

## CURRICULUM VITAE

### Thomas C. Tucker, PhD, MPH

Markey Cancer Center  
Cancer Prevention and Control Program  
University of Kentucky  
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(Updated October 2021)



### **ACADEMIC AND PROFESSIONAL EXPERIENCE**

Markey Cancer Center  
University of Kentucky  
Lexington, Kentucky

<b>Senior Director for Cancer Surveillance</b>	<b>06/00 - Present</b>
<b>Associate Director, Kentucky Cancer Registry</b>	<b>07/18 - Present</b>
<b>Associate Director for Cancer Prevention and Control</b>	<b>12/04 - 06/20</b>
<b>Principal Investigator NCI-SEER Contract</b>	<b>02/01 - 05/18</b>
<b>Principal Investigator CDC-NPCR Grant</b>	<b>09/94 - 07/18</b>
<b>Director, Kentucky Cancer Registry</b>	<b>06/00 - 07/18</b>
<b>Acting Director for Cancer Control</b>	<b>07/98 - 06/00</b>
<b>Associate Director for Cancer Control</b>	<b>09/84 - 07/98</b>

Department of Epidemiology  
College of Public Health  
University of Kentucky  
Lexington, Kentucky

<b>Full Professor (with Tenure)</b>	<b>05/18 - Present</b>
<b>Associate Professor (with Tenure)</b>	<b>06/00 - 05/18</b>
<b>Founding Chair, Epidemiology Department</b>	<b>05/04 - 01/09</b>
<b>Director, Epidemiology Division</b>	<b>06/00 - 05/04</b>

Department of Health Services Management  
College of Allied Health Sciences  
University of Kentucky  
Lexington, Kentucky

<b>Associate Professor (with Tenure)</b>	<b>04/90 - 06/00</b>
<b>Assistant Professor of Health Administration</b>	<b>09/84 - 04/90</b>

Kalamazoo Community Hospital Oncology Program  
Borgess Medical Center  
Kalamazoo, Michigan

<b>Administrative Director</b>	<b>03/81 - 09/84</b>
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Grand Rapids Clinical Oncology Program Butterworth Hospital Grand Rapids, Michigan <b>Administrative Director</b>	<b>11/75 - 03/81</b>
American Cancer Society Midwestern Area Office Des Plaines, Illinois <b>Area Public Education Director</b>	<b>06/73 - 11/75</b>
American Cancer Society National Office New York, New York <b>Public Education Representative</b>	<b>12/71 - 06/73</b>
American Cancer Society Missouri Division West Metro Area Office Kansas City, Missouri <b>Associate Director</b> <b>Program Representative</b>	<b>04/71 - 12/71</b> <b>06/69 - 04/71</b>
OEO/CAP Agency Kansas City, Missouri <b>Research Assistant and Consultant</b>	<b>06/68 - 01/69</b>

**EDUCATION**

University of Kentucky, Lexington, KY  
PhD - 2001  
Major: Medical Sociology  
Minor: Organizational Theory

University of Michigan, Ann Arbor, MI  
MPH - 1982  
Major: Medical Care Organization  
Minor Emphasis Areas: Epidemiology and Biostatistics

University of Oklahoma, Norman, OK  
Certificate - 1970  
Special Topics Course: Community Organization

University of Kansas, Lawrence, KS  
BA - 1969  
Major: Political Science  
Minor Emphasis Area: Communication

**HONORS**

National Program of Cancer Registries (NPCR), 20<sup>th</sup> Anniversary Public Health Award for Significant Contributions in Cancer Prevention and Control, Centers for Disease Control and Prevention (CDC), Washington, D.C., Aug. 2012.

Elected to the Delta Omega Public Health Honor Society, University of Kentucky (Beta Gamma Chapter), January 2008.

Calum S. Muir Award for Lifetime Contributions to Cancer Surveillance, North American Association of Central Cancer Registries (NAACCR), Toronto, Canada, June 2002.

O'Donnell Award for Outstanding Achievement as a Graduate Student in Sociology, University of Kentucky, Sociology Department Faculty, May 2000.

Elected to the Alpha Eta Honor Society for Allied Health, University of Kentucky Chapter, April 1995.

Outstanding Service Award, Kalamazoo Community Hospital Oncology Program, Kalamazoo, Michigan, August 1984.

Award for Outstanding Contribution to Cancer Control, Association of Community Cancer Centers (ACCC), Washington, D.C., March 1982.

## **PROFESSIONAL ACTIVITY (SERVICE)**

### International

#### **London School of Hygiene and Tropical Medicine, London, England**

Member Steering Committee, CONCORD Global Cancer Survival Study, 2009 to 2018

Member CONCORD Global Cancer Survival Study Working Group, 2009 to Present

#### **International Association of Cancer Registries (IACR), Lyon, France**

Member Board of Directors, Elected as one of two North American Representatives, 2010 to 2014

#### **Canadian Council of Cancer Registries, Toronto, Canada**

Member, 1999 to 2001

#### **Far East Medical University, Khabarovsk, Russia**

Development of collaborative public health and health services research projects, 1996

#### **Ministry of Public Health, Quito, Ecuador**

Pilot Project for development of a computerized data system for hospitals in Ecuador, 1988 to 1990

#### **Kentucky/Ecuador Partners of the Americas**

Member, Health Committee, 1987 to 1990

#### **North American Association of Central Cancer Registries (NAACCR)**

Chair, Strategic Alliances Steering Committee, 2012 to 2018

Chair, Data Evaluation and Certification Committee, 2005 to 2010

President, 1999 to 2001

President-elect, 1998

Chair, Search Committee for Executive Director, 1998

Member, Board of Directors, 1996 to 2003

Chairperson, Certification Committee, 1997 to 1999

Chairperson, Uniform Data Standards Committee, 1993 to 1994  
Member, High Quality Data Standards Committee, 2002 to 2008  
Member, 1989 to Present

National

**University of Puerto Rico Cancer Center**

Member, External Scientific Advisory Board, 2008 to 2015

**National Coordinating Council for Cancer Surveillance (NCCCS)**

Member, 1999 to 2001

Chair, 2016 to 2017

**Centers for Disease Control and Prevention (CDC)**

Member, National Program of Cancer Registries, Advisory Board, 1996 to 2000

Member, Health Education Specialist Training Faculty, 1998 to 2000

**National Cancer Institute (NCI)**

Co-Sponsor of a National Cancer Institute (NCI) Workshop, "Linking Private Health Insurance Claims with Population-based Cancer Registry Records", Washington, D.C., 2017

Member, Search Committee for the Director of the NCI, DCCPS, Cancer Surveillance Branch, 2013

Member, Grant Review Panel, NCI CISNET Program, Washington, D.C., 2005

Co-chairperson, Evaluation Committee, Appalachian Leadership Initiative on Cancer, 1993 to 1999

Member, Special Review Committee, NAACCR Conference Grant, February 1996

Member, Special Review Committee, Cancer Control Research Unit, Yale University, Bethesda, MD, March 1994

Member, Site Visit Team, Cancer Control Research Unit, Yale University, New Haven, CN, Oct. 1993

Member, Grant Review Panel, Rural Cancer Control Initiative, Washington, D.C., August 1991

Member, Grant Review Panel, Cancer in Special Populations, Washington, D.C., February 1991

Special Site Visitor, Data-Based Cancer Control Interventions Program, Georgia Department of Public Health, Atlanta, November 1990

Member, Grant Review Panel, Avoidable Mortality from Cancer in Native American Populations, Washington, D.C., 1989

Member, Grant Review Panel, Tobacco Use Prevention and Cessation among Native American Populations, Washington, D.C., 1989

Chairperson, Grant Review Panel, Data-Based Cancer Control Interventions Program, Washington, D.C., 1988

Special Site Visitor, Data-Based Cancer Control Interventions Program, North Carolina Department of Public Health, 1988

Member, Site Visit Team, Cancer Control Research Unit, Yale University, 1988

Member, Interim Review Committee, Data-Based Cancer Control Interventions Program, Washington, DC, 1988

Member, Grant Review Panel, Data-Based Cancer Control Interventions Program, 1987  
Member, Site Visit Team, Cancer Control Research Unit, Yale University, 1985  
Member, Site Visit Team, Cancer Care Research Program, Kaiser Permanente Research Unit, 1984  
Member, Site Visit Team, Cancer Control Network Program, Johns Hopkins University, 1980  
Member, Site Visit Team, Cancer Control Outreach Program, Memorial Sloan-Kettering Cancer Center, 1979

**Center for Substance Abuse Treatment (CSAT)**

Member, Cross-Site Evaluation Committee, 1995 to 1997  
Member, Cross-Site Evaluation Sub-committee on Publication Policies, 1995 to 1997

