

**Christopher Demuth Sharp M.D.**  
Stanford University School of Medicine  
300 Pasteur Drive  
Stanford, California 94305  
Phone 650-723-0761

**EDUCATION:**

Undergraduate: *Northwestern University*  
B.A. in Music, 1986-1990

Pre-Medical: *Rutgers University*  
Pre-medical studies, 1992-1993

Medical School: *Dartmouth Medical School*  
M.D., 1994-1998

Postgraduate: *Stanford University Medical School*  
Internship, Internal Medicine, 1998-99  
Residency, Internal Medicine, 1999-01  
Chief Resident, Internal Medicine, 2001-02

**ADDITIONAL TRAINING:**

7/2001 *Stanford Faculty Development Seminar*  
Medical Decision Making

9/2001 *Stanford Faculty Development Seminar*  
Care of the Geriatric Patient

2/2003 *Institute for Health Care Improvement Collaborative, Boston MA*  
Patient Flow and Efficiency

9/2005-5/2006 *Stanford Physician Leadership Development Program, Stanford CA*  
Leadership and Change Management

11/2005-2/2006 *AMIA 10x10 Distance Learning Course on Biomedical Informatics at OHSU*  
Introduction to Clinical Informatics

4/2006-5/2006 *Epic Physician Overview and Core Fundamentals I, Madison WI*  
Introduction to Epic System's Application for Clinical Care

3/2010-11/2010 *California Health Leadership College, Berkeley CA*  
Leadership and Change Management in Healthcare

1/2012-4/2012 *Stanford Physician Advanced Leadership Development Program, Stanford CA*  
Leadership and Change Management

1/2013-2/2013 *Epic Physician Builder Class and Certification, Verona WI*  
Technical Software Training

**EMPLOYMENT:**

2001 – 2002                      *Palo Alto Veterans Affairs Hospital, Palo Alto, CA*  
Medical Staff, Department of Medicine  
Patient Care and Resident Supervision in  
Continuity Clinic, Urgent Care and Emergency Services

2002 – 2005                      *Stanford University School of Medicine, Stanford Hospital and Clinics*  
Clinical Instructor, Department of Medicine  
Medical Director, D/E Ground Inpatient Wards

2005 – 2009                      *Stanford University School of Medicine*  
Clinical Assistant Professor of Medicine, Department of Medicine

2006 – 2008                      *Stanford Hospital and Clinics*  
Medical Director for Clinical Informatics

4/2008 – 10/2008                *Stanford Hospital and Clinics*  
Acting Chief Medical Information Officer

10/2008 – 8/2013                *Stanford Hospital and Clinics*  
Associate Chief Medical Information Officer

6/2009 – 7/2019                *Stanford University Medical School*  
Clinical Associate Professor of Medicine, Department of Medicine

8/2013-Present                 *Stanford Health Care*  
Chief Medical Information Officer

7/2014-Present                 Stanford Clinical Informatics Fellowship, *Stanford School of Medicine*  
Mentor and Advisor

7/2019 – Present                *Stanford University Medical School*  
Clinical Professor of Medicine, Department of Medicine

**BOARD CERTIFICATION/LICENSURE:**

State Licensure, California, 7/1999  
American Board of Internal Medicine, Certification 8/2001  
Clinical Informatics Subspecialty Certification, American Board of Preventive Medicine, 11/2013

**HONORS:**

1997    DIHG-Dickey Foundation Fellowship to Study Medicine in a Developing Country  
2001    Award for Professionalism in a Member of the Medicine Housestaff  
2001    Charles Dorsey Armstrong Award for Excellence in Patient Care  
2001    Regional ACP-ASIM Clinical Vignette Poster Competition, 2<sup>nd</sup> Prize  
2003    Division of General Internal Medicine Teaching Award, *Stanford University School of Medicine*  
2005    David A. Rytand Clinical Teaching Award, *Stanford University School of Medicine*  
2010    HIMSS EMRAM Stage 7 Award, Hospital, *Stanford Health Care*  
2016    HIMSS EMRAM Stage 7 Award, Hospital and Ambulatory, *Stanford Health Care*  
2018    Member: Stanford Health Care Valley Care Hospital Board of Directors  
2021    HIMSS EMRAM Stage 7 Award, Hospital and Ambulatory, *Stanford Health Care*

