

Alan J. Tomines, MD

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Education/Training

Pediatrics Residency, University of California at Irvine	1996-1999
M.D., State University of New York Health Science Center at Brooklyn	1992-1996
B.S. in Cybernetics, University of California at Los Angeles	1986-1991
B.S. in Psychobiology, University of California at Los Angeles	

Certification and Licensure

Licensure, Medical Board of California	1997-present
Diplomate, American Board of Pediatrics (General Pediatrics)	1999-present
Diplomate, American Board of Preventive Medicine (Clinical Informatics)	2014-present

Appointments

Department of Pediatrics David Geffen School of Medicine at UCLA Los Angeles CA	
<ul style="list-style-type: none">Health Sciences Associate Clinical ProfessorHealth Sciences Assistant Clinical Professor	2013-present 2005-2013
Division of General and Emergency Pediatrics Harbor-UCLA Medical Center Torrance CA	
<ul style="list-style-type: none">Associate Clinical ProfessorAssistant Clinical Professor	2013-present 2005-2013
Department of Health Policy and Management UCLA Jonathan and Karin Fielding School of Public Health Los Angeles CA	
<ul style="list-style-type: none">Adjunct Professor	2010-present

Positions and Employment

Attending Physician Division of General and Emergency Pediatrics, Harbor-UCLA Medical Center Torrance CA	2005-present
<ul style="list-style-type: none">Provision of pediatric medical careCoordination of care with pediatric specialistsTraining, supervision, and review of care of pediatric resident physiciansEnd-user: Cerner Power Chart	

Director, Child Health and Disability Prevention (CHDP) Program
Medical Director, Health Care Program for Children in Foster Care (HCPCFC)
Children's Medical Services (CMS), County of Los Angeles Department of Public Health
El Monte CA

2013-present

- Ensure that at-risk children and youth receive complete health assessments and follow-up for early detection and prevention of disease and disabilities per the federally mandated Early and Periodic Screening, Diagnosis, and Treatment (EPSDT) program for Medicaid-eligible children and youth
- Enforce program standards for credentialing and monitoring the quality of care of 2500+ clinicians at 900+ provider sites
- Supervise nursing and administrative staff for CHDP program
- Supervise nursing staff for the Health Care Program for Children in Foster Care
- Participate in state workgroups to draft and revise CHDP program standards
- Participate in local workgroups to address needs of children in foster care and victims of sexual exploitation
- Supervise epidemiology staff for the CMS Program Evaluation Unit
- Provide informatics consultation on enhancement of CMS information systems
- Implemented process changes to improve CHDP administrative workflow

Director of Clinical and Public Health Informatics
Public Health Information Systems, County of Los Angeles Department of Public Health
Los Angeles CA

2007-2013

- Provision of biomedical and public health informatics expertise on public health information systems projects
- Advise Department executive staff on IT application strategy and matters of health IT policy, including ARRA/HITECH, and Meaningful Use
- Provide assistance to physician, nursing, ancillary, emergency preparedness, epidemiology, and other scientific staff in IT project planning and evaluation, and adherence to recognized data and messaging standards
- Conduct *ad hoc* SQL data analyses to support executive decision-making
- Support development activities using Javascript, JQuery
- Assess the feasibility of IT project proposals to support the department's executive IT Advisory Board
- Fiscal planning for the implementation and maintenance of clinical and public health IT systems
- Respond to requests from eligible hospital and providers for connecting to the department to address Meaningful Use requests
- Direct enterprise-wide business process analyses, and develop data and process models to support business process improvement
- Train and supervise project managers and business analysts who support information system analysis and project development
- Coordination of application implementation and support with IT systems administration staff
- Develop work orders to acquire, and supervise or track performance of, contract IT staff on short-term projects
- Develop and implement clinical and public health information systems, including:
 - Automate communicable disease case management documentation and workflow (Case Management and Processing System [CMaP])
 - Enable electronic prescribing and inventory tracking (Pharmacy Inventory and Labeling System [PILS])
 - Develop dashboard to track clinic workload, incorporating data from scanned patient encounter forms and from patient registration system
 - Integrate PACS system with patient registration system
 - Interface with Department of Coroner to exchange death and toxicology data
 - Support Meaningful Use capacity by architecting infrastructure to receive and process HL7 2.5.1 laboratory data from external hospitals and labs
 - Status tracking for enterprise projects (Project Portfolio)
 - Status tracking for Application Development unit work items
 - Tracking system for department-issued communication devices
 - Revision of system to track street vending compliance complaints

Assistant Chief, Medical Informatics

2005-2007

Health Services Administration
County of Los Angeles Department of Health Services
Los Angeles CA