**Association of University Programs in Health Administration (AUPHA)**

Reviewer, Undergraduate Programs in Health Administration, Atlanta, GA, 1993  
Member, Health Administration Undergraduate Program Review, Washington, D.C., March 1991  
Reviewer, Undergraduate Programs in Health Administration, Washington, D.C., 1989  
Member, 1986 to 2003

**Association of Community Cancer Centers (ACCC)**

Chairperson, Special Task Force on Membership, 1984-1985  
Chairperson, Subcommittee for Administrative Standards, 1983-1984  
Vice Chairperson, Standards Committee, 1983-1984  
Member, Nominating Committee, 1982-1986  
Chairperson, Program Committee, 1978-1982  
Member, Board of Trustees, 1977-1980

State and Local

**Delta Omega Honor Society for Public Health (Beta Gamma Chapter)**

Past President, 2013 to 2014  
President, 2011 to 2012  
President Elect, 2010 to 2011

**Midsouth Division of the American Cancer Society**

Member, Triad Project, 1999 to 2003  
Member, Committee to Establish Measurable Goals, 1999 to 2000  
Member, Breast Cancer Task Force, 1993 to 1995

**University of Kentucky (UK)**

Chair, Periodic Review Committee, Department of Ophthalmology, College of Medicine, March 2021  
Chair, Appointment Promotion and Tenure Committee, College of Public Health, 2014 to 2015  
Member, Appointment Promotion and Tenure Committee, College of Public Health 2010 to 2017 and 2020 to present

Co-Leader, Cancer Prevention and Control Program, Markey Cancer Center, 2009 to 2017

Member, Markey Cancer Center Directors Council, 2009 to present

Member, Markey Cancer Center, Membership Committee, 2009 to present

Member, Markey Cancer Center, Program leaders and Shared Resource Facility Directors Committee, 2009 to present

Chair, Cancer Prevention and Control Program, Scientific Advisory Committee, Markey Cancer Center, 2004 to 2009

Member, Six Year Review Committee, Department of Family and Community Medicine, College of Medicine, 2012

Member, Six Year Review Committee, College of Public Health, 2009

Member, Executive Committee, Markey Cancer Center, 2004 to 2009

Member, Administrative Council, College of Public Health, 2000 to 2008

Member, Academic Affairs Committee, College of Public Health, 2001 to 2008

Member, Research Committee, College of Allied Health, 1999 to 2003

Member, Promotion and Tenure Committee, College of Allied Health Professions, 1995 to 1999

Member, Taskforce for the Establishing a Health Policy Research Institute, 1994

Member, Medical Center Institutional Review Board, 1992 to 1998

Member, University Senate, 1991 to 1992

Member, Equal Opportunity Committee, 1989 to 1990

Member, Student Affairs Committee, College of Allied Health Professions, 1989

Member, Six Year Review Committee, College of Allied Health Professions, 1989

Member, Six Year Review Committee, Survey Research Center, 1989

Member, Kentucky Health Survey Technical Advisory Committee, Survey Research Center, 1987 to 1992

Member, Academic Affairs Committee, College of Allied Health Professions, 1987 to 1989

Faculty Advisor, Student Chapter, American College of Health Care Executives, 1987 to 1988

Member, Task Force to review the Medical Center Computing Plan, 1987

Member, Search Committee for Director of the Survey Research Center, Center for Developmental Change, 1988

Member, Faculty Council, College of Allied Health Professions, 1985 to 1987 and 1991 to 1992

Member, Advisory Committee, Survey Research Center, 1985 to 1990

Member, Cancer Committee, University Medical Center, 1985 to 1990

Co-Chairperson, Support Services Committee, Development of a Master's Program in Health Administration, College of Allied Health Professions, 1985

Member, Executive Committee, Markey Cancer Center, 1984 to 2009

Member, Committee on Centers of Excellence, College of Allied Health Professionals, 1984 to 1985

**Kentucky Department for Public Health (KDPH)**

Vice Chair, Kentucky Colon Cancer Advisory Committee, 2021 to Present

Member, Kentucky Colon Cancer Advisory Committee, 2008 to Present

Chair, Kentucky Colon Cancer Advisory Committee, 2011 to 2012

Member, Kentucky Breast Cancer Advisory Committee, 1998 to 2020

Member, Steering Committee, Data-Based Cancer Control Intervention Study, 1990 to 1996

**Alliant Health Care Systems, Inc.**

Consultant, Development of Rural Hospital Transition Grants, 1989

**Clinical Oncology Program of Grand Rapids, Michigan**

Consultant, Reorganization of the Grand Rapids Clinical Oncology Program, March 1995

Consultant, Development of a Computerized Data System for Managing Patients on Clinical Research Protocols, November 1989

**Kentucky Hospital Association (KHA)**

Member, Health Services Database Committee, 1995 to 2000

Consultant, Development of a Grant to Study “Dual Licensed” Hospital Beds in Kentucky, 1987

Consultant, Evaluation of Data on Hospitalized Medically Indigent Patients, Presented to the State Legislature, 1987

**Kentucky Medical Association (KMA)**

Ex Officio Member, Cancer Committee, 1995 to 2018

**Community Hospital Oncology Program of Flint, Michigan**

Consultant, A Population Based Study of Cancer Incidence and Mortality in Genesee County, 1987 to 1989

**Michigan Department of Public Health (MDPH)**

Member, CSAT Target Cities Advisory Committee, 1994 to 1998

Member, Special Task Force for Implementation of a Cancer Incidence Registry, 1983 to 1984

**Michigan Division of the American Cancer Society (MDACS)**

Member, Field Services Committee, 1980 - 1982

Member, Board of Directors, 1979 to 1982

Chairperson, Public Education Committee, 1979 to 1982

Member, Public Education Committee, 1978 to 1983

Chairperson, Adult Education Sub-committee, 1978 to 1980

**Michigan State University (MSU)**

Member, Search Committee for Director of the Cancer Center, 1977

Member, Central Planning Task Force, Development of a Cancer Center, 1975 to 1977

Member, Advisory Council, Development of a Cancer Center, 1975 to 1977

## **TEACHING**

### Courses Taught

**CPH 786 Doctoral Seminar in Epidemiology:** Fall 2013

This course is taught as a colloquium. Students attend sessions that supplement the core curriculum with additional application. Prerequisites: Enrollment in the Ph.D. in Epidemiology and Biostatistics program.

**CPH 615 Cancer Epidemiology:** Fall 2007, 2009, 2011

This course applies and integrates the principles and tools of epidemiology to the study of cancer. Prerequisites: CPH 605 or consent of instructor.

**CPH 718 Social Epidemiology:** Spring 2010

Co-taught with Dr. Steve Browning. This course provides students with an introduction to major topics in the area of social epidemiology. Prerequisites: CPH 605 and 611.

**CPH 605 Epidemiology:** Fall 2004, 2008, Spring 2009

This is an initial graduate level course in the principles of epidemiology. The course consists of lectures and informal discussions. Prerequisites: Graduate student in good standing in the MPH program.

**CPH 911 Professional Seminar in Epidemiology:** Fall 2003, 2004, 2005, 2006, 2007

Professional Seminar in Epidemiology is an advanced course in one of the five content areas of public health designed as the link between academic work in epidemiology and application in Public Health practice. Prerequisites: DrPH student or completion of CPH 910.

**CPH 611 Advanced Epidemiology:** Spring 2000, 2001, 2002

This course provides specialized epidemiologic content and method designed to meet the research and practice needs of health professionals. Prerequisites: CPH 605 or consent of instructor.

**CH 250 Introduction to Epidemiology:** Fall 1984, 1985, 1986, Spring 1985, 1988-1999

This undergraduate course provides an introduction to the principals and methods of epidemiology. Students learn study designs and bivariate analytic techniques. Prerequisites: Enrollment in the HSM program.

**CH 260 Introduction to Health Services Management:** Fall 1985, 1986, Spring 1985

This undergraduate course provides an introduction to the principals of health services management. Prerequisites: Enrollment in the HSM program.

**CH 241 The Health Service Delivery System:** Spring 1986, Summer 1986

This course provides an introduction to the U.S. health service delivery system. The course provides a detailed understanding of the complexities inherent in the U.S. Health system. Prerequisites: CH 260.

**CH 351 Health Services Management:** Fall 1987-1998

This course provides an overview of all of the major aspects of health services management. Students are exposed to key management practices and principals. Prerequisites: CH 260.

**CH 450 Interorganizational Relations:** Spring 1987-1996

This course examines the challenges of developing and maintaining constructive working relationships with external organizations. The course reviews key strategies associated with developing and maintains constructive working relationships. Prerequisites: CH 260.