## **PUBLICATIONS:**

### **PEER REVIEWED PUBLICATIONS**

- 2013 Eisenberg M, Hom J, **Sharp C**. The electronic health record as a healthcare management strategy and implications for obstetrics and gynecologic practice. *Current Opinion Obstetrical Gynecology*. 2013 Oct 31. [Epub ahead of print] PMID:24185005
- 2015 Downing NL, Lane S, Eisenberg M, **Sharp C**, Palma J; Northern California HIE Working Group, Longhurst C. An Exponential Increase in Regional Health Information Exchange With Collaborative Policies and Technologies. *Stud Health Technol Inform*. 2015;216:931.
- 2016 Winget M, Haji-Sheikhi F, Brown-Johnson C, Rosenthal EL, **Sharp C**, Buyyounouski MK, Asch SM. Electronic Release of Pathology and Radiology Results to Patients: Opinions and Experiences of Oncologists. *J Oncol Pract*. 2016 Aug;12(8):e792-9.
- 2017 DiAngi Y, Lee TC, Sinsky CA., Bohman BD, **Sharp CD**. Novel Metrics for Improving Professional Fulfillment. *Annals of Internal Medicine*. 2017; 167 (10): 740–41.
- 2017 Downing NL, Adler-Milstein J, Palma JP, Lane S, Eisenberg M, **Sharp CD**, Longhurst CA. Health information exchange policies of 11 diverse health systems and the associated impact on volume of exchange. *Journal of the American Medical Informatics Association*. 2017; 24 (1): 113-122
- 2018 Kim GE, Afanasiev OK, O'Dell C, **Sharp CD**, Ko JM. Implementation and evaluation of Stanford Health Care store-and-forward teledermatology consultation workflow built within an existing electronic health record system. *Journal of telemedicine and telecare*. 2018 Oct 9:1357633X18799805.
- 2019 Tai-Seale M, Downing NL, Goel Jones V, Milani RV, Zhao BM, Clay B, **Sharp CD**, Ko Chan AS, Longhurst CA. Technology-Enabled Consumer Engagement: Promising Practices at Four Health Care Delivery Organizations. *Health Affairs*. (accepted, in press)
- 2019 Li RC, Wang JK, **Sharp C**, Chen JH. When order sets do not align with clinician workflow: assessing practice patterns in the electronic health record. *BMJ Quality & Safety* Published Online First: 04 June 2019. doi: 10.1136/bmjqs-2018-008968
- 2019 Chin, K., Hom, J., Tan, M., **Sharp, C.**, Wang, S., Chen, Y., Chen, D. Effect of Electronic Clinical Decision Support on 25(OH) Vitamin D Testing *Journal of General Internal Medicine*. 2019; 34 (9): 1697–99
- 2019 Chen, D., Bhambhani, H. P., Hom, J., Mahoney, M., Wintermark, M., **Sharp, C.**, Ratliff, J., Chen, Y. R. Effect of Electronic Clinical Decision Support on Imaging for the Evaluation of Acute Low Back Pain in the Ambulatory Care Setting. *World neurosurgery*. 2019 Nov 13. pii: S1878-8750(19)32867-0.
- 2020 Sinsky, C. A., Rule, A., Cohen, G., Arndt, B. G., Shanafelt, T. D., Sharp, C. D., Baxter, S. L., Tai-Seale, M., Yan, S., Chen, Y., Adler-Milstein, J., Hribar, M. Metrics for assessing physician activity using electronic health record log data. *J Am Med Inform Assoc*. 2020 Feb 6. pii: ocz223. doi: 10.1093/jamia/ocz223. [Epub ahead of print] DOI 10.1093/jamia/ocz223

- 2020 Chin KK, Svec D, Leung B, **Sharp C**, Shieh L. E-HeaRT BPA: electronic health record telemetry BPA [published online ahead of print, 2020 May 28]. *Postgrad Med J*. 2020;postgradmedj-2019-137421. doi:10.1136/postgradmedj-2019-137421
- 2020 Vilendrer, S., Patel, B., Chadwick, W., Hwa, M., Asch, S., Pageler, N., Ramdeo, R., Saliba-Gustafsson, E. A., Strong, P., **Sharp, C**. Rapid Deployment of Inpatient Telemedicine In Response to COVID-19 Across Three Health Systems [published online ahead of print, 2020 Jun 4]. *J Am Med Inform Assoc*. 2020;ocaa077. doi:10.1093/jamia/ocaa077
- 2020 Srinivasan, Malathi, Phadke, Anuradha Jayant, Zulman, Donna, Israni, Sonoo Thadaney, Madill, Evan Samuel, Savage, Thomas Robert, Downing, Norman Lance, Nelligan, Ian, Artandi, Maja, and **Sharp, Christopher**. "Enhancing Patient Engagement during Virtual Care: A Conceptual Model and Rapid Implementation at an Academic Medical Center." *NEJM Catalyst Innovations in Care Delivery*, July 10, 2020. <http://catalyst.nejm.org/doi/abs/10.1056/CAT.20.0262>.
- 2020 Phadke, A., Sattler, A., Shah, S., Mahoney, M., Sharp, C., Ng, S., Kim, M., Weng, Y. I., Safaeinili, N., Brown-Johnson, C., Desai, M. "Making a List and Checking it Twice": A High Blood Pressure Advisory in Primary Care." Springer. 2020: S667–S668.
- 2020 Shah, S., Lu, C., Tsai, S. A., Reisenberg, A., Calugar, A., Filipowicz, H., Sharp, C., Phadke, A. It Takes a Village: Comparative Analysis of Strategies to Improve Provider Engagement for Weight Management at an Academic Medical Center. Springer. 2020: S667–S668.
- 2020 Roy, M., Neal, J. W., Bugos, K., **Sharp, C.**, Falconer, P., Rosenthal, E., Blayney, D. W., Modaressi, S., Robinson, A., Ramchandran, K. Distress screening through PROMIS at an academic cancer center and network site: Implementation of a hybrid model. *American Society of Clinical Oncology*. 2020
- 2020 Holmgren, A. J., Downing, N. L., Bates, D. W., Shanafelt, T. D., Milstein, A., Sharp, C. D., Cutler, D. M., Huckman, R. S., Schulman, K. A. Assessment of Electronic Health Record Use Between US and Non-US Health Systems. *JAMA internal medicine*. 2020 Dec 14;e207071. doi: 10.1001/jamainternmed.2020.7071.
- 2021 Neal, J. W., Roy, M., Bugos, K., **Sharp, C.**, Galatin, P. S., Falconer, P., Rosenthal, E. L., Blayney, D. W., Modaressi, S., Robinson, A., Ramchandran, K. Distress Screening Through Patient-Reported Outcomes Measurement Information System (PROMIS) at an Academic Cancer Center and Network Site: Implementation of a Hybrid Model. *JCO oncology practice* 2021: OP2000473
- 2021 Ruiz Colón, G., Yang, J., Svec, D., Heidenreich, P., Britt, P., Smith, M., **Sharp, C.**, Shieh, L. Physicians Leading Physicians: A Physician Engagement Intervention Decreases Inappropriate Use of IICU Level of Care Accommodations. *Am J Med Qual*. 2021 Apr 20. doi: 10.1097/01.JMQ.0000735480.43566.f9. PMID: 33883423
- 2021 Patel B, Vilendrer S, Kling SMR, Brown I, Ribeira R, Eisenberg M, **Sharp C**. Using a Real-Time Locating System to Evaluate the Impact of Telemedicine in an Emergency Department During COVID-19: Observational Study. *J Med Internet Res*. 2021 Jul 26;23(7):e29240. doi: 10.2196/29240. PMID: 34236993
- 2021 Holmgren, A. J., Downing, N. L., Tang, M., **Sharp, C.**, Longhurst, C., Huckman, R. S. Assessing the impact of the COVID-19 pandemic on clinician ambulatory electronic health record use. *Journal of the American Medical Informatics Association*. PMID: 34888680

