Stanford

Michael Adam Pfeffer

Chief Information Officer, Stanford Health Care and Stanford School of Medicine, Associate Dean, Stanford School of Medicine, and Clinical Professor, Medicine

Medicine

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Michael A. Pfeffer, MD, FACP serves as Chief Information Officer and Associate Dean for Stanford Health Care and Stanford University School of Medicine. Michael oversees Technology and Digital Solutions (TDS), responsible for providing world class technology solutions to Stanford Health Care and School of Medicine, enabling new opportunities for groundbreaking research, teaching, and compassionate care across two hospitals and over 150 clinics. TDS supports Stanford Medicine's mission to improve human health through discovery and care and strategic priorities to be value focused, digitally driven, and uniquely Stanford.

Michael is a Clinical Professor in the Department of Medicine and Division of Hospital Medicine with a joint appointment in the center for Biomedical Research (BMIR) in Stanford University School of Medicine. As such, Michael continues to provide clinical care as a Hospitalist Physician as well as teaching medical students and residents on the medicine inpatient wards.

Prior to joining Stanford Medicine, Michael served as the Assistant Vice Chancellor and Chief Information Officer for UCLA Health Sciences. During his tenure, Michael served as the lead physician for the largest electronic health record "big bang" go-live of its time, encompassing over 26,000 users. Michael subsequently became the first Chief Medical Informatics Officer for UCLA Health before transitioning into the Chief Information Officer position. Under his leadership, UCLA Health IT achieved numerous industry awards including the HIMSS Analytics Stage 7 Inpatient, Ambulatory, and Analytics Certifications; the Most Wired designation for eight consecutive years; US News & World Report's Most Connected Hospitals; the Top Master's in Healthcare Administration 30 Most Technologically Advanced Hospitals in the World; and the prestigious HIMSS Davies Award. Michael also implemented of one of the first ACGME-accredited Clinical Informatics Fellowship Programs and served as its Associate Program Director.

Michael has lectured worldwide on health information technology; served on the national HIMSS Physician Committee and as a HIMSS Stage 7 international site surveyor; and has published numerous peer-reviewed articles on health IT. Michael was featured in Becker's Hospital Review as 10 physician CIOs to know and 12 standout healthcare CIOs and was one of LA's top doctors in Los Angeles Magazine.

CLINICAL FOCUS

- Internal Medicine
- Medical Informatics

- Hospitalists

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine

ADMINISTRATIVE APPOINTMENTS

- Chief Information Officer, Stanford Health Care and Stanford University School of Medicine, (2021- present)

- Associate Dean, Stanford University School of Medicine, (2021- present)

PROFESSIONAL EDUCATION

- Board Certification: Clinical Informatics, American Board of Preventive Medicine (2015)

- Board Certification: Internal Medicine, American Board of Internal Medicine (2007)

- Residency: UCLA GME Office (2007) CA

- Medical Education: Cornell University School of Medicine Registrar (2004) NY

- Bachelor of Science, Brown University , Chemical Engineering (2000)

Publications

PUBLICATIONS

- **Artificial Intelligence-Generated Draft Replies to Patient Inbox Messages.** *JAMA network open*
  Garcia, P., Ma, S. P., Shah, S., Smith, M., Jeong, Y., Devon-Sand, A., Tai-Seale, M., Takazawa, K., Clutter, D., Vogt, K., Lugtu, C., Rojo, M., Lin, et al
  2024; 7 (3): e243201

- **Balancing Innovation and Cybersecurity in Medical Schools and Their Related Academic Health Systems.** *Academic medicine : journal of the Association of American Medical Colleges*
  Halaas, M., Pfeffer, M. A., Roberts, L. W.
  2023; 98 (11): 1233-1234

- **Evaluating the predictive ability of natural language processing in identifying tertiary/quaternary cases in prioritization workflows for interhospital transfer.** *JAMIA open*
  Lee, T., Lukac, P. J., Vangala, S., Kowsari, K., Vu, V., Fogelman, S., Pfeffer, M. A., Bell, D. S.
  2023; 6 (3): ooad069

- **The Stanford Medicine data science ecosystem for clinical and translational research.** *JAMIA open*
  Callahan, A., Ashley, E., Datta, S., Desai, P., Ferris, T. A., Fries, J. A., Halaas, M., Langlotz, C. P., Mackey, S., Posada, J. D., Pfeffer, M. A., Shah, N. H.
  2023; 6 (3): ooad054

- **Creation and Adoption of Large Language Models in Medicine.** *JAMA*
  Shah, N. H., Entwistle, D., Pfeffer, M. A.
  2023

- **The shaky foundations of large language models and foundation models for electronic health records.** *NPJ digital medicine*
  Wornow, M., Xu, Y., Thapa, R., Patel, B., Steinberg, E., Fleming, S., Pfeffer, M. A., Fries, J., Shah, N. H.
  2023; 6 (1): 135

- **Assessment of Adherence to Reporting Guidelines by Commonly Used Clinical Prediction Models From a Single Vendor: A Systematic Review.** *JAMA network open*
  Lu, J. H., Callahan, A., Patel, B. S., Morse, K. E., Dash, D., Pfeffer, M. A., Shah, N. H.
  2022; 5 (8): e2227779

- **Considerations in the reliability and fairness audits of predictive models for advance care planning** *Frontiers in Digital Health*
  Lu, J., Sattler, A., Wang, S., Khaki, A. R., Callahan, A., Fleming, S., Fong, R., Ehlert, B., Li, R., Shieh, L., Ramchandran, K., Gensheimer, M., Chobot, et al
  2022: 943768

- **Lower Severe Acute Respiratory Syndrome Coronavirus 2 Viral Shedding Following Coronavirus Disease 2019 Vaccination Among Healthcare Workers in Los Angeles, California** *OPEN FORUM INFECTIOUS DISEASES*

  Adamson, P. C., Pfeffer, M. A., Arboleda, V. A., Garner, O. B., de St Maurice, A., von Bredow, B., Flint, J., Kruglyak, L., Currier, J. S.