**STUDENT MENTORING COMMITTEES – THESIS, CAPSTONE AND DISSERTATION**

<b>Student Name</b>	<b>Role</b>	<b>Degree</b>	<b>Graduation</b>
Joshua Brown	Chair	MPH (EPI)	2022
Lexee Long	Chair	MPH (EPI)	2022
Brittney McKinley	Chair	MPH (EPI)	2021
Ripley Lucas	Chair	MPH (EPI)	2021
Lauren Shelton	Member	MPH (EPI)	2018
Gabriella Hodges	Member	MPH (EPI)	2017
Jennifer Maynor	Member	MPH (EPI)	2017
Vera Pravosud	Chair	MPH (EPI)	2016
Virginia Valentine	Member	DrPH (EPI)	2016
Kingsley Uzodinma	Member	MPH (EPI)	2016
Afton Wright	Member	MPH (EPI)	2016
Jaelyn Nee	Member/Mentor	DrPH (EPI)	2015
Jing Guo	Member	PhD (EPI/BIOSTATS)	2014
Terrence Lester	Member	MPH (EPI)	2014
Tamas Gal	Member/Mentor	PhD (INFORMATICS)	2014
Michael Sither	Member	MPH (EPI)	2014
Sondos Al Sad	Member	MPH (EPI)	2013
Harpriya Kaur	Chair	MPH (EPI)	2012
Eric Durbin	Member/Mentor	DrPH (EPI)	2012
Chad Glasser	Member	MPH (EPI)	2012
Samuel Antwi	Chair	MPH (EPI)	2010
Michele Burwinkel	Member	MPH (EPI)	2010
Leah Casanova	Member	MPH (EPI)	2010
Ashley Comiford	Member	MPH (EPI)	2010
Kara Michels	Member	MPH (EPI)	2010
Gwen Rinker	Chair/Mentor	MPH (EPI)	2010
Bin Huang	Member/Mentor	DrPH (EPI)	2009
Jeffery Tritle	Member	MPH (EPI)	2009
Dave Clark	Chair/Mentor	DrPH (EPI)	2007
Juan Yepes	Chair	MPH (EPI)	2007
Edmond Hooker	Member	DrPH (HSM)	2007
Richard Meir	Chair	MPH (EPI)	2006
Naga Periseti	Chair	MPH (EPI)	2006
Tanika Redmond	Chair	MPH (EPI)	2006
Mirela Urgureanu	Chair	MPH (EPI)	2006
Jie Zhang	Chair	MPH (EPI)	2005
Julie Tackett	Member	MPH (EPI)	2005
Judy Stivers	Member	MPH (EPI)	2005
Elizabeth Masterson	Member	MPH (EPI)	2005
Nancy Johnson	Member	DrPH (EPI)	2005
Arpana Sali	Member	MPH (EPI)	2005
Anna Cass	Chair/Mentor	MPH (EPI)	2004
Shulin Dong	Chair	MPH (EPI)	2004
Yelena Golden	Chair	MPH (EPI)	2004
April Moore	Member	MPH (EPI)	2004
Adwoa Boahene	Member	MPH (EPI)	2004
Mehjabeen Chowbhury	Member	MPH (EPI)	2004
Tony Lobianco	Member	MPH (EPI)	2004
Mef Galle	Chair	MPH (EPI)	2003
Jennifer Redmond	Member/Mentor	MPH (EPI)	2003
Shalini Parekh	Member	MPH (EPI)	2002
Davis Potter	Member	MPH (EPI)	2002
Keisha Schumacher	Member	MPH (EPI)	2002

## **FACULTY MENTORING COMMITTEES**

<b><u>Role</u></b>	<b><u>Faculty Member</u></b>	<b><u>Status</u></b>	<b><u>Date</u></b>
Chair	Krystle A. Lang Kuhs, PhD, MPH	Associate Professor	2020 to Present
Member	W. Jay Christian, PhD, MPH	Assistant Professor	2020 to Present
Member	Anna Kucharska-Newton, PhD, MPH	Associate Professor	2021 to Present
Member	Anna Goodman Hoover, PhD	Assistant Professor	2021 to Present
Member	Kimberly Tumlin, PhD	Assistant Professor	2021 to Present
Member	Mary E. Lacy Leigh, PhD	Assistant Professor	2021 to Present

## **RESEARCH AND SCHOLARLY PRODUCTIVITY**

### **Peer Reviewed Publication**

Mix J, Saraiya M, Thompson T, Querec T, Greek A, **Tucker T**, Peters E, Lynch C, Hernandez B, Copeland G, Goodman M, Unger E. Prevalence of human papillomavirus genotypes in high-grade cervical precancer and invasive cervical cancer from cancer registries before and after vaccine introduction in the United States. *Cancer*, 127(19): 3487-3700. October 1, 2021.

Yuan Y, Van Dyke A, Petkov V, Hussey S, Moravec R, Altekruze S, Sandoval M; Cress R, Mueller L, Mogi A, Hernandez B, Selk F, Lynch C, **Tucker T**, Lynch A, Lefante C, Wu X, Sweeney C, Doherty J, Penberthy L. Pathology laboratory policies and procedures for releasing diagnostic tissue for cancer research. *Arch Pathology & Laboratory Medicine*, Vol 145, February 2021.

**Tucker T**, Charlton M, Schroeder M, Jacob J, Tolle C, Evers M, Mullett T. Improving the quality of cancer care in community hospitals. *Annals of Surgical Oncology*, 28(2):632-638. February 2021.

Johnson M, **Tucker T**, Chen Q, Huang B, DeSimone C, Miller R, Baldwin L, Fredericks T, Burgess B, Ueland F. Uterine corpus malignancies in Appalachia Kentucky: Incidence, survival, and related health disparities. *South Med J*, 113:29-36, 2020.

Pravosud V, Vanderford N, Huang B, **Tucker T**, Arnold S. Exceptional survival among Kentucky stage IV non-small cell lung cancer patients: Appalachian versus non-Appalachian populations. *Journal of Rural Health*, doi.org/10.1111/jrh.12537, [Epub ahead of print] November 18, 2020.

**Tucker T**, Mullett, T. Author Reflections: How can we improve quality of cancer treatment in community hospitals?. *Annals of Surgical Oncology*, 27: 871–872. December 2020.

Larson K, Huang B, Chen Q, **Tucker T**, Schuh M, Arnold S, Kolesar J. EGFR testing and erlotinib use in non-small cell lung cancer patients in Kentucky. *Plos One*, 15(8): e02337790. H 15(8): e0237790. [E-Pub] <https://doi.org/10.1371>. August 18, 2020.

Yuan Y, Van Dyke A, Petkov V, Tuan A, Singhi A, Matrisian L, Rahib L, Pearson J, Nones K, Waddell N, Zhao Y, Shen T, Tran B, Shetty J, Gillanders E, Carrick D, Cress R, Mueller L, Hernandez B, Lynch C, **Tucker T**, Wu X, Penberthy L. Evaluation of next generation sequencing of DNA and RNA from archival formalin-fixed, paraffin-embedded pancreatic cancer tissue: A pilot study of the SEER-linked virtual tissue repository. *Cancer Res*, (80) (16 Supplement) 224; DOI: 10.1158/1538-7445.AM2020-224. August 15, 2020.

Bhutiani N, Hicks A, Huang B, Chen Q, **Tucker T**, McMasters K, Ajkay N. Identifying factors influencing delays in breast cancer treatment in Kentucky following the 2014 Medicaid expansion. *Journal of Surgical Oncology*, Vol.121, No.8, 1191-1200, June 15, 2020.

Wu S, Liu Y, Michalek J, Mesa R, Parma D, Rodriguez R, Mansour A, Svatek R, **Tucker T**, Ramirez AG. Carotenoid intake and circulating carotenoids are inversely associated with the risk of bladder cancer: A dose-response meta-analysis. *Adv Nutr*, doi: 10.1093/advances/nmz120. [Epub ahead of print] Dec 4, 2019.

McNabb S, Harrison T, Albanes D, Berndt S, Brenner H, Caan B, Campbell P, Cao Y, Chang-Claude J, Chan A, Chen Z, English D, Giles GG, Giovannucci E, Goodman P, Hayes R, Hoffmeister M, Jacobs E, Joshi A, Larsson S, Le Marchand L, Li L, Lin Y, Männistö S, Milne R, Nan H, Newton C, Ogino S, Parfrey P, ... **Tucker T**, et al. Meta-analysis of 16 studies of the association of alcohol with colorectal cancer. *Int. J. Cancer*, 146, 861–873, 2019.

**Tucker T**, Durbin E, McDowell J, Huang B. Unlocking the potential of population-based cancer registries. *Cancer*, Vol. 125, No. 2, pp 3729 – 3737, November 1, 2019.

Mix J, Unger E, Querec T, Thompson T, Greek A, **Tucker T**, Lynch C, Peters E, Saraiya M. HPV prevalence of cervical cancer in the United States 2014-2015. *Cancer Res*, (79) (13 Supplement) 4199; DOI: 10.1158/1538-7445.AM2019-4199. July 1, 2019.

