

# ERIC M. LIEDERMAN, MD, MPH, CPE, FHIMSS

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## KAISER PERMANENTE

>200,000 staff, including >12,000 MDs serving 12M Kaiser members with \$60B annual revenue

**National Leader, Privacy, Security and IT Infrastructure, The Permanente Federation** 2017-present

**Director of Medical Informatics, Accountable Exec for Privacy & Security** 2005-present

Report to TPMG Associate Executive Director and Permanente Federation SVP. Accomplishments:

- Lead Meaningful Use to success for 99.6% of physicians in Stage 1, >95% in Stage 2; & 100% of hospitals in both
- Oversaw successful \$5b program to improve network, install VOIP, and implement disaster recovery
- Govern >\$800M annual national and regional IT investment budget
- Oversaw successful implementation of new claims system integrated with EHR
- Completed ICD-10 transition to successfully meet 2015 federal deadline with no significant issues
- Protecting privacy without harming patients with forensic audit monitoring to reduce violations >98%
- Supervise imaging informatics and biomedical device integration programs
- Oversee national health plan claims system implementation
- Developed and implemented duplicate EHR infrastructure at a 2<sup>nd</sup> data center, reducing outage time 84%
- Increased EHR availability to 99.99% through process improvement & elimination of single points of failure
- Enhanced wireless mobile computing reliability by 400%, to support bedside paperless care 24/7
- Oversaw successful implementation of a new laboratory information system
- Cut \$250 million from successful multi-year EHR deployment, with resulting HIMSS Analytics Level 7 designation

## UNIVERSITY OF CALIFORNIA DAVIS HEALTH SYSTEM

500-bed academic medical center & Level 1 Trauma Center with an \$800 million annual operating budget.

**Medical Director, Clinical Information Systems** 2000-2005

Reported to Executive Director of Clinical Information Systems. Accomplishments:

- Led 100% of community MDs to use ambulatory CPOE and clinical documentation
- Reduced paper generation by 95% in community clinics
- Led the development of standard, evidence-based order sets & decision support
- Innovated an accountability-based privacy protection process which protected information without impairing care
- Implemented a web-distributed PACS system, saving \$2.1 million & 22 physician-years annually
- Instituted patient e-messaging, creating new revenue, raising MD productivity 11% & lowering phone calls 18%
- Installed hospital WiFi and wireless mobile workstations, VOIP & patient web access
- Selected and implemented an Electronic Medical Record in all venues of care
- Designed and built a clinician results portal to improve clinical decision-making and security
- Deployed a digital dictation-transcription and e-signature system, for use by all clinicians
- Raised rate of signing of verbal order within 48 hours from 8% to 95% with e-signature, policy & process change

## CATHOLIC HEALTHCARE WEST N. CALIFORNIA & MEDCLINIC MEDICAL GROUP

5 of the 41 CHW hospitals plus MedClinic, a 130-physician multi-specialty medical group.

**Medical Director, Clinical Information Systems, CHW Northern CA** 1997-2000

**Medical Director, Information Systems, MedClinic Medical Group**

Reported to CHW CIO and to the MedClinic Medical Director and Board of Directors. Accomplishments:

- Contributed to financial turnaround (from a \$1.1M monthly loss to near-profitability) by:
  - Analyzing clinical and administrative data mining to improve provider utilization and quality
  - Developing disease management programs for diabetes, asthma, anticoagulation, CHF & CAD
- Implemented vendor ambulatory clinical data repository and clinical messaging systems
- Built a data warehouse & disease management programs for diabetes, asthma, anticoagulation, CHF & CAD

**Lead Physician Advisor, Utilization Management, CHW Northern CA** 1998-2000

Reported to CHW CMO. Accomplishments:

- Decreased bed days per 1000 by 18%, and average LOS by 21%
- Reduced CHF & Coumadin hospitalizations by 60-80% with disease management programs
- Lowered cardiac LOS through reorganization of catheterization lab staffing and hours
- Streamlined ER patient flow and reduced "social" admissions through resident ER case managers

**Chief, Internal Medicine Department, MedClinic Medical Group** 1998-1999

Reported to MedClinic Medical Director. Accomplishments:

- Recruited internists and mid-level providers to expand department by 50% in six months
- Reduced staff FTEs 18% through cross training and job-sharing without productivity loss

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## CLINICAL & ACADEMIC POSITIONS