- Supported Affinity Enterprise Workstation beta testing and implementation
- Supported evaluation of electronic chemotherapy ordering for Harbor-UCLA
- Implemented Affinity reporting process for Harbor-UCLA pediatrics phone-check follow-up system
- Developed interim database to support family medicine diabetes registry activities at Harbor-UCLA
- Assistance to DHS Veterinary Public Health on animal bite surveillance and border entry surveillance, including: refinement of existing databases; data modeling; and merging and archiving of databases
- Other activities as directed by the Chief, Medical Informatics, including:
 - Review of clinical pathways for DHS CRM projects
 - Data cleaning for DHS HIPAA security comprehensive assessment compliance tracking
 - Preparation of CDC Centers of Excellence in Public Health Informatics grant proposal
 - Participated on Health-e-LA (Los Angeles County Regional Health Information Organization) coalition and Technical, Clinical, and Evaluation workgroup
 - DHS Bioterrorism Information Technology Steering Committee

Senior Public Health Informatics Fellow

2003-2004

Division of Public Health Surveillance and Informatics
Centers for Disease Control and Prevention
Atlanta GA

- Conducted Info-Aids (provision of short-term informatics assistance to federal, state, local, or international health departments), including assistance to the Hawaii Department of Health, collection, standardization, analysis, and visualization of electronic data from clinical laboratories
- Contributed to development of formal guidelines for conducting Info-Aids
- Supervised Public Health Informatics Fellows on Info-Aids, including matching Info-Aid assignment requests to Fellows with the appropriate knowledge and skills, and remote supervision of fellows
- Mentored first- and second-year Public Health Informatics Fellows, including the development of learning contracts, guidance and technical support on projects and surveillance system evaluations, development of leadership and presentation skills, and assistance with other activities
- Developed and managed the Public Health Informatics Fellowship IntraNet (internal) and Internet (external) website, including the design of the database architecture and development of the user interface
- Provided support to the Public Health Informatics Fellowship Program administration, including the assessment of data collection and reporting requirements, the planning of activities and projects, the development of information systems to support administrative goals, and the recruitment of prospective informatics fellows
- Assisted other CDC centers/institutes/offices with short-term projects, including:
 - Assessment of data needs for the Division of Applied Public Health Training/Epidemiology Program Office, toward developing a cross-program data model
 - Development of a system to facilitate the validation of double-entered survey data for the Respiratory Diseases Branch/Division of Bacterial and Mycotic Diseases/National Center for Infectious Diseases
- Made presentations to audiences inside and outside of CDC on topics of interest to public health informatics

Public Health Informatics Fellow

2001-2003

Division of Adolescent and School Health
Centers for Disease Control and Prevention
Atlanta GA

- Managed activities for Youth 1999/2001 Online (a web-based query system for displaying Youth Risk Behavior Survey data) including: coordination of SAS, HTML, and ASP programmers, as well as database administrators; database management, SAS/SUDAAN programming, and HTML markup to facilitate activities during the design, development, and maintenance phases; evaluation of adherence to Section 508 guidelines; and evaluation of system usability
- Evaluated the school-based surveys component of the Youth Risk Behavior Surveillance System (YRBSS) from an informatics perspective, and recommended refinements to workflow and database architecture, which were subsequently implemented
- Assisted other teams within the Division of Adolescent and School Health on short-term projects, including: development of an internal publications tracking database for the Office of the Director; guidance in navigation design for the "Programs that Work" web page; coding in SAS to validate School Health Programs and Policies ASCII datasets
- Detailed to the Illinois Department of Public Health during the 2002 West Nile Virus outbreak, providing the following short-term assistance: developed and documented a system to automate laboratory data processing, and results reporting; made additional software, hardware, and workflow recommendations to enhance laboratory information flow in the short- and long-term; improved the timeliness of reporting from days to hours
- Detailed to the DuPage County (IL) Health Department for TOPOFF 2 (a Congressionally mandated bioterrorism preparedness exercise), providing the following short-term assistance: acted as a liaison between epidemiologic and information technology staff, to identify strengths and areas of improvement for a web-based disease reporting system; made additional software, hardware, and workflow recommendations to improve the integration of epidemiologic and administrative needs
- Detailed to the Los Angeles County Department of Health Services in support of the 8-City Enhanced Terrorism Surveillance Project (a White House bioterrorism preparedness initiative), providing the following short-term assistance: on initial visit, had primary responsibility to assess alerting capacity and data sources for surveillance; on second visit, identified and documented short- and long-term enhancements to disease reporting and alerting.
- Evaluated Oklahoma State Department of Health enterprise information architecture needs.
- Developed a database to support automated tracking and reporting of Public Health Informatics Fellows' activities.

