

Dana E. King, M.D., M.S.



CURRICULUM VITAE

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Office: Department of Family Medicine
Medical University of South Carolina
295 Calhoun St, Charleston, SC 29425
Place of Birth: Charleston, West Virginia
Citizenship: United States
Marital Status: Married, 2 children

EDUCATION

2001-2004 Medical University of South Carolina
Degree: M.S., 2004, Master of Science, Clinical Research
1977-1981 University of Kentucky College of Medicine, Lexington, Kentucky
Degree: M.D., 1981, with High Distinction, Alpha Omega Alpha
1973-1976 Miami University, Oxford, Ohio
Degree: B.A., Chemistry, 1976, cum laude, Phi Beta Kappa

POST-GRADUATE TRAINING

2010-2011 Chair Development Fellowship Training, Association of Departments of
Family Medicine (ADFM) (1 year)
2007 American College of Physicians Executive (ACPE) Leadership course (1
week)
2003-2004 Clinical Research Scholar (K30) 2003-2004 (scholarship to assist in
completing Masters of Science in Clinical Research degree, MS)
1991-1992 Faculty Development Fellowship in Family Medicine,
University of North Carolina, Chapel Hill
1983-1984 Co-Chief Resident, Baltimore, Maryland
1981-1984 Family Practice Residency, University of Maryland,
Department of Family Medicine, Baltimore, Maryland

BOARD CERTIFICATION

2009-2016	Diplomate (Board Certification), Renewed
2002-2009	Diplomate (Board Certification), Renewed
1996-2003	Diplomate (Board Certification), Renewed
1990-1997	Diplomate (Board Certification), Renewed
1984	American Board of Family Medicine

OTHER CERTIFICATION

2010	NCQA-Primary Care in Diabetes
2011	NCQA—Primary care of Stroke

LICENSURE

1999-present	South Carolina, No. 21186 (DHEC 20-P522)
1990-present	North Carolina, No. 27931
1982-present	Maryland, No. D28782 (inactive status since 1999)

MILITARY- NA

FACULTY APPOINTMENTS

Current

--Medical University of South Carolina (MUSC), Department of Family Medicine, Research Division, Charleston

2005-present	Professor with tenure
2004-2005	Associate Professor with tenure
1999-2005	Associate Professor

Previous

--East Carolina University School of Medicine, Department of Family Medicine, Greenville, North Carolina

1995-1999	Associate Professor, with tenure
1992-1999	Program Director, Rural Residency Training Program
1991-1995	Assistant Professor
1990-1991	Instructor (faculty)
1985-1990	Clinical Instructor (community office-based)

ADMINISTRATIVE EXPERIENCE

Current position

Medical University of South Carolina, Department Of Family Medicine, Charleston, SC

2007-present	<u>Vice Chair</u> of the Department of Family Medicine This is an <u>executive vice chair</u> position that includes the following responsibilities shared with the executive team of the Chair, Vice Chair, and Department Administrator: budget issues (approx \$12 million annually), personnel issues, strategic planning, and special projects.
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Recent activities:

WE CARE-- headed a team and developed a clinical accountability system for outpatient family medicine staff as an extension of the MUSC clinical excellence program, which resulted in dramatic improvements in patient satisfaction in our downtown clinic.

TEAM CARE--a novel clinical QI initiative that demonstrated a 350% increase in cancer screening rates for colon and breast cancer.

PREVENTION--a community project in partnership with the North Charleston

firefighters; we developed an assessment of a wellness initiative to improve firefighter fitness using a structured exercise program, with monitoring of BMI, lipids, and blood pressure before and after the intervention.
 PREVENTION GRAND ROUNDS--Created a new Prevention Grand Rounds series in the department that has attracted speakers from a variety of institutions and has lead to several grant collaborations.
 PREVENTION COURSE—developed a new 4th year medical student elective in Prevention and Public Health, to expose students to preventive medicine and population health in a variety of settings, including a FQHC and a health department.
 COLLABORATIVE RESEARCH—developed a new collaborative research initiative in the department during the last year that has produced 4 NIH submissions and 1 foundation grant proposal.
 FACULTY DEVELOPMENT—2011-- named as the Director of Faculty Development for the department. Developed a new formalized program; including a didactic teaching series, a procedural skills series, and an academic series; also managing a new program for faculty mentoring (2011)
 INFORMATICS—direct supervisor of the department's IT personnel; part of the MUSC Electronic Medical Record Selection Committee (2011)

2011-present
 1999-present

Director, Research Division (Interim)
Clinician Investigator--Research Division

Previous

East Carolina University School of Medicine, Department of Family Medicine, Greenville, North Carolina

1992-1999 Residency Program Director, ECU Rural Residency---responsible for the creation, development, curriculum, and administration of a new rural residency program in the department for 18 residents (6-6-6).
 1990-1999 Assistant Residency Director--responsible for supervising a team of 3 attending physicians, 9 residents, 1 nurse practitioner, and 3 nurses in the Family Practice Center

OTHER PROFESSIONAL PRACTICE EXPERIENCE

Rural clinical practice--Gates County Medical Center, Family Practice, including obstetrics
 Gatesville, North Carolina (National Health Service Corps (1984-87)

HONORS

2011 Featured Research Poster, American Heart Association, EPINAM meeting, Atlanta, GA
 2009 Best Research Paper of the Year--Second Place, Society of Teachers of Family Medicine (STFM), 2009 (King DE, Mainous AG III, Geesey M. Turning back the clock: adopting a healthy lifestyle in middle-age. Am J Med 2007; 120: 598-603.)
 2001-present "Best Doctors in America"
 2007 Who's Who Among America's Teachers
 2007 Featured "Extended Session" Paper, Society of Teachers of Family Medicine (STFM) Research Forum, Annual Meeting, Chicago, 2007
 2006 "Golden Apple" Award Nominee—clinical teaching, MUSC College of Medicine
 2004-2006 Who's Who in Medicine and Healthcare (Marquis)
 2003 "Distinguished Paper" (highest award category), NAPCRG, Banff, Alberta, Canada
 2003 Clinical Research Scholarship recipient (K30 award)
 2001 "Extended Session" award paper, NAPCRG meeting, Halifax, Nova Scotia.

