions, American Heart Association, Dallas, TX.
- Butler, K. M., **Rayens, M. K.**, Begley, K., Hahn, E. J., 24th Annual Nursing Research Papers Day, UK HealthCare Nursing Service in Collaboration with UK College of Nursing, "Perceived risk related to secondhand smoke exposure in the home." (November 2014).
- Mudd-Martin, G. T., **Rayens, M. K.**, Moser, D. K., International Society of Nurses in Genetics Conference, "Characteristics Associated With Willingness To Participate In Genetic Research." (November 2014).
- Moser, D. K., Mudd-Martin, G. T., Biddle, M. J., Chung, M. L., **Rayens, M. K.**, Bailey, A., Lennie, T. A., European Society of Cardiology Congress, "The HeartHealth trial: Improving depressive symptoms and cardiovascular disease risk in the most physically and mentally unhealthy area in the United States on behalf of HeartHealth." (September 2014).
- Butler, K. M., **Rayens, M. K.**, Begley, K., Hahn, E. J. (2014, March). *Tobacco exposure, perceived risk, and lung cancer worry*. 9th Annual Clinical and Translational Science Spring Conference, Lexington, KY.
- Sturgeon, L., Frazier, S. K., Lennie, T. A., **Rayens, M. K.**, Callahan, L. A., Speck, D. F. (2014, February). *Glycemic variability and respiratory and peripheral muscle function in critically ill ventilator-dependent adults*. 2014 Southern Nursing Research Society Annual Conference, Southern Nursing Research Society (SNRS), San Antonio, TX.
- Hatcher, J., Dignan, M. B., **Rayens, M. K.**, Schoenberg, N. E. (2014, March). *Sisters Educated in Emergency Departments: Results of a Pilot Mammography Promotion Project*. American Society of Preventive Oncology, Washington, DC.

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- Forren, J. L., **Rayens, M. K.**, Gokun, Y., Jalota, L., Radke, O., Hooper, V., Apfel, C. (2014, September). *The Relationship of Persistent Pain and Nausea in Postoperative Patients for One Week After Ambulatory Surgery*. Council of Advancement of Nursing Science, Washington, DC.
- Butler, K. M., **Rayens, M. K.**, Begley, K., Hahn, E. J. (2014, November). *Predictors of Lung Cancer Worry*. American Public Health Association Conference, American Public Health Association, New Orleans, LA.
- Butler, K. M., Wiggins, A. T., **Rayens, M. K.**, Begley, K., Kirkpatrick, B., Hahn, E. J., 10th Annual Clinical and Translational Science Spring Conference, "FRESH: Home Testing to Prevent Lung Cancer in Renters and Homeowners." (2015).
- Hahn, E. J., **Rayens, M. K.**, Wiggins, A. T., Begley, K., Butler, K. M., 24th Annual Nursing Research, UK HealthCare Nursing Service in Collaboration with UK College of Nursing, "Radon and Tobacco Smoke Risk Reduction for Lung Cancer Prevention." (2015).
- Hahn, E. J., Butler, K. M., Wiggins, A. T., Begley, K., Kirkpatrick, B., **Rayens, M. K.**, American Public Health Association, "Home Testing to Prevent Lung Cancer in Renters and Homeowners." (2015).
- Butler, K. M., Ickes, M. J., Wiggins, A. T., **Rayens, M. K.**, Hahn, E. J., American Public Health Association, "Intention to Quit and Polytobacco Use among College Student Smokers." (2015).
- Butler, K. M., Wiggins, A. T., **Rayens, M. K.**, Begley, K., Kirkpatrick, B., Hahn, E. J., Kentucky Public Health Association, "FRESH: Dual Home Testing to Prevent Lung Cancer." (2015).
- Butler, K. M., Wiggins, A. T., **Rayens, M. K.**, Begley, K., Kirkpatrick, B., Hahn, E. J., Veterans' Administration, "FRESH: Dual Home Screening for Lung Cancer Prevention." (2015).
- Hardin-Fanning, F., **Rayens, M. K.**, Appalachian Translational Research Conference, "Self-efficacy and subjective norms are associated with fruit and vegetable consumption in Appalachia." (October 2015).
- Linares, A. M., **Rayens, M. K.**, Dignan, M. B., Breastfeeding Policy in Childcare Facilities in North-Central Kentucky, "Exclusive Breastfeeding in Hispanic Mothers: The role of Breastfeeding Self-Efficacy." (October 2015).
- Linares, A. M., **Rayens, M. K.**, Wiggins, A. T., Dignan, M. B., International Lactation Consultant Association (ILCA) Conference and Annual Meeting, "Exclusive Breastfeeding Duration in Hispanic Mothers: the role of Breastfeeding Self-Efficacy." (July 2015) Washington, DC.
- Ickes, M. J., Butler, K. M., **Rayens, M. K.**, Noland, M., Wiggins, A. T., Hahn, E. J. (2015, November). *Tips from former smokers campaign on a university campus*. IOSSBR Annual Conference, International Organization of Social Sciences and Behavioral Research, Boca Raton, FL.

