

STEVEN T. FLEMING

Department of Epidemiology
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EDUCATION

- 1982-1989 University of Michigan, Ph.D. in Health Services Organization and Policy, dissertation: "Toward an understanding of the relationship between the quality and cost of hospital care"
- 1982-1985 University of Michigan, A.M. in Applied Economics
- 1975-1977 University of Hartford, M.P.A. with a major in Health Administration
- 1968-1972 Rutgers University, B.S. in Environmental Sciences

MILITARY

Certificate (1972) from U.S.A.F. School of Aerospace Medicine: San Antonio, Texas.
Member of the Connecticut Air National Guard (1972-1978).

EMPLOYMENT EXPERIENCE (ACADEMIC SETTING)

- 2008-09 Visiting Professor, Centre for Public Health Research, Massey University, Wellington, New Zealand
- 2001-02 Visiting Research Fellow, Centre for Public Health Research, Queensland University of Technology, Kelvin Grove, Queensland, Australia
- 1995- Associate Professor with tenure (March 1998) of Epidemiology, The University of Kentucky: Lexington, Kentucky.
- 2014- Interim Chair, Department of Epidemiology, The University of Kentucky, Lexington, KY
- 1989-95 Assistant Professor of Health Services Management, The University of Missouri-Columbia: Columbia, Missouri
- 1980-82 Assistant Professor of Health Services Administration, Quinnipiac College: Hamden, Connecticut, Acting Director, 1981-82.

1977-80 Instructor of Health Services Administration, Quinnipiac College: Hamden, Connecticut

EMPLOYMENT EXPERIENCE (OTHER SETTINGS)

1990-94 Faculty for Executive Program in Managed Care for the National Center for Managed Health Care Administration: Kansas City, Missouri

1987-89 Research Associate II in the Department of Research Services, The Commission on Professional and Hospital Activities: Ann Arbor, Michigan

1985-87 Research Associate in the Department of Research Services, The Commission on Professional and Hospital Activities: Ann Arbor, Michigan

1984-85 Research Assistant in the Department of Research Services, The Commission on Professional and Hospital Activities: Ann Arbor, Michigan

1983-84 Part-time Research Assistant in the Department of Medical Care Organization, The University of Michigan: Ann Arbor, Michigan

1974-76 Research Assistant in the Departments of Biochemistry and Medicine, University of Connecticut Health Center: Farmington, Connecticut

1973-74 Laboratory Technician in the Isotope Laboratory, St. Francis Hospital: Hartford, Connecticut

GRADUATE TEACHING EXPERIENCE

1997-1999 Introduction to the Health Care System

1998- Managerial Epidemiology

2000- Introduction to Epidemiology

2001- Advanced Epidemiology

2003-2004 Research Methods

2004 Decision making in Health and Medicine

2005- Epidemiology Applied to the Design and Evaluation of Nursing and Health Services

2006- 2008 Managerial Epidemiology (Zayed University, United Arab Emirates)

2007- 2008 Cancer Epidemiology

1999 Member: PhD Dissertation Committee, Matthias Akomaye Udie, The effect of market structure on the stage of breast cancer diagnosis for Medicare HMO enrollees.

2003 Member: PhD Dissertation Committee, Terry Wiant, Policy and its impact on medical record security.

2002 Member: MPH capstone Committee, Brian Dean, A question of access:

- comparing barriers to oral health services between nursing home residents and well-elders in Kentucky.
- 2003 Chair: MPH capstone Committee, John M Bennett, Improving compliance for colon cancer screening through education outreach and a practice based intervention.
- 2003 Chair: MPH capstone Committee, Rishika Basappa, Continuity of patient care and tobacco cessation counseling.
- 2003 Chair: MPH Capstone Committee, Mef D. Galle, Impact of antimicrobial control program on the incidence of candidemia in a university affiliated hospital.
- 2003 Member: MPH Capstone Committee, Xuejing Wang, The effect of folic acid based supplements on lowering blood homocysteine : meta analysis of randomized trials.
- 2004 Co-chair: MPH Capstone Committee, Amber Bryn Riba, West Virginia laboratory capacity for Hepatitis C virus testing: an evaluation of adherence to the Centers for Disease Control and Prevention guidelines.
- 2004 Member: MPH Capstone Committee, Cheryl Leanne Ashby, Association of patient age and body mass index with delivery of preconception and sexual health counseling to adolescent females.
- 2004 Member: MPH Capstone Committee, Mehjabeen Chowdjury, Fayette county eating establishment smoking policy survey 2002.
- 2004 Member: MPH Capstone Committee, Laura Elizabeth Hackett, The epidemiology of West Nile virus in the commonwealth of Kentucky.
- 2004 Member: MPH Capstone Committee, Rondeen Gordon. Is Suicide More Likely in Older Adults with a Chronic Disease or Mental Illness?
- 2004 Member: MPH Capstone Committee, Shulin Dong. The role of radiotherapy in improving survival in patients with small cell lung cancer.
- 2004 Member: MPH Capstone Committee, Brandon Hurley.
- 2005 Member: MPH Capstone Committee, William Porter, Attending physicians' perceptions of computerized physician order entry (CPOE) implementation.
- 2005 Member: MPH Capstone Committee, January Breeden. The relationship between clinician diagnoses and clinician perceived depression and anxiety in community primary care practice
- 2005 Member: MPH Capstone Committee, Jennifer Rene Olges, A survey of Kentucky prenatal care provider testing practices and knowledge of human immunodeficiency virus.
- 2005 Chair: MPH Capstone Committee, Rafael Rangel, Pregnancy prevention in Pike county: a focus on teenage males.
- 2005 Member: MPH Capstone Committee, Jessica Berres Houlihan, Determination of risk factors for developing community-acquired pneumonia in HIV/AIDS patients since the era of HAART
- 2006 Outside Member: PhD Dissertation Committee, Theodore Wesley Randall Jr. Malaria Etiology, Prevention, and Treatment in the Gambia.
- 2006 Member: MPH Capstone Committee, Yvonne Konner. Public Health Approach to Overweight and Obesity: An Evaluation of Formal Weight Loss Programs here at the University of Kentucky (The Health and Wellness Weight Loss Matters and

