

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Ted E. Palen, PhD, MD, MSPH		POSITION TITLE Clinician Researcher	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Bethel College, St. Paul, MN	B.A.	1976	Chemistry
University of Colorado, Boulder, CO	Ph.D.	1983	Biochemistry
Nat. Jewish Ctr. for Respiratory and Immunol. Res., Denver, CO	Postdoctoral	1983-84	Immunology
University of Colorado, Boulder, CO	Postdoctoral	1984	Molecular Biology
University of Colorado Health Sciences Center, Denver, CO	NIH Fellowship	1990	Physiology
University of Colorado Health Sciences Center, Denver, CO	M.D.	1993	Medicine
St. Joseph Hospital, Denver, CO	Internship	1993-94	Internal Medicine
University of Colorado Health Sciences Center, Denver, CO	Residency	1994-97	Internal/Preventive Medicine
University of Colorado Health Sciences Center, Denver, CO	M.S.P.H.	1994-97	Public Health/Informatics

A. Positions and Honors**Positions and Employment**

- 1984-1985 Visiting Assistant Professor of Chemistry, Bethel College, St. Paul, MN
 1985-1986 Research Associate, Department of Chemistry, University of Colorado, Boulder, CO
 1989-1993 Science Advisor and Science Education Specialist, Office of Public Relations, University of Colorado Health Sciences Center, Denver, CO
 1990-1993 Research Associate, Departments of Physiology and Medicine, University of Colorado Health Sciences Center, Denver, CO
 1992-1993 Medical Communications and Informatics Consultant, The Merck Center for Technology Education and Information, Denver, CO
 1992-1993 Student researcher, American Medical Informatics Association, University of Colorado Health Sciences Center, Denver CO
 1995-1996 Consultant, Clinical Information Systems, Medical Informatics, Kaiser Permanente of Colorado
 1997-1998 Colorado Permanente Medical Group, Departments of Internal Medicine and Clinical Information Systems (CIS) Internist and Clinical Information System, Kaiser Permanente of Colorado
 1997-present Colorado Permanente Medical Group, Departments of Internal Medicine, Institute for Health Research, and Clinical Informatics, Kaiser Permanente of Colorado

Honors

- 1976 B.A. with Highest Honors, Bethel College, St. Paul, MN
 1977 University of Colorado, Colorado Supplemental Scholarship
 1987 Elected to Outstanding Young Men in America
 1989 American Society for Quality Control Scholarship
 1989-1993 Colorado Graduate Grant
 1989-1990 McClymonds Medical Scholarship

Principal Investigator/Program Director (Last, First, Middle):

1990-1991 Cheley Scholarship
1990-1993 Achievement Rewards for College Scientists (ARCS) Scholar
1990 Meritorious Research Award from the Western Regional Society for Clinical Research
1991 Elected to Who's Who in the West
1991 Student Research Award from the Department of Orthopedics, University of Colorado Medical School
1991 United Brotherhood of Carpenters and Joiners of America Scholarship
1991-1992 University of Colorado Regent's Scholarship
1991-1993 Dean's Whitehead Scholar
1991-1993 Joseph Collins Foundation Grant
1991-1992 Selected by Community Resources, Inc., as Outstanding Mentor of the Year
1992 Adler Scholar
1992-1993 The Florence Sabin Award for Outstanding Prevention Research
1993 M.D. awarded with Honors, University of Colorado Health Sciences Center, Denver, CO
1993 Student Research Award from the Department of Pharmacology, University of Colorado Medical School
1993 The Colorado STAR ARCS AWARD nominee
1994 Intern Research Award, American College of Physicians, Denver Chapter
1998 Kaiser Permanente Summit Excellence Award
1999 Member of the CIS project team that was nominated for the Kaiser 1999 CARE Project of the Year Award
2002 KP Crew, Outstanding Volunteer Leadership Award

B. Selected Peer Review Publications

Escobar GJ, Fireman BH, MA, **Palen TE**, Gardner MN, Lee J, Clark MP, Kipnis P.
Risk adjusting community-acquired pneumonia hospital outcomes using automated databases. *Am J Manag Care*. 2008 Mar;14(3):158-66.

Palen TE. Raebel M. Lyons E. Magid DM. Evaluation of laboratory monitoring alerts within a computerized physician order entry system for medication orders.[see comment]. [Journal Article. Randomized Controlled Trial. Research Support, N.I.H., Extramural] *American Journal of Managed Care*. 2006;12(7):389-95.

Public Health Informatics Institute. (2006). *The Unique Records Portfolio*. Decatur, GA: Public Health Informatics Institute.

Palen TE and Adcock DM: Performance characteristics of rapid, quantitative D-dimer assays for the outpatient evaluation of venous thromboembolism. *Journal of Clinical Ligand Assay* 2005;28(3):123-129.

Ritzwoller D, Kleinman K, **Palen TE**, Abrams A, Kaferly J, Yih KW, Platt R: Comparison of Syndromic Surveillance and a Sentinel Provider System in Detecting an Influenza Outbreak – Denver, Colorado, 2003. *MMWR*. August 26, 2005 / 54(Suppl);151-156.

