

# **THOMAS K. ZINK, MD**

## **CURRICULUM VITAE**

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### **ADDRESS**

664 Militia Hill Drive  
West Chester, Pennsylvania 19382  
(215) 681-3433

### **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 Award Recipient and 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 (Inactive/Retired 2000)

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## **PROFESSIONAL HONORS**

**Health Mission Leader, US-Indian Business Council & US Chamber of Commerce**  
November 2007

**Member, US Health Care Finance Administration (HCFA) Leadership Council**  
1992 – 1993

**Fellow, American College of Emergency Physicians**  
September 1989 – 1999 (Retired 2000)

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

## **CAREER HISTORY**

**St. Louis University – School of Public Health, Institute for BioSecurity**  
West Chester, PA  
December 2007 – Present

*Adjunct Faculty & Senior Advisor to the Director*

Assignments/Accomplishments at the Institute for BioSecurity

- Founding Director of Project EQUIPP (Equal Immunization Policies and Practices)
- Faculty for Bioterrorism & Emerging Infectious Diseases Summer Course 2007-08
- Facilitator for Consensus Statement on Emergency Responder Preparedness
- Advisor on curriculum of Masters in BioSecurity & Disaster Preparedness Program
- Consultant to Missouri Homeland Security Coordinator
- Physician Lead on advocacy initiative to compel expanded CDC recommendations for the use of the FDA-approved vaccine against anthrax
- Creating awareness and immunization strategies for the prevention of tetanus, influenza, and blood-borne pathogens such as Hepatitis B (and hepatitis A)

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### **CAREER HISTORY** (CONTINUED)

#### **Emergent BioSolutions, Inc.**

Gaithersburg, MD

May 2006 – Jan 2008

*Chief Medical Officer*

*Senior VP of Clinical, Medical & Regulatory Affairs*

Directed all Health Policy, Clinical/Medical/Regulatory Affairs and Environment, Health & Safety activities including but not limited to: development and oversight responsibility of clinical trials including medical monitoring and responding to safety events; completion of regulatory documents for US and international licensing approval; collaborating with Environment, Health and Safety and QA/QC personnel in manufacturing operations; managing clinical affairs group including external therapeutic physician thought leaders, clinical scientists and administrative staff; and providing medical and scientific support to global public policy/marketing/sales teams.

#### Emergent BioSolutions Accomplishments:

- Anchored the NYSE IPO activities pertaining to clinical and medical affairs.
- Completed India licensure dossier for BioThrax into India.
- Led Clinical Development program for Typhoid and Chlamydia vaccine candidates.
- Captained the Biothrax FDA expiration dating and label expansion initiative
- Promoted expansion of BioThrax into emergency responder market segment

#### 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

*Director of Immunization Practices and Scientific Affairs*

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

#### GSK Vaccine 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)

- Medical Affairs Lead and liaison to Marketing and Sales during the successful U.S. commercial launches of two novel vaccines - Twinrix and Pediarix.
- Synchronized 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 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 and for Adolescent Boosting Vaccination against Pertussis.
- Managed Care Physician liaison to Paxil, Avandia and Augmentin franchise teams.

#### GSK Corporate Appointments:

- Inaugural Board Member, GSK Political Action Committee
- GSK Diversity Champion

### **Prudential HealthCare Plans, Kansas City Region**

Kansas City, MO

1993 - 1998

#### *Medical Director*

#### Prudential HealthCare Accomplishments:

- Guided Prudential of Kansas City to the highest quality ranking by US News & World Reports in 1996-1997 for any IPA in the Midwestern Region (Arkansas, Kansas, Missouri, Nebraska, and Iowa).
- Led Plan to full NCQA Accreditation - first IPA in the Midwestern Region to do so.
- Over a three-year span of HEDIS participation, increased several HEDIS Preventive Services Measures in a dramatic and statistically significant manner. These include: Immunization of Continuously Enrolled 2-Year Olds; Cervical Cancer Pap Smear Screening; Mammography Screening; and Diabetic Retinopathy Screening.

