

THOMAS K. ZINK, MD

CURRICULUM VITAE



ADDRESS

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EDUCATION

University of Missouri - Kansas City, School of Medicine
Combined Baccalaureate/Doctorate of Medicine Program
Kansas City, Missouri
1974 - 1980
GPA 3.72

DEGREES

Doctorate of Medicine
Bachelor of Arts in Biology

HONORS

Dean's Academic Honor List
University of Missouri - Kansas City
College of Arts and Sciences
Academic Years: 1974-75 and 1975-76

University Scholar
University of Missouri - Kansas City
School of Medicine
Academic Years: 1975-76, 1976-77 and 1977-78

The Snake of Aesculapius Member
"Most Outstanding in Academic and Clinical Achievement."
University of Missouri - Kansas City School of Medicine
Academic Year: 1978 -79

Certificate of Appreciation for Outstanding Performance
Missouri Academy of Family Physicians
Academic Year: 1979 - 80

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STUDENT APPOINTMENTS

Liaison to the Academies

American and Missouri Academies of Family Physicians
Truman Medical Center and UMKC School of Medicine
Academic Year 1979 - 80

Chairperson, Students for Primary Care Medicine

University of Missouri - Kansas City School of Medicine
Academic Year: 1977 -78

POSTGRADUATE TRAINING

Internship in General Surgery

University of Alabama-Birmingham
University Station, Birmingham, Alabama
1980 - 1981

Anatomic Clinical Pathology Resident

St. John's Mercy Medical Center
St. Louis, Missouri
1981 - 1982

Emergency Medicine Practice Track Board Preparation

American Board of Emergency Medicine
1982 - 1987

LICENSING

State of Missouri

Board of Registration for the Healing Arts
Physician and Surgeon in Good Standing
May 1982 to Present

BOARD CERTIFICATION

Diplomate of National Board of Medical Examiners

July 1981

Diplomate of the American Board of Emergency Medicine

March 1988 (Retired 2000)

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PROFESSIONAL HONORS

Senior Medical Advisor, Missouri Department of Public Safety, Office of Homeland Security,
May 2009 – Present

Leader, U.S.-Indian Business Council & U.S. Chamber of Commerce Health Mission, Nov, 2007

Member, Prudential Healthcare National Clinical Quality Improvement Committee, 1996-98

Co-Chair, Prudential Healthcare National Health Promotion Advisory Council, 1995-1996

Member, Prudential Healthcare National Leadership Institute Board, 1995-1997

Member, U.S. Health Care Finance Administration (HCFA) Leadership Council, 1992-1993

Fellow, American College of Emergency Physicians, September 1989-1999 (Ret. 2000)

Member, Society of Teachers of Emergency Medicine (STEM), 1985-1989

CAREER HISTORY

Saint Louis University – School of Public Health, Institute for BioSecurity

St. Louis, MO

May 2008 – Present

Adjunct Associate Professor & Director of Project EQUIPP

Assignments and Accomplishments

- Founding Director of Project EQUIPP (Equal Immunization Policies and Practices) – the combined advocacy and translational research initiative to improve community resilience through emergency responder immunization against vaccine-preventable diseases.
- Informed the national discussion on anthrax preparedness which resulted in new U.S. [CDC] recommendations that support offering the anthrax vaccine to local, civilian emergency responders before exposure rather than as a countermeasure afterwards.
- Visiting faculty for SLU Bioterrorism & Emerging Infectious Disease Course 2007-08
- Author of unsolicited grant proposals to U.S. HHS Assistant Secretary for Preparedness and Response and CDC Office of Public Health Preparedness and Response which scored high on merit and fundability.
- Completed immunization analysis for Missouri Homeland Security Regional Response System (HSRSS) and created “Train the Trainer” educational modules for Missouri HSRSS on “Biodefense through Vaccination.”