BeHIP's Weight Loss for Life Programs)

- 2006 Member: MPH Capstone Committee, Donald J. Covell, Assessing the Influence of Non-Clinical Factors on Brain Cancer Treatment.
- 2006 Member: MPH Capstone Committee, Elizabeth L. Stevie, Obtaining Mammography Screening in Three Kentucky Primary Care Clinics.
- 2006 Member: MPH Capstone Committee, Richard Meir, Predictors of Poor Outcomes of Uveitis Associated with Juvenile Idiopathic Arthritis.
- 2006 Co-Chair: MPH Capstone Committee, Frank Rominelli, Risk Factors for Community Acquired Methicillin Resistant Staphylococcal Aureus (cMRSA) Among a Mixed Urban-Rural HIV Infected Population
- 2007 Member: MPH Capstone Committee, Justin L. Blackburn, Changes in Clinical Health Indicators in a Cohort of Australian Farm Families.
- 2007 Member: PhD Dissertation Committee, Lynne Jensen, "Cognitive and Psychological Factors That Influence Outcomes in Coronary Heart Disease Patients"
- 2007 Chair: MPH Capstone Committee, Erin Miller Reid, Sociodemographic Risk Factors Associated with the Late-Stage Diagnosis of Colorectal Cancer.
- 2007 Chair, MPH Capstone Committee, Andrew Kinch. Kentucky's Male HIV/AIDS Population: the Challenge Facing a Predominantly Rural State.
- 2007 Member, MPH Capstone Committee, Maya McDoom. Patient and Caregiver Evaluation in a Hospice Setting Utilizing the Social Worker Assessment Tool.
- 2007 Member, DrPH Capstone Committee, Carol Mclay. A Prolonged Outbreak of Day-Care Associated Shigella Sonnei: A Case-Control Study.
- 2007 Member, MPH Capstone Committee, Dana Hazen. Gender Specific Differences in the Pros and Cons of Smoking among Current Smokers in Eastern Kentucky.
- 2007 Member, MPH Capstone Committee, Amanda Wilburn. Hepatitis C Infection in Three Eastern Kentucky Counties: Risk Factors and Predictors.
- 2008 Co-Director, DrPH Capstone Committee, Prayuth Sudathip. Factors Related to the Delay of Prompt and Effective Treatment of Malaria in Northern Thailand.
- 2008 Co-Chair, MPH Capstone Committee, John Eggum. Effect of Hospital Volume on Outcome for Patients Diagnosed with Cerebral Aneurysms and Subarachnoid Hemorrhages.
- 2008 Chair, MPH Capstone Committee, Daniel Saman A GIS Analysis of the Distribution of Licensed Dentists Across Rural, Urban, and Appalachian Kentucky: 2007.
- 2008 Member, MPH Capstone Committee, Jessica Cobb. A Descriptive Review of Urban Zoonoses and Their Potential Impact on Public Health at the 2010 World Equestrian Games.
- 2008 Member, MPH Capstone Committee, Kia Armstrong. The Role of CD4 Count in the Development of Immunity after Hepatitis A and B Vaccination in HIV/AIDS Infected Patients.
- 2008 Co-Chair, MPH Capstone Committee, Kovel Walker. The Impact of Racial Differences in Prostate Cancer Survival from the SEER Program (1995 – 2004).
- 2008 Member, MPH Capstone Committee, Miriam Azuoru. The Impact of a Pharmacist-Provided Disease Management Service on a Primary Clinical

- Outcome in Individuals with Diabetes versus a Primary Care Setting.
- 2010 Co-chair MPH Capstone Committee, Rebecca Tarrant. Factors Affecting Cervical Cancer Survival for Patients Referred to a Tertiary Care Center in Kentucky
- 2010 Chair MPH Capstone Committee, Mariana Montes. The Association Between Socioeconomic Status and Colorectal Cancer Screening Behavior in a Sample of Appalachian Kentucky Residents.
- 2010 Member MPH Capstone Committee, Gwendolyn Riker. Factors Associated with Lung Cancer Survival in Appalachian and non-Appalachian Areas of Kentucky.
- 2010 Co-chair Capstone Committee, Vaishali Patil. A Retrospective evaluation and cost-effectiveness of Tuberculosis outbreak contact investigation At Woodford County.
- 2010 Member MPH Capstone Committee, Samuel O Antwi. Race/Ethnicity and Prostate Cancer Survival in Kentucky: the role of Treatment and Socioeconomic Factors.
- 2011 Member MPH Capstone Committee, Jessalyn Marie Ubellacker. Community Health Needs as Related to Health Service Awareness
- 2011 Member MPH Capstone Committee, Lori Craig, Pre-pregnancy Obesity and the Risk of Neural Tube Defects in a Kentucky Population
- 2011 Member MPH Capstone Committee. An inter-provincial examination of HIV/AIDS knowledge, beliefs, and educational indicators as determinants of HIV/AIDS prevalence in South Africa. Could utilization of cell phones improve public health initiatives?
- 2011 Chair MPH Capstone Committee. Anne Goodenow. Examining Predictors of Stage of Illness for Patients with Endometrial Cancer.
- 2011 Chair MPH Capstone Committee, Bhumika Mahesh Tandel. Effect of Interpregnancy Interval on Perinatal Outcomes: Health Access Nurturing & Development Service (HANDS) eligible population, Kentucky 2004-2008.
- 2012 Member MPH Capstone Committee, Amanda Nicole Peters. Analysis of dispensing trends related to antiretroviral medications among demographic subgroups of HIV-infected participants in the Kentucky AIDS Drug Assistance Program (KADAP).
- 2012 Member MPH Capstone Committee, Jennifer Elise Meyer. Generic Antiepileptic Prescribing: A Cross Sectional Study.
- 2012 Member MPH Capstone Committee, Niyati Majajan. Predictors of Mild Traumatic Brain Injury in Veterans of the Iraq and Afghanistan Wars.
- 2012 Member PhD Dissertation Committee, Timothy N. Crawford. Evaluating Retention in Medical Care and its Impact on the Health Outcomes of Individuals Living with HIV.
- 2012 Member MPH Capstone Committee, Najmus Abdullah. Effect of Concurrent HIV/AIDS Diagnosis on Survivability of Patients in the Houston Adult/Adolescent Spectrum of HIV/AIDS Disease Surveillance Project.
- 2013 Chair, DrPH Capstone Committee, Leah Casanave. Factors Influencing breast cancer prevention and control in Kentucky Women.
- 2013 Member DrPH Capstone Committee, Abby Consentino-Boehm. Soluble HER2/ErbB2 As A Lung Cancer Screening Biomarker, A Comparison to the Literature.