#### 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 Accomplishments

- Recruited, trained and monitored more than 350 physician peer reviewers in the Missouri Peer Review Organization (PRO) of the US HHS Health Care Finance Administration (now CMS).
- Reduced errors in the assignment of diagnosis, quality and utilization review and written communications by 90% in 1 year.
- Improved inter-reviewer reliability for patient care quality assessment by 87% within 6 months.

#### MPCRF Appointments

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

### **Sanus Health Plan/GenCare and Express Scripts, Inc.**

St. Louis, Missouri  
1989 - 1992

*Medical Director*

#### Accomplishments

- Chief Medical Officer on management team that took Sanus to IPO as GenCare.
- Founding Medical Director of Express Scripts (ESRX; Nasdaq) – the pharmacy benefit management subsidiary of GenCare.
- Physician leader for quality improvement, care management and benefit design.
- Physician Director for the home care intravenous delivery company, IVTx, Inc.
- Created the initial, preferred drug formulary and fashioned original CQI protocols to prevent, identify and correct medication errors in the mail order pharmacy.

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## CAREER HISTORY (CONTINUED)

### **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*

#### Accomplishments

- Clinic Director at John F. Queeny plant and World Research Headquarters.
- Managed professional nursing staff and \$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*

#### Accomplishments

- Director of the Extern and Post-Graduate Year 1-3 rotation in Emergency Medicine.
- Formalized curriculum for the Emergency Medicine educational module.
- Physician Manager of 45 part-time House Staff and moonlighting physicians.
- ACLS and ATLS Instructor for clinic staff and Paramedic/EMT teams.
- Emergency Medicine Consultant, St. John's Mercy Hospital in Washington, Missouri
- Physician Founder, St. John's Mercy Wellness Program.

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## **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 health care company including but not limited to: the aircraft retrofit and selection of medical equipment; the selection and prescription of on-board medications and ACLS life-packs; the 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 Institute for BioSecurity**

St. Louis, Missouri  
2007 – Present

*Advisor to the Director and Adjunct Associate Professor*

### **St. Louis Community College**

St. Louis, Missouri  
1984 – 1992

*Instructor, Emergency Medical Technician and Paramedic Division*

### **University of Missouri School of Medicine**

Columbia, Missouri  
1992 – 1993

*Adjunct Faculty, Instructor – Introduction to Clinical Medicine Course*

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## **ASSOCIATIONS AND SOCIETIES**

American College of Preventive Medicine  
Infectious Disease Society of America  
American Medical Association  
American Association for the Advancement of Science  
American College of Emergency Physicians (Retired Fellow)  
Society of Teachers of Emergency Medicine (Retired)  
American College of Sports Medicine (past member)  
National Wellness Association (past member)

## **NATIONAL PROFESSIONAL COMMITTEES**

American College of Preventive Medicine Adolescent Health Committee	2003 – 2005
CDC Vaccine Policy Analysis Collaborative Steering Committee	2002 – 2004
National Viral Hepatitis Roundtable	2002 – 2005

## **COMMUNITY INVOLVEMENT**

Clinical Advisor, Division of Missouri Homeland Security, U.S.A.	2007 – Present
Member, Committee on Charitable Giving, Concord Country Club	2003 – Present
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
Past President, UMKC School of Medicine Alumni Association	1986 – 1987

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## KEY PRESENTATIONS / LECTURES