- 1998 Department of Family Medicine Award (ECU), "Best Research Paper."
 1997 Department of Family Medicine Award (ECU), "Best Educational Paper".
 1996 Department of Family Medicine Award (ECU), "Best Research Paper"
 1996 Scientific Progress in Spiritual Research Conference - one of 60 national research scientists chosen to participate in this series of 3 invited conferences, sponsored by the National Institute of Healthcare Research and the John Templeton Foundation.
 1996 National award of \$1,000, Templeton Award for Exemplary Papers, for "Beliefs and Attitudes of Hospital Inpatients about Faith Healing and Prayer." J Fam Prac, 1994; 39(4):349-352.
 1995 One of only 10 recipients nationally to be selected to participate in the Grant Generating Project of the North American Primary Care Research Group (NAPCRG)
 1990 Practitioner Research Award (Third Place), North American Primary Care Research Group (NAPCRG)
 1986 Regional Health Administrator's Award, Public Health Service, for excellence in service and research in a medically underserved area.
 1983 Mead Johnson Award for Graduate Education in Family Practice - national Alternate (20 nationally, 2 alternates)
 1981 Alpha Omega Alpha - National Medical Honorary
 1981 Mosby Book Award - Fourth-year medical student excellence award
 1980 Lange Book Award - Third-year medical student excellence award
 1976 Phi Beta Kappa - National Honorary, collegiate

EDITORIAL POSITIONS

Editorial Positions

--Editor, International Journal of Psychiatry in Medicine (2005-present)

The journal is at the forefront of examining the interface between primary care clinical practice and psychiatry. The journal focuses on publishing original research regarding biomarkers, bioscience, psychiatric symptoms, and the psychosocial/spiritual aspects of clinical medicine. In 2011, the journal expanded from 4 to 8 issues a year.

Editorial Boards:

--Southern Medical Journal (2002--present)

--Special Advisory Committee for Spirituality/Medicine Project (2005-2008)

--International Journal of Psychiatry in Medicine (2002--present)

Federal Policy Boards/Reviewer-HRSA

--2011—National Quality Forum (NQF) Committee—Maintenance and Review: Cardiovascular

--2010--Grant reviewer—Health Resources and Administration (HRSA), Pre-doctoral Training in Primary Care

Reviewer for the following journals (since 2000):

--Preventive Medicine, Southern Medical Journal, American Family Physician, Annals of Family Medicine, European Heart Journal, Circulation, Teaching and Learning in Medicine, North American Primary Care Research Group (NAPCRG), Journal of Gerontology, Journal of General Internal Medicine, International Journal of Psychiatry in Medicine, Archives of Diseases of Childhood, Diabetes Care, American Journal of Cardiology, Obstetrics and Gynecology, Journal of Vascular Research, American Journal of Medicine, European Journal of Clinical Nutrition, Journal of Mixed Methods Research, British Journal of Nutrition, Journal of Diabetes and its Complications

Program Committee:

--North American Primary Care Research Group (2004-2009)

EXTRAMURAL GRANTS

Federal

2011		NIH/NINR \$2,645,516 1 R01 NR012237-01A1 (Kelechi-PI) 4/01/2011-3/31/2015 Preventing Venous Leg Ulcers with Cryotherapy: A Randomized Clinical This study will utilize a randomized controlled clinical trial to test a custom cryotherapy wrap to reduce clinical symptoms, inflammation, and complications of chronic venous disease. King (Co-I) (1.2 calendar months)
2007	\$198,000	NINR — 1R21NR010604 - Theresa Kelechi, PhD, PI (MUSC- Nursing) Cryotherapy for chronic venous disorders. Randomized controlled clinical trial to develop a method to reduce clinical symptoms by using topical cryotherapy to target impaired microcirculation of the lower leg(s) in individuals with venous disease— King Co-I. (10%) (2 years).
2006	\$50,000	NIH –funded Multi-disciplinary Research Center (P5) –pilot study. “Management of Hip Osteoarthritis in African Americans with Co-morbid Conditions: the Effect of Four-Weeks of Manual Physical Therapy in Conjunction with Exercise on the Harris Hip Score.” King Co-I (5%), (2 years).
2005	\$428,000	AHRQ , Lindrooth (PI) R01 . “The Cause and Effect of Hospital Unit Entry and Closure.” This project is a health services research study investigating the causes of hospital unit entry and closure, especially in regard to the opening of specialty heart service facilities. King Co-I (5%), (2 years.)
2004	\$1,281,795	NHLBI, R01 HL076271-01; “Dietary Fiber and Cardiovascular Inflammatory Markers.” A study to evaluate the impact of a fiber supplement and a fiber-enriched diet on biomarkers of inflammation. (PI-King 40%)(3 years)
1997	\$325,000	HRSA Post-graduate Training in Family Medicine (Rural Residency). Principal Investigator. Department of Health and Human Services, (King PI- 40%) (3 years)
1993	\$557,282	HRSA Graduate Training-Rural Residency. Principal Investigator. Bureau of Health Professions, Public Health Service (King PI -40%) (3 years)
1992	\$59,087	R03 -- Treatment of acute bronchitis in primary care. DHHS, Agency for Health Care Policy and Research (AHCPR) (King PI- 20%) (2 years)

State, Foundation, Corporate

2008	\$166,000	Delaware Valley Outcomes Research—Implementation and Analysis of a Provider Education Program regarding Diagnosis and Screening for Bipolar Disorder – King-Co-I, (15%) (2 years).
2008	\$199,000	Takeda Pharmaceuticals-- Investigator-initiated Research Grant. “Pioglitazone and Serum Asymmetric Dimethylarginine (ADMA) in Patients with Diabetes.” A study to examine the effect of pioglitazone on ADMA and other inflammation and oxidative stress biomarkers. (King PI- 15%)(1.5 years).
2004	\$144,874	A Prospective Study on the Effect of Beta Blocker Treatment on C- reactive Protein Levels. AstraZeneca, (King PI- 20%), (2 years).
2003	\$15,000	Spirituality in Psychiatry. George Washington Center for Integration of Spirituality and Health, King Co-I, (5%) (1 year)
2001	\$99,307	Advanced Research Training Grant. American Academy of Family Physicians (King PI- 30%)(2 years).