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CAREER HISTORY (CONTINUED)

Zink Consulting

West Chester, PA

December 2007 – Present

Independent Consultant – Healthcare Quality, Immunization Practices, and Public Policy

Accomplishments

- Co-Authored WorldDoc Clinical Quality Improvement Program and guided 2010 WorldDoc Health Information Product (HIP) recertification by NCQA (National Committee for Quality Assurance).
- Revamped WorldDoc Health Risk Appraisal content and scoring logic.
- Created Condition Management Scoring protocols and edited WorldDoc Medical Library

Consulting Services

- Healthcare, Vaccine, and Biodefense Policy development and advocacy
- Federal Agency monitoring and interaction (e.g. U.S. Departments of Homeland Security, Defense, and Health & Human Services (CDC, FDA, NVPO, HRSA))
- Medical Affairs/Marketing strategic planning and implementation (including scientific publication/media outreach projects)
- Biopharmaceutical Mergers and Acquisition Due Diligence
- Thought leader relationship development and management
- Total Quality Management problem-solving and Continuous Quality Improvement assessments (including NCQA accreditation preparation)
- Clinical content research, review and editing
- Medical Claims mapping/analysis and CPT coding review
- Past and Current Clients include:
 - WorldDoc, Inc.
 - MedImpact
 - L&Q International, Inc.

Emergent BioSolutions, Inc.

Gaithersburg, MD

May 2006 – Jan 2008

Chief Medical Officer

Senior VP of Clinical, Medical & Regulatory Affairs

Assignments and Accomplishments

- Reorganized, strengthened, and managed the departments of three separate companies after merger/acquisition. These included Clinical Development/Medical/Regulatory Affairs, Public Policy, Quality Assurance & Compliance (QA/QC) and Environment, Health & Safety (EHS).

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CAREER HISTORY (CONTINUED)

- Successfully and rapidly recruited high quality personnel to SVP/VP/Director roles in Clinical Development, Regulatory Affairs, Corporate QA/QC and EHS.
- Provided oversight and direction for the Phase 2a clinical development plan for typhoid vaccine candidate in adults (India and U.S.).
- Reorganized and provided oversight for the Phase 1 and 2 clinical trial design, analysis, and pharmacovigilance for Hepatitis B therapeutic vaccine candidate.
- Energized Medical Affairs relationships with external clinical, scientific, academic and public health leaders.
- Strengthened Company clinical credibility with the U.S. Department of Defense Science Board, MILVAX, and Armed Forces Epidemiological Board regarding troop readiness.
- Guided the successful sBLA (Supplemental Biologic License Application) submissions to the FDA for anthrax vaccine adsorbed (Biothrax®) which resulted in improved marketplace acceptance due to better label indications for the route of administration, reduced dosage schedule, and 4 year expiration dating.
- Expedited the completion of the India Drugs Controller General (IDCG) dossier for the anthrax vaccine (Biothrax®) ahead of schedule and under budget.
- Successfully defended the Biothrax IDCG Dossier before the India Department of Defense Research and Development resulting in its approval for use in 3.7M Indian army troops.
- Directed the completion of the Biothrax Clinical Technical Document (CTD) for the European Medicines Agency Marketing Authorization and in less than 6 months.
- Led the U.S. Chamber of Commerce Medical Mission to India and enhanced the Company relations with the Indian Minister of Health
- Pioneered relations with Japan National Institute of Infectious Diseases Surveillance Center.
- As the sole clinician on the Executive Management Team, prepared the Company for its successful Initial Public Offering (EBS; NYSE) – anticipated and addressed clinical/scientific questions from the media, investment community and the SEC.

Emergent BioSolutions Appointments

- Executive Management Committee
- Quality and Regulatory Management Committee (Chair)
- Government Affairs Management Committee (Vice Chair)

GlaxoSmithKline Vaccines USA

Philadelphia, PA

Sep 1999 - Dec 2004

Senior Director of Immunization Practices and Scientific Affairs

(Promoted from Medical Director, Managed Markets in January 2001)

GSK Duties and Accomplishments

- Created and led the multi-disciplinary immunization policy team charged with promoting high quality vaccination policies/practices in the \$6 Billion U.S. market.

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CAREER HISTORY (CONTINUED)