Gallaway M, Huang B, Chen Q, **Tucker T**, McDowell J, Durbin E, Stewart S, Tai E. Smoking and smoking cessation among persons with tobacco and non-tobacco-associated cancers. *Journal of Community Health*, Vol. 44, 552-560, June 15, 2019.

Gan T, Sinner H, Walling S, Chen Q, Huang B, **Tucker T**, Patel J, Evers M, Bhakta A. Impact of the Affordable Care Act on colorectal cancer screening, incidence, and survival in Kentucky. *Journal of the American College of Surgeons*, Volume 228, Issue 4, Pages 342–353, April 2019.

Gallaway M, Huang B, Chen Q, **Tucker T**, McDowell J, Durbin E, Siegel D, Tai E. Identifying smoking status and smoking cessation using a data linkage between the Kentucky Cancer Registry and health claims data. *JCO Clin Cancer Informatics*, 3: CCI.19.00011. May 16, 2019.

Mix J, Saraiya M, Lynch C, Thompson T, Greek A, **Tucker T**, Peters E, Querec T, Unger E. Comparing human papillomavirus prevalence in rectal and anal cancer using US cancer registries. 2014-2015. *J Registry Manag*, 46(4):128-132. PMID: 32822337; PMCID: PMC7864103. 2019.

He C, Plattner R, Rangnekar V, Zhou B, Liu C, Stewart R, Huang B, Wang C, **Tucker T**. Potential protein markers for breast cancer recurrence: a retrospective cohort study. *Cancer Causes & Control*, Published online, <https://doi.org/10.1007/s10552-018-1099-8>, November 2018.

Chauhan A, Yu Q, Ray N, Farooqui Z, Huang B, Durbin E, **Tucker T**, Evers M, Arnold S, Anthony L. Global burden of neuroendocrine tumors and changing incidence in Kentucky. *Oncotarget*, 9(27):19245-19254. doi: 10.18632/oncotarget.24983. PMID: 29721198; PMCID: PMC5922392. April 10, 2018.

Hallowell B, Saraiya M, Thompson T, Unger E, Lynch C, **Tucker T**, et al. Population-based assessment of HPV genotype-specific cervical cancer survival: CDC Cancer Registry Sentinel Surveillance System. *JNCI Cancer Spectrum*, Vol. 2, No.3, pp 3729, 2018.

Allemani C, Matsuda T, Di Carlo V, Harewood R, Matz M, ... Coleman M, ... **Tucker T**, et al. Global surveillance of trends in cancer survival: analysis of individual records for 37,513,025 patients diagnosed with one of 18 cancers during 2000–2014 from 322 population-based registries in 71 countries (CONCORD-3). *Lancet*, 391(10125): 1023–1075. March 17, 2018.

Huang B, Pollock E, Zhu L, Athens J, Gangnon R, Feuer E, **Tucker T**. Ranking composite cancer burden indices for geographic regions: Point and interval estimates. *Cancer Causes and Control*, Vol. 29:2, pp 279-287, February 2018.

Rios J, Gosain R, Huang B, Oechsli M, McDowell J, Chen Q, **Tucker T**, Kloecker G. Treatment and outcomes of non-small-cell lung cancer patients with high comorbidity. *Cancer Management and Research*, 10: 1-9, 2018.

Ajkay N, Bhutiani N, Huang B, Chen Q, Howard J, **Tucker T**, Scoggins C, McMasters K, Polk H. Early impact of Medicaid expansion and quality of breast cancer care in Kentucky. *Journal of the American College of Surgeons*, February 12, 2018.

- Groves M, Watkins T, Roberts D, **Tucker T**, Shen T, Flood T. Birth Weight and Risk of Childhood Acute Lymphoblastic Leukemia in Arizona, Illinois, and Kentucky. *Southern Medical Journal*, 1(10):579-584. PMID: 30285262. October 11, 2018.
- Richards T, Henley S, Puckett M, Weir H, Huang B, **Tucker T**, Allemani C. Lung cancer survival in the United States by race and stage (2001-2009): Findings from the CONCORD-2 study. *Cancer*, 123 Suppl 24:5079-5099. PubMed PMID: 29205305. December 15, 2017.
- Pravosud V, Huang B, **Tucker T**, Vanderford N. Development of multiple primary cancers in lung cancer patients: Appalachian versus non-Appalachian populations of Kentucky. *Southern Medical Journal*, 110 (12): 775-781. PMID: 29197312. December 2017.
- Miller J, Smith J, Ryerson A, **Tucker T**, Allemani C. Disparities in breast cancer survival in the United States (2001-2009): Findings from the CONCORD-2 study. *Cancer*, 123 Suppl 24:5100-5118. doi: 10.1002/cncr.30988. PubMed PMID: 29205311. December 15, 2017.
- Yang Y, Shelton BJ, **Tucker T**, Li L, Kryscio R, Chen L. Estimation of exposure distribution adjusting for association between exposure level and detection limit. *Stat Med*, 36:2935-2946, 2017.
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#### Books, Book Chapters and Published Reports

- Cleveland D. and **Tucker T**. Hospital Registry Operations. Chapter 5. IN *Cancer Registry Management Principles and Practice*, Corrigan L, Gress D, Hill S, and Mulvihill L (Editors). 4th Edition, National Cancer Registrars Association. 2021.
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#### Abstracts, Invited Presentations and Invited Course Lectures

Tucker T.C. “Overcoming Reluctance to Share Tissue Blocks and Practical VTR Operational Tips” Invited Presentation, National Cancer Institute (NCI) SEER Research Call, July 27, 2021.

Tucker T.C. “Using the Commission on Cancer (CoC) Quality Measures to Leverage Change in Community hospitals” Invited Presentation, ACoS Quality and Safety Conference, July 16, 2021.

Tucker T.C. “Innovative Research Using the Population-Based Registry as a Virtual Tissue Repository (VTR)” Invited Plenary Presentation, North American Association of Central Cancer Registries (NAACCR), Summer Forum, Virtual Conference, June 15, 2021.

Tucker T.C. “Estimated Treatment Costs Saved as a Result of Reduced Colorectal Cancer Incidence in Kentucky” Invited presentation, Kentucky Colon Cancer Advisory Board, February 18, 2021.

Tucker T.C. “Using the Kentucky Cancer Registry as a Virtual Tissue Repository: A Unique Population-based Surveillance System” Invited lecture, CPH 310: Introduction to Epidemiology, University of Kentucky, February 24, 2021.

Tucker T.C. “Colorectal Cancer in Kentucky, Talking Facts Podcast, <https://ukfcsext.podbean.com/e/colorectal-cancers-in-kentucky>, March 11, 2021

Tucker T.C. “The Cancer Burden in Kentucky, Talking Facts Podcast, <https://ukfcsext.podbean.com/e/cancer-burden-in-kentucky>, February 11, 2021.

Tucker T.C. “Cancer Epidemiology (Continued)” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 29, 2021.

Tucker T.C. “Cancer Epidemiology” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 27, 2021.

Tucker T.C. “Using the Central Cancer Registry as a Population-based Virtual Tissue Repository”, Invited presentation, National Cancer Institute SEER QIE Virtual Conference, December 7, 2020.

Tucker T.C. “World Leadership Dialog on Cancer: The U.S. Perspective”, Invited presentation, European Union Public Health Association, Virtual International Meeting, October 13, 2020.

Tucker T.C. “Prostate Cancer in Kentucky: Disparities by Race and Place” Invited presentation, Prostate Cancer Alliance, University of Kentucky, Virtual Meeting, September 21, 2020.

Tucker T.C. “Quantitative Measures Associated with Community Hospitals Participating in the Markey Cancer Center Affiliate Network”, Invited presentation, Markey Cancer Center Affiliate Network Virtual Annual Meeting, September 25, 2020.

Tucker T.C. “Understanding the Burden of Colorectal Cancer in Kentucky and Disparities by Race and Place” Invited presentation, Kentucky Colon Cancer Advisory Board, August 20, 2020.

Tucker T.C. “Understanding Disparities in Kentucky’s Cancer Burden by Race, Gender and Place”, Invited presentation, Owensboro Health, Virtual Grand Rounds, July 30, 2020.

Tucker T.C. Cancer Fight Podcast, <https://anchor.fm/cancerfight/episodes/Cancer-Fight-7-Tom-Tucker-eh0vvt>, July 21, 2020.

Tucker T.C. “Changes Over Time and Disparities in Kentucky’s Lung, Breast and Colorectal Cancer Burden”, Invited presentation, Kentucky Cancer Consortium, Webinar, May 28, 2020.

Tucker T.C. “Cancer Epidemiology (Continued)” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 22, 2020.

Tucker T.C. “Cancer Epidemiology” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 17, 2020.

Tucker T.C. “Interview with Thomas C. Tucker”, Louie B. Nunn Center for Oral History, University of Kentucky Libraries, <https://kentuckyoralhistory.org/ark:/16417/xt712hllvgkts>, November 25, 2019

Tucker T.C. “The Markey Cancer Center Data Driven, Integrated and Systematic Approach to Community Engagement”, Invited presentation, NCI meeting, Minneapolis MN, October 10, 2019.