- 2021 Sinha, A., Shanafelt, T. D., Trockel, M., Wang, H., **Sharp, C.** Novel Nonproprietary Measures of Ambulatory Electronic Health Record Use Associated with Physician Work Exhaustion. *Applied clinical informatics*, 2021; 12 (3): 637-646
- 2021 Neal, J. W., Roy, M., Bugos, K., **Sharp, C.**, Galatin, P. S., Falconer, P., Rosenthal, E. L., Blayney, D. W., Modaressi, S., Robinson, A., Ramchandran, K. Distress Screening Through Patient-Reported Outcomes Measurement Information System (PROMIS) at an Academic Cancer Center and Network Site: Implementation of a Hybrid Model. *JCO oncology practice*. 2021: OP2000473
- 2021 Singhal, S., Krishnamurthy, A., Wang, B., Weng, Y., Sharp, C., Shah, N., Ahuja, N., Hosamani, P., Periyakoil, V. S., Hom, J. Effect of electronic clinical decision support on inappropriate prescriptions in older adults. *J Am Geriatr Soc*. 2022 Mar;70(3):905-908. doi: 10.1111/jgs.17608. Epub 2021 Dec 7.
- 2022 Ho, V. T., Aikens, R. C., Tso, G., Heidenreich, P. A., **Sharp, C.**, Asch, S. M., Chen, J. H., Shah, N. K. Interruptive Electronic Alerts for Choosing Wisely Recommendations: A Cluster Randomized Controlled Trial. *J Am Med Inform Assoc*. 2022 Aug 26;ocac139. doi: 10.1093/jamia/ocac139.
- 2022 Dixit, R. A., Ratwani, R. M., Bishop, J. A., Schulman, K., **Sharp, C.**, Palakanis, K., Booker, E. The impact of expanded telehealth availability on primary care utilization. *NPJ digital medicine*. 2022; 5 (1): 141. DOI 10.1038/s41746-022-00685-8
- 2023 Amano, A., Brown-Johnson, C. G., Winget, M., Sinha, A., Shah, S., Sinsky, C. A., **Sharp, C.**, Shanafelt, T., Skeff, K. Perspectives on the Intersection of Electronic Health Records and Health Care Team Communication, Function, and Well-being. *JAMA network open*. 2023; 6 (5): e2313178

## **BOOK CHAPTERS**

- 2004 Walsh J, Sundaram V, Nayak S, Davies S, Lewis R, Mechanic J, **Sharp CD**, Henne M, Shah, B, Chan JK, Goldstein MK. Chapter 5. Quality Improvement Strategies For Hypertension. In: Shojania KG, McDonald KM, Wachter RM, Owens DK. *Closing the Quality Gap: A Critical Analysis of Quality Improvement Strategies, Volume 3 Diabetes Mellitus and Hypertension*. (Evidence Report/Technology Assessment No. 9, Prepared by the Stanford University - University of California San Francisco Evidence-based Practice Center under Contract No. 290-02-0017). AHRQ Publication No. 04-0051-3. Rockville, MD: Agency for Healthcare Research and Quality. January 2005.
- 2006 DM Bravata, V Sundaram, R Lewis, K Hertz, M Gould, H Paguntalan, KM McDonald, **C Sharp**, J Kim, E Wang, L Chamberlain, L Shieh, J-EC Holty, DK Owens. *Asthma Care. Vol 5 of: Shojania KG, McDonald KM, Wachter RM, Owens DK, editors. Closing the Quality Gap: A Critical Analysis of Quality Improvement Strategies. Technical Review 9e Stanford University—UCSF Evidence-based Practice Center, Agency for Healthcare Research and Quality. Contract No. 290-02-0017 (In press - AHRQ to provide the remainder)*
- 2015 C Longhurst, **C Sharp**. TH Payne, editor. *Implementation and Transition to Operations. Practical Guide to Clinical Computing Systems, Second Edition: Design, Operations, and Infrastructure*. Elsevier Publications.