- Developed and managed medical affairs relations with external therapeutic, scientific and public health thought leaders.
- Informed national discussions that led to a preference statement for adult combination vaccines from the U.S. ACIP (Advisory Committee on Immunization Practices) giving a decided advantage to Twinrix, the only U.S. combined Hepatitis A and B vaccine.
- Successfully ushered Pediarix (combination vaccine of DPT, Hep B, IPV) through CDC ACIP approval process into the U.S. Vaccine for Children (VFC) marketplace and gained endorsement on safety and efficacy of Pediarix® from the American Academy of Pediatrics [Red Book] Committee on Infectious Diseases.
- Successfully led GSK's vaccine policy operations to rapidly place Pediarix into the U.S. Vaccine for Children (VFC) program giving this combination vaccine access to greater than 60% of the 12 million dose market in record time.
- Spearheaded the successful marketplace efforts to win U.S. national recommendations for Universal Childhood Immunization (age 1- 35 Months) against Hepatitis A
- Initiated the Global dialogue about the continued resilience of Pertussis infections despite significant childhood immunization programs which resulted in a multi-national consensus statement calling for the consideration of adolescent boosting vaccination against Pertussis.
- Directed disease-modeling and cost-effective analysis work groups resulting in articles published in refereed journals.
- Company representative to the U.S. HHS Health Resources Service Administration (HRSA) regarding vaccine safety, the vaccine injury compensation program and the vaccine adverse event reporting system.
- Liaison to the CDC National Immunization Program (NIP) and U.S. HHS National Vaccine Program Office (NVPO).
- Clinical interface with the U.S. Department of Defense and the Armed Forces Epidemiological Board (AFEB) on troop readiness using Twinrix® for all new recruits.
- Medical Affairs lead and liaison to Marketing and Sales for training and market place education during the successful U.S. commercial launches of two novel vaccines - Twinrix and Pediarix®.
- Managed Care Physician liaison for Paxil®, Avandia® and Augmentin® franchise sales and marketing teams.
- Clinical and Scientific support to GSK U.S. and International government affairs, public policy, marketing and sales teams.

GSK Corporate Appointments

- Executive Management Team, GSK Vaccines
- Inaugural Board Member, GSK Political Action Committee
- GSK Diversity Champion

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CAREER HISTORY (CONTINUED)

Prudential HealthCare Kansas City Region (Arkansas, Kansas, Missouri)

Kansas City, MO

1993 - 1998

Regional Medical Director

Prudential HealthCare Duties and Accomplishments

- Managed the Departments of Healthcare Quality Assurance, Utilization Review, Pharmacy Benefit, and Clinical Network Relations (> 50 FTEs) with a budget of more than \$2.5 M. .
- Guided Prudential Healthcare – KC to the highest quality ranking for Independent Practice Association (IPA) in U.S. Midwest Region by U.S. News & World Reports, 1996-98.
- Led Plan to full NCQA Accreditation - first IPA in the U.S. Midwest to do so.
- Over a three-year span of Healthcare Effectiveness Data and Information Set (HEDIS) participation, implemented programs to significantly improve several HEDIS Preventive Services Measures - immunization rates of 2-year olds; cervical and breast cancer screening; and evaluation for diabetic retinopathy.
- Developed completely new, evidenced-based protocols to analyze quality of inpatient and outpatient care and to build plans to reduce errors, improve efficiency, and reduce waste.
- Created physician and hospital partnerships that resulted in the implementation of a length-of-stay goal paradigm of utilization review that eliminated 95% of the disruptive debates in the areas of pre-authorization, concurrent review of hospitalized patients, discharge planning, and complex case management.
- Expanded primary care network by 53%, doubled specialty physician participation and recruited 7 new centers of excellence into the Prudential Healthcare Kansas City IPA.
- Introduced a new, innovative patient-safety program through primary care credentialing of outpatient invasive procedures - resulted in a dramatic decrease in errors of chest x-ray interpretation and complications from minor outpatient surgical procedures.
- Developed a unique approach to improve company and clinical network performance and expand revenue growth by optimizing provider performance through payment for performance incentive contracts.

Prudential HealthCare National Appointments

- National Clinical Quality Improvement Committee
- Prudential HealthCare Leadership Institute Board
- National Prudential Health Promotion Advisory Council Co-Chair

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CAREER HISTORY (CONTINUED)

Missouri Patient Care Review Foundation (MPCRF)

Medicare Peer Review Organization (PRO) for the State of Missouri

Jefferson City, Missouri

1992 – 1993

Chief Medical Officer

MPCRF Duties and Accomplishments

- Recruited, trained and monitored over 350 physician peer reviewers in the Missouri Peer Review Organization (PRO) and U.S. HHS Health Care Finance Administration (now CMS).
- Managed the through-put and quality assurance activities of ongoing review of medical care, readmission to the hospital within 72 hours, inpatient morbidity and mortality, postoperative complications, and medication adverse events for over 25,000 hospitalizations each year.
- Achieved 100% level of compliance to the requirement of rendering decisions about the use of outpatient observation and premature discharge appeals.
- Reduced errors in the physician review and written communications by 90% in one year.
- Improved inter-reviewer reliability for the assessment of patient care quality by 87% within 6 months.
- Completed a unique prospective study and trend analysis on Medicare beneficiaries of Missouri hospitalized for pneumonia which revealed over 35% of inpatients had no clinical evidence of pneumonia.
- Organized and answered three HCFA Corrective Action Plans ahead of deadline which was instrumental in MPCRF winning a contract for Medicare peer-review services.
- Restored credibility in the MPCRF peer-review services and reversed an inherited clinician animosity to MPCRF as indicated by the addition of more than 50 new physician reviewers by end of tenure.