- 2013 Chair MPH Capstone Committee, Sondos Al Sad. Who Gets Optimal Treatment for Early Stage Cervical Cancer in Kentucky in 2000-2007.
- 2014 Co-Chair MPH Capstone Committee, Terrence Lester. Evaluating sHER2 as a Differential Diagnostic Biomarker for Ovarian Tumors.
- 2014 Member MPH Capstone Committee, Sandile Ginindza. Measuring the Effectiveness of Intensified Case Finding for Tuberculosis in Swaziland.
- 2014 Chair MPH Capstone Committee, Alfred Ferro, The Use of Comorbidities In Determining Hospital Readmissions.
- 2015 Chair MPH Capstone Committee, Stamatoula.Pilati. Screening Mammography: Effectiveness and Controversies.
- 2015 Chair DrPH Capstone Committee, Jaclyn Nee. Patient and Physician Factors Associated with Receipt of Adjuvant Chemotherapy in patients with Stage III Colon cancer in Kentucky.
- 2015 Huong Luu. Are there Delays in Receipt of Treatment Among Appalachian Kentucky Women with Breast Cancer.
- 2015 Co-Director, DrPH Capstone Committee, Hanan Abdulghafoor Khaleel. Alcohol Sales Status and Violent Deaths in Kentucky, USA: 2005-2013.

COMMITTEES

- 2003 Member: Six-year Review Committee for UK Center for Health Services Management and Research
- 2004-2006 Chair: Appointment, Promotion, and Tenure Committee, College of Public Health
- 2004-2007 Member: Faculty Council, College of Public Health
- 2005-2006 Member: Service Committee, College of Public Health
- 2005 Academic Council of the Medical Center Review Committee
- 2005- Cancer Prevention and Control Program Scientific Advisory Committee
- 2006- 2008 Member: Research Committee, College of Public Health
- 2009- 2011 Member: Admissions and Student Affairs Committee, College of Public Health
- 2009- Member: Faculty Council, College of Public Health
- 2012- Chair: Faculty Council, College of Public Health

PUBLICATIONS

1. Denu RA, Hampton JM, Currey A, Anderson RT, Cress RD, Fleming ST, Lipscomb J, Sabatino SA, Wu X, Wilson JF, Trentham-Dietz A. Influence of Patient, Physician, and

- Hospital Characteristics on the Receipt of Guideline-Concordant Care for Inflammatory Breast Cancer. forthcoming *Cancer Epidemiology*.
2. Fleming ST et al. Clinical, Sociodemographic and Service Provider Determinants of Metastatic Colorectal Cancer Care Treatment for Appalachian Residents. *Forthcoming Journal of Rural Health*. 2015. Article first published online: 4 AUG 2015 DOI: 10.1111/jrh.12132
 3. Sieber E, Camacho F, Zeeshan MF, Kern TT, Fleming S. Disparities in colorectal cancer treatment delay within Appalachia: the role of for-profit hospitals. *Forthcoming Journal of Rural Health*. 2015 May 29. doi: 10.1111/jrh.12122.
 4. Anderson RT, Morris C, Kimmick G, Trentham-Dietz A, Camacho F, Wu X, Sabatino SA, Fleming ST, Lipscomb J. 2014. Patterns of Loco-regional Treatment for Non-Metastatic Breast Cancer by Patient and Health Systems Factors. *Forthcoming Cancer*.
 5. Sabatino SA, Thompson TD, Wu X, **Fleming ST**, Kimmick GG, Trentham-Dietz A, Cress R, Anderson RT. The influence of diabetes severity on receipt of guidelineconcordant treatment for breast cancer. *Breast Cancer Research & Treatment*. 2014 Jul;146(1):199-209. doi: 10.1007/s10549-014-2998-3. DOI 10.1007/s10549-014-2998-3
 6. Kimmick G, **Fleming ST**, Sabatino SA, Wu X, Hwang W, Wilson FJ, Lund MJ, Cress R, Anderson R. on behalf of the Center for Disease Control and Prevention National Program of Cancer Registry Patterns of Care Study Group. (2014). Comorbidity Burden and Guideline Concordant Care for Breast Cancer. *Journal of the American Geriatrics Society* 62(3):482-8. doi: 10.1111/jgs.12687. Epub 2014 Feb 10
 7. Wang D, Ho A, Hamilton A, Wu X, Lo M, **Fleming S**, Goodman M, Thompson T, Owen J. Type and Dose of Radiotherapy used for Initial Treatment of Non-Metastatic Prostate Cancer, forthcoming *Radiation Oncology*, 2014(1):47. doi: 10.1186/1748-717X-9-47.
 8. Hamilton AS, **Fleming ST**, Wang D, Goodman M, Wu X, Owen JB, Lo M, Ho A, Anderson RT, Thompson T. Clinical and Demographic Factors Associated with Receipt of Guideline Concordant Initial Therapy for Non-metastatic Prostate Cancer. *Amer J Clinical Oncology*, Epub ahead of print 1 Jan 2014..
 9. Crawford TN, Sanderson WT, Breheny P, **Fleming ST**, Thornton A. (2014). Impact of non-HIV related comorbidities on retention in HIV medical care: does retention improve over time? *Aids and Behavior*, 18(3): 617-624.
 10. Schoenberg, NE, Tarasenko YN, Bardach SH, **Fleming ST**. Patient and Provider Perspectives on the Relationship between Multiple Morbidity Management and Disease Prevention. *J Applied Gerontology*. Epub Ahead of print 17 Sept 2013. DOI: 10.1177/0733464813499641
 11. **Fleming ST**, Mackley HB, Camacho F, Seiber EE, Gusani NJ, Matthews SA, Liao J, Yang T, Hwang W, Yao N. (2014) Clinical, Sociodemographic and Service Provider Determinants of Guideline Concordant Colorectal Cancer Care for Appalachian Residents. *Journal of Rural Health*, 30(1):27-39. NIHMSID#482157. 30(1):27-39. doi: 10.1111/jrh.12033. Epub 2013 Jun 26.
 12. Tarasenko Y, **Fleming ST**, Schoenberg NS. (2013) The Relationship between Perceived Burden of Chronic Conditions and Colorectal Cancer Screening among Appalachian Residents. *Journal of Rural Health* 30(1):40-49.
 13. Antwi SO, Tucker TC, Coker AL, **Fleming ST**. Racial Disparities in Survival after Diagnosis of Prostate Cancer in Kentucky, 2001-2010. *Forthcoming American Journal of Men's Health*