- 2018            **Sharp C**, Stevens L. The Electronic Health Record and Order Entry Systems and Physician Wellness. Laura Weiss Roberts and Mickey Trockel, editors. The Art and Science of Physician Wellbeing. Springer Publications.

**NON-PEER REVIEWED AND INVITED PUBLICATIONS**

- 9/2004            Anne Chang, M.D.; H. Bradford Hawley, M.D.; Karen E. Kalumuck, Ph.D.; Laurence M. Katz, M.D.; Nancy A. Piotrowski, Ph.D.; Connie Rizzo, M.D., editors. Magill's Medical Guide, Third Revised Edition. **Sharp CD**. Conjunctivitis.
- 9/2004            Anne Chang, M.D.; H. Bradford Hawley, M.D.; Karen E. Kalumuck, Ph.D.; Laurence M. Katz, M.D.; Nancy A. Piotrowski, Ph.D.; Connie Rizzo, M.D., editors. Magill's Medical Guide, Third Revised Edition. **Sharp CD**. Preventive medicine: Full-body scans.
- 7/2015            Nath PA, **Sharp CD**. Invited commentary: A User-Centered Design Approach to Information Sharing for Older Patients and Their Families. JAMA Int Med. 2015 Jul 6.

**TEACHING MODULES, NON-PEER REVIEWED**

- Sharp, Christopher, MD "Tremor" March, 2003  
 Sharp, Christopher, MD "Prevention: What Makes a Good Screening Test?" March, 2004  
 Sharp, Christopher, MD "Ophthalmology for the Internist" May, 2004  
 Sharp, Christopher, MD "Syncope." April, 2005  
 Sharp, Christopher, MD "Towards Optimal Patient Safety: Individual and System Factors in Diagnostic Errors." May, 2005  
 Sharp, Christopher, MD "Billing and Coding" July, 2005  
 Sharp, Christopher, MD "Prevention: What Makes a Good Screening Test?" (revised) July, 2005  
 Sharp, Christopher, MD "Venous Insufficiency" June, 2006  
 Sharp, Christopher, MD "Prevention: What Makes a Good Screening Test?" (revised) July, 2006  
 Sharp, Christopher, MD "Low Back Pain: Diagnosis and Management" November, 2006  
 Sharp, Christopher, MD "Dysmenorrhea and Endometriosis" December, 2006  
 Sharp, Christopher, MD "Lung Cancer Screening: Latest Evidence." October, 2007  
 Sharp, Christopher, MD "SSRIs: Practical Aspects of Prescribing." June, 2008  
 Sharp, Christopher, MD "Abdominal Aortic Aneurysm." October, 2008  
 Sharp, Christopher, MD "Lower Extremity Edema." April, 2009  
 Sharp, Christopher, MD "Headache." November, 2009  
 Sharp, Christopher, MD "Hypertension – The JNC 7 Guidelines" June, 2010  
 Sharp, Christopher, MD "Abnormal Vaginal Bleeding." September, 2010  
 Sharp, Christopher, MD "Type II Diabetes Mellitus: Diagnosis and Treatment" October, 2011  
 Sharp, Christopher, MD "Prostate Cancer Screening by PSA Testing" April, 2013  
 Sharp, Christopher, MD "Nephrolithiasis" November, 2013  
 Sharp, Christopher, MD, Downing, Norman L. "Improving Patient Engagement with Shared Notes" October, 2015  
 Sharp, Christopher, MD "Management of Concussion in Primary Care" November, 2016  
 Sharp, Christopher, MD, Downing, Norman L. "Digital Connected Devices in Primary Care" June, 2018  
 Sharp, Christopher, MD, Shah, Shreya MD. "Managing Patient Telephone Calls and Messages" Feb, 2020

**POSTERS / ABSTRACTS:**

- 2002           **Sharp CD.** Pulmonary Arteriovenous Malformation: An Uncommon Cause of Transient Ischemic Attack.  
ACP-ASIM National Convention, Clinical Vignette Abstract and Poster
- 2003           Hastings SN, **Sharp CD.** Whole-body CT Scans: Hidden Costs.  
ACP-ASIM National Convention, Clinical Vignette Abstract and Poster
- 2006           Schirmer PL, Posley K, **Sharp CD,** Garcia G. Metastatic Prostate Cancer and Refractory GI Bleeding.  
ACP California Regional Meeting, Clinical Vignette Abstract and Poster
- 2016           M Winget, F Sheikhi, E Rosenthal, **C Sharp,** M Buyyounouski, S Asch. Oncologists' opinions and experiences with electronic release of radiology and pathology results to patients. 2016 ASCO Quality Care Symposium, Use of IT to Improve Quality  
<http://meetinglibrary.asco.org/content/161061-181>