Magid DJ, Estabrooks PA, Raebel MA, **Palen TE**, Steiner JF, Korner EJ, Bates DW, Platt R, Glasgow RE. Translating Patient Safety Research into Clinical Practice, in *Advances in Patient Safety: From Research to Implementation*. Volume 23, Concepts and Methodology. AHRA Publication Nos. 050021(1-4) February 2005. Agency for Healthcare Research and Quality, Rockville, MD. URL: <http://www.ahrq.gov/qual/advnaces/>.

Hazlehurst B. Sittig DF. Stevens VJ. Smith KS. Hollis JF. Vogt TM. Winickoff JP. Glasgow R. **Palen TE**. Rigotti NA. Natural language processing in the electronic medical record: assessing clinician adherence to tobacco treatment guidelines. [Journal Article. Research Support, N.I.H., Extramural] *American Journal of Preventive Medicine*. 2005;29(5):434-439.

Sittig DF, Hazlehurst BL, **Palen TE**, Hsu J, Jimison H, and Hornbrook MC: A Clinical Information System Research Agenda for Kaiser Permanente, Part II. *The Permanente Journal* 2002;6(3):41-44.

Sittig DF, Hazlehurst BL, **Palen TE**, Hsu, J, Jimison H, and Hornbrook MC: A Clinical Information System Research Landscape. *The Permanente Journal* 2002;6(2):62-68.

Abrams-Briss M, Dold C, Hough H, Kaye K, Komaroff AL, LaHoda D, Norris EC, **Palen TE**, Sion S. Writers, *The Harvard Medical School Family Health Guide*. A.L. Kamaroff, Editor in Chief. Simon & Schuster 1999. URL: <http://www.health.harvard.edu/fhg/>

Palen TE, Shapiro K, Harris J: Can the number of prenatal visits be safely reduced for low risk women? *Tomorrow* 1999;8(3):40-7.

Hawkes AP, Kronenberger CB, MacKenzie TD, Mardis AL, **Palen TE**, et al: Cervical cancer screening: American College of Preventive Medicine Practice Policy Statement. *Am J Prev Med* 1996;12:342-344.

C. Research Support.

Ongoing Research Support

Palen (PI) 03/18/2008 - 05/31/2009

East Bay Community Foundation

Decision Support and Clinical Education using Virtual Consults within HealthConnect (KPHC) (Virtual Consults)

Health information communication technologies may improve provider-to-provider dialogue. We propose a retrospective study with a contemporaneously survey tool to investigate the use of virtual consults and clinical messaging within KPHC to see if it improves physician-physician communication, meets physician long-term education needs, improves physician satisfaction, and if it fosters efficient, safe, cost-effective, evidence-based care during transitions of care between primary care and specialist care venues.

Palen (PI) 9/21/2004-12/21/2009

AHRQ State and Regional Demonstrations in Health Information Technology

Colorado Health Information Exchange (COHIE)

COHIE is a collaboration between four health care delivery systems that aims to create the technical capacity, legal framework and secure environment to enable clinicians to access patient information from the individual institutions clinical data repositories to foster better continuity of care and be part of the NHII interconnectivity initiative.

Palen (PI) 6/5/2005 – 6/6/2009

Kaiser Permanente of Colorado Innovations Grant

Using a HealthConnect Alert to Decrease Ordering of D-dimer for DVT in Patients Over 65 Years of Age.

A study to exam the use of a targeted alert to promote evidence-based use of D-dimer laboratory test.

Completed Research Support

CA02507 (PI: Mouchawar) 01/01/03-12/31/06

National Cancer Institute

Using Electronic Medical Records to Measure and Improve Adherence to Tobacco Treatment Guidelines in Primary Care

The major focus of this project is the use of electronic medical records to monitor adherence to national tobacco treatment guidelines and assessing the effect of providing adherence rates and other key information to primary care providers.

UR8CCU115079054 (PI: Ritzwoller) 10/01/2002-01/31/2007

Centers for Disease Control and Prevention

National Bioterrorism Syndromic Surveillance Demonstration

Principal Investigator/Program Director (Last, First, Middle):

The major goal of this project is to develop standards, protocols, infrastructure and analytic tools for detecting and reporting unusual geographic and temporal clusters of ambulatory encounters with chief complaints of acute illness that might represent the initial manifestation of a bioterrorism event.

Palen (PI)

01/01/2003-12/31/2006

Garfield Memorial Foundation

Golden Needles in the Hay: Use of 'electronic signatures' to support quality improvement in Kaiser Permanente.

The major goal of this project is to develop a set of 'electronic signatures' (specific information patterns recording clinical activity's that identify specific patient populations or clinical events) that are more efficient and more rapid than manual chart review.

1U18HS/CA1039-01 (PI:Platt)

09/01/00 – 08/31/03

AHRQ

HMO Research Network Center for Education and Research in Therapeutics (CERTs)

The major goals of this project are in three areas: 1) Create and maintain infrastructure to support research on, and improved use of, therapeutics. 2) Perform core studies in all HMOs of prescribing patterns, the impact of drug dosing on health outcomes, and the impact of health policy decisions on drug adherence (site study: Use of KP Colorado Electronic Medication Prescribing Alert System to Alert Providers to Potential Drug Interactions). 3) Strengthen research and education collaborations among CERT centers. 4) Describe and assess prescription drug use before and during pregnancy in the United States.