<b>General Internist</b> , The Permanente Medical Group, Sacramento, CA	2005-present
<b>Assoc. Clinical Professor of Internal Medicine</b> , UC Davis Health System, Sacramento, CA	1998-2005
<b>Instructor</b> , UC Davis Medical Informatics Masters Program, Sacramento, CA	2000-2004
<b>General Internist</b> , MedClinic (now Mercy) Medical Group, Sacramento, CA	1996-2000
<b>US Navy Flight Surgeon</b> , Marine Corps Air Station New River, Jacksonville, NC	1991-1993

## EDUCATION & TRAINING

<b>Advanced Training Program</b> , Intermountain Healthcare, Salt Lake City, UT	2005
<b>M.P.H. in Health Policy and Management</b> , University of Massachusetts, Amherst, MA	1994-1996
<b>Internal Medicine Resident</b> , Baystate Medical Center, Springfield, MA	1994-1996
<b>Otolaryngology Resident</b> , Eye and Ear Institute, University of Pittsburgh, PA	1993-1994
<b>US Navy Flight Surgeon Training</b> , Naval Aerospace Medical Institute, Pensacola, FL	1990-1991
<b>General Surgery Intern</b> , Naval Regional Medical Center, Oakland, CA	1989-1990
<b>M.D.</b> , Tufts University School of Medicine, Boston, MA	1985-1989
<b>B.A. Classical Archaeology</b> , Dartmouth College, Hanover, NH (Magna Cum Laude)	1980-1984

## CERTIFICATIONS, FELLOWSHIPS & MEMBERSHIPS

<b>Diplomate</b> , American Board of Internal Medicine (ABIM)	1997 (Cert to 2027)
<b>Diplomate in Clinical Informatics</b> , American Board of Preventive Medicine (ABPM)	2015 (Cert to 2025)
<b>Diplomate/Certified Physician Executive</b> , American Assoc. for Physician Leadership (AAPL)	1998 (Lifetime)
<b>Fellow</b> , Health Information and Management Systems Society (HIMSS)	2014 (Lifetime)
<b>Member</b> , Association of Medical Directors of Information Systems (AMDIS)	2001-present
<b>Member</b> College of Healthcare Information Management Executives (CHIME)	2015-present
<b>Member</b> , American Medical Informatics Association (AMIA)	1998-present
<b>Member</b> American College of Physicians	1998-present
<b>Member</b> , California Medical Association	1997-present

## MEDICAL LICENSURE

California – active (G70728)	1996-present
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## PUBLICATIONS

Liederman EM. *The CMIO and Privacy and Security*. Chapter in: Rydell RL and Landa HM, editors. The CMIO Survival Guide, Boca Raton: CRC Press; 2018. p. 123-130

Liederman, EM. *Capitation and Cognitive Dissonance: The Economics of Models of Care*. Clinical Informatics News. <http://www.clinicalinformaticsnews.com/cln/2015/3/20/capitation-cognitive-dissonance-economics-models-of-care.html>. March 20, 2015.

Liederman EM. *Protecting Privacy Without Harming Patients*. Clinical Innovation+Technology. February 25, 2014

Liederman EM. *Organizational Readiness for the CMIO*. Chapter in: Bria WF, Rydell RL, editors. The CMIO Survival Guide, Chicago: HIMSS; 2011. p. 27-33

Bold RJ and Liederman EM. *Web Relationships Between Physicians and Individuals Seeking Information on Hepatopancreatobiliary Diseases – Invited Critique*. Arch Surg; 141(12):1182. Dec 1, 2006

Liederman EM. *Protecting Privacy Without Harming Patients*. Most Wired Online. June 6, 2006

Srinivasan M, Liederman EM, Baluyot N & Jacoby R. *Saving time, improving satisfaction: the impact of a digital radiology system on physician workflow and system efficiency*. J Healthcare Info Mgmt 2006; 20(2):123-131

Kimmel Z, Greenes R & Liederman EM. *Personal health records*. J Med Prac Mgmt. 2005;Nov/Dec:147-152

Liederman EM, Sands DZ & Handley M. *Patient portals*. Chapter in: Miller J, editor. Implementing the Electronic Health Record: Case Studies and Strategies for Success. Chicago: HIMSS; 2005. p.85-94

## ERIC M. LIEDERMAN, MD, MPH, CPE, FHIMSS

Liederman EM, Lee JC, Baquero VH & Seites PG. *The impact of patient-physician web messaging on provider productivity*. J Healthcare Info Mgmt 2005;19(2):81-86