#### **INVITED LECTURES AND PRESENTATIONS:**

- 5/2002 "Luxury Health Screening", Stanford University Grand Rounds (local)
- 4/2003 Co-presenter, "Getting Started on Your First C.Q.I. Project", Workshop at the Society of General Internal Medicine National Conference, Vancouver, BC (national)
- 5/2003 "Luxury Health Screening", Vaden Student Health, Stanford (local)
- 6/2003 "Pneumococcal Vaccine and Community Acquired Pneumonia", Lumetra Pneumonia Quality Improvement Collaborative, Ontario, CA (national)
- 3/2004 Co-presenter, "Novel Screening Techniques", Stanford DGIM Clinical Conference (regional)
- 4/2004 "Evaluation of the Red Eye", Vaden Student Health, Stanford (local)
- 4/2004 "Pneumococcal Vaccine and Blood Cultures in CAP Patients", Lumetra Pneumonia Quality Improvement Collaborative, Orange County, CA (national)
- 4/2004 "Pneumococcal Vaccine and Blood Cultures in CAP Patients", Lumetra Pneumonia Quality Improvement Collaborative, Sacramento, CA (national)
- 5/2004 Co-presenter, "Getting Started on Your First C.Q.I. Project", Pre-Course at the Society of General Internal Medicine National Conference, Chicago, IL (national)
- 6/2004 "Pneumococcal Vaccine and Blood Cultures in CAP Patients", Lumetra Pneumonia Quality Improvement Collaborative, Fresno, CA (regional)
- 7/2004 "Blood Cultures in Patients with Community Acquired Pneumonia", Lumetra Pneumonia Quality Improvement Collaborative, Ontario, CA (regional)
- 3/2006 "Utilizing Evidenced-Based Medicine to Effect System-Wide Improvements in Care for Patients with Pneumonia", Lumetra Appropriate Care Measures Collaborative, Anaheim, CA (national)
- 11/2006 Appropriate Care Measure "Quality Care in Pneumonia: Updates, Controversies, and Avoiding Pitfalls", Lumetra Appropriate Care Measures Collaborative, WebEx (national)
- 2/2007 Appropriate Care Measure "Quality Care in Pneumonia: Updates, Controversies, and Avoiding Pitfalls", Lumetra Appropriate Care Measures Collaborative, WebEx (regional)
- 2/2007 Appropriate Care Measure "The Physician's Role in the Quality of Care for Patients with Pneumonia", Lumetra Appropriate Care Measures Collaborative, WebEx (regional)
- 5/2007 Appropriate Care Measure "The Future of Quality Care in Pneumonia", Lumetra Appropriate Care Measures Collaborative, Los Angeles, CA (regional)
- 11/2007 Stanford Hospitals and Clinics Electronic Health Record Community Physician Forum #1 (local)
- 1/2008 Stanford Hospitals and Clinics Electronic Health Record Community Physician Forum #2 (local)
- 3/2008 Stanford Hospitals and Clinics Electronic Health Record Community Physician Forum #3 (local)
- 3/2009 "Physicians as Go-Live Support" with Kevin Larsen MD, FACP, EpicSystems Physicians Advisory Council National Meeting, Verona, WI (national)

- 4/2009 “Physician Hand-off: Best Practice Using Epic for Sign-Out” with Joseph Kannry MD and Kevin Larsen MD, FACP, EpicSystems Academic Advisory Council National Meeting, Verona, WI (national)
- 9/2009 “Improving an Ambulatory Roll-Out Midstream” with Lynda Wolfe, RN, EpicSystems User Group National Meeting, Verona, WI (national)
- 4/2010 “Chart Etiquette: Documentation for Integrity & Quality”, EpicSystems Academic Advisory Council National Meeting, Verona, WI (national)
- 9/2010 “Not Mine! Closing the Loop on Deferred Verbal Orders”, with Connie Taylor, RN, MPA, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 4/2011 “Meaningful Use Quality Measure and Tools to Improve Compliance”, with Anshul Pande, Kailyn Gee, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 9/2012 “Optimizing Clinical Decision Support”, with CJ Garst, EpicSystems User Group National Meeting, Verona, WI (national)
- 4/2013 “Use of a Multi-disease Registry to Improve Outcomes and Workflow”, with Matthew Eisenberg MD, Jorge Wilson, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 8/2013 “Multi-disease Registry: Improving Outcomes and Workflow”, with Ann Lindsay MD, EpicSystems User Group National Meeting, Verona, WI (national)
- 4/2014 “Copy-Paste in Clinical Informatics”, with CT Lin MD, Katie Markley and Ann Boyer MD, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 4/2014 “Haiku and Canto Discussion Panel”, with Keith Griffin MD and Heath Whaley, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 4/2014 “Collaborating with Your Compliance Department”, with Brett Moran MD, EpicSystems Advisory Council National Meeting, Verona, WI (national)
- 2/2017 “How to Wire and Scale Primary Care Innovation”, with Sandeep Acharya and Edwin Miller, HIMSS national conference, Orlando, FL (national)
- 5/2017 “Choosing Wisely: Easier Said Than Done”, with Neil Shah MD, Epic Advisory Council National Meeting, Verona, WI (national)
- 5/2017 “Evaluating Clinical Decision Support: Severe Sepsis Alert Randomization”, with N. Lance Downing MD, Epic Advisory Council National Meeting, Verona, WI (national)
- 6/2017 “Precision Health Care”, with Megan Mahoney MD, HIMSS Precision Medicine national conference, Boston, MA (national)
- 11/2017 U. Colorado Visiting Professor. “Physician Resilience”, UC Seminars in Informatics, Denver, CO (regional)
- 11/2017 U. Colorado Visiting Professor. “Clinical Decision Support and Choosing Wisely”, UC Seminars in Informatics, Denver, CO (regional)
- 11/2017 U. Colorado Visiting Professor. “Transparency of health information”, UC Seminars in Informatics, Denver, CO (regional)
- 11/2017 U. Colorado Visiting Professor. “Physician Wellness and Burnout: Resilience and Practice Efficiency”, Colorado Health Information Management Systems Society, Denver, CO (regional)
- 6/2018 EHR National Symposium “Removing Friction from the Physician User Experience”, moderator and speaker, Stanford, CA (national)
- 7/2018 UCSD Visiting Professor. “Professional Wellness and the EHR: Disentangling the Gordian Knot”, San Diego, CA (regional)
- 7/2018 National Cancer Care Network (NCCN) EHR Advisory Group “Wellness, Burnout and the EHR”, Philadelphia, PA, WebEx (national)
- 8/2018 Machine Learning for Healthcare Conference “What Data Gets Produced in a Hospital” Stanford, CA (regional)
- 8/2018 “Physician Wellness and the EHR”, CEO Council, Epic Advisory Council National Meeting, Verona, WI (national)
- 9/2018 National Cancer Care Network (NCCN) Best Practices Committee. “Wellness, Burnout and the EHR”, Philadelphia, PA, WebEx (national)
- 1/2019 Stanford Medicine Digital Health Symposium. “Digital Health Update”, moderator and speaker, San Francisco, CA (national)
- 2/2019 “What’s Holding You Back from Your EHR Revolution?”, with Taylor Davis, HIMSS national conference, Orlando, FL (national)