General Pediatrician

1999-2001

Locum tenens /Pediatric Primary Care Associated Medical Group
Vista CA

- Provision of outpatient pediatric medical care
- Provision of inpatient pediatric medical care (Tri-City Medical Center, Oceanside CA)
- Sentinel physician, Influenza-like Illness

Awards

Physician Recognition Award for Innovation
County of Los Angeles Department of Public Health
Los Angeles CA

May 2012

Other Training/Credentials

AHIMA CHTS-CP Credential <i>American Health Information Management Association Certified Healthcare Technology Specialist—Clinician/Practitioner Consultant (CHTS–CP)</i>	2013
Certificate, Information Technology for Managers <i>Courses: Introduction to IT, Introduction to Networking, Introduction to Client-Server Systems, Introduction to Programming, Introduction to XML, Creating Web Pages, Designing for the WWW, Fundamentals of IT Project Management, IT Project Management Principles and Practice</i> Georgia Institute of Technology, College of Computing Atlanta GA	2002
Certificate, Database Management <i>Courses: Database Concepts, Database Modeling, Relational Database Design, Microsoft SQL Server, Performance Issues & Tuning in Relational Database Systems</i> Georgia Institute of Technology, College of Computing Atlanta GA	2002
Certificate, Information Security <i>Courses: Blueprint for Information Security, Legal Issues in Information Security, Creating an Information Security Policy, Planning for Information Security, Implementing an Information Security Plan, Business Continuity and Disaster Recovery, Information Security Incident Detection and Response</i> Georgia Institute of Technology, College of Computing Atlanta GA	2003
Informatics Management Development Program Emory University Goizueta School of Business (Executive Education) Atlanta GA	2002
Prevention Effectiveness Training Centers for Disease Control and Prevention Atlanta GA	2002
Other Technical Courses <i>Cognos Reportnet, Cognos PowerPlay, QuadraMed Query Writing, Fundamentals of SAS Programming, SUDAAN Basics, ArcGIS, ArcIMS, Introduction to Visual Basic .NET, Introduction to ASP .NET, Crystal Reports 8.5, Adobe Acrobat 5.0, Flash MX</i>	2001-5

Educational (Teaching) Activities

Clinical Teaching	Associate/Assistant Clinical Professor	Supervision of pediatric residents in outpatient and inpatient settings, Harbor-UCLA Medical Center	2005-present
Graduate Teaching	Adjunct Assistant Professor	Biomedical and Public Health Informatics (HPM 401), UCLA School of Public Health	2005-present
Grand Rounds	Lecturer	Grand rounds on <i>Informatics in Pediatrics</i> , Harbor-UCLA Medical Center	August 2006
Other Teaching	Lecturer	Prepared and conducted the <i>Problem Solving in Public Health Informatics</i> training for the Centers for Disease Control and Prevention (CDC) Public Health Informatics Fellowship Program (PHIFP) Orientation	July 2009
Other Teaching	Lecturer	Prepared and conducted the <i>Informatics in Local Public Health</i> lecture for the CDC PHIFP Orientation	July 2010
Other Teaching	Lecturer	Prepared and conducted presentation on <i>Careers in Public Health Informatics</i> for the CDC	February 2012
Grand Rounds	Lecturer	Grand rounds on <i>Electronic Medical Records: Promise Unfulfilled</i> , Harbor-UCLA Medical Center	February 2012
Journal Club	Discussant	<i>McCormick D, Bor DH, Woolhandler S, Himmelstein DU. Giving office-based physicians electronic access to patients' prior imaging and lab results did not deter ordering of tests. Health Aff (Millwood). 2012;31(3). Harbor-UCLA Medical Center</i>	April 2012
Other Teaching	Lecturer	Prepared lecture on the CHDP Program for Harbor-UCLA residents.	November 2014, February 2015

Grants and Fellowships

Contracts: Past

US DHHS – CDC. HHS CDC-RFA-CI10–101202PPHF11. Patient Protection and Affordable Care Act Epidemiology and Laboratory Capacity for Infectious Diseases (ELC) Building and Strengthening Epidemiology, Laboratory and Health Information Systems Capacity in State and Local Health Departments. (2011-2012)

US DHHS – ONCHIT (subcontract to Long Beach Network for Health). HHS P23320074104-EC. Determination of Quality Measures from Health Information Exchange Datasets. (2008-2009)

US DHHS – ONCHIT (subcontract to Long Beach Network for Health). HHS P23320074104-EC. Program Evaluation – Long Beach Network for Health. (2007-2008)

Papers—Peer Reviewed

Tomines, A., Readhead, A., Readhead, H., Teutsch, S. Applications of Electronic Health Information in Public Health: Uses, Opportunities and Challenges. *eGEMs (Generating Evidence & Methods to improve patient outcomes)*, October 2013.