Liederman EM, Lee JC, Baquero VH & Seites PG. *Secure web messaging: the impact on providers & patients*. J Gen Intern Med 2005;20(1):52-57

Liederman EM, Zimmerman EM, Athanasoulis MA, Young MAC. *System-wide rollout of doctor-patient secure web messaging: the UC Davis "virtual care" experience*. Chapter in: Whitten P, Cook D, editors. *Understanding Health Communication Technologies*. San Francisco: Jossey-Bass; 2004. p.244-250

Curry MP, Trask L, Liederman EM, Zeboski A & Hutchinson D. *Verbal order compliance – how we achieved it*. J AHIMA 2004;75(7):38-41

Liederman EM, Zimmerman E. *Secure web messaging: independent study shows it's a win for physicians, patients and payers*. In: *Proceedings of AHIMA National Convention*; 2003 Oct 18-23; Minneapolis, MN

Liederman EM and Morefield CS. *Web messaging: a new tool for patient-physician communication*. J Am Med Inform Assoc 2003;10:263-274

Liederman EM. *Clinical practice guidelines face legal tests*. Click Medical Management Journal, July 2000.

Liederman EM. *Reflections on the role of pharmaceutical companies' disease management programs*. Disease Management 1(3):163-170, May 1998

Liederman EM, Post JC, Aul JJ et al. *Analysis of adult otitis media: PCR vs culture of bacteria, viruses and HIV*. Annals of Otolaryngology, Rhinology & Laryngology 107(1):10-16, January 1998

Buchman, C, Liederman E, Aul J, Post JC, Ehrlich GD: *Molecular microbiologic analysis of otitis media in adults*. Sixth International Symposium on Recent Advances in Otitis Media, Fort Lauderdale, Florida, June 4-8, 1995

## SPEAKING ENGAGEMENTS

*Collaborating on Cybersecurity (Panel Moderator)*. AMDIS annual conference, Ojai, CA June 2018

*Collaborative cybersecurity protection*. Epic Information Security Advisory Council. Verona, WI April 2018

*Protecting our patients: What physicians need to know about cybersecurity*. AMA meeting, Honolulu November 2017

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI September 2017

*Preventing cybercrime without impairing care delivery*. National Health ISAC, Orlando, FL May 2017

*Preventing cybercrime without impairing care delivery*. Epic Experts Group Meeting, Verona, WI April 2017

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI September 2016

*Moderator: Cybersecurity Panel*. AMDIS annual conference, Ojai, CA June 2016

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI August 2015

*Protecting Privacy without Harming Patients AND Panel on Authorized Sharing of PHI and Ensuring Privacy and Security*. Medical Informatics World Conference. Boston, MA April 2015

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI September 2014

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI September 2013

*How to protect privacy without harming patients*. Epic Users Group Meeting, Verona, WI September 2012

*Who owns the data?* Panel at the Northern California HIMSS Clinical Informatics Forum, San Francisco, CA. May 2012

*Securing electronic personal health information (ePHI): From the data warehouse to the point of care*. Panel at Institute for Health Technology Transformation Conference, San Francisco, CA. March 2012