14. **Fleming ST**. Managerial Epidemiology: It's about time! Commentary. Forthcoming Journal of Primary Care and Community Health
15. Meyer J, Fardo D, **Fleming ST**, Hopenhayn C, Gokum Y, Ryan M. Generic antiepileptic drug prescribing: a cross sectional study. *Epilepsy & Behavior*. 26(2013): 1-6.
16. **Fleming ST**, Kimmick GG, Sabatino SA, Cress R, Wu X, Trentham-Dietz A, Huang B, Hwang W, Liff J for the Patterns of Care Study Group. Defining Care Provided for Breast Cancer Based on Medical Record Review or Medicare Claims: Information from the Centers for Disease Control and Prevention Patterns of Care Study. Forthcoming *Annals of Epidemiology*.
17. **Fleming ST**, Hamilton AS, Sabatino SA, Kimmick GG, Wu X, Owen JB, Huang B, Hwang W, for the Patterns of Care Study Group. Dec 2012. Treatment Patterns for Prostate Cancer: Comparison of Medicare Claims Data to Medical Record Review. *Medical Care* doi: 10.1097/MLR.0b013e318277eba5
18. Hamilton A, Wu X, **Fleming ST**, Lo M, Wang D, Goodman M, Ho A, Owen J, Rao C, Lipscomb J. Regional, Provider, and Economic Factors Associated with the Choice of Active Surveillance in the Treatment of Localized Prostate Cancer. *Journal of National Cancer Institute Monograph* 2012(45): 213-220.
19. Wu X, Lund MJ, Kimmick GG, Richardson LC, Sabatino SA, Chen VW, **Fleming ST**, Morris CR, Huang B, Trentham-Dietz A, Lipscomb J. 2011. Influence of Race, Socioeconomic Status, Insurance, and Hospital Type on Receipt of Guideline-Concordant Adjuvant Systemic Therapy for Locoregional Breast Cancers, *Journal of Clinical Oncology* 30(2): 142-150.
20. German RR, Wike JM, Bauer KR, **Fleming ST**, Trentham-Dietz A, Namiak M, Almon L, Knight K, Perkins C for the Patterns of Study Group (2011). Quality of Cancer Registry Data: Findings from CDC-NPCR's Breast and Prostate Cancer Data Quality and Patterns of Care Study. *Journal of Registry Management*, 2011, 38(2):75-86.
21. **Fleming ST**, Love MM, Bennett K. Diabetes and cancer screening rates among Appalachian and non-Appalachian residents of Kentucky. *Journal of the American Board of Family Practice*. 2011; 24: 682-692.
22. **Fleming ST**, Schoenberg NE, Tarasenko YN, Pearce KA. 2011. The prevalence of colorectal cancer screening among a multi-morbid rural Appalachian population. *Southern Medical Journal* 104(12): 811-818.
23. Seamon LG, Tarrant RL, **Fleming ST**, Vanderpool RC, Pachtman S, Podzielinski I, Branscum AJ, Feddock JM, Randall ME, DeSimone CP.(2011). Cervical cancer survival for patients referred to a tertiary care center in Kentucky. *Gynecologic Oncology*, 123(3): 565-570.
24. Bardach SH, Schoenberg NE, **Fleming ST**. 2012. The Relationship between colorectal cancer screening adherence and knowledge among vulnerable rural residents of Appalachian Kentucky. *Cancer Nursing*, 35(4): 288-294.