- 8/2019 “Safety Forum: How to Win at Leapfrog Without Annoying Your Providers”, Epic Systems National Meeting, Verona, WI (national)
- 8/2019 “Understanding the Impact of the EHR on Physician Wellness and Burnout”, Epic Systems National Meeting, Verona, WI (national)
- 8/2019 “Measuring and Improving the OpenNotes Experience”, Epic Systems National Meeting, Verona, WI (national)
- 8/2019 “Digital health technology – now and new frontiers”, Moderator, Digital Health in the Rural American West Symposium, Stanford Medicine, Stanford, CA (national)
- 9/2019 “Digital Health Innovations at Stanford Medicine”, Scottsdale Institute Digital Health Summit, Chicago, IL (national)
- 4/2020 “Role of the CMIO in COVID-19 Response”, Scottsdale Institute CMIO Dialogue, Virtual Seminar (national)
- 9/10/2020 “Crossing the virtual Chasm: Rethinking Curriculum, Competency and Culture in the Virtual Era”, Partner’s Healthcare, Virtual Seminar (national)
- 10/2020 “Clinician Wellness in the time of COVID-19”, Scottsdale Institute CMIO Dialogue, Virtual Seminar (national)
- 10/2021 “Burnout, Burden and the EHR: Paths Forward”, Dept. of Medicine Grand Rounds, Northwestern Medicine (national)
- 7/2022 “Driving Clinical and Organizational Value in Digital Health”, Rambam- Stanford-Medicine Symposium, Haifa, Israel (international)

**TEACHING LECTURES AND PRESENTATIONS (TO STUDENTS / RESIDENTS / FELLOWS):**

- 4/2003 “Evaluation of the Red Eye”, Stanford University Medical School (to residents)
- 10/2003 “Evaluation of the Red Eye”, Stanford University Medical School (to residents)
- 6/2004 Co-presenter, “Novel Screening Techniques”, Stanford University Medical School (to residents)
- 7/2004 “Evaluation of the Red Eye”, Stanford University Medical School (to residents)
- 9/2004 “Medical Errors”, Stanford University Medical School (to residents)
- 8/2005 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 7/2006 “Medical Errors”, Stanford University Medical School (to residents)
- 10/2006 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 1/2008 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 2/2008 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)
- 3/2008 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 4/2008 “Electronic Medical Record in the Practice of Medicine” (to medical students)
- 4/2008 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)
- 5/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 5/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)
- 5/2008 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)
- 5/2008 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 6/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 6/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)
- 7/2008 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)
- 7/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 7/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)
- 8/2008 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 8/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 8/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)
- 9/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 9/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)
- 10/2008 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)
- 10/2008 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)
- 10/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)
- 10/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

11/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

11/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

12/2008 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

12/2008 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

1/2009 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

1/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

1/2009 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

2/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

2/2009 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

3/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

3/2009 “Use and optimization of Stanford’s Electronic Medical Record: Cardiology” (to residents)

4/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

4/2009 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

6/2009 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

8/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

9/2009 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

11/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

12/2009 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

1/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

1/2010 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

3/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

4/2010 “Evidence Based Practice” Panel Participation (to students)

5/2010 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

5/2010 “Optimizing Patient Sign-out for Medicine Residents” with Neera Ahuja MD, Chris Lee-Messer MD, Patrick Gibbons MD, Kambria Hooper MD, Megan Ramsey MD (to residents)

5/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

6/2010 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

7/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

8/2010 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

8/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

10/2010 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

1/2011 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

1/2011 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

2/2011 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

4/2012 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

6/2012 “Use and optimization of Stanford’s Electronic Medical Record: General Medicine” (to residents)

8/2012 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

1/2013 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

5/2013 “Examination and Management of Shoulder”, Stanford University Medical School (to residents)

11/2013 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

10/2014 “Ophthalmology for the Internist”, Stanford University Medical School (to residents)