  2021; 8 (11)

- **Low prevalence (0.13%) of COVID-19 infection in asymptomatic pre-operative/pre-procedure patients at a large, academic medical center informs approaches to perioperative care** *SURGERY*

  Singer, J. S., Cheng, E. M., Murad, D. A., Maurice, A., Hines, O., Uslan, D. Z., Garner, O., Pregler, J., Bukata, S. V., Pfeffer, M. A., Cherry, R. A.

  2020; 168 (6): 980-986

- **Radiology's Information Architecture Could Migrate to One Emulating That of Smartphones** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*

  Enzmann, D. R., Arnold, C. W., Zaragoza, E., Siegel, E., Pfeffer, M. A.

  2020; 17 (10): 1299-1306

- **Excess Patient Visits for Cough and Pulmonary Disease at a Large US Health System in the Months Prior to the COVID-19 Pandemic: Time-Series Analysis** *JOURNAL OF MEDICAL INTERNET RESEARCH*

  Elmore, J. G., Wang, P., Kerr, K. F., Schriger, D. L., Morrison, D. E., Brookmeyer, R., Pfeffer, M. A., Payne, T. H., Currier, J. S.

  2020; 22 (9): e21562

- **Cybersecurity implications for hospital quality** *HEALTH SERVICES RESEARCH*

  Dameff, C., Pfeffer, M. A., Longhurst, C. A.

  2019; 54 (5): 969-970

- **Physicians Voluntarily Using an EHR-Based CDS Tool Improved Patients' Guideline-Related Statin Prescription Rates: A Retrospective Cohort Study** *APPLIED CLINICAL INFORMATICS*

  Chang, T. S., Buchipudi, A., Fonarow, G. C., Pfeffer, M. A., Singer, J. S., Cheng, E. M.

  2019; 10 (3): 421-445

- **Feasibility study of an EHR-integrated mobile shared decision making application** *INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS*

  Day, F. C., Pourhomayoun, M. B., Keeves, D., Lees, A. F., Sarrafzadeh, M., Bell, D., Pfeffer, M. A.

  2019; 124: 24-30

- **Impact of Open Access to Physician Notes on Radiation Oncology Patients: Results from an Exploratory Survey** *PRACTICAL RADIATION ONCOLOGY*

  Shaverdian, N., Chang, E. M., Chu, F., Morasso, E., Pfeffer, M. A., Cheng, E. M., Wu, A., McCloskey, S. A., Raldow, A. C., Steinberg, M. L.

  2019; 9 (2): 102-107

- **How Patients Use a Patient Portal: An Institutional Case Study of Demographic and Usage Patterns** *APPLIED CLINICAL INFORMATICS*

  Tsai, R., Bell, E. J., Woo, H., Baldwin, K., Pfeffer, M. A.

  2019; 10 (1): 96-102

- **Characteristics of the National Applicant Pool for Clinical Informatics Fellowships (2016-2017).** *AMIA ... Annual Symposium proceedings. AMIA Symposium*

  Dell, D. S., Baldwin, K., Bell, E. J., Lehmann, C. U., Webber, E. C., Mohan, V., Leu, M. G., Hofmann, J. M., Kaelber, D. C., Landman, A. B., Hron, J., Silverman, H. D., Levy, et al

  2018; 2018: 225–31

- **The UCLA Health Resident Informaticist Program - A Novel Clinical Informatics Training Program** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*

  Singer, J. S., Cheng, E. M., Baldwin, K., Pfeffer, M. A., UCLA Hlth Phys Informaticist Comm

  2017; 24 (4): 832-840

- **Managing Scale and Innovation in Health IT** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*

  Enzmann, D. R., Pfeffer, M.

  2016; 13 (9): 1135-1138

- **A Systematic Approach to Creation of a Perioperative Data Warehouse** *ANESTHESIA AND ANALGESIA*

  Hofer, I. S., Gabel, E., Pfeffer, M., Mahbouba, M., Mahajan, A.

  2016; 122 (6): 1880-1884

- **A Bad Case of Good's Syndrome** *INFECTIOUS DISEASES AND THERAPY*

  Tachdjian, R., Keller, J. J., Pfeffer, M.

2014; 3 (2): 333-337

- **Acute Aortic Dissection** *HOSPITAL MEDICINE CLINICS*
  Pfeffer, M. A.
  2012; 1 (1): E1-E11

- **Liquid crystal surface anchoring of mesophase pitch** *CARBON*
  Jian, K. Q., Shim, H. S., Tuhus-Dubrow, D., Bernstein, S., Woodward, C., Pfeffer, M., Steingart, D., Gournay, T., Sachsmann, S., Crawford, G. P., Hurt, R. H.
  2003; 41 (11): 2073-2083