25. Brewer N, Borman B, Sarfati D, Jeffreys M, **Fleming ST**, Cheng S, Pearce N (2011). Does comorbidity explain the ethnic inequalities in cervical cancer survival in New Zealand? A retrospective cohort study. *BMC Cancer* 11:132.
26. **Fleming ST**, Sabatino SA, Kimmick G, Cress R, Wu X, Trentham-Dietz A, Huang B, Hwang W, Liff J, for the Patterns of Care Study Group (2011). Developing a claim-based version of the ACE-27 comorbidity index: a comparison with medical record review. *Medical Care*, 49(8): 752-760.
27. Smith AW, Charnigo R, Love MM, Kryscio R, **Fleming ST**, Pearce KA (2012). Factors relating to patient visit time with a physician. *Medical Decision-Making*, 32(1): 93-104.
28. Bardach SH, Schoenberg NE, **Fleming ST**, Tarasenko YN (2010). Rural residents' perspectives on multiple morbidity management and disease prevention. *J Applied Gerontology*, August 2, 2011.
29. **Fleming, ST.** (2008), *Managerial Epidemiology: Concepts and Cases* 2nd Edition, Chicago: Health Administration Press, 475 pages.
30. Killip S, Ireson CL, Love MM, **Fleming ST**, Katirai W, Sandford K (2007). Patient safety in after-hours telephone medicine. *Family Medicine Journal* 39(6): 404-409.
31. Schoenberg NE, Kim H, Edwards W. **Fleming ST.** (2007). The burden of common multiple morbidity constellations on out-of-pocket medical expenditures among older adults. *The Gerontologist*. 47(4): 423 – 437.
32. **Fleming ST.** Data Sources for Measuring Comorbidity: Response to Klabunde et al, October 2006 *Medical Care* 45(3): 274.
33. **Fleming, ST**, McDavid, K., Pearce, K., and Pavlov, D. (2006) Comorbidities and the risk of late-stage prostate cancer. *TSW Urology* 1, 163–173. DOI 10.1100/tswurol.2006.142.
34. **Fleming ST**, Pursley HG, Newman B, Pavlov D, Chen K. (2005). Comorbidity as a predictor of stage of illness for patients with breast cancer. *Medical Care*, 43(2):132-140.
35. **Fleming ST**, Pearce KA, McDavid K, Pavlov D. (2003). The development and validation of a comorbidity index for prostate cancer among Black men. *Journal of Clinical Epidemiology*, 56(11): 1064-1075.
36. Beaulieu J, Galland J, **Fleming S**, Chen K, Peng Xuejun. (2002). Geographic variation in breast-conserving surgery in Kentucky's Medicare population. *J Kentucky Medical Association* 100: 99-103.
37. **Fleming, ST**, Scutchfield, FD, Tucker, TC. (2000). *Managerial Epidemiology*, Chicago: Health Administration Press, 277 pages.
38. **Fleming, ST**, Dmitrienko A, Rastogi A. (1999). A Comprehensive Prognostic Index to predict mortality based on multiple comorbidities: A Focus on Breast Cancer. *Medical Care*. 37(6): 601-614.
39. **Fleming ST.** and Kohrs, FP. (1998). Linking claims data and cancer registry data: is it worth the effort? *Clinical Performance and Quality Health Care*, 6(2): 88-96.
40. Boles KE and **Fleming ST** (1997). Why traditional breakeven analysis doesn't work with managed care, *Health Care Systems Economics Report*, 1(9): 7-12.

41. **Fleming ST.** (1996). Complications, adverse events, and iatrogenesis: classifications and quality of care measurement issues, *Clinical Performance and Quality Health Care*, 4(3): 137-147.
42. Boles KE and **Fleming ST.** (1996). Breakeven under capitation.: pure and simple? *Health Care Management Review*, 21(1): 38-47.
43. **Fleming ST.** (1995). Multiple Sclerosis as a comorbidity: a study of resource utilization and outcomes of care. *Clinical Performance and Quality Health Care*, 3(1): 23-30.
44. **Fleming ST,** Williamson H, Hicks L, Rife I. (1995). Rural hospital closures and access to services, *Hospital & Health Services Administration*, 40(2): 249-264.
45. **Fleming ST.** (1995). Primary care, avoidable hospitalization, and outcomes of care: a literature review and methodological approach., *Medical Care Research and Review*, 52(1): 88-108.
46. **Fleming ST,** Hicks L, Bailey RC. (1995) Interpreting the Health Care Financing Administration mortality statistics, *Medical Care*, 33(2): 186-201.
47. **Fleming ST,** Blake R. (1994). Patterns of comorbidity in elderly patients with multiple sclerosis. *Journal of Clinical Epidemiology*, 47(10): 1127-1132.
48. **Fleming ST** and Boles KE. (1994). Financial and clinical performance: bridging the gap. *Health Care Management Review*, 19(1): 11-17.
49. Long MJ, **Fleming ST,** Chesney, JD. (1993). The impact of diagnosis related group profitability on the skimming and dumping of psychiatric DRGs. *International Journal of Social Psychiatry*, 39(2): 108-120.
50. Long MJ, Chesney JD, **Fleming ST.** (1993). Profitable and unprofitable DRGs: the implications for access. *Health Services Management Research*, 6(1): 61-69.
51. **Fleming ST,** Bopp KD, Anderson KG. (1993). Spreading the good news of total quality management: faith, conversion, and commitment. *Health Care Management Review*, 18(4): 29-33.
52. **Fleming ST.** (1992). Outcomes of care for anesthesia services: a pilot study. *Quality Assurance in Health Care*, 4(4): 289-303.
53. **Fleming ST.** (1992). Toward the development of integrative risk-adjusted measures of quality using large clinical databases: the case of anesthesia services. *Evaluation & the Health Professions*, 15(1): 43-58.
54. DesHarnais S, Hogan AJ, McMahon LF, **Fleming S.** (1991). Changes in rates of unscheduled hospital readmissions, and changes in efficiency following the introduction of the Medicare Prospective Payment System: an analysis using risk-adjusted data. *Evaluation & The Health Professions*. 14(2): 228-252.
55. **Fleming ST.** (1991). The relationship between quality and cost: pure and simple? *Inquiry*, 28(1): 29-38. [The August 5, 1991 issue of U.S. News and World Report made reference to the results of this study.]
56. **Fleming ST** et al. (1991). The measurement of mortality: a risk-adjusted variable time window approach. *Medical Care*, 29(9): 815-828.