Pevnick, J., Claver, M., Dobalian, A., Asch, S., Stutman, H., **Tomines, A.**, Fu, P. Provider Stakeholders' Perceived Benefit from a Nascent Health Information Exchange: A Qualitative Analysis. *Journal of Medical Systems*. May 2010.

Dobalian, A., Claver, M., Pevnick, J., Stutman, H., **Tomines, A.**, Fu, P. Organizational Challenges in Developing One of the Nationwide Health Information Network Trial Implementation Awardees. *Journal of Medical Systems*. July 2010.

Chapters

Tomines, A. Counseling Families About The Internet. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (5th ed.). Philadelphia: W.B. Saunders. 2014.

Tomines, A. Informatics. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (5th ed.). Philadelphia: W.B. Saunders. 2014.

Tomines, A. Risk Factor Information Systems. In JA Magnuson, P Fu Jr. (Ed.), *Public Health Informatics and Information Systems* (2nd ed.). New York: Springer. 2014.

Fu, P., **Tomines, A.**, Dickey, L. Delivery of Preventive Medicine in Primary Care. In JA Magnuson, P Fu Jr. (Ed.), *Public Health Informatics and Information Systems* (2nd ed.). New York: Springer. 2014.

Tomines, A. Counseling Families About The Internet. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (4th ed.). Philadelphia: W.B. Saunders. 2011.

Tomines, A. Informatics. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (4th ed.). Philadelphia: W.B. Saunders. 2011.

Tomines, A. Counseling Families About The Internet. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (3rd ed.). Philadelphia: W.B. Saunders. 2008.

Tomines, A. Informatics. In C. Berkowitz (Ed.), *Pediatrics: A Primary Care Approach* (3rd ed.). Philadelphia: W.B. Saunders. 2008.

Presentations

Tomines, A. "Big County. Big Data? Readiness of a Local Public Health Department." Health Datapalooza, Washington DC. June 2014.

Tomines, A. "Applications of Health Information Technology in Public Health Practice." Enhancing the Research and QI Paradigm to Support Health Delivery Transformation: An EDM Forum Discussion to Clarify Challenges, Solutions, and Priorities, Washington DC. March 2014.

Readhead, H., Readhead, A., **Tomines, A.**, Kim-Farley, R. "Assessment of a large local health department's need for electronic medical record data." 140th APHA Annual Meeting, San Francisco CA. October 2012.

Tomines, A., Wilson, C. "Los Angeles County Public Health Disease Case Management: Empowering Users with xRM and mHealth Solutions." PHI 2011, Orlando FL. May 2011.

Abstracts and Posters

Singh, R., Kinchen, S., **Tomines, A.** An Architecture for Web-based Statistical Analysis: Creating an Online Statistical Analysis Processor for CDC Surveillance Data. MedInfo 2004, San Francisco CA. September 2004.

Ma, H., Zhang, J., Ma, L., Kong, Y., **Tomines, A.** Diagnosing Breast Masses in Fine Needle Aspiration Using Bayesian Classifiers. MedInfo 2004, San Francisco CA. September 2004.

Other Professional Activities

Reviewer for a journal submission to *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. November 2014 (initial submission) and April 2015 (resubmission).

Reviewer for a journal submission to the *American Journal of Preventive Medicine*. October 2014.

Reviewer for a journal submission to *eGEMs (Generating Evidence & Methods to improve patient outcomes)*. May 2014 (initial submission) and August 2014 (resubmission).

Chair of Screening Committee for the new Director for the Division of Scientific Education and Professional Development (DSEPD), located in the Center for Surveillance, Epidemiology, and Laboratory Services (CSELS), Office of Public Health Scientific Services, Centers for Disease Control and Prevention (CDC). March-May 2014.

American Medical Informatics Association (AMIA)

- Public Health Informatics Working Group, 2001-2004, 2011-2014.
- Clinical Informatics Community of Practice Committee, 2013-2014.

Reviewed applications for CDC Public Health Informatics Fellowship Program:

- (2015 class). November-December 2014.
- (2014 class). November-December 2013.
- (2013 class). November-December 2012.
- (2012 class). November-December 2011.

CDC Informatics Training in Place Program (iTIPP) Steering Committee. November 2012-ongoing.

Invited expert at PHI2011 conference: Technical Frameworks track.

Reviewed and provided feedback for the informatics chapter of *Principles and Practice of Public Health Surveillance* (3rd. Edition); edited by Steven M. Teutsch, M.D.