<b>MDBio BioPreparedness Seminars 2008</b>	4 - 10/08
<i>"Civilian-Driven Biosecurity"</i>	
<b>Fourth Annual Confederation of Indian Industry Healthcare Conference</b>	11/07
<i>"Lessons Learned in Healthcare System Continuous Quality Improvement"</i>	
<b>Phacilitate Vaccine Forum Munich, 2007</b>	5/07
<i>"Addressing the Logistical Challenges Inherent in Immunizing Adolescents and the Elderly"</i>	
<b>National Immunization Conference, 2004</b>	5/04
<i>"Adolescence - A Challenging Time To Promote Prevention"</i>	
<b>2002 Immunize, TEXASize Conference</b>	11/02
<i>"New Vaccines: Pipeline Status and Challenges"</i>	
<b>2002 National Vaccine Program Office Conference on Vaccine Supply</b>	2/02
<i>"Vaccine Stockpile Initiative – A Manufacturers Viewpoint"</i>	
<b>2001 National Hepatitis Coordinators Meeting</b>	
<i>"Hepatitis Prevention in Non-Traditional Settings"</i>	7/01
<b>Kansas City College of Osteopathy: "Ethics in Health Care"</b>	
<i>"Ethical Dilemmas in Managed Care"</i>	6/99
<b>ECRI National Conference: "The Clash Over Clinical Technology"</b>	
<i>"The Art and Science of Bedside Diagnosis... A Clinical Solution for Current Cost Woes."</i>	10/97
<b>Mid-America Coalition on Health Care Conference</b>	
<i>"How Health Plans and Employers Can Partner in Wellness Promotion."</i>	6/97
<b>Bristol Meyer Squibb, National Advisory Roundtable</b>	
<i>"National Committee for Quality Assurance (NCQA) and Disease Management."</i>	11/96
<b>UMKC - School of Medicine, 1996 Year I Convocation – Keynote Speaker</b>	
<i>"The Oath to Hippocrates—Still an Excellent Guidepost for the Future!"</i>	11/96
<b>Glaxo Wellcome, National Advisory Panel</b>	
<i>"Managed Care Support Programs for Smoking Cessation."</i>	10/96
<b>Kansas City Southwest Clinical Society Meeting</b>	10/96
<i>"Managed Care...The More Things Change, The More They Stay the Same."</i>	
<b>Prudential HealthCare National Management Meeting Key Note Speech</b>	9/96
<i>"Lessons in Leadership from the Sport of Baseball."</i>	
<b>Glaxo Wellcome, National Advisory Panel</b>	3/96
<i>"Smoking Cessation Strategies."</i>	
<b>CibaGeneva, European Division Training</b>	2/96
<i>"Managed Care Basics and Future Directions."</i>	
<b>Pfizer Cardiology Symposium</b>	9/95
<i>"National Committee on Quality Assurance (NCQA) and The Practice of Cardiology."</i>	
<b>CibaGeneva Internal Management Training</b>	4-8/95
<i>"Managed Care--A Medical Director's Viewpoint."</i>	
<b>Association for Professors in Medicine, 1995 Winter Meeting</b>	5/95
<i>"Academic Medical Centers and Managed Care."</i>	
<b>The State of Missouri Governor's Conference on Aging</b>	5/93
<i>"Advanced Directives."</i>	

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### KEY PRESENTATIONS / LECTURES (CONTINUED)

<b>Glaxo Wellcome, National Advisory Panel</b> "Smoking Cessation Strategies."	3/96
<b>CibaGeneva, European Division Training</b> "Managed Care Basics and Future Directions."	2/96
<b>Pfizer Cardiology Symposium</b> "National Committee on Quality Assurance (NCQA) and The Practice of Cardiology."	9/95
<b>CibaGeneva Internal Management Training</b> "Managed Care--A Medical Director's Viewpoint."	4-8/95
<b>Association for Professors in Medicine, 1995 Winter Meeting</b> "Academic Medical Centers and Managed Care."	5/95
<b>The State of Missouri Governor's Conference on Aging</b> "Advanced Directives."	5/93

### PUBLICATIONS

#### **Author:**

- 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, multicenter 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
- Jacobs RJ, Meyerhoff AS, **Zink TK**. Hepatitis A Immunization strategies: Universal Versus Targeted Approaches. *Clin Pediatrics* 2005;44:705-709.
- Craig AS, Watson B, **Zink TK**, Davis JP, Schaffner W. Hepatitis A Outbreak Activity: Responding to a Vaccine-Preventable Disease. (Submitted to *AJMS* August, 2006)

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### **PUBLICATIONS** (CONTINUED)

- 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.

### **Editorial Board:**

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

### **Contributor/Reviewer:**

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

### **RESEARCH INTERESTS**

- Civilian-Driven BioSecurity and Medical Counterterrorism
- Illness and injury prevention through health promotion strategies
- The theory and practice of “Consumer-driven Healthcare”
- Improving patient satisfaction, cost-effectiveness and quality of health care through the art and science of the expertly performed clinical examination
- Strategies for the global elimination of Hepatitis A disease

### **OTHER**

Trained in Media and Legal Deposition Management  
Microsoft Works and Microsoft Office Suite Competent