2001	\$62,000	SC Rural Health Research Center. Are Rural African-Americans at greater risk of undetected or uncontrolled diabetes?(King Co-I 5%) (1 year)
1999	\$3,000	The Effect of Automatic Chaplain Consultation on Medical Inpatients. Principal Investigator. South Carolina Family Practice Research Consortium, AHEC, (King PI-5%)(1 year).
1999	\$61,069	An Evaluation of the Viability and Use of a Health Record for Persons with Diabetes Mellitus. King Co-I, 6% . Lifescan, Inc. (1 year)
1994	\$165,112	Development of computerized record for prenatal care. Co-Principal Investigator. Kate B. Reynolds Charitable Trust. (King-PI, 20%)(2 years)
1994	\$30,000	Computerized Medical Records Grant in Residency Teaching. Principal Investigator. MedicaLogic, Inc. (King-PI,10%) (1 year)
1994	\$1,250	Student/Mentor Research Project, NCAFP
1991	\$2500	Mycoplasma in asymptomatic patients. Medical Diagnostic Technologies, Inc. (King PI, 20%)(1 year)

INTRAMURAL GRANTS

2008	\$5000	Intramural grant from Family Medicine and MUSC Digestive Disease Center to support a study of the impact of fiber on ADMA levels. (PI , 1 year)
2003	\$2500	Health Sciences Foundation grant for support of the Spirituality and Health Group (PI)(1 year)
2001	\$2500	YES grant from MUSC Foundation for collaborative study with Dept. of Pediatrics (Co-PI) (1 year)
2000	\$5000	Steroids in Acute Bronchitis. MUSC Center for Health Care Research (PI , 5%,1 year).

COMMITTEES

National positions

National Quality Forum (NQF) Steering Committee for Endorsement/maintenance of Quality Measures: Cardiovascular Project

2011

North American Primary Care Research Group (NAPCRG)

2004-2009	NAPCRG Program Committee (national)
1998-2002	Pfizer Research Award Committee (national)

Local/Institutional positions

Medical University of South Carolina

2007-present	Physician Liaison for UMA Practice Plan Compliance
2002-present	Member, MUSC Medical School Admissions Committee
2004-2010	Member, CTRC (was the GCRC) Advisory Committee
2005-2007	Member, MUSC Practice Partner (Electronic Medical Record) Advisory Council
2002-2004	Member, fund-raising team (YES Campaign) for the MUSC Foundation
2002-2004	Member, MUSC Faculty Senate
2001-present	Co-Chair and founder, Spirituality and Health Interest Group
2001-2002	Vice Chairman, Trident IRB
2000-2002	Institutional Review Board (IRB)—Trident Medical Center

MUSC- Department of Family Medicine

2007-present Department Compliance
2006-present Academic Promotions Committee
2004,2010 Chair, Patient Flow Committee
2002 Chair, Academic Portfolio Task Force
2001-2002 Chair, Research Personnel Committee
2001 Inpatient Task Force

ECU (Brody) School of Medicine

1997-1999 Medical School Electronic Medical Records Committee
1990-1997 Medical School Admissions Committee

ECU Department of Family Medicine

1994-1999 Executive Committee
1992-1994 Strategic Planning Task Force
1992-1994 Chairman, Rural Health Task Force
1991-1992 Vice Chair, Manuscript Review Committee
1991-1995 Curriculum Committee
1991-1993 Pharmacy and Therapeutics Committee
1990-1993 Chairman, Ambulatory Quality Assurance
1990-Present Member, OB Prenatal Grant Group

Pitt County Memorial Hospital, Greenville, NC

1996, 1991-1993 Cardiac Rehabilitation Physician Advisory Committee

Roanoke-Chowan Hospital, Ahoskie, North Carolina

1989-1990 Chairman, Pharmacy and Therapeutics
1987-1989 By-Laws
1987-1989 Quality Assurance
1987-1989 Chairman, Credentials Committee
1987-1988 Utilization Review
1987-1988 Chairman, Division of Family Practice
1985-1986 Chairman, Department of Primary Care

PROFESSIONAL SOCIETIES

National positions:

1990-present Society of Teachers of Family Medicine
2002-2006 --Co-chair, Spirituality and Health Group (national)

1983-Present North American Primary Care Research Group (NAPCRG)
1988-1990 --Board Member (national), Practitioner Representative
1998- 2002 --Pfizer Awards Review Committee (national)
2004-2009 --Program Committee (national position)

Regional positions:

North Carolina Academy of Family Physicians
1992-1996 Chairman, Research Committee (state NCAFP)
1990-1996 Committee on Research

Other activity and memberships:

2005-present American Heart Association (Epidemiology and Prevention)
1999-present Charleston County Medical Society
1990-1999 Pitt County Medical Society

1985-2007 Christian Medical Dental Society/Association
1990-1999 --Advisor, Student Chapter, ECU
1984-1990 Hertford County Medical Society
1981-Present American Medical Association
1981-Present American Academy of Family Physicians
--Core Content Review –author (national), 2003-2009
--National Annual Review Speaker, 1998

MAJOR TEACHING ACTIVITIES

Undergraduate Medical Education

Family Medicine Clerkship—preceptor for third year students, 1990-present

Doctoring Course—Clinical Methods and Interviewing, 1999-2000

Parallel Curriculum—Evaluator—1999-2001

Clinical Medicine and Spirituality-- established a new Fourth Year medical school elective, emphasizing taking a spiritual history, rounding with chaplains and Hospice; Course Director, 2001-present

Fourth Year Psychiatry-monthly lecture/discussion leader, 2000-2005

Simulation Center- Heart Sounds for medical students; starting IV's for residents, 2010-present

Prevention and Public Health—established a new Fourth Year medical school elective, to expose students to preventive medicine and population health in a variety of settings, including a FQHC and a health department. Course Director, 2011-present