57. Long MJ, Chesney JD, **Fleming ST**. (1990). A reassessment of hospital product and productivity changes over time. *Health Care Financing Review*, 11(4): 69-78.
58. **Fleming ST**. (1990). The relationship between the cost and quality of hospital care: a review of the literature. *Medical Care Review*, 47(4): 487-502.
59. Long MJ, Chesney JD, **Fleming ST**. (1989). Were hospitals selective in their product and productivity changes: the top 50 DRG's after PPS. *Health Services Research*, 24(5): 615-642.
60. DesHarnais SI, Chesney JD, Wroblewski RT, **Fleming ST**, McMahon LF. (1988). The risk adjusted mortality index: a new measure of hospital performance. *Medical Care*, 26(12): 1129-1148.
61. DesHarnais SI, Chesney JD, **Fleming ST**. (1988). Trends and regional variations in hospital utilization and quality during the first two years of the Prospective Payment System. *Inquiry*, 25(3): 374-382.
62. DesHarnais SI, Chesney JD, **Fleming ST**. (1988). Should DRG assignment be based on age? *Medical Care*, 26(2):124-131.
63. DesHarnais S, Kobrinski E, Chesney J, Long M, Ament R, **Fleming S**. (1987). The impact of PPS on inpatient utilization and the quality of care: the early effects. *Inquiry*, 24(1):7-16.
64. Long MJ, Ament RP, Chesney JD, DesHarnais SI, **Fleming ST**, Kobrinski EJ, Marshall BS. (1987). The effect of PPS on hospital product and productivity. *Medical Care*, 25(6):528-538.
65. **Fleming ST**, Kobrinski EJ, Long MJ. (1985). Multidimensional analysis of the impact of high-cost hospitalization. *Inquiry*, 22(2):178-187.

PRESENTATIONS/POSTERS – INTERNATIONAL

Fleming ST. The Link between Comorbid Illness and Cancer Incidence and Diagnosis. Queensland University of Technology. Institute of Health and Biomedical Innovation. Brisbane, Australia. April 21, 2009.

Fleming ST. The Link between Comorbid Illness and Cancer Incidence and Diagnosis. Perth Epidemiology Group. Western Australia Medical Research Institute. Perth, Australia. March 20, 2009.

Fleming ST. How to Adjust for Misclassification Bias - Case Study: Smoking and Low-birthweight Newborns. Centre for Public Health Research. Massey University. Wellington, New Zealand. February 10, 2009.

Fleming ST. Comorbidities, Cancer Screening, and “Medical Home” Attributes: What’s the Connection? National Screening Unit, Ministry of Health. Wellington, New Zealand. December 17, 2008.

Fleming ST. The Link between Comorbid Illness and Cancer Incidence and Diagnosis.. Hugh Adam Cancer Epidemiology Unit, Dunedin Medical School, Dunedin, New Zealand. December 2, 2008.

Fleming ST. Diabetes, Asthma, Cancer Screening, and “Medical Home” Attributes: What’s the

Connection? Centre for Public Health Research. Massey University. Wellington, New Zealand. November 4, 2008.

Fleming ST. Managerial Epidemiology: Concepts and Cases. University of Auckland School of Population Sciences, Department of Health Systems. October 20, 2008.

Fleming ST. Cancer Survival. Centre for Public Health Research. Massey University. Wellington, New Zealand. September 2, 2008.

Fleming ST, Newman B, Purlsey HG, Chen K, Pavlov D. Measuring Comorbidity Burden to Predict Stage of Illness in Breast Cancer Patients in the United States. Cancer Council of Victoria and University of Melbourne. Melbourne, Victoria. March 21, 2002.

Fleming ST, Purlsey HG, Chen K, Pavlov D. Modelling Comorbidity Burden as a Predictor of Stage using the SEER Cancer Registry Linked to Medicare Insurance Claims. The Cancer Council of New South Wales. Sydney, New South Wales, Australia. January 23, 2002.

Fleming ST, Purlsey HG, Chen K, Pavlov D. Comorbidity Burden and Stage at Diagnosis for Breast Cancer. ChristChurch School of Medicine, Christchurch, New Zealand. November 24, 2001.

Fleming ST, Purlsey HG, Pearce K, McDavid K, Chen K, Pavlov D. Comorbidity Burden and Stage at Diagnosis for Breast and Prostate Cancer. Queensland Institute for Medical Research. Brisbane, Queensland, Australia. October 30, 2001.

Fleming ST. Managerial Epidemiology: the Case for Evidence-Based Management. Australian College of Health Service Executives (Qld) & The Queensland Centre for Public Health. Brisbane, Queensland, Australia. September 13, 2001.

Fleming ST. McDavid KA. Pearce KA. Pavlov D. A Comorbidity Index Specific to Black Men with Prostrate Cancer (Poster). Congress of Epidemiology 2001. Toronto, Canada. June 13-16, 2001.

Fleming ST. Casemix, Resource Utilization and Outcomes of Hospitalizations for MS Patients: A Case-Control Study. presented at the Eighth Annual Consortium Conference of the Consortium of Multiple Sclerosis Centers. Victoria, British Columbia. September 11-13, 1993.

Fleming, ST. et al. Anesthesia-Related Outcomes: A Pilot Study. presented by S. Fleming at the International Society for Quality Assurance 8th International Symposium. Washington D.C. May 29-31 1991.

PRESENTATIONS/POSTERS – NATIONAL/STATE

Casanave L. Fleming ST. Factors Influencing Breast Cancer Treatment in Kentucky. APHA 142nd Annual Meeting, New Orleans, November 15-19, 2014.