MPCRF Appointments

- U.S. Health Care Finance Administration (HCFA) Leadership Council, 1992 - 1993
- Missouri Governor's Conference on Aging

Sanus Health Plan/GenCare and Express Scripts, Inc.

St. Louis, Missouri

1989 - 1992

Medical Director

Sanus/GenCare and Express Scripts Accomplishments

- Developed sentinel event protocols for the analysis of quality of care for inpatient and outpatient situations and developed specific plans to reduce errors, improve efficiency and patient safety.

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CAREER HISTORY (CONTINUED)

- Built all new Physician Advisory Panel to introduce high quality clinical acumen and technical expertise in utilization management in the areas of pre-authorization, concurrent review of hospitalized patients, discharge planning, and complex case management.
- Reduced hospitalization days per 1000 members due to inefficient care by 65% over a span of 18 months.
- Served as Physician Director for the subsidiary home care intravenous delivery company (IVTx, Inc) and established all new protocols for the use of IV therapy at home as an alternative to continued hospitalization.
- Physician lead on management team that prepared Sanus to IPO as GenCare (GNCR; NMS/OTC).
- Founding Medical Director of Express Scripts (ESRX; NASDAQ) a Pharmacy Benefit Management company and in this capacity designed the original Continuous Quality Improvement protocols to prevent, identify and correct medication errors in the ESRX mail order and chaired the ESRX Formulary Advisory Committee.

Monsanto Corporation

Department of Medical and Health Sciences, Division of Occupational Medicine
World Headquarters and John F. Queeny Plant
St. Louis, Missouri
1986 - 1992

Occupational Medicine Physician

Monsanto Duties and Accomplishments

- Clinic Director at John F. Queeny plant and World Research Headquarters.
- Directed professional staff including nurses, physician assistants and physicians and managed \$3 million budget.
- Introduced ergonomic-based prevention programs for repetitive stress injuries.
- Created a wellness & smoking cessation program for Monsanto Queeny Plant with a success rate over 3 year follow up of 66%.
- Medical monitor for Cardiovascular Risk Reduction Pilot Study of World Research HQ employees.

St. John's Mercy Medical Center

St. Louis, Missouri
1983 - 1992

Attending Faculty in Emergency Medicine

St. John's Mercy Medical Center Duties and Accomplishments

- Directed the Extern, Intern and Resident rotation in Emergency Medicine.
- Formalized curriculum for the Emergency Medicine educational module.

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CAREER HISTORY (CONTINUED)

- Managed 45 part-time House Staff and moonlighting physicians.
- Organized the ACLS and ATLS training for clinic staff and Paramedic/EMT teams.
- Emergency Medicine Consultant, St. John's Mercy Hospital in Washington, Missouri.
- Co-Founder, St. John's Mercy Wellness Program.

EXTRACURRICULAR BUSINESS EXPERIENCE

Jet Services, Inc.

Aeromedical Ambulance Division
Chesterfield, Missouri
1985 - 1986

Medical Director and Chief Flight Physician

Accomplishments

- Supplied critical care aeromedical transport for acutely ill and traumatized patients who required an urgent return to home.
- Created all clinical treatment protocols and critical pathways for high quality patient care and fixed-wing, prop and jet transport.
- Directed all medical aspects of this start-up healthcare company including but not limited to:
 - aircraft retrofit and selection of medical equipment
 - selection and prescription of on-board medications and ACLS life-packs
 - recruitment and clinical direction of the medical professional staff during pre-flight assessment, in-flight monitoring, patient care and post-flight transfer to receiving team at the destination

ACADEMIC ASSIGNMENTS

St. Louis University – School of Public Health

2008 – Present

Adjunct Associate Professor of Community Health

University of Missouri School of Medicine

1992 – 1993

Adjunct Faculty, Instructor – Introduction to Clinical Medicine Course

St. Louis Community College

1984 – 1992

Instructor, Emergency Medical Technician and Paramedic Division

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ASSOCIATIONS AND SOCIETIES

- American Medical Association
- American College of Preventive Medicine
- American Association for the Advancement of Science
- American College of Emergency Physicians (Retired Fellow)
- Society of Teachers of Emergency Medicine (Retired)