Tucker T.C. “Using the Population-based Cancer Registry as a Virtual Tissue Repository (VTR)”, Invited presentation, North American Association of Central Cancer Registries Annual Meeting, Vancouver British Columbia, Canada, June 11, 2019.

Tucker T.C. “The Importance of Population-Based Data for Cancer Research and Control”, Invited presentation, Markey Cancer Center Research Day, Lexington, KY, May 7, 2019.

Tucker T.C. “Cancer Epidemiology (Continued)” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 23, 2019.

Tucker T.C. “Cancer Epidemiology” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 21, 2019.

Tucker T.C. “Using the Population-based Cancer Registry as a Virtual Tissue Repository (VTR)”, Invited presentation, Kentucky Cancer Registry Fall Workshop, Louisville, KY, August 17, 2018.

Tucker T.C. “The Burden of Cancer in Kentucky”, Invited presentation, Kentucky Cancer Summit, American Cancer Society (ACS), Louisville, KY, August 23, 2018.

Tucker T.C. “Reducing the Kentucky Burden of Colorectal Cancer”, Invited presentation, College of Public Health, Board of Advisors, University of Kentucky, Lexington, KY, April 20, 2018.

Tucker T.C. “Cancer Epidemiology (Continued)” Invited lecture for Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 22, 2018.

Tucker T.C. “Cancer Epidemiology” Invited lecture, Toxicology 616: Biology and Therapy of Cancer, University of Kentucky, January 20, 2018.

Tucker T.C. “Linking Registry Records with Health Insurance Claims: The Kentucky Cancer Registry (KCR) Experience”, Invited presentation and meeting co-sponsor, National Cancer Institute (NCI), Health Insurance Claims Workshop, Washington, D.C. September 27, 2017.

Tucker T.C. “Using the Kentucky Cancer Registry as a Population-Based Virtual Tissue Repository to Advance the Science of Cancer Research”, Invited presentation, Kentucky Society of Pathologists, 45<sup>th</sup> Annual Spring Conference, April 22, 2017.

Tucker T.C. “Understanding the Cancer Burden in Kentucky and Appalachia”, Invited presentation, Precision Medicine Conference, Markey Cancer Center, March 22, 2017.

Tucker T.C. “Defining the Cancer Burden in the Cancer Center Catchment Area”, Invited presentation, NCI meeting, Ohio State University, Columbus, OH. February 23 -24. 2017.

Tucker T.C. “Understanding the Cancer Burden in Kentucky: Environmental, Lifestyle and Genetic Risk Factors”, Invited presentation, Oncology Conference, Mitchell Cancer Center, Owensboro, KY. November 2016.

Tucker T.C. “The Burden of Lung Cancer in the North East Kentucky AHEC Region”, Invited presentation, Lung Cancer Symposium, Moorhead, KY. September 16, 2016.

Tucker T.C. “The impact of proposed changes to the Common Rule on using archival tissue in population-based cancer research studies”, Invited presentation, National Cancer Institute, Surveillance Epidemiology and End Results Conference, Albuquerque, NM. March 17, 2016.

Tucker T.C. “Pre-invasive Cervical Cancer HPV Genotyping Study in Kentucky: Preliminary Results”, Oral Scientific Session Presentation, North American Association of Central Cancer Registries Annual Meeting, Charlotte, NC. June 17, 2015.

Tucker T.C. “Maximizing the Potential of Population-Based Cancer Registries to Inform Cancer Research”, Invited Plenary Presentation, North American Association of Central Cancer Registries Annual Meeting, Charlotte, NC. June 16, 2015.

Tucker T.C. “The Burden of Lung Cancer in the Northeast Kentucky AHEC Region”, Invited Presentation, Northeast Kentucky AHEC, Lung Cancer Roundtable, Morehead, KY. April 30, 2015.

Tucker T.C. “Pre-invasive Cervical Cancer in Kentucky: Data Collection and Genotyping”, Invited Presentation, NCI SEER PI’s Annual Conference, Lexington, KY. April 9, 2015.

Tucker T.C. “Using Central Cancer Registries to Improve Cancer Center Research”, Invited Presentation, National Cancer Institute (NCI) SEER PI’s Meeting, Lexington, KY. April 8, 2015.

Tucker T.C. “Moving Cancer Research from the Lab to the Population: The Final Step in Translational Research”, Invited Presentation, Mitchell Cancer Center, Oncology Outlook Conference, Mobile, AL. March 21, 2015.

Tucker T.C. “Partnering with CDC Initiatives to Strengthen Your Cancer Center Cancer Prevention and Control Program”, Invited presentation, American Society of Preventive Oncology (ASPO), Birmingham, AL. March 14, 2015.

Tucker T.C. “Using a population-based cancer surveillance system to improve cancer center research”, Invited Grand Rounds Presentation, Emory University, Atlanta, Georgia. January 2015.

Tucker T.C. “Socioeconomic Factors and the Burden of Cancer in Appalachia”, Invited Grand Rounds Presentation, Eastern Tennessee State University (ESTU), Johnson City, TN. October 2014.

Tucker T.C. “Cancer Survival in Appalachia”, Invited Presentation, Centers for Disease Control and Prevention (CDC), Atlanta, Georgia. September 2014.

Tucker T.C. “Pre-Invasive Cervical Cancer in Kentucky: A Data Collection and Genotyping Study”, Invited Presentation, CDC, Atlanta, Georgia. September 2014.

Tucker T.C. “Socioeconomic Status and the Burden of Cancer”, Invited Plenary Presentation, Combined International Association of Cancer Registries and North American Association of Central Cancer Registries Meeting, Ottawa Canada. June 2014.

Tucker T.C. “Defining the Burden of Cancer”, Invited Plenary Presentation, National Association of Cancer Registries Annual Meeting, Nashville, TN May 2014.

Tucker T.C. “Moving Cancer Research from the Lab to the Population: A step in Translational Research”, Invited Presentation, NCI Cancer Center Forum, San Diego, CA April 2014.

Tucker T.C. “The Impact of Socioeconomic Factors on Cancer Incidence and Mortality”, Invited Presentation, National Cancer Institute SEER PI’s Conference, Washington, D.C. March 2013.

Tucker T.C. “Using a population-based cancer surveillance system to improve cancer center research”, Invited Plenary Presentation, Asian Pacific Organization for Cancer Prevention Annual Meeting, Taipei, Taiwan March 2014.

Tucker T.C. “Using a population-based cancer surveillance system to improve cancer center research”, Invited Grand Rounds Presentation, Ohio State University, Columbus, Ohio May 2013.

Tucker T.C. “Using a population-based cancer surveillance system to improve Cancer Center Research”, Invited Grand Rounds Presentation, Dartmouth College, Norris Cotton Cancer Center, Hanover, New Hampshire February 2013.

Tucker T.C. “Communicating Complex Cancer Concepts to Lay Audiences”, Invited Plenary Presentation, NAACCR Annual Meeting, Austin, Texas, June 2013.

Tucker T.C. “Defining the Burden of Cancer: a NAACCR project in collaboration with C- Change”, Invited Plenary Presentation, North American Association of Central Cancer Registries Annual Meeting, Portland, OR. August 2012.

Tucker T.C. “Using Population-based Data to Identify Cancer Disparities”, Invited Presentation, Meharry Medical College, Social Equality Research Training Institute, Nashville, TN. March 2012.

Tucker T.C. “Defining the Cancer Burden for Cancer Control”, Invited Presentation, American Cancer Society and Centers for Disease Control and Prevention Comprehensive Cancer Control Workshop, Atlanta, GA. September 2012.

Tucker T.C. “The Epidemiology of Colorectal Cancer”, Invited presentation, National Dialogue for Action on Colon Cancer Screening, Baltimore, MA. March 2011.

Tucker T.C. “Screening for colorectal cancer in Kentucky: A public health success story”, Kentucky Colon Cancer Advisory Committee, Pikeville, KY. October 2010.

Tucker T.C. “Using Cancer Registry Data for Cancer Research and Control”, Invited presentation, National Cancer Registrars Association, Palm Springs, CA. June 20, 2010.

Tucker T.C. “The etiology and control of colorectal cancer”, Invited presentation, National Dialogue for Action on Colon Cancer Screening, Baltimore, MA. March 2010.

Tucker T.C. “Converting data into information for cancer control”, North American Association of Central Cancer Registries Annual Meeting, Quebec City, Canada, June 2010.

Tucker T.C. “Defining the burden of cancer: Converting data into information”, North American Association of Central Cancer Registries Annual Meeting, San Diego, CA, June 2009.

Tucker T.C. and Das, B. “Using survival to correct for differences in case fatality”, North American Association of Central Cancer Registries Annual Meeting, San Diego, CA. June 2009.