2/2015 “Unintended Consequences”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2016 “Unintended Consequences”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2017 “Regulatory and Incentive Impacts on Health Information Technology”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2018 “Regulatory Impacts on Health Information Technology”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2019 “Usability, Clinician Wellness and Health Information Technology”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2020 “Regulatory Influences on Health Information Technology”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

2/2021 “Usability”, Stanford University Medical School (BMI208 to Biomedical Informatics fellows)

10/2021 “Burnout, Burden and the EHR: Paths Forward”, Stanford University Medical School (to Clinical Informatics fellows)

11/2023 “Burnout, Burden and the EHR In Basket”, Stanford University Medical School (to Clinical Informatics fellows)

#### **TEACHING AND MENTORSHIP:**

- 2002 Instructor, Preparation for Clinical Medicine – Part B, “Bedside History and Exam”  
2002 Instructor, Preparation for Clinical Medicine – Part A, “Physical Exam Skills”  
2004 Instructor, Preparation for Clinical Medicine – Part C, “Introduction to Clinical Problem Solving”  
2004 Instructor, Preparation for Clinical Medicine – Part A, “Physical Exam Skills”  
2005 Instructor, Ambulatory Medicine Clerkship Med 313, 2005-2007  
2005 Advisory, Resident Quality Improvement Group, 3/05-6/06  
2006 Instructor, Practice of Medicine Ambulatory Clinical Practicum, 2006-2008  
2007 Leadership Coach, *Stanford Physician Leadership Development Program*  
2013 Mentor and Advisor, *Stanford Medical Direction Leadership*, 2013-present  
2013-2017 Paul Maggio MD, mentor and project supervision, 2 hr/mo  
2013-present Ian Brown MD, mentor and project supervision, 2 hr/mo  
2013-present Matthew Eisenberg MD, mentor and project supervision, 2 hr/mo  
2013-present Michael Kim MD, mentor and project supervision, 2 hr/mo  
2013-present Clifford Schmiesing MD, mentor and project supervision, 2 hr/mo  
2013-present Joel Neal MD, mentor and project supervision, 2 hr/mo  
2013-present Neil Shah MD, mentor and project supervision, 2 hr/mo  
2013-present Andrew Shelton MD, mentor and project supervision, 2 hr/mo  
2014-present Curtis Langlotz MD, mentor and project supervision, 2 hr/mo  
2015-present Winifred Teuteberg MD, mentor and project supervision, 2 hr/mo  
2016-2018 N. Lance Downing MD, mentor and project supervision, 2 hr/mo  
2016-present Weihan Alex Chu MD, mentor and project supervision, 1 hr/mo  
2018-present Patricia Garcia MD, mentor and project supervision, 2 hr/mo  
2018-present Javier Lorenzo MD, mentor and project supervision, 2 hr/mo  
2018-present Lawrence “Rusty” Hofmann MD, mentor and project supervision, 2 hr/mo  
2018-present Jason Hom MD, mentor and project supervision, 2 hr/mo  
2019-present Shreya Shah MD, mentor and project supervision, 2 hr/mo  
2019-present Ron Li MD, mentor and project supervision, 2 hr/mo  
2020-present Alexander Perino MD, mentor and project supervision, 2 hr/mo
- 2014 Mentor and Advisor, *Stanford Clinical Informatics Fellowship*, 2014-present  
2014-2016 N. Lance Downing MD, mentor and project supervision, 4 hr/mo  
2015-2017 Yumi DiAngi MD, mentor and project supervision, 4 hours/month  
2015-2017 Yaniv Kerem MD, mentor and project supervision, 1 hour/month  
2016-2018 Richard Medford MD, mentor and project supervision, 1 hr/mo  
2017-2019 Ron Li MD, mentor and project supervision, 4 hours/month  
2019-2021 Birju Patel MD, mentor and project supervision, 1 hour/month  
2020-2022 Amrita Sinha MD, mentor and project supervision, 2 hr/mo  
2020-2022 Oluseyi Fayanju MD, mentor and project supervision, 1 hour/month
- 2017 Leadership Coach, *Stanford Physician Leadership Development Program*  
2017 Megan Albertelli, DVM, PhD, project consultation, 1 hour/month x 2 months
- 2020 Member, Faculty Advisory Board, *Stanford Master’s in Clinical Informatics Management*

#### **REVIEW AND SERVICE ACTIVITIES:**

- 2005 Member, Workshop Review Committee for Clinical Vignettes, Society of General Internal Medicine Annual Meeting, New Orleans, LA
- 2005 Member, Abstract Review Committee for Clinical Vignettes, Society of General Internal Medicine Annual Meeting, New Orleans, LA
- 2005 Member, Abstract Review Committee for Clinical Vignettes, Society of General Internal Medicine California Regional Meeting, Los Angeles, CA
- 2006 Member, Workshop Review Committee for Innovations in Education, Society of General Internal Medicine Annual Meeting, Los Angeles, CA
- 2006 Member, Abstract Review Committee for Clinical Vignettes, Society of General Internal Medicine Annual Meeting, Los Angeles, CA
- 2007 Member, Data Safety Monitoring Board, Pine Bark Clinical Trial in Cardiac Risk, 10/06-8/08
- 2007 Member, Abstract Review Committee for Clinical Vignettes, Society of General Internal Medicine Annual Meeting, Toronto
- 2018 Member, Epic Physicians Advisory Council Advisory Board for Presentation Submissions
- 2019 Member, Epic Physicians Advisory Council Advisory Board for Presentation Submissions
- 2020 Member, Epic Physicians Advisory Council Advisory Board for Presentation Submissions
- 2021 Member, Epic Physicians Advisory Council Advisory Board for Presentation Submissions