## **ERIC M. LIEDERMAN, MD, MPH, CPE, FHIMSS**

- Protecting privacy without harming patients.* HIMSS Annual Conference, Las Vegas, NV. February 2012
- Balancing privacy protection with patient care.* Keynote at Global E-Health Forum, Hamburg, Germany. October 2011
- How to protect privacy without harming patients.* Epic Users Group Meeting, Verona, WI September 2011
- How to meaningfully protect privacy without harming patients.* HIMSS Annual Conference, Orlando, FL. February 2011
- Protecting privacy without harming patients.* Epic Users Group Meeting, Verona, WI September 2010
- Transactional patient portals - what, why and how | How to "meaningfully" protect privacy without harming patients.* HIMSS Annual Conference, Atlanta, GA. March 2010
- Protecting privacy without harming patients.* Epic Users Group Meeting, Verona, WI September 2009
- Trust ... but monitor. Safeguarding patient privacy and system integrity.* Epic Security Forum, Verona, WI April 2009
- Balancing privacy protection with patient care | Business-IT Integration: Secret Sauce for Success | Security Governance for a Diverse Enterprise.* Epic Users Group Meeting, Verona, WI September 2008
- Freeing the data: data extraction challenges and opportunities to support complex clinical care goals.* Epic Physician/Nurse/Pharmacist Advisory Council, Madison WI April 2008
- Balancing privacy protection with patient care | Cutting the cord: going wireless at Kaiser hospitals.* Epic Users Group Meeting, Verona, WI September 2007
- Best of breed vs. single vendor | Structured documentation vs. free text.* AMDIS Annual Conference, Ojai, CA July 2007
- Managing clinical content across the enterprise.* Epic "Venti" Large Customer Conference. St. Louis, MO May 2007
- Balancing privacy protection with patient care.* Epic Physician Advisory Council, Madison, WI March 2007
- Clinical decision support roundtable.* HIMSS Annual Conference, New Orleans, LA February 2007
- Measuring effectiveness.* Epic "Venti" Large Customer Conference, Napa, CA November 2006
- Alert strategy, governance, oversight and management issues.* KP HealthConnect Decision Support Summit, Emeryville, CA October 2006
- Protecting privacy in RHIOs.* CalRHIO Privacy Summit, San Francisco, CA October 2006
- Safeguarding patient privacy without compromising care.* HIMSS Webinar, October 2006
- Safeguarding patient privacy without compromising care.* Epic Users Group Meeting, Madison, WI September 2006
- Developing a Content Management System | Designing Functionality for Clinic-Administered Medication.* Epic Physician Advisory Council, Madison, WI March 2006
- Protecting patient privacy with personal accountability | Doctor-patient e-messaging: vendor-provider collaboration.* HIMSS Annual Conference, San Diego, CA February 2006
- An innovative collaboration in online doctor-patient communication: lessons learned, results achieved and future directions.* AMIA Annual Symposium, Washington, DC October 2005
- The patient's role in the EHR evolution*  
McKesson EHR Readiness Symposia, San Francisco, New York City & Chicago, October 2005.
- Safeguarding patient privacy without compromising care | The case of the missing film: UC Davis goes digital*  
Epic Users Group Meeting, Madison, WI September 2005
- Protecting patient privacy with personal accountability.* AMDIS Annual Conference, San Diego, CA July 2005
- Protecting patient privacy with personal accountability | Connecting patients and providers electronically.* TEPR Annual Conference, Salt Lake City, UT May 2005

## **ERIC M. LIEDERMAN, MD, MPH, CPE, FHIMSS**

*Physician-patient online communications.* Healthcare Intelligence Network Web Conference April 2005

*E-visits: data, disease and practice management.* HIMSS Annual Conference, Dallas, TX February 2005

*Online physician-patient communication.* CMA Leadership Academy, La Quinta, CA November 2004

*Creative ideas in managing privacy and security in the EMR.* Epic Users Group Meeting, Madison, WI September 2004

*Doctor-patient electronic communication in the U.S. & Europe.* Intl Med Informatics Assoc, San Francisco, Sept 2004

*Personal health records.* AMDIS Annual Conference, San Diego, CA July 2004

*Changing clinician workflow using digital imaging technology.* TEPR Annual Meeting, Fort Lauderdale, FL May 2004

*Electronic messaging.* Blue Cross Blue Shield National Council of Physician Executives, Chicago, IL May 2004

*Focus on patient safety.* Epic Physician Advisory Council, Madison, WI April 2004

*The personal health record.* HIMSS Annual Conference, Orlando, FL February 2004

*Doctor-patient electronic communication in the US and Europe.* TEHRE Annual Meeting, London, UK December 2003

*Doctor-patient webVisits: who pays...who wins?* Consumer Directed Healthcare Conference, Nashville, TN Nov. 2003

*What happens when doctors & patients communicate securely online? The UC Davis experience.*  
AHIMA National Convention, Minneapolis, MN October 2003

*Protecting patient privacy | Patient web messaging.* Epic Users Group Meeting, Madison, WI September 2003

*Virtual care at UC Davis.* AMDIS Annual Conference, San Diego, CA July 2003

*What happens when patients communicate with doctors online?* TEPR Annual Meeting, San Antonio, TX May 2003

*Patient-provider electronic messaging: two health systems' experience.*  
HIMSS Annual Conference, San Diego, CA Feb 2003

*Virtual care at UC Davis Health System.* AMDIS Annual Conference, Ojai, CA July 2002

*Analysis of adult otitis media: PCR vs. culture of bacteria, viruses and HIV.*  
Sixth International Symposium on Recent Advances in Otitis Media, Fort Lauderdale, FL September 1996