Graduate Medical Education

--Precepting Family Medicine residents-outpatient (10% time)

--Precepting Family Medicine residents-inpatient (10% time)

--Family Medicine Lectures to residents (multi hours per year) and director of the Spirituality and Medicine content (Behavioral Science curriculum) for residents

--Residency Program Director, Rural Residency Program (ECU), 1992-1999

Continuing Medical Education teaching activities (recent)

--Assistant Director of the Course, and participant in CME courses offered by MUSC (Intensive Review, various topics; coordinator for Diabetes/HTN 2010, and for GI disease 2011)

--American Academy of Family Physicians (AAFP) (6-8 hours of workshops/presentations at each site on “COPD/Lung Disease” and “Prevention,” annually at AAFP Board Review Course, Greensboro, NC, 1996-2009)

--Directed a group an ABFM SAM module on Asthma, Kiawah Review, June 2010.

MENTORING

Faculty Mentoring

2009-present: Mentor for three junior faculty: (W Gonsalves MD, promoted to Associate Professor and now named an Assistant Dean; Ivar Frithsen MD MS, Assistant Professor; Eric Matheson MD MS, Assistant Professor)

Medical and Graduate Student Mentoring

2008-2009 Tina Ellis—research advisor for physician's assistant graduate student; “Medication Use for Diabetes, Hypertension, and Hypercholesterolemia from 1988-1994 TO 2001-2006” (Clinical Grad Student Winner, MUSC Student Research Day, November 19, 2008); presented at the American Heart Association (Epidemiology) meeting in Tampa, FL, March 13-14, 2009; publication in Southern Medical Journal.

2004-2007 Jeremy Crisp—medical student; recipient of a MUSC Graduate Studies Summer Research Fellowship, for the study “Curriculum Survey of FP Residency Programs”----- second place award, MUSC Student Research Day, Nov 5, 2004;

- paper published; King DE, Crisp J. Spirituality and healthcare education in family practice residency programs. Family Medicine 2005;37(6):399-403.
- Poster presented at the Annual Meeting of the North American Primary Care Research Group, for Quebec City, Quebec, October 2005; "Factors Affecting Blood Pressure Control in Outpatients", Southern Med J 2006; 99(11): 1221-1223.
- Paper published, "Case Discussion—Do Not Neglect the Spiritual History," Southern Med J 2007.
- 2005 Karen Donawerth—Physical Therapy graduate student at Elon University in NC, summer research intern; co-author, poster presented at the annual meeting of the North American Primary Care Research Group, Quebec City, Quebec, October 2005 ("Factors Affecting Blood Pressure Control in Outpatients").
- 2003 Josh Watson, Caroline Stephens—advisor for third year medical students
- 2002 Brian Wells, MD (FP resident), Projects: (1) "Prednisone in Acute Bronchitis," (presented at the annual meeting of NAPCRG, Nov 2002) (2) "Do Physicians take a Spiritual History before Recommending Gastrostomy Tubes or Do Not Resuscitate?" (AFP journal), and 3) King DE, Wells BJ. End of life issues and spiritual histories. Southern Med J, 2003, 96(4): 391-393.
- 2001 Luis Insignares, MD (FP resident), "Evaluation of a Pencil and Paper Direct Medical Translator," presented at FP Resident Research Day, MUSC/Trident
- 2000 Beth Platz (MS_II), "Automatic Chaplain Consultation: a Randomized Trial," presented at MUSC Student Research Day; research letter published in SMJ, 2003.
- 1998 Mark Albertino (Post-grad), ECU
- 1997 John Nardella (Post-grad), ECU
- 1995 Jody Osborne (Post-Grad), presented at Student Research Day, ECU
- 1994 Carol Benson (MS-II), ECU
- 1993 Elizabeth Boyer (MS-II), presented at Student Research Day, ECU

MAJOR CLINICAL INTERESTS AND RESPONSIBILITIES

Family Medicine, acute and chronic care of children and adults, with an emphasis on prevention (included obstetrics 1984- 2004). Responsibilities include call, outpatient, and inpatient services (30-40% time).

HOSPITAL APPOINTMENTS

1999-Present	Active, Medical University Hospital, Charleston, SC
1999-Present	Active, Trident Regional Hospital, Charleston, SC
1990-1999	Pitt County Memorial Hospital, Greenville, NC
1984-1990	Roanoke-Chowan Hospital, Ahoskie, NC

PUBLICATIONS

Peer-Reviewed

1. King DE, Mainous Ag III, Matheson EM, Everett CJ. Impact of healthy lifestyle on mortality in people with normal blood pressure, LDL cholesterol, and C-reactive protein. EJCPR 2011, in press.
2. King DE. Atherosclerosis—Challenging the assumptions. Southern Med J, in press.
3. Matheson EM, King DE, Everett CJ. Healthy lifestyle habits and mortality in overweight and obese Individuals. JABFM 2011, in press.
4. Post RE, Mainous AG III, King DE. Dietary fiber for the treatment of type 2 diabetes mellitus: a meta-analysis. JABFM 2011, in press.
5. King DE, Player M, Everett CJ. The impact of pioglitazone on ADMA and oxidative stress markers in patients with type 2 diabetes. Primary Care Diabetes 2011, in press.
6. King D, Freedy J, Carek P. Editorial: A New Milestone for IJPM. IJPM. 2011;41(1):1-2.
7. Matheson EM, Mainous AG III, Everett CJ, King DE. Tea and coffee consumption and MRSA nasal carriage. Ann Fam Med; 2011;9: 299-304.
8. Kelechi T, Zapka J, Mueller M, King DE. The effect of a cryotherapy gel wrap on the