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Hahn, E. J., **Rayens, M. K.**, Wiggins, A. T., Begley, K., Butler, K. M. (2015). *Radon and Tobacco Smoke Risk Reduction for Lung Cancer Prevention*. American Association of Radon Scientists and Technologists' International Radon Symposium, Bloomington, MN.

Brendamour, B., Wiggins, A. T., **Rayens, M. K.**, Hardin-Fanning, F. (2015, April). *Food accessibility trends and health in America's counties*. 2015 National Council on Undergraduate Research Conference, NCUR, Eastern Washington University, WA.

Linares, A. M., **Rayens, M. K.**, Gomez, M., Dignan, M. B. (2015, February). *Intention to Breastfeed and Initiation of Exclusive Breastfeeding in Hispanic Women*. 29th Annual Conference of the Southern Nursing Research Society, Tampa, FL.

Butler, K. M., Young, K., **Rayens, M. K.**, Wiggins, A. T., Hahn, E. J. (2016). *Breathing Radon and Tobacco Smoke: A Dangerous Combination*. American Association of Radon Scientists and Technologists' International Radon Symposium, San Diego, CA, United States.

Ashford, K. B., Barnett, J., Wiggins, A. T., Gomez, M., Butler, K. M., **Rayens, M. K.**, Hahn, E. J. (2016). *E-cigarette Use among Pregnant Women and Women of Childbearing Age*. Southern Nursing Research Society, Williamsburg, VA, United States.

Rayens, M. K., Ickes, M. J., Butler, K. M., Wiggins, A., Anderson, D. G. and Hahn, E. J. (2016, November). University Students' Perceived Risk of and Intention to Use Hookah and E-cigarettes. American Public Health Association Annual Meeting, Denver, CO.

Hahn, E. J., **Rayens, M. K.**, Wiggins, A. T., Rademacher, K., Butler, K. M. (2016). *Lung Cancer Risk and Radon and Tobacco Smoke Exposure*. Veterans' Administration Research Day, Lexington, KY, United States.

Ickes, M. J., Wiggins, A. T., **Rayens, M. K.**, Hahn, E. J., World Conference on Lung Health, "Students' perceived effectiveness of a campus tobacco-free policy." (October 2016).

Huntington-Moskos, L., Butler, K. M., **Rayens, M. K.**, Wiggins, A. T., Begley, K., Hahn, E. J., American Public Health Association, "Lung Cancer Prevention: Home Testing for Radon and Secondhand Smoke". (2016).

Mundy, M.E., Butler, K. M., **Rayens, M. K.**, Wiggins, A. T., Rademacher, K., Hahn, E. J., Kentucky Lung Cancer Symposium, "Reducing Lung Cancer Risk through Elimination of Tobacco Smoke and Radon Exposure". (2016).

Huntington-Moskos, L., Butler, K. M., **Rayens, M. K.**, Wiggins, A. T., Begley, K., Hahn, E. J., Kentucky Lung Cancer Symposium, "Lung Cancer Prevention: Home Testing for Radon and Secondhand Smoke". (2016).

Hardin-Fanning, F., Witt, C. D., **Rayens, M. K.**, Nutrition Education and Behavior International Research Conference, Nutrition Education and Behavior International Research, "Factors associated with food insecurity in rural Central Appalachia". (July 2017).