Ursem C, **Fleming ST,** Sabatino S, Wu X, Wilson JF, Lipscomb J, Cress R, Anderson R and Kimmick G. Does socioeconomic status influence receipt of guideline concordant care in older

women with breast cancer: Findings from a Centers for Disease Control and Prevention National Program of Cancer Registries (NPCR) Patterns of Care Study San Antonio Breast Cancer Symposium in San Antonio, Texas. Dec 10-14,2013.

Wu X, **Fleming ST**, Richardson LC, Li, XR, Kimmick GG, Lipscomb J, Chen VW. Influence of Comorbidity Severity on Risk of Death by Utilization Status of Adjuvant Therapy Among Women with Locoregional Breast Cancer. 2013 NAACCR Annual Conference, Austin, Texas, June 18-14, 2013.

Kimmick GG, Camacho F, Kern T, **Fleming ST**, Liao J, Matthews S, Hwang W, Mackley HB, Lipscomb J, Short P, Moran J, Yao N, Anderson RT. Predictors of care for early-stage breast cancer in Appalachia. American Society of Clinical Oncology (ASCO) Annual Meeting. May 31- June 4, 2013, Chicago, Ill.

Sabatino S, Thompson T, Wu X, Kimmick G, **Fleming S**, Trentham-Dietz A, Cress R, Anderson R. The influence of diabetes severity on guideline-concordant treatment for stage I-III breast cancer in the National Program of Cancer Registries Patterns of Care for Breast and Prostate Cancer study. American Society of Clinical Oncology (ASCO) Annual Meeting. May 31- June 4, 2013, Chicago, Ill.

Schoenberg NE, **Fleming ST**, Tarasenko YN, Bardach SH. A Mixed Method Study of the Relationship between Multiple Morbidity and Colorectal Cancer Screening. Gerontological Society of America 65th Annual Meeting. November 14-18, 2012. San Diego, CA.

Fleming ST, Hamilton AS, Sabatino SA, Kimmick GG, Wu X, Owen JB, Huang B, Hwang W, Liff J for the Patterns of Care Study Group. Treatment Patterns for Prostate Cancer: Comparison of Medicare Claims Data to Medical Record Review. 2012 CDC National Cancer Conference, Washington DC, August 21-23 2012.

Kimmick G, **Fleming S**, Sabatino S, Wu X, Hwang W, Wilson JF, Lund MJ, Cress R, Anderson R. Influence of comorbidity on guideline concordant care for breast cancer: Findings from the Center for Disease Control and Prevention National Program of Cancer Registry (NPCR) patterns of care study. American Society of Clinical Oncology Annual Meeting, June 1-5, 2012, Chicago, Ill.

Tandel B, **Fleming S**, Caldwell G, Fardo D. Effect of Interpregnancy Interval on Perinatal Outcomes:Health Access Nurturing & Development Service (HANDS) eligible population, Kentucky 2004-08. Kentucky Public Health Association Annual Conference, Frankfort, KY, March 27-30 2012.

Bardach, SH, Schoenberg, NE, **Fleming, ST**, Hatcher, J The Relationship Between Colorectal Cancer Screening Adherence and Knowledge Among Vulnerable Rural Residents of Appalachian Kentucky. The Gerontological Society of America 64th Annual Meeting, Nov 18-22, 2011, Boston, MA.

Wang D, Ho A, Wu X, Hamilton A4, Goodman M, **Fleming S**, Rao C, German R, Owen J. Results of Patterns of Care Study of Patients Treated with External Beam Radiotherapy for Prostate Cancer in 2004. American Society for Radiation Oncology, 2011 Annual Meeting. Miami, Florida. October 2-6.

Fleming ST, Love M, Bennett K. Diabetes and Cancer Screening Rates in Appalachian and Non-Appalachian Kentucky. North America Primary Care Research Group (NAPCRG) 2010 Annual Meeting. Seattle WA, November 13-17, 2010.

Schoenberg NE, **Fleming ST**, Tarasenko YN, Bardach SH, Pearce KA. New Insights on the Relationship between Colorectal Cancer Screening and Multiple Morbidity. Gerontological Society of America 63 Annual Meeting, November 19-23, 2010, New Orleans, Louisiana.

Tarrant RL, DeSimone CP, Pachtman S, Podzielinski I, Branscum AJ, Vanderpool RC, Feddock JM, Randall RE, Baldwin LA, **Fleming ST**, Seamon LG. Factors affecting cervical cancer survival for patients referred to a tertiary care center in Kentucky. American Association for Cancer Research, Cancer Disparities Conference, Miami, Florida, 30 Sept – 3 Oct 2010.

Tarrant RL, DeSimone CP, Pachtman S, Podzielinski I, Branscum AJ, Vanderpool zRC, Feddock JM, Randall ME, Baldwin LA, **Fleming ST**, Seamon LG. Factors affecting cervical cancer survival for patients referred to a tertiary care center in Kentucky. American Association of Cancer Research (AACR) Health Disparities Conference. September 30 – October 2, 2010, Miami Florida.

Bardach, Shoshana H., Schoenberg, Nancy E., Tarasenko, Yelena N., **Fleming, Steven**. Rural Residents' Perspectives on Multiple Morbidity Management and Disease Prevention. Gerontological Society of America, Atlanta, GA, November, 2009.

A.S. Hamilton, X.C. Wu , R.T. Anderson, J.F. Wilson, C.Perkins, J.Lipscomb, **S.T. Fleming**, R. Cress, V.W. Chen, J.Owen, J.Wike, and R.German. Methods of Supplementing Registry Data to Assess Disparities in Receipt of Cancer Therapy: The CDC Breast and Prostate Patterns of Care Study International perspectives on data quality. International Association of Cancer Registries (IACR) 31st Annual Meeting, June 3-5, 2009, New Orleans, Louisiana.

Killip S, Ireson C, Love M, Fleming S, Katirai W, McLay C. Patient Safety in Telephone Medicine. North American Primary Care Research Group Annual Meeting, Quebec City, Quebec Canada October 15-18 2005.