NATIONAL PROFESSIONAL COMMITTEES

- American College of Preventive Medicine Adolescent Health Committee (2003-05)
- CDC Vaccine Policy Analysis Collaborative Steering Committee (2002-04)
- National Viral Hepatitis Roundtable (2002-05)

PUBLICATIONS AND CONTRIBUTIONS

- **Zink, TK.** Anthrax – Lessons Learned On The 10th Anniversary of the Anthrax Attacks. *Disaster Medicine and Public Health Preparedness*. 2011 v. 5, p. 173-174.
- **Zink, TK.** Anthrax Prevention - Risks vs. Benefits. *Dom Prep Journal*. Volume 7 Issue 9, September 2011. (<http://www.domesticpreparedness.com/pub/docs/DPJSept11.pdf>)
- **Zink, TK.** Pre-exposure Anthrax Vaccination: A Horse & Cart Situation. *Dom Prep Journal*. Volume 7 Issue 2, February 2011. (<http://www.domesticpreparedness.com/pub/docs/DPJFeb11.pdf>)
- **Zink, TK.** Anthrax Vaccine: Waste Not, Want Not. *CBRNe World*. Autumn 2010. www.cbrneworld.com.
- Hopkins RJ, Waytes TA, **Zink TK.** Pre-attack vaccination against anthrax may be cost-effective in certain populations. *Arch Intern Med*. 2008 Jan 14;168(1):114-5
- Craig AS, Watson B, **Zink TK,** Davis JP, Yu C, Schaffner W. Hepatitis A Outbreak Activity in the United States: Responding to a Vaccine-Preventable Disease. *Am J Med Sci*. 2007 Sep;334(3):180-183.
- **Zink TK.** "Gorse GJ, et al. Immunogenicity and tolerance of ascending doses of a recombinant protective antigen (rPA102) anthrax vaccine: a randomized, double-blinded, controlled, multi-center trial." *Vaccine*. 2007 Apr 12;25(15):2766-7.
- Van Effelterre TP, **Zink TK,** Hoet BJ, Hausdorff WP, Rosenthal, P. A mathematical model of hepatitis A transmission in the United States indicates value of universal childhood immunization. *Clin Infect Dis*. 2006 Jul 15;43(2):158-64. Epub 2006 Jun 12

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PUBLICATIONS AND CONTRIBUTIONS (CONTINUED)

- Jacobs RJ, Meyerhoff AS, **Zink TK**. Hepatitis A Immunization strategies: Universal Versus Targeted Approaches. *Clin Pediatrics* 2005;44:705-709.
- Battle, J and **Zink, TK**. Adolescence – A Challenging Time to Promote Prevention. Poster and Workshop. National Immunization Conference, Nashville, TN, May 2004.
- **Zink TK**. “Access to Specialty Care.” *N Engl J Med*. 1995 Feb 16; 332(7): 475-6.
- **Zink, TK**. “Peer Review--A Problem Based Approach.” *Missouri Patient Care Review Foundation* Publication: 1993. Jefferson City, Missouri.

Contributions and Reviews

- National Partnership for Immunization (NPI) Reference Guide on Vaccines and Vaccine Safety, 1st and 2nd Editions. Washington, DC 2001 and 2003.
- Brown SW. “Patient Satisfaction Pays.” Gaithersburg, Maryland: Aspen Publisher. 1993

Editorial Activity

- iVillage & Healthology (online medical information service), Nov 2005 – Dec 2008.
- Journal of National Medical Association, Jan 2002 - 2004
- Journal of Managed Care Medicine, Feb 1997 - 99
- *Panorama* - UMKC School of Medicine Quarterly Journal, Jan 1986-87