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Mary Kay Rayens, PhD

Wiggins, A.T., **Rayens, M.K.**, Noland, M., Huntington-Moskos, L., Hahn, E.J. (2017) Tobacco use among urban and rural U.S. high school students: longitudinal assessment of the National Youth Tobacco Survey, 2011-2014. National Conference on Tobacco or Health, Austin, TX

Ickes, M., Wiggins, A., **Rayens, M.K.**, Noland, M., Mundy, M., Hahn, E.J. (2017) Social influences and intentions to use emerging tobacco products among college students. National Conference on Tobacco or Health, Austin, TX

Ickes, M., Wiggins, A., **Rayens, M.K.**, Shore, M., Hahn, E.J. Truth® ads, receptivity, and motivation to use or quit tobacco among college students. (2017) National Conference on Tobacco or Health, Austin, TX

Ickes, M., Wiggins, A., **Rayens, M.K.**, Parento, E., Polvika, B., Hahn, E.J. (2017) Employee adherence to tobacco-free executive order on state property. National Conference on Tobacco or Health, Austin, TX

Ashford, K., Wiggins, A., **Rayens, M.K.**, Sayre, M., Fallin-Bennet, A., McCubbin, A., Barnett, J. (2017) Advertising exposure and use of e-cigarettes among women of childbearing age. National Conference on Tobacco or Health, Austin, TX

Butler, K., Ickes, M., Wiggins, A., **Rayens, M.K.**, Hahn, E.J. (2017) Intention to quit smoking among college student Polytobacco users. National Conference on Tobacco or Health, Austin, TX

Book Chapters

Rayens, M.K. and Tucker, T.C. (2000). "Statistical Tools used in Applying Epidemiological Concepts to the Management of Healthcare Resources," Chapter 3 in the book Managerial Epidemiology, First Edition (Editors: S.T. Fleming, F.D. Scutchfield, and T.C. Tucker), Health Administration Press, Chicago, IL.

Martin, C.M., Guenther, G., Bingcang, C., Smith, W.J., Curry, T., Omar, H.A., **Rayens, M.K.**, and Kelly, T.H. (2007). "Attention Deficit Hyperactivity Disorder and Pubertal Changes," Chapter 18 in the book Adolescent Behavior Research: International Perspectives (Editors: J. Merrick and H.A. Omar), Nova Science Publishers, Inc., New York, NY.

Hahn, E.J., Ashford, K.B., Okoli, C.T., **Rayens, M.K.**, Ridner, S.L., and York, N.L. (2009). "Nursing research in community-based approaches to reduce exposure to secondhand smoke," Chapter 15 in the book Annual Review of Nursing Research, Volume 27 (Volume Editors: L. Sarna and S. Bailous), Springer Publishing Company, New York, NY.

Rayens, M.K. and Tucker, T.C. (2008). "Statistical Tools used in Applying Epidemiological Concepts to the Management of Healthcare Resources," in the book Managerial Epidemiology, Second Edition (Editor: S.T. Fleming), Health Administration Press, Chicago, IL.

V. UNIVERSITY AND PUBLIC SERVICE

Service That Supports Educational Mission of the University of Kentucky

- 1998 – 2005 I have supervised and trained nine graduate students from the University of Kentucky Department of Statistics or University of Kentucky College of Nursing who were hired to provide biostatistical support in the Biostatistics Consulting Unit or the University of Kentucky College of Nursing.
- 2003 – 2005 College of Nursing representative on the Medical Center Academic Council
- 2004 – 2005 Liaison to the Undergraduate Council from the Medical Center Academic Council
- 2007 Application reader for the William C. Parker Scholarship for University of Kentucky undergraduate students
- 2008 Application reader for the academic scholarships awarded by the University of Kentucky to incoming undergraduate students
- 2007 – 2009 Member of the College of Nursing Governance Council
Member of the College of Nursing PhD Program Committee
- 2009 Member of the Math, Logic and Statistics Foundations Faculty Curricular Team (part of Quantitative Reasoning) for University of Kentucky General Education Reform
- 2009 – 2010 Member, University of Kentucky Health Care Clinical Sciences Area Advisory Committee
Member of the College of Nursing Promotion, Appointment and Tenure Advisory Committee
- 2010 – 2011 Chair, University of Kentucky Health Care Clinical Sciences Area Advisory Committee
Member of the College of Nursing Graduate Faculty Search Committee
- 2011 – 2012 Member of the College of Nursing Promotion, Appointment and Tenure Advisory Committee
- 2012 – 2013 Chair, College of Nursing Promotion, Appointment and Tenure Advisory Committee
- 2013 – 2014 Member, Senate Advisory Committee on Privilege and Tenure
- 2014 – 2015 Chair, Senate Advisory Committee on Privilege and Tenure
- 2015 – 2017 Member of the University Faculty Performance Review Appeals Committee
Member of the College of Nursing Promotion, Appointment and Tenure Advisory Committee