- microcirculation of skin affected by Chronic Venous Disorders. J Advanced Nurs 2011; Jun 1365-2648.
9. Mainous AG III, Baker R, Everett CJ, King DE. Impact of a policy allowing over-the-counter statins. Qual Prim Care; 2010;18(5):301-6.
 10. Anandarajah G, Craigie F, Hatch R, Kliewer S, Marchand L, King DE, Hobbs R, Daaleman T. Towards competency-based curricula in patient-centered spiritual care: recommended competencies for family medicine resident education. Academic Med; 2010; 85:1897-1904.
 11. King DE, Player MS. Cardiovascular disease in older adults: the role of fiber. Aging Health, 2010, 6(2): 211-216.
 12. Everett CJ, King DE, Player MS, Matheson EM, Post RE, Mainous AG III. Association of urinary polycyclic aromatic hydrocarbons and serum C-reactive protein. Environmental Research 2010; 110:79-82.
 13. Player M, Mainous AG III, Diaz V, King DE. Moderate alcohol intake is associated with decreased risk of insulin resistance among individuals with vitamin D insufficiency. Nutrition 2010; 26:100-105.
 14. Gangemi JD, King DE. The potential for nutrigenomics in prevention of metabolic syndrome. J SC Academy of Science 2009; 6(3).
 15. King DE, Ellis TM, Everett CJ, Mainous AG III. Medication use for diabetes, hypertension, and hypercholesterolemia from 1988-1994 to 2001-2006. South Med J 2009; 102(11):1127-32.
 16. King DE, Ranwala D, Gangemi D. Grapes' antioxidant properties and their potential for widespread nutraceutical use. J Applied Sci and Tech, 2009, in press.
 17. King DE. Inflammation and C-reactive protein: does magnesium play a role? Magnesium Research, 2009; 22(2):57-59.
 18. King DE, Mainous AG III, Carnemolla M, Everett CJ. Adherence to healthy lifestyle habits in US adults, 1988-2006. The American Journal of Medicine 2009, 122: 528-534.
 19. King DE, Delegge M. The impact of fiber supplementation on ADMA levels. Nutrition Clin Pract 2009; 24:80-83.
 20. Mainous AG III, Diaz VA, King DE, Everett CJ, Player MS. The relationship of hepatitis antibodies and elevated liver enzymes with impaired fasting glucose and undiagnosed diabetes. J Am Board Fam Med 2008; 21: 497-503.
 21. Mainous AG III, Everett C, Diaz V, King DE, Player M. Importance of a patient's personal health history on assessments of future risk of coronary heart disease. J Am Board Fam Med 2008; 21: 408-413.
 22. Matheson E, Mainous AG, King DE. The association between hay fever and stroke in a cohort of middle aged and elderly adults. J Am Board Fam Med 2008; 21(3):179-183.
 23. King DE, Mainous AG III, Geesey. Adopting moderate alcohol consumption in middle-age: subsequent cardiovascular events. Am J Med 2008; 121:201-206.
 24. King DE, Mainous AG III, Geesey M. Variations in L-Arginine intake follow Demographic and lifestyle factors that may impact cardiovascular risk. Nutrition Research 2008; 28:21-24.
 25. Gillum RF, King DE, Obesian TO, Koenig HG. Frequency of attendance at religious services and mortality in a U.S. national cohort. Annals Epidemiol 2008; 18(2): 124-129.
 26. King DE, Mainous AG III, Egan BM, Woolson RF, Geesey MS. The effect of psyllium fiber supplementation on C-reactive protein: the Trial to Reduce Inflammatory Markers (TRIM). Annals of Family Medicine 2008; 6:100-106.
 27. Everett CJ, King DE, Wells BJ, Frithsen IL, Mainous 3rd AG. Serum magnesium and cancer mortality. In F. Columbus ed. Nutrition for the middle-aged and elderly. Nova Science Publishers, Inc. Hauppauge, NY, 2007.
 28. King DE, Mainous AG III, Egan BM, Player M, Geesey MS. The use of statins and blood pressure. Am J Hypert 2007; 20:937-941.

29. Player M, Mainous AG III, King DE, Geesey M. Psychosocial factors and progression from prehypertension to hypertension or coronary artery disease. Annals of Family Medicine 2007; 5:403-411.
30. King DE, Mainous AG III, Geesey M, Ellis T. Magnesium intake and C-reactive protein levels in children. Magnesium Research 2007; 20(1): 32-36
31. King DE, Egan BM, Woolson RF, Mainous AG III, Al-Solaiman Y, Jesri A. Effect of a high-fiber diet vs. a fiber-supplement diet on C-reactive protein. Arch Int Med 2007;167:502-506.
32. King DE, Crisp JR. Case Discussion: do not neglect the spiritual history. South Med J, 2007;100(4):426
33. King DE, Mainous AG III, Geesey M. Turning back the clock: adopting a healthy lifestyle in middle-age. Am J Med 2007; 120: 598-603.
34. King DE. Early use of insulin in type 2 diabetes—the time is now. South Med J 2007;100(2):127.
35. King DE, Everett CJ, Mainous AG III, Liszka HA. Long-term prognostic value of resting heart rate in people with prehypertension. Am J Hypert 2006;19(8):796-800.
36. King DE, Mainous AG III, Geesey M, Egan BM, Rehman S. Magnesium supplement intake and C-reactive protein levels in adults. Nutrition Research 2006; 26(5): 193-196.
37. King DE. Teaching Points—A 2-minute Mini-lecture. Menopause and Life Transitions. The Teaching Physician 2006;5(2):3-4.
38. King DE, Crisp JR. Factors associated with poor blood pressure control among outpatients. South Med J 2006; 99(11): 1221-1223.
39. King DE. Spirituality, health, and medical care of adults. South Med J 2006; 99(10):1166-1167.
40. Everett CJ, King DE. Serum magnesium and the development of diabetes. Nutrition 2006; 22: 679.
41. King DE, Egan BM, Mainous AG III, Geesey ME. The effect of extended-release metoprolol succinate on C-reactive protein levels in persons with hypertension. J Clin Hypertens 2006 Apr;8(4):257-260.
42. Hueston WJ, King DE, Geesey ME. Serum biomarkers for cardiovascular inflammation in subclinical hypothyroidism. Clin Endocrinology 2005; 63(5):582-587.
43. Cummings DC, King DE, Mainous AG III. Combining serum biomarkers: the association of CRP, insulin sensitivity, and homocysteine with cardiovascular disease in the general U.S. population. Europ J of Cardiovasc Prev and Rehab 2005;13(2):180-185.
44. King DE, Cummings D, Whetstone L. Attendance at religious services and subsequent mental health in midlife women. IJPM 2005; 35(3): 287-297.
45. King DE, Mainous AG III, Egan BM, Woolson RF, Geesey ME. Fiber and C-reactive protein in diabetes, hypertension, and obesity. Diabetes Care 2005; 28(6): 1487-1489.
46. . King DE. Dietary fiber, inflammation, and cardiovascular disease. Molecular Nutr Food Research 2005; 49(6): 594-600.
47. Liszka HA, Mainous AG III, King DE, Everett CJ, Egan BM. Prehypertension and cardiovascular morbidity. Ann Fam Med 2005; 3:294-299.
48. King DE, Mainous AG III, Geesey M, Woolson RF. Dietary magnesium and C-reactive protein levels. JACN 2005;24(3): 166-171.
49. King DE, Crisp J. Spirituality and healthcare education in family practice residency programs. Family Medicine 2005;37(6):399-403.
50. Mainous AG III, Everett CJ, Liszka# H, King DE, Egan BM. Prehypertension and cardiovascular mortality in a nationally representative cohort. Am J Cardiol 2004; 94: 1496-1500.
51. King DE. Publication in the field of spirituality, religion, and medicine: an uphill battle? South Med J 2004, 97(12):1150-1151.
52. Mainous AG III, King DE, Garr DR, Pearson WS. Race, rural residence and control of diabetes and hypertension. Ann Fam Med 2004; 2:563-568.