**MEDICAL INFORMATICS ACTIVITIES:**

- Member, Information Technology Patient Care Governance Council, 1/05-6/05
- Member, Electronic Multi-Disciplinary Documentation Physician Advisory Group, 3/05-5/06
- Member, Stanford Information Technology Clinical Advisory Group, 4/05-9/06
- Member, Electronic Multi-Disciplinary Documentation Executive Team, 1/06-9/06
- Member, SHC Governance Council for Information Technology Budget Decisions, 1/06-12/06
- Member, Epic Design Parameters Team (Institutional System Process Redesign prior to EHR) 1/06-8/06
- Leader, Medical Informatics Director's Working Group (EHR Oversight), 6/06-present  
EHR design, strategic decisions, work-flow decisions, content development, optimization
- Leader, Electronic Inpatient Progress Note Template Design and Implementation, 7/06-12/06
- Member, Handheld Clinical Information Pilot, 8/06-10/06
- Member, Clinical Content Team 9/06-4/08
- Member, Consumer Portal Working Group, 2/07-7/08
- Chair, Clinical Decision Support Committee, 6/07-present
- Member, Cancer Center Steering Committee, 6/08-2/09
- Co-Chair, Ambulatory Care Steering Committee, 6/08-4/2014
- Chair, EHR Consumer Portal (MyHealth) Working Group, 7/08-9/2009
- Member, Therapeutic Heparin Protocols Revision, 9/08-2/09
- Leader, Verbal Orders Completion Project, 12/08-5/2010
- Leader, Optimization of Communication to Referring Providers, 6/09-3/10
- Leader, EHR Voice Recognition Pilot, 9/09-3/10
- Co-Chair, MyHealth Portal Executive Committee and Portfolio Management, 9/2009-present
- Member, EHR Community Outreach Project, 10/09-1/2011
- Leader, Optimization of Medication Reconciliation, 12/09-4/10
- Leader, Multi-Media Committee, 1/2010-2/2011
- Leader, e-Prescribing Implementation in Ambulatory Clinics, 8/2010-2/2011
- Leader, Epic EHR to the Community, 2/2011-6/2016

**COMMITTEE SERVICE:**

- Member, Department of Medicine Quality Assurance Committee, Stanford Hospital, 2001-2006
- Member, Inpatient Flow Efficiency Committee, Stanford Hospital, 2002-2006
- Leader, Internal Medicine – Emergency Medicine Committee, Stanford Hospital, 2002-2006
- Leader, Admission Service Selection for Emergency Department Patients project, Stanford, 10/03-1/05
- Member, Community Acquired Pneumonia Quality Improvement Group, Stanford Hospital, 2002-5/09
- Member, Diabetes Quality Improvement Group, Stanford Medical Group, 3/04-3/06

Member, DVT Prevention Quality Improvement Committee, Stanford Hospital, 8/04-8/05  
 Member, Health Information Management Services Committee, Stanford Hospital, 9/04-3/09  
 Leader, Electronic Sign-Out Project for Medicine Housestaff, 10/04-7/05  
 Leader, Redesign of Medicine H&P and Progress Note template, 1/05-4/05  
 Member, Inpatient Diabetes Care Improvement Project, 1/05-5/06  
 Member, Stanford Hospitalist Program Working Group, 4/05-7/05  
 Member, Primary Care / Generalist Strategies Working Group, 4/05-8/05  
 Member, Early Discharge Process Excellence Quality Improvement Team, 5/05-9/05  
 Leader, Pneumonia Process Excellence Quality Improvement Team: Time to Antibiotic, 1/06-5/06  
 Member at Large, Medical Executive Committee, 10/06-10/09  
 Physician Leader, SBAR Technique for Hand-offs and Sign-out, 7/06-6/07  
 Member, Stanford Family Abuse Prevention Council, 3/07-9/07  
 Chair, Health Information Management Services Committee, Stanford Hospital, 3/2009-10/2021  
 Member, Medication Error Reduction Plan Task Force, 2/10-1/2011  
 Member, Clinic Advisory Council, 4/2010-5/2015  
 Member, Service Medical Director's Committee, 6/2010-2015  
 Member, Discharge Improvement Project, 2/2011-2013

**COMMUNITY SERVICE:**

1994-1996                    *Health Education and Rescue Training, Hanover, NH*  
                                     o Treasurer, educator of CPR and First Aid  
 1994-1996                    *Women's Information Service & Education, Hanover, NH*  
                                     o Director, educator for Domestic Violence Awareness program  
 1998 – 2002                *Los Medicos Voladores, Palo Alto, CA*  
                                     o Volunteer, medical aid to Mexico  
 2002 – 2007                *Arbor Free Clinic, Menlo Park, CA*  
                                     o Volunteer, supervisor to medical students caring for uninsured patients

**PROFESSIONAL ORGANIZATIONS:**

Member, American College of Physicians, 2001 – present  
 Member, Society of General Internal Medicine, 2001 – present  
 Member, American Medical Informatics Association, 2006 – present  
 Member, American Medical Directors of Informatics, 2007 – present  
 Affiliate Member, Stanford Medicine Center for Improvement, 2020 – present