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- 2015 – 2016 Member of the College of Nursing Promotion, Appointment and Tenure Advisory Committee
- 2016 – 2017 Chair, College of Nursing Promotion, Appointment and Tenure Advisory Committee
- 2017 – 2019 Chair, University of Kentucky Health Care Clinical Sciences Area Advisory Committee
- 2017 – 2020 Member of the Advancement of the Student Scholarly Affairs Council
- 2018 – 2020 Member, College of Nursing PhD Program Committee
- 2019 – 2021 Alternate and Member, UK Health Care Colleges Council (member during the maternity leave of a colleague)

Service That Supports the Research Mission of the University of Kentucky

- 1992 – present I have consulted with many faculty members from the Colleges of Nursing, Medicine, Dentistry, Pharmacy, and Allied Health on the appropriate methods for planning and implementing the statistical aspects of their research.
- I have acted as a co-investigator, biostatistician, or consultant on a variety of sponsored projects and internally-funded grants.
- I have actively participated in grant and manuscript development with a wide array of faculty from all colleges in the Medical Center.
- 1998 I participated in project selection as a member of the Children’s Miracle Network grant review committee (October, 1998).
- 2001 – 2002 As Associate Director of the Biostatistics Consulting Unit, I supervised a Master’s level statistician whose primary job responsibility is to provide assistance to faculty developing grant proposals and graduate students working on theses or dissertations.
- 2002 – 2003 Member of Data Monitoring Board for the project “The Menstrual Cycle and Cortisol Response in Chronic Fatigue Syndrome,” (Mary Duke, Principal Investigator).

Service to the Profession

- 2003 – present Reviewer for the following journals: *American Journal of Public Health, JAMA Internal Medicine, Nicotine & Tobacco Research, Journal of Nursing Scholarship, Preventing Chronic Disease, Research in Nursing & Health, American Journal of Preventive Medicine, American Journal of Health Promotion, Environmental Health, Birth, Western Journal of Nursing Research, International Journal of Nursing Studies, Journal of Advanced*

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Nursing, Clinical Nursing Research, BMJ Open, Health Psychology, International Journal of Environmental Research and Public Health, Policy, Politics & Nursing Practice, Journal of Health Psychology, Tobacco Induced Diseases, Industrial Health, Journal of the American Psychiatric Nurses Association, Addiction Research & Theory, and BMC Public Health (part of the BioMed Central journal series).

- 2006 – 2012 Annual abstract reviewer for the Southern Nursing Research Society Conferences (June of each year)
- 2009 – 2015, 2020, 2021 Annual abstract reviewer for the American Public Health Association Conferences (March of each year)
- 2011 – present External reviewer for a candidates being considered for appointment or promotion at the University of Louisville School of Nursing, the University of Michigan School of Nursing, the UCLA School of Nursing, and the University of Utah School of Medicine.

Service to the Public

- 1992 – 2003 I provided biostatistical consulting for several clients external to the University. Clients between 1998 and 2003 include Shriners Hospitals for Children in Lexington, Cardinal Hill Rehabilitation Hospital, Central Baptist Hospital, HealthScreenings, Inc., Kentucky Sports Medicine/Joyner Sportsmedicine Institute, University of Washington in Seattle, Kentucky Department of Education, Louisville Gas and Electric, and Appalachian Regional Healthcare.

VIII. ADMINISTRATIVE ACTIVITY AND PROFESSIONAL DEVELOPMENT

Non-sponsored Administrative Activities

- 1992 – 2002 I had a variety of administrative responsibilities as Associate Director of the Biostatistics Consulting Unit. These responsibilities included developing the annual budget for the Unit, providing monthly activity and billing reports to the Vice Chancellor for Research and Graduate Studies, setting policy for the Unit, and hiring/supervising Unit personnel.
- 2005 – 2009 I supervised Mei Zhang, MPH, MSN, who worked as a statistician for the UK College of Nursing.
- 2010 – 2012 I supervised Sarah Adkins, MS, who worked as a statistician for the UK College of Nursing.
- 2013 I supervised Jane (Yevgeniya) Gokun, MS, who worked as a statistician for the UK College of Nursing.

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2014 – Present I supervise Amanda T. Wiggins, PhD, who is Lecturer and Statistician in the UK College of Nursing.

Membership in Professional Societies

1990 – present American Statistical Association
International Biometric Society – East North American Region

2006 – present American Public Health Association