53. King DE, Taylor# M, Mainous AG III. Clinical use of C-reactive protein for cardiovascular disease. South Med J 2004;97(10): 985-988.
54. Wells BJ, Mainous AG III, King DE, Gill JM, Carek PJ, Geesey ME. The combined effect of transferrin saturation and low-density lipoprotein on mortality. Fam Med 2004;36(5):324-329.
55. King DE, Egan BM, Mainous AG III, Geesey ME. Elevation of C-reactive protein in people with prehypertension. J Clin Hypertension 2004;6(10):562-568.
56. Dickerson L, King DE. Management of non-ulcer dyspepsia. Am Fam Physician 2004, 70:107-114.
57. Mainous AG III, Wells BJ, Everett CJ, Gill JM, and King DE. Association of ferritin and lipids with C-reactive protein. Am J Cardiol 2004; 93:559-562.
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96. King DE, Muncie HL: High prevalence of Mycoplasma pneumoniae in outpatients with respiratory symptoms: a new rapid detection method. J Fam Prac 1991; 32(5):529-31.
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98. Muncie HL, King DE, DeForge B: Treatment of mild to moderate pain of acute soft tissue injury: diflunisal vs. acetaminophen with codeine. J Fam Prac 1986; 23(2):125-7.
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100. King DE, Muncie HL, Jackson FR, Sobal J: Indicators of immediate postpartum iron stores for iron supplementation. Presented at the Annual Meeting of the North American Primary Care Research Group, April 1983; Fam Prac Res J 1985; 5(2):88-92.

Scholarly Books:

101. Koenig HG, King DE, Carson VB.. Handbook of Religion and Medicine, 2nd Edition,

Oxford University Press, 2011, in press.

102. King DE, Hunter MH, Harris J (Book). Dealing with the Psychological and Spiritual Aspects of Menopause: Finding Hope in the Mid-Life. New York, Haworth Press, 2005.
103. King DE (Book). Faith, Spirituality, and Medicine: Toward the Making of the Healing Practitioner. New York, Haworth Press, 2000.

Chapters in Scholarly Books and Monographs:

104. King DE. (Chapter) Personal reflections. In: Faith, Medicine, and Science. Eds.: Jeffrey Levin and Harold G. Koenig; Haworth Press, New York, 2005.
105. Hunter M, King DE. (Chapter) Non-hormonal, psychological, and spiritual facets of menopause. In: Women's Health in Mid-Life, JoAnn Rosenfeld, Ed.; Cambridge University Press, 2004.
106. King DE (chapter). Spirituality and Medicine. In: Fundamentals of Clinical Practice, Second Edition. Eds Mengel, Holleman, Fields. New York, Plenum, 2002.
107. King DE, Hunter M. (Chapter) Psychological and Spiritual Aspects of Menopause. In: Clinics in Family Practice; Philadelphia, W.B. Saunders; 2002.
108. Hunter M, King DE. (Chapter) Management of COPD. In: Respiratory Disease in Primary Care, Hueston, Ed.; McGraw Hill, New York, 2002.

Non Peer-Reviewed

1. King DE, Peragallo-Dittko V, Polonsky WH, Prochaska JO: Strategies for improving self-care. Patient Care, February 15, 1998, 91-111.
2. King DE, Bremer CC: Why not do research in your office? NC Fam Phys, Fall 1992, 43(4): 28-29.

PRESENTATIONS

Invited Presentations (selected)

1. King DE Invited lecture, Healthy Habits Decline and the Impact on Public health," Wayne State School of medicine, Department of Family Medicine and Public Health Sciences, May 27, 2011.
2. King DE. Invited Lecture, "The Benefits of Healthy Habits throughout Adulthood," MeadWestvaco Company, Charleston, September 21, 2010.
3. King DE. Grand Rounds, USC School of Public Health, "Healthy Lifestyles and their Impact on Public Health," December 2009.
4. King DE. Keynote Speaker. Diabetes Update. "Healthy Habits for Healthy People.' MAHEC conference, Asheville, NC, May 5, 2009.
5. King DE. Keynote address, "Following the Healthy Habits," NC AHEC "Healthy People, Healthy Communities" conference, Greensboro, NC, October 24, 2008.
6. King DE. Summer Research Seminar Course on Spirituality, Theology and Health, Duke Medical Center. July and August sessions, 2008-present.
7. King DE. Plenary. Annual Meeting of Region III American Dietetic Association Educators. Charleston, SC. March 27, 2008.
8. King DE. Keynote address, "Living a Healthy Lifestyle-Turning Back the Clock." NC Statewide AHEC Directors conference, Hendersonville, NC, October 24, 2007.
9. King DE. Featured on national web pod cast on Healthy Lifestyles (fitnessrocks.org).
10. King DE. Featured on the nationally syndicated radio program "Healthy Living," Cooper Aerobic Center, with host Todd Witthorne, August 4, 2007.
11. King DE. Keynote Address, First Annual Conference on Aging, Mountain AHEC, Asheville, NC; "Healthy Aging," June 15, 2007.
12. King DE. Invited lecture, American College for the Advancement of Medicine, May 13, 2007, Chicago. "Magnesium (and other nutrients) and C-reactive Protein."
13. King DE. Invited lecture, Health Services Series, MUSC, "Spirituality and Health: What is the Evidence?" December 7, 2006.
14. King DE. Annual James G. Jones Lecture, "Family Medicine Research: The Truth is out