Tucker T.C. “Measuring the quality of central cancer registry data”, 31<sup>st</sup> Annual Meeting of the International Association of Cancer Registries, New Orleans, LA. May 2009.

Tucker T.C. “Describing the Burden of Cancer in Populations”, Invited presentation, North American Association of Central Cancer Registries, Cancer Surveillance Institute, Vancouver, British Columbia, January 2008.

Tucker T.C. “Communicating the Cancer Burden to Different Audiences”, North American Association of Central Cancer Registries, Cancer Surveillance Institute, Vancouver, British Columbia, January 2008.

Tucker T.C. “The Burden of Colon Cancer in Kentucky”, Invited presentation, Dialogue for Action Conference, Lexington, Kentucky, June 2008.

Tucker T.C. “Using Cancer Registry Data for Cancer Research and Control,” Invited presented at the NAACCR Annual Meeting, Denver, Colorado, June 2008.

Tucker T.C. “The Burden of Colon Cancer in Kentucky”, Kentucky General Assembly, Joint Health and Welfare Committee, Frankfort, Kentucky, March 2008.

Tucker T.C. “Cancer Surveillance, Yesterday, Today and Tomorrow” Invited presentation, CDC International Cancer Conference, Atlanta, Georgia, August 2007.

Tucker T.C. "Using Cancer Registry Data for Cancer Research and Control," presented at the NAACCR Annual Meeting, Detroit, Michigan, June 2007.

Tucker T.C. "Using Data for Cancer Prevention and Control", Invited presentation, Comprehensive Cancer Control Summit, Lake Cumberland, Kentucky, May 2007.

Tucker T.C. "The Burden of Cancer in Kentucky (2000 to 2004)", University of Louisville, Invited Speaker, Louisville, Kentucky, October 2007.

Tucker T.C. "The Burden of Cancer in Kentucky", Invited presentation, Madisonville Regional Medical Center/Western Kentucky AHEC, Madisonville, KY. Sept. 2006.

Tucker T.C. "Using Cancer Registry Data for Cancer Control", presented at the NAACCR Annual Meeting, Boston, Massachusetts, June 2005.

Tucker T.C. "Measuring the Quality of Central Cancer Registry Data", presented at the NAACCR Annual Meeting, Salt Lake City, Utah, June 2004.

Tucker T.C. "The Uses and Limitations of Population-Based Cancer Registry Data", Invited presented, Intercultural Cancer Council and Baylor College of Medicine 9<sup>th</sup> Biennial Symposium, Washington, D.C. March 2004.

Tucker T.C. "Communicating Cancer Risk", Invited presented at the CDC 2003 Cancer Conference, Atlanta, Georgia, September 2003.

Tucker T.C. "Interpreting Variations in the Burden of Cancer", Invited presented at the NCI and CDC Joint Cancer Surveillance Institute, San Jose, California, January 2003.

Tucker T.C. "Using Cancer Registry Data for Cancer Control", presented at the NAACCR annual meeting; Honolulu, Hawaii, June 2003.

Tucker T.C. "Using Population-based Cancer Surveillance Data in Research", presented at the NAACCR Annual Meeting in Miami, Florida, June 2001.

Tucker T.C. "Completeness of Case Ascertainment", presented at the NAACCR Annual Meeting in New Orleans, April 2000.

Tucker T.C. "The Relationship Between Data Quality and Use", Invited plenary presented at the NAACCR Annual Meeting in Chicago, Illinois, April 1999.

Tucker T.C. "Measuring Case Ascertainment in Population-based Cancer Registries", presented at the NAACCR Annual Meeting in Vancouver, British Columbia, Canada, April 1998.

Tucker T.C. "The Use of Registry Data for Improving the Early Detection of Breast Cancer", presented at the CDC International Cancer Conference, Atlanta, Georgia, September 1997.

Tucker T.C. "A Rank Sum Technique for Identifying Counties with the Greatest Need for Breast Cancer Screening", CDC International Cancer Conference, Atlanta, Georgia, September 1997.

Tucker T.C. "Epidemiology of Prostate Cancer in Kentucky", Invited presented at the ACS Prostate Cancer Symposium, Louisville, Kentucky, June 1997.

Tucker T.C. "Case Completeness: How Complete is Complete Enough?", Invited presented at the Annual Meeting of the National Cancer Registrars Association, Las Vegas, Nevada, May 1997.

Tucker T.C. "Developing a Constituency for Central Cancer Registries", Invited presented, North American Association of Central Cancer Registries, Boston, Massachusetts, April 1997.

Tucker T.C. “The Use of Cancer Registry Data in Research”, Invited presented at the Annual Meeting of the National Cancer Registrars Association, Miami, Florida, June 1995.

Tucker T.C. “Cancer Care Expenditures in the U.S.: Past, Present and Future”, Invited presented at the 1995 Quality of Life Symposium, Long Beach, California, March 1995.

Tucker T.C. “Using Cancer Registry Data to Target Geographic Areas for Breast Cancer Screening”, Abstract, Annual Meeting of the NAACCR, Niagara on the Lake, Ontario, Canada, 1994.

Tucker T, Kilbourn P, and Muller W. “Cancer Incidence and Mortality in Genesee County Michigan”, Abstract, 1990 Annual Meeting of the Association of Community Cancer Centers, Washington, D.C. March 1990.

Thompson J.R, Phillips B.A, Cabelka J, and Tucker T. “1989 Kentucky Hospital Smoking Survey”, Abstract, 1990 Annual Scientific Meeting, Kentucky Thoracic Society, Louisville, KY, March 1990.

Seavey J, Berry D.E, and Tucker T.C. “Public Policy and Rural Hospitals”, Abstract, Annual Meeting, American Public Health Association, Chicago, Illinois, November 1989.

Noland M.P, Kryscio R.J, Riggs R.S, Linville L.H, Perritt L.J, and Tucker T.C. “Use of Snuff, Chewing Tobacco and Cigarettes among Adolescents in a Tobacco-Producing Area”, Abstract, American School Health Association Annual Meeting, September 1989.

Thompson J.R, and Tucker T.C. “Lung Cancer Mortality in Rural Appalachian Kentucky”, Abstract, 1989 Annual Scientific Meeting, Kentucky Thoracic Society, Lexington, Kentucky, March 1989.

Noland M, Kryscio R, Riggs R, Linville L, Perritt L, and Tucker T. “Saliva Cotinine and Thiocyanate: Chemical Indicators of Smokeless Tobacco and Cigarette Use in Adolescents”, Abstract, National Convention, American School Health Association, September 1988.

Stallones L, Nuckols J, and Tucker T. “Cancer Clusters in Rural Appalachia”, Abstract, National Conference on Clustering of Health Events, Atlanta, Georgia, September 1988.

Stelling C, Powell D, Mattingly S, and Tucker T. “Atypical Hyperplasia of the Breast: Radiographic Pathologic Correlation”, Abstract, American Roentgen Ray Society Annual Meeting, San Francisco, California, May 1988.

Tucker T, and Berry D. “Factors Effecting Distress or Prosperity in Small Rural Hospitals”, Abstract, American Public Health Association, Washington, D.C., November 1985.

Raviteh M, Youel D, Moorhead E, Tucker T, et.al. “Questionnaires and Current Practice: A multi-Method Approach to CME Needs Assessment in Oncology”, Abstract, American Association for Cancer Education, 1980.

Extramural Funding

(Current)

PON2 728 2000002521 (State)	Tucker (PI)	09/01/2021-12/31/2022
Kentucky Department for Public Health		\$54,939
The goal of this colon cancer MSI/MMR testing study is to determine whether Kentucky African Americans and Appalachian residents diagnosed with colorectal cancer are tested less often for microsatellite instability and mismatch repair.		
HHSN261201800013I (NCI)	Tucker (PI)	08/17/2020-12/30/2021
Pediatric Whole Slide Imaging Project		\$236,070
The goal of this study is to test the feasibility of establishing a logistical and technical pipeline for obtaining Whole Slide Images (WSIs) of H&E slides generated as part of the diagnoses and treatment for 2016 pediatric cancer cases ascertained by the Kentucky Cancer Registry.		

