Bio

Dr. Milstein is a Professor of Medicine and directs the Clinical Excellence Research Center at Stanford University. The Center discovers and demonstrates in multi-state locations scalable innovations in clinical process and in bedside applications of machine intelligence that lower the cost of high-quality healthcare.

Before joining Stanford's faculty, he created and globalized a healthcare performance improvement firm, co-founded three nationally influential public benefit initiatives including the Leapfrog Group, served as a Congressional MedPAC Commissioner and was elected to the National Academy of Medicine (NAM).

ACADEMIC APPOINTMENTS

- Professor, Medicine - Primary Care and Population Health

LINKS

- Clinical Excellence Research Center: http://cerc.stanford.edu
- Partnership in AI-assisted Care: https://aicare.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Design and national demonstration of innovations in care delivery that provide more with less. Informed by research on AI-assisted clinical workflow, positive value outlier analysis and triggers of loss aversion bias among patients and clinicians.

Research on creation of a national index of health system productivity gain.

PROJECTS

- Post-Doctoral Mentor
- Graduate Student Mentor - Stanford University
Teaching

COURSES

2018-19
• Leading Value Improvement in Health Care Delivery: SOMGEN 275 (Aut)

2017-18
• Leading Value Improvement in Health Care Delivery: SOMGEN 275 (Aut)

2016-17
• Leading Value Improvement in Health Care Delivery: SOMGEN 275 (Aut)

2015-16
• Leading Value Improvement in Health Care Delivery: SOMGEN 275 (Aut)

STANFORD ADVISEES
Postdoctoral Research Mentor
Clare Purvis, Courtenay Stewart

Publications

PUBLICATIONS

• Stress Disorders and Dementia in the Danish Population. American journal of epidemiology
  2018

• Perspectives of Health Care Payer Organizations on Cancer Care Delivery Redesign: A National Study. Journal of oncology practice
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• Effect of a Lay Health Worker Intervention on Goals-of-Care Documentation and on Health Care Use, Costs, and Satisfaction Among Patients With Cancer: A Randomized Clinical Trial. JAMA oncology
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• Social isolation and all-cause mortality: a population-based cohort study in Denmark SCIENTIFIC REPORTS
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• Bedside Computer Vision - Moving Artificial Intelligence from Driver Assistance to Patient Safety. The New England journal of medicine
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  2018; 378 (14): 1271–73
• Tool Detection and Operative Skill Assessment in Surgical Videos Using Region-Based Convolutional Neural Networks
  Jin, A., Yeung, S., Jopling, J., Krause, J., Azagury, D., Milstein, A., Li Fei-Fei, IEEE
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• The Association of ICU Acuity With Outcomes of Patients at Low Risk of Dying. Critical care medicine
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• Possibilities Beyond Analyses of a Fee-for-Service Database and Clinician Mindset ANNALS OF INTERNAL MEDICINE
  Leff, B., Milstein, A.
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• Exploring Attributes of High-Value Primary Care ANNALS OF FAMILY MEDICINE
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  2017; 15 (6): 529–34

• Improving the Value of Medical Care for Patients with Back Pain. Pain medicine (Malden, Mass.)
  2017

• Redesigning Cancer Care Delivery: Views From Patients and Caregivers. Journal of oncology practice
  2017; 13 (4): e291-e302

• Reply to E.C. Winkler et al. Journal of clinical oncology
  Kaplan, R. M., Milstein, A.
  2017; 35 (4): 468–?

• Predicting patient 'cost blooms' in Denmark: a longitudinal population-based study. BMJ open
  Tamang, S., Milstein, A., Sørensen, H. T., Pedersen, L., Mackey, L., Betterton, J., Janson, L., Shah, N.
  2017; 7 (1)

• Identifying Distinct Subgroups of ICU Patients: A Machine Learning Approach. Critical care medicine
  2017; 45 (10): 1607–15

• Individualized Acute Medical Care for Cognitively Impaired Individuals: A Call Always to Pause Before Hospitalization. Journal of the American Geriatrics Society
  Sheckter, C. C., Bott, N. T., Milstein, A., Leff, B.
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• Association Between the Birth of an Infant With Major Congenital Anomalies and Subsequent Risk of Mortality in Their Mothers JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
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  Vranas, K. C., Kerlin, M.
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  