There,” Department of Family Medicine, Brody School of Medicine, East Carolina University, November 2, 2006.

15. King DE. SC Dietetic Association Annual Convention, Keynote Speaker, “Dietary Factors in Cardiovascular Inflammation,” October 14, 2005.
16. King DE. SC Academy of Family Physicians Meeting. “Questions Patients Ask About Pregnancy,” Myrtle Beach, SC, July 22, 2005.
17. King DE. Invited Speaker, Grand Rounds, Pinnacle Health Hospital System. “Practical Approach to Spirituality and Health,” Harrisburg, PA, May 20, 2004.
18. King DE. Invited Speaker, The Importance of Attentiveness to Spirituality in the Clinical Setting, and Update on Recent Research,” University of South Carolina School of Medicine, Second year CAM series, January 22, 2004.
19. King DE. Invited Speaker, “Spirituality and End of Life Care,” Annual Meeting of the SC Assoc. of Community Residential Programs, Myrtle Beach, SC., October 17, 2003
20. King DE. Invited Speaker, “Spirituality and End of Life Care,” SC Assoc. of Community Residential Programs, Charleston, SC., May 1, 2003.
21. King DE. Presentation. Review of Research in Spirituality and Medicine. Annual Meeting of the SC Medical Association, April 25, 2003, Charleston, SC.
22. King DE. Invited Speaker. The Role of Spirituality in Clinical Encounters. Annual Meeting of the South Carolina Osteopathic Medical Society. April 12, 2003.
23. King DE. Keynote address: Spirituality and Health. For the New Jersey Academy of Family Physicians Annual Meeting, Long Branch, NJ, June 8, 2002.
24. King DE. Keynote Address: Aging and Mental Health Conference, “The Importance of Spirituality Mental Health Care,” sponsored by the Aurora Foundation; Columbia, SC, March 15, 2002.
25. King DE. Keynote Address, regional meeting of the International Occupational Therapists for Christ; Waxhaw, NC, Sept 29, 2001.
26. King DE. Guest on “Beyond Reason,” a nationally syndicated radio show in Nashville, TN, May 17, 2001.
27. King DE. Invited Speaker for the Annual Clinical Focus Lecture, “Antibiotic Treatment of Respiratory Infections,” AAFP, Kansas City, April 26, 2001
28. King DE. Keynote Address, Annual Meeting of DHEC Social Work, “Is Attentiveness to Spirituality Important?” Myrtle Beach, SC, April 19, 2001;
29. King DE. Invited Grand Rounds, University of Maryland, Department of Family Medicine, “Update on Research in Religious Commitment and Health,” January 18, 2001.
30. King DE. Speaker, Valley Regional Health System, January 17, 2001, “The Ethics of Spiritual Inquiry in the Clinical Encounter.”
31. King DE. Speaker, Regional Conference, “The Health and Healing of Persons,” Institute of Religion and Health, Charleston, SC, October 7, 2000.

Peer-Reviewed Presentations—National/International conferences (since 2000)

1. King DE, Matheson EM, Mainous AG III, Everett CJ. Impact on Mortality of Healthy Lifestyle habits in Low Risk Populations. Presented at the American Heart Association – Nutrition/Epidemiology meetings, March 23, 2011, Atlanta, GA.
2. King DE, Player M, Everett CJ. The impact of Pioglitazone on ADMA and Oxidative Stress Markers in Patients with Diabetes. Presented at the Annual Meeting of the North American Primary Care Research Group, Nov 14, 2010, Seattle, WA.
3. Matheson E, King DE, Everett CJ. The Association between Healthy Lifestyle Habits and Mortality in Obesity. Presented at the Annual Meeting of the North American Primary Care Research Group, Nov 14, 2010, Seattle, WA.
4. King DE, Berk L, Nelson B, Prowse M, Shaw S. The Association between Stress, Religiosity, and CVD Risk. Presented at the Annual Meeting of the North American Primary Care Research Group, Nov 17, 2009, Montreal, Quebec, CA.
5. King DE, Ellis T, Everett CJ, Mainous AG. Medication Use for Diabetes, Hypertension, and Hypercholesterolemia, 1988-2006. Poster at the 49th American Heart Association

Cardiovascular Disease, Prevention and Epidemiology Meeting, Palm Harbor, Florida, March 13-14, 2009.