HHSN2612013000131 (NCI)	Tucker (PI)	09/11/2015-05/27/2022
Population-based Virtual Tissue Repository (VTR)		\$363,086
Development of a population-based virtual cancer tissue repository and using the VTR to study genomic differences between female breast cancer patients who had long- and short-term survival times. This research project will also study genomic differences between pancreatic cancer patients who had long- and short- term survival times.		
U58DP000810 (CDC)	Tucker (PI)	06/30/2017-06/29/2022
National Program of Cancer Registries (NPCR) Component 2		\$95,856
The purpose of this cooperative agreement is to develop and maintain a population-based surveillance system for collecting precursors to cervical cancer. Precursors to cervical cancer are defined as any woman diagnosed with HGSIL. These data are used to estimate the effectiveness of vaccinations against HPV genotypes 16 and 18 in reducing the burden of cervical cancer.		
RO1CA221854 (NCI)	Tucker (Site PI)	02/01/2021-12/31/2021
Rutgers University		\$9,814
The goal of the study is to construct and test a Facebook Intervention for Young Onset Melanoma Patients and Families. The Kentucky Cancer Registry (KCR) will collaborate with researchers at Rutgers and recruit melanoma patients to participate in this important intervention study.		
NNI Project MTC – 22341/RSA	Tucker (PI)	04/04/2013-03/30/2023
United Biosource Corporation on behalf of Novo Nordisk, Inc./MTC consortium		\$471,707
The goal of this study is to conduct a medullary thyroid carcinoma surveillance study. As part of this study the Kentucky Cancer Registry will identify all cases of medullary thyroid cancer occurring in Kentucky and recruit them to participate in a phase 4 (post marketing) study.		
PON2 415 1600001032 (State)	Rangnekar (PI)	01/01/2018-06/30/2022
KY Lung Cancer Research Fund		\$150,000
The goal of this study is to identify genetic differences between long- and short-term lung cancer survivors. The Kentucky Cancer Registry was used as a Virtual Tissue Repository(VTR) to identify the lung cases and to obtain the tissue needed for this study.		
Role: Co-Investigator		
HHSN2612018000131 (NCI)	Durbin (PI)	05/01/2018-04/31/2028
Surveillance, Epidemiology and End Results Program (SEER)		\$37,200,000
Goal: Collecting detailed treatment data and following all cancer patients diagnosed in Kentucky in order to conduct outcomes research and survival analysis.		
Role: Co-Investigator		
R37CA233777 (NCI)	Huang (PI)	02/01/2019-04/30/2022
The Role of Multilevel Healthcare Access Dimensions in Ovarian Cancer Disparities		\$58,680
Goal: To evaluate racial disparities in association with healthcare access and patient-reported quality of life outcomes.		
Role: Co-Investigator		
U58DP000810 (CDC)	Durbin (PI)	06/30/2017-06/29/2022
National Program of Cancer Registries (NPCR)		\$3,678,941
Collecting detailed data on all cancer patients diagnosed and/or treated in any Kentucky health care facility and conducting quality assurance audits to ensure completeness, accuracy and timeliness. The funding also supports efforts to use these data for cancer prevention and control.		
Role: Co-Investigator		



(Completed)

NU58DP006313 (CDC)	Tucker/Knight (Co-PIs)	06/30/2017-06/29/2021
National Comprehensive Cancer Control Program (NCCCP)		\$2,447,715
The purpose of this cooperative agreement is to Develop and maintain a comprehensive state cancer prevention and control plan, to implement the plan and to promote cancer control related health policies.		
PON2 728 1900003176 (State)	Durbin (PI)	01/15/2019-06/30/2021
KY Cabinet for Health and Family Services		\$520,000
The goals of the Pediatric Brain and Central Nervous System Tumor study is to identify potential environmental exposures and Kentucky specific mutations associated with Kentucky's high incidence of pediatric CNS cancers.		
Role: Co-Investigator		
P30 CA177558	Evers (PI)	07/01/2018-06/30/2020
Cancer Center Support Grant (NCI)		\$2,228,322
Goals: To support the ongoing research infrastructure, research programs, shared resources, developmental funds, and administration of the Markey Cancer Center to ensure the development of more effective approaches to cancer prevention, diagnosis, and therapy.		
Role: Co-Investigator (Associate Director for Cancer Prevention and Control)		
CCSG Pilot Grant (NCI/MCC)	Plattner (PI)	01/01/2018-09/30/2019
A Retrospective Cohort Study		\$50,000
The goal of this study is to determine the activity levels of the signaling molecule c-Abl/Arg among recurrent melanoma patients who were treated with recommended chemotherapy at the time of recurrence. The Kentucky Cancer Registry was used as a VTR for this study.		
Role: Co-Investigator		
N01-PC-2010-00031 (NCI)	Tucker (PI)	08/01/2010-04/31/2018
Surveillance, Epidemiology and End Results Program (SEER)		\$10,418,842
Collecting detailed treatment data and following all cancer patients diagnosed in Kentucky in order to conduct outcomes research.		
No. 553022 (Battelle/CDC)	Tucker (PI)	11/03/2016-03/31/2018
Population-based HPV genotyping study of cervical, anal and oral cancers		\$89,114
This study is designed to measure population-based changes in the occurrence of HPV expression among cervical, anal, and oral cancer patients in Kentucky since the availability of vaccines against HPV 16 and 18 were introduced.		
U58DP000810 (CDC)	Tucker (PI)	06/30/2011-06/29/2017
National Program of Cancer Registries (NPCR)		\$4,015,000
Collecting data on all cancer patients diagnosed and/or treated in any Kentucky health care facility and conducting quality assurance audits to ensure that data is both complete and accurate.		
U48DP005014-01(CDC)	Huang (PI)	9/30/2014-09/29/2017
Linking Datasets to the Kentucky Cancer Registry (CDC SIP)		\$245,000
The major goal of this study is to link Medicaid claims, private insurance claims and the state employees' health insurance claims with the Kentucky Cancer Registry to obtain complete treatment information including genomic testing on all cancer patients in the Registry.		
Role: Co-Investigator		
CCSG Pilot Grant (NCI/MCC)	Tucker (PI)	01/01/2014-09/30/2015
A Retrospective Cohort Study		\$50,000
Evaluating Potential Markers for Breast Cancer Recurrence. The goal of this study is to determine whether any one or combination of five proteins (Par-4, SNAIL, TWIST, WNT, and c-Abl/Arg) are associated with breast cancer recurrence using the Kentucky Cancer Registry.		

CDC Cooperative Agreement	Tucker (PI)	01/01/2014-06/30/2015
HPV Genotypes among Women Diagnosed with CIN3 or AIS		\$126,000
A Population-based study of HPV Genotypes among Women Diagnosed with Pre-invasive Cervical Cancer (CIN3 or AIS). The goal of this study is to determine differences in HPV genotypes among women with CIN3 compared to AIS, African American women compared to white women and women from Appalachian Kentucky compared to women from the non-Appalachian area of the state.		
R01MD004598-02 (NCMHHD)	Coker (PI)	09/25/2009-04/30/2013
Partner Violence and cancer		\$1,393,580
The major goals of this study are to determine the association between partner violence (controlling/interfering behaviors) and stage at diagnosis, treatment received and survival.		
Role: Co-Investigator		
5U48DP001932-04 (CDCSIP)	Huang (PI)	09/01/2011-08/31/2014
Appalachian Cancer Survival Study		\$265,898
The goal of this study is to conduct an analysis of relative survival comparing cancer patients in Appalachia to non-Appalachian Kentucky and assessing variation in relative survival.		
Role: Co-Investigator		
226848 (Battelle)	Tucker (PI)	01/01/2009-12/31/2010
CDC Pre-Invasive Cervical Cancer Pilot Study		\$91,873
Collect detailed information on all pre-invasive cervical cancer cases in order to determine the rate of pre-invasive cervical cancer in Kentucky.		
217972 (Battelle)	Hopenhayn (PI)	06/01/2008-12/31/2010
CDC HPV Study		\$107,654
Tissue was collected from a random sample of cervical, anal, and oral cancer patients. PCR's were performed to determine the proportion of cases in Kentucky with specific HPV subtypes.		
Role: Co-Investigator		
KLRC (Lung Cancer Fund)	Tucker (PI)	08/01/2009-12/13/2010
ASPIRE Study		\$71,535
Goal: To test of a web-based smoking cessation program in four rural Appalachian middle Schools.		
No. HHSN261200544003C (NCI)	Tucker (PI)	08/01/2005-07/31/2009
Surveillance, Epidemiology and End Results Program (SEER)		\$6,896,214
Collecting detailed treatment data and following all cancer patients diagnosed in Kentucky in order to conduct outcomes research and survival analysis.		
No.2-PC-15104 (NCI)	Tucker (PI)	02/15/2001-07/31/2005
Surveillance, Epidemiology and End Results Program (SEER)		\$2,801,074
Collecting detailed treatment data and following all cancer patients diagnosed in Kentucky in order to conduct outcomes research and survival analysis for patients with specific types of cancer.		
No. U75/CCU410692-07 (CDC)	Tucker (PI)	09/30/1994-02/15/2001
National Program of Cancer Registries (NPCR)		\$2,715,000
Collecting detailed data on all cancer patients diagnosed and/or treated in any Kentucky health care facility and conducting quality assurance audits to ensure that data is both complete and accurate.		
Contract (ACS)	Tucker (PI)	01/01/1999-12/31/2000
American Cancer Society		\$26,000
Patterns of Care Feasibility Study for Colon Cancer.		
No. Ca-91-11 (NCI)	Friedell (PI)	10/01/1992-09/30/1999
Central Appalachian Leadership Initiative on Cancer		\$1,255,918
Development of leadership capacity for cancer prevention and control in Appalachia.		
Role: Co-Investigator		