Fleming, ST, Pursley, HG. Comorbidities, Race, and Stage of Breast Cancer. 37th Annual Meeting Society for Epidemiologic Research, June 15-18, 2004, Salt Lake City, Utah.

Fleming, ST, Pursley HE, Newman B, Pavlov D, Chen K. Comorbidity as a Predictor of Stage of Illness for Breast Cancer Patients. American Public Health Association 131st Annual Meeting, 16-19 November 2003, San Francisco, CA

Fleming, ST, Pursley HE, Newman B, Pavlov D, Chen K. Comorbidity as a Predictor of Stage of Illness for Breast Cancer Patients. AcademyHealth Annual Meeting, Poster Session 27-29 June 2003, Nashville, TN.

Fleming, Steven, Kathleen McDavid, Kevin Pearce, Dmitri Pavlov. Predictors of Treatment for Black and White men at least 67 years old with prostate cancer. American College of Epidemiology Annual Meeting 2002. Poster Session Sept 23, 2002. Albuquerque, NM.

Fleming ST, Hicks L, Bailey C. Toward an Understanding of the Health Care Financing Administration Mortality Methodology: A case Study. presented at the 11th Annual Meeting of the Association for Health Services Research. San Diego, CA. June 12-14, 1994.

Boles, KE and **Fleming, ST**. Financial and Clinical Performance: Bridging the Gap. presented by K. Boles at the 1992 Annual Meeting of the Association for University Programs in Health Administration. Washington, D.C. March 19-22, 1992.

Fleming ST. The Risk-Adjusted Mortality Index: Some Enhancement. Poster Session at the 118th Annual meeting of the American Public Health Association. New York, New York. September 30 - October 4, 1990.

Long MJ, **Fleming ST**, Chesney JD. The Impact of DRG Profitability on the Skimming and Dumping of Psychiatric DRGs. presented by M. Long at the 1990 annual meeting of the Association of University Programs in Health Administration, Chicago, Illinois.

Long MJ, Chesney JD, **Fleming ST**. Skimming Profitable and Dumping Unprofitable DRGs. presented by M. Long at the 117th Annual Meeting of the American Public Health Association, Chicago, Illinois, October 22-26, 1989.

Fleming ST. A Hospital Variable Cost Function that Measures Product Differentiation on the Basis of Quality. presented at the 64th Annual Western Economic Association meetings, Lake Tahoe, Nevada, June 18-22, 1989.

RESEARCH AND PROFESSIONAL ACTIVITIES

National Cancer Institute, Patterns of Patient Care in Appalachia, 2010-2013. subcontract from Pennsylvania State University, \$77,359, 1R01CA140335-01A1

National Cancer Institute, 2008-2010. Co-investigator. Increasing Colorectal Cancer Screening for Patients with Multiple Morbidities.

Centers for Disease Control and Prevention, 2005-2008. Principal Investigator, Breast and Prostate Cancer Patterns of Care in Kentucky. \$655,789.

Agency for Health Care Policy & Research, 2003-2006. Principal Investigator. Kentucky HSR Development (BRIC) II. \$570,000.

Agency for Health Care Policy & Research, 2001-2003. Principal Investigator (2002-2003). Kentucky HSR Development (BRIC). \$388,998.

ATPM/CDC/ATSDR, 1999-2001. Principal Investigator. Comorbidities and Prostate Cancer in Elderly Black Men. \$106,449.

National Cancer Institute, 1999-2001. Principal Investigator. The Comorbidity Factor and Breast

Cancer. \$98,498.

University of Kentucky Medical Center Research Fund, 1997-1998. Principal Investigator. The Comorbidity Factor in Elderly Breast Cancer Patients in Kentucky. \$10,000.

American Cancer Society Institutional Research Grant, 1996-1997. Principal Investigator. The Costs and Outcomes of Breast Cancer: Merging Claims and Registry Data. \$10,000.

Social Services Financing grant, Office of International Affairs, 3/16/96-4/6/96. Taught an overview of the U.S. health care system, financing arrangements in healthcare, and cost-effectiveness analysis to a small delegation of Russians.

Management of Rural Social Services and Rural Community Development grant, Office of International Affairs, 10/30/95-11/17/95. Taught an overview of the U.S. health care system, total quality management, and decision theory to a delegation of 13 Russians.

Osteopathic Hospital of Texas, 1992-93: Consultant with Lanis Hicks, analysis of the 1990 Medicare Hospital Mortality Report

Department of Family and Community Medicine, 1992: Principal Investigator, small seed money grant to study rural hospital closures and access to care. (<\$1000)

National Multiple Sclerosis Society, 1992-1993: Principal Investigator. Comparative Analysis of Multiple Sclerosis Patients to Other Hospitalized Patients. \$1997

Missouri Health Care Association, May 1992, four hour seminar with Keith Boles, Total Quality Management in Nursing Home Care.

Health Care Financing Administration, 1984-1987: Research Associate. Evaluation of the Impact of the Medicare Prospective Payment System.

Health Care Financing Administration, 1985-1987: Co-author and Research Associate. Indexes of Hospital Quality and Efficiency.

Prospective Payment Assessment Commission, 1985-1987: Research Associate. The Measurement of Real Change in Case Mix.

National Institute of Mental Health, 1988-1989: Research Associate. The Effect of PPS on Psychiatric Admissions in General Hospitals.

Reviewer for Cancer, Medical Care, Inquiry, Hospitals & Health Services Administration, Clinical Performance and Quality Health Care, American Journal of Preventive Medicine, AUPHA 1991 Annual Meeting, Annals of Epidemiology, Journal of the American Geriatrics Society, Journal of General Internal Medicine, Journal of Registry Management, Journal of Rural Health, Journal of the American College of Surgeons