Key Presentations/Lectures

Missouri State Emergency Management Conference 2011 <i>Keynote Address “U.S. Anthrax Preparedness and the Ostrich Effect”</i>	5/2011
BioDefense 2010: Enhancing Security Against Pathogenic Terrorism <i>“Project EQUIPP & Medical Countermeasures: Stockpiling, Distribution and Preparedness-an initiative to vaccinate emergency responders against anthrax.”</i>	5/2010
Missouri Emergency Response Commission HAZMAT Symposium <i>“Project EQUIPP - a combined advocacy and immunization initiative to improve emergency responder preparedness to emerging infectious diseases and bioterrorism threats.”</i>	12/09
UASI (Urban Area Security Initiative) 2009 National Conference <i>“Project Equal Immunization Policies & Practices (EQUIPP) – Why Antibiotics Alone Cannot Protect a Community Against the Anthrax Bioterrorism Threat”</i>	6/09
MDBio Biopreparedness Seminars 2008 <i>“Civilian-Driven Biosecurity”</i>	4-10/08
Fourth Annual Confederation of Indian Industry Healthcare Conference <i>“Lessons Learned in Healthcare System Continuous Quality Improvement”</i>	11/07
Phacilitate Vaccine Forum Munich, 2007 <i>“Addressing the Logistical Challenges Inherent in Immunizing Adolescents and the Elderly”</i>	5/07

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KEY PRESENTATIONS/LECTURES (CONTINUED)

National Immunization Conference, 2004	5/04
<i>“Adolescence - A Challenging Time To Promote Prevention”</i>	
2002 Immunize, TEXASize Conference	11/02
<i>“New Vaccines: Pipeline Status and Challenges”</i>	
2002 National Vaccine Program Office Conference on Vaccine Supply	2/02
<i>“Vaccine Stockpile Initiative – A Manufacturers Viewpoint”</i>	
Kansas City College of Osteopathy: “Ethics in Health Care”	7/01
<i>“Ethical Dilemmas in Managed Care”</i>	
2001 National Hepatitis Coordinators Meeting	5/01
<i>“Hepatitis Prevention in Non-Traditional Settings”</i>	
ECRI National Conference: “The Clash Over Clinical Technology”	6/99
<i>“The Art and Science of Bedside Diagnosis... A Clinical Solution for Current Cost Woes.”</i>	
Mid-America Coalition on Health Care Conference	10/97
<i>“How Health Plans and Employers Can Partner in Wellness Promotion.”</i>	
Bristol Meyer Squibb, National Advisory Roundtable	6/97
<i>“National Committee for Quality Assurance (NCQA) and Disease Management.”</i>	
UMKC - School of Medicine, 1996 Year I Convocation – Keynote Speaker	11/96
<i>“The Oath to Hippocrates—Still an Excellent Guidepost for the Future!”</i>	
Glaxo Wellcome, National Advisory Panel	11/96
<i>“Managed Care Support Programs for Smoking Cessation.”</i>	
Kansas City Southwest Clinical Society Meeting	10/96
<i>“Managed Care...The More Things Change, The More They Stay the Same.”</i>	
Prudential HealthCare National Management Meeting Key Note Speech	10/96
<i>“Lessons in Leadership from the Sport of Baseball.”</i>	
Glaxo Wellcome, National Advisory Panel	9/96
<i>“Smoking Cessation Strategies.”</i>	
CibaGeneva, European Division Training	3/96
<i>“Managed Care Basics and Future Directions.”</i>	
Pfizer Cardiology Symposium	2/96
<i>“National Committee on Quality Assurance (NCQA) and The Practice of Cardiology.”</i>	
CibaGeneva Internal Management Training	9/95
<i>“Managed Care--A Medical Director’s Viewpoint.”</i>	
Association for Professors in Medicine, 1995 Winter Meeting	4-8/95
<i>“Academic Medical Centers and Managed Care.”</i>	
The State of Missouri Governor’s Conference on Aging	5/95
<i>“Advanced Directives.”</i>	

RESEARCH INTERESTS

- Civilian-Driven BioSecurity and Medical Counterterrorism
- Illness and injury prevention through health promotion strategies

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RESEARCH INTERESTS (CONTINUED)

- Improving patient satisfaction, cost-effectiveness and quality of health care through the art and science of the expertly performed clinical examination
- Healthcare Cost-Containment via Health System Continuous Quality Improvement
- Strategies for the global elimination of Hepatitis A disease

COMMUNITY INVOLVEMENT

- Biodefense Unified Response Monitoring Team, St. Louis City FD 2009 – Present
- Director & Membership Chairman, Concord Country Club 2008 – 2009
- Member, Committee on Charitable Giving, Concord Country Club 2003 – 2005
- Senior Consultant on Managed Care, Midwest Bioethics Center 1995 – 1999
- Member, Managed Care Advisory Board, KU Medical Center 1997 – 1999
- Advisor, Kansas City Museum and Science City 1996 – 1999
- President, UMKC School of Medicine Alumni Association 1996 – 1997

OTHER

- Media and Legal Deposition Trained
- Microsoft Works and Microsoft Office Suite Competent