6. King DE, Arch G Mainous III, Mark Carnemolla. Healthy Lifestyle Trends in the U.S., 1988-2004, Evidence of Worsening Health Habits. Presented at the Annual Meeting of the North American Primary Care Research Group, Puerto Rico, November 18, 2008.
7. Anandarajah G, Craigie F, Daaleman T, Hatch R, Hobbs R, King DE, Kliewer S, Marchand L. Developing Core Competencies in Spirituality and Patient Care for Family Medicine Residency Education. Annual STFM Meeting, Baltimore, Maryland, April 29-30, 2008.
8. King DE, Mainous AG III, Geesey M. Adopting Moderate Alcohol Consumption in Middle Age: Subsequent Cardiovascular Events. Poster at the 48th American Heart Association Cardiovascular Disease, Prevention and Epidemiology Meeting, Colorado Springs, Colorado, March 11, 2008.
9. King DE, Mainous AG III, Egan BM, Woolson RF, Geesey M. The Effect of Psyllium Fiber Supplementation on C-reactive Protein: The Trial to Reduce Inflammatory Markers. Presented at the Annual Meeting of the North American Primary Care Research Group, Vancouver, Canada, October 21, 2007.
10. King DE, Mainous AG, Egan BM, Woolson RF, Geesey M. Effect of a High-fiber diet vs. a fiber supplemented diet on C-reactive protein, Annual Meeting of the Society of Teachers of Family Medicine, Chicago, April 28, 2007.
11. King DE, Mainous AG III, Geesey M. Turning back the clock: the effect of adopting a healthy lifestyle in middle age. Presented at the Annual Meeting of the North American Primary Care Research Group, Tucson, Arizona, October 17, 2006.
12. King DE, Egan BM, Mainous AG III, Geesey ME. The effect of extended-release metoprolol succinate on C-reactive protein levels in persons with hypertension; Annual Meeting of the Society of Teachers of Family Medicine, San Francisco, May 7, 2006.
13. King DE. Dietary Fiber and C-reactive Protein in People with Diabetes, Hypertension, and Obesity, Annual Meeting of the North American Primary Care Research Group, Quebec City, Quebec, Canada, October 16, 2005.
14. King DE, Crisp J. Spirituality and Healthcare Education in Family Practice Residency Programs. Annual Meeting of the Society of Teachers of Family Medicine, New Orleans, May 3, 2005.
15. King DE, Mainous, AGIII, Geesey M. Dietary Magnesium and Elevation of C-reactive Protein Levels. Annual Meeting of the North American Primary Care Research Group, Orlando, Florida, October 11, 2004.
16. King DE, Egan BM, Mainous AG, Geesey M. Research Forum. Elevation of C-reactive Protein in People with Prehypertension. Annual Meeting of the Society of Teachers of Family Medicine, May 16, 2004, Toronto, Canada.
17. King DE, Egan BM, Geesey M. Dietary Fat, Fiber, and C-reactive Protein. Distinguished Paper, presented at the Annual Meeting of the North American Primary Care Research Group, October 27, 2003, Banff, Alberta, Canada.
18. King DE, Blue A, Mallin R, Thiedke C. Assessment of a Spiritual History-Taking Curriculum in First Year Medical Education. Poster Presentation, Annual Meeting of the Society of Teachers of Family Medicine, September, 2003, Atlanta, GA.
19. King DE, Pearson WS. Religious Attendance and Continuity of Care. Presented at the Research Conference of the International Center for the Integration of Health and Spirituality, Bethesda, MD (NIH Natcher Center), April 1, 2003
20. King DE, Hueston WJ, Mainous AG. Prednisone in Acute Bronchitis. Presented at the Annual Meeting of the North American Primary Care Research Group, New Orleans, LA, November 18, 2002.
21. Weismiller D, King DE, Harris J. Beating the Odds: Clinician Investigators in Family Medicine. Workshop presented at the annual meeting of the North American Primary Care Research Group, Halifax, Nova Scotia, Canada, Oct 15, 2001.
22. King DE, Mainous AG, Steyer TE, Pearson W. C-reactive protein, Religious Attendance, and Cardiovascular Inflammatory Markers, presented at a special Extended Session of the

annual meeting of the North American Primary Care Research Group; Halifax, Nova Scotia, Canada, Oct 15, 2001.

23. King DE, Mainous AG, Yu H. Uncontrolled and undiagnosed hypertension: are rural African Americans at greater risk? Presented at the Annual Meeting of the North American Primary Care Research Group, Amelia Island, Florida, November 6, 2000.

24. King DE, Matthews DA, Olive K. Workshop on Spirituality and Health, WONCA Europe meeting, Vienna, Austria, July 3, 2000.

EXTRAMURAL PROFESSIONAL ACTIVITIES (national)

2005-present	Advisory Board, Boehringer Ingelheim Pharmaceuticals, Respiratory (COPD)
2000-2005	Editorial Advisory Board, Haworth Pastoral Press, Binghamton, NY
2000-2002	National Advisory Board, EthicAd.org, Atlanta, GA
1996-1999	National Council, National Diabetes Education Initiative, Secaucus, NJ
1998-1999	Accreditation Council for Graduate Medical Education, Residency Review Committee for Family Practice, Site Visitor, Chicago, IL

COMMUNITY AND INTERNATIONAL SERVICE

2005-present	Volunteer at the ECCO CARES free community clinic, monthly
August 2005	Medical mission, led a 7-person medical team from MUSC and Trident Medical Center to Quito, Ecuador for 1 week, with First Baptist Church Mount Pleasant
March 2004	Medical Ministry International, led a 7-person medical team from MUSC to Peru for 1 week
March 2001	Medical Ministry International, led a 6-person medical team from MUSC to Ecuador for 2 weeks
1996-1999	Annual Charity Basketball Game (player/fund-raising, Med-Law Classic)
July 1997	Medical Ministries International, 2 weeks, Jamaica
Feb 1995	Medical Group Mission, 2 weeks, Jamaica
May 1993	Medical Group Mission, 2 weeks, Jamaica
1991-1995	Baptist Medical/Dental Van, North Carolina, Physician Volunteer
1991-1995	Greenville Community Shelter Clinic, Physician Volunteer
Oct 1990	Medical Group Mission, 2 weeks, Jamaica
Nov 1988	Medical Group Mission, 2 weeks, Jamaica
1987-1990	Ahoskie Annual Charity Basketball Game, Organizer (raised \$1500 annually for the Battered Women's Shelter)
May 1986	Christian Medical Society Medical Group Mission, 2 weeks, Jamaica
1985-Present	Christian Medical Dental Association
1985-1990	Gates County Lions Club, Gates County Rural Health Services, Gates County High School Health Professions Club and other local groups, Speaker
1985-1990	S.A.F.E. (program for sheltering battered women), Physician Board Member
October 1984	Roanoke-Chowan Area Breast Cancer Awareness Week in conjunction with local health department