No. 89-CA-14 (NCI)	Friedell (PI)	10/01/1990-09/30/1997
Databased Interventions for Cancer Control in Kentucky		\$1,200,000
Develop the methods tools and infrastructure to measure the cancer burden in Kentucky.		
Role: Co-Investigator		
KY Hospital Association Grant	Berry (PI)	01/01/1989-12/31/1990
Medicare and Medicaid hospital discharges in Kentucky		\$9,000
A study of the patterns of care for hospitalized Medicare and Medicaid patients in Kentucky from 1982 through 1986.		
Role: Co-Investigator		
Pew Charitable Trust	Berry (PI)	08/01/1988-07/31/1990
Small Rural Hospitals in the U.S.		\$28,350
A study of small rural hospitals in the U.S. An American Hospital Association and National Rural Health Association Study.		
Role: Co-Investigator		
No. 263-MD-613595 (NIH)	Selwitz (PI)	09/28/1985
Office for the Protection from Research Risks		\$8,114
A workshop promoting patient welfare in clinical trials hosted by the University of Kentucky.		
Role: Co-Investigator and Workshop Moderator		

### **Personal Statement (Research)**

My research training and professional experience are in the areas of cancer surveillance and cancer control. The focus of my research has been on disparities in the burden of lung, colorectal, breast and cervical cancer with an emphasis on rural and Appalachian populations. As Director of the Kentucky Cancer Registry (KCR) and Associate Director of the Markey Cancer Center, Cancer Prevention and Control Program for nearly 20 years, a significant proportion of my research efforts have been devoted to helping investigators understand and use data from the Registry to address their research questions. However, more recently I have also focused on two new avenues of research.

The first new area of research views the population-based cancer surveillance program (the Central Cancer Registry) as not just a source of high-quality data, but also as a virtual population-based tissue repository. The ability to perform genome sequencing on formalin-fixed paraffin-embedded (FFPE) tissue has existed for nearly two decades. However, the technology to conduct genome sequencing using FFPE tissue has improved dramatically. The ability to use immunohistochemical staining techniques to identify both the presence and activity levels of many proteins (signaling molecules) in FFPE tissue has also substantially improved. These advances make it possible to think about the population-based cancer registry not just as a research resource for high quality data, but also as a virtual population-based tissue repository (VTR). The population-based registry knows the location of the pathology labs where the FFPE tissue from all cancer patient surgeries and biopsies occurring in the geographic area covered by the Registry are stored. Thus, the registry can draw a random (scientific) sample of cases for which tissue could be obtained and serve as the “honest broker” to obtain the tissue specimens. Obtaining a scientific sample of patient tissues allows the central registry to serve as a “population-based” VTR and elevates the science by facilitating studies with strong external validity.

The second new area of research involves using population-based cancer registry data for outcomes research. Population-based central cancer registries are an excellent source of data for outcome studies that have strong external validity. Linking Registry records with Medicare claims has shown that the linkage process can add chemotherapy information to as many as 30% of the cancer cases and radiationtherapy information to as many as 20% of the cases age 65 or older. Linking registry data with Medicare health claims provides nearly complete treatment information for people age 65 or older. Thus, most of the cancer related outcomes studies in the U.S. have used data from the National Cancer Institute’s (NCI) Surveillance Epidemiology and End Results (SEER) Cancer Registries that have been linked to Medicare claims. However, all these studies are limited to cancer patients age 65 or older. There is concern that the population under age 65 has a similar

proportion of missing treatment information. To test this hypothesis, the records from a population-based cancer registry would need to be linked with all the health insurance claims, both public and private, covering the entire population served by the registry. In 2014 the Kentucky Cancer Registry (KCR) was awarded a CDC Special Interest Project (SIP) cooperative agreement to test this hypothesis. As a result of this project, KCR records were successfully linked with the health insurance claims from Medicare, Medicaid, the State Employees Insurance System, Humana and Anthem Blue Cross. More than 90% of patients in the KCR with health insurance linked with these health claims. Algorithms were created to extract the relevant treatment information including genomic testing and these additional data have been used to augment the KCR records. Linking central cancer registry records with health insurance claims creates a unique outcomes research dataset.

My goals are to increase the use of the Registry as a VTR for research projects in collaboration with basic scientists and to expand the use of the KCR/health insurance claims linked dataset for population-based outcome studies.

### **Personal Statement (Teaching)**

Administrative responsibilities and multiple funded research projects have prevented me from being able to teach courses in recent years. However, teaching and mentoring students can be one of the most rewarding aspects of academic life. I consider it a great privilege to teach epidemiology and mentor students toward active productive careers. When I first began my academic career, I saw my role as giving lectures and imparting wisdom. This perspective is not necessarily wrong. Great lectures that engage students and expand their understanding can be useful. However, through reading, reflection, observing experienced teachers and listening to students, I soon discovered that focusing more on “learning” and less on “teaching” was both more effective and more satisfying. By focusing more on learning and less on teaching, I mean that having students more actively involved and less of me talking at them was more productive. Thus, over time, I have adopted a Socratic method when lecturing or explaining epidemiologic concepts. Engaging students in a dialogue or debate about a topic can help the student grasp the more subtle or nuanced aspects of a concept or method. To help the students internalize the ideas, I have included a number of active learning experiences in each course. For example, when I teach Cancer Epidemiology, each student is required to select a type of cancer (e.g. lung, breast, colon, pancreatic, cervical, prostate, etc.). Each student conducts independent research, prepares a descriptive analysis of the cancer site they have selected and presents their findings to the class. One of the best ways to learn something is when you are required to explain it to someone else. I also believe that it is important, especially for doctoral students, to have some classroom lecturing experience. Following the descriptive epidemiology activities, each student is provided with a de-identified data set of patients diagnosed with the cancer type they have selected. These data sets are provided by the Kentucky Cancer Registry. Students are required to obtain IRB approval (this is coordinated with the IRB to ensure timeliness). The data set includes detailed information about each patient’s age, sex, race, type of cancer, stage at diagnosis, histologic classification, residence at diagnosis (e.g. Appalachian, non-Appalachian; urban, rural), survival time, treatment, etc. Students are asked to conduct an analysis for the specific type of cancer they have selected comparing the survival of patients whose residence at diagnosis was Appalachian Kentucky to the survival of patients whose residence at diagnosis was the non-Appalachian area of the state using a proportional hazards model and controlling for age, stage, gender, race, etc. The students then prepare both a written description of their research and construct a scientific poster. The posters are presented in the atrium of the Markey Cancer Center and juried. This has proven to be a very valuable experience for students.

Preparing Socratic lectures, exercises, debates, and datasets for students to analyze as well as evaluating the effectiveness of these approaches takes considerable time. However, this extra effort is considered to be important. The active learning experiences have been well received by students and appear to be an effective method of helping students truly learn the material.

Serving on student capstone, thesis or dissertation committees is an important aspect of the mentoring process. This is a time when students move from being taught how to do something to actually doing it

themselves. One of the reasons I feel that the active learning experiences included in my courses are so important is that they help prepare students for this transition. I have had the honor of serving on a number of student committees both as Chair and as a member. In this role, especially for Doctoral students, I try to function more as a colleague in that I meet frequently with the student (or candidate), help them think through issues, review written drafts, provide constructive feedback, suggest articles to read, etc. For some students, the role of mentor goes well beyond serving on their committee. These are students that I have had the privilege to work with as graduate assistants, part time employees or practicum students. In a number of cases I have been able to guide the students in their career choices and I have also been fortunate to hire several of these individuals to work in our Cancer Prevention and Control Program.

### **Personal Statement (Service)**

Serving on committees; serving in leadership roles in local, state, national and international professional organizations; and serving as a reviewer for journal articles and/or research grants are part of the responsibility of any university faculty member. The concept of peer review is an essential component of academic life and providing leadership in our professional organizations is critical. It is difficult to imagine how our scholarly enterprise could function without these service activities. I have always taken these responsibilities seriously and I consider it my duty to contribute to these essential activities. However, it is also important to note that there are significant benefits that come from participating in these activities. Serving as a reviewer for journal articles provides insight into new and different research concepts and initiatives. Serving as a grant reviewer provides insight into current research topics, methods and strategies. Serving on review panels also helps you understand the review process and what reviewers are looking for. In addition, serving on review committees can help you build a network with investigators from other institutions. Serving in professional organization leadership roles can provide some of these same benefits. Serving in these roles also provides you with the opportunity to help form, shape and revise policies that can impact your scholarly activities.

Throughout my career I have been actively engaged in service activities. A complete list of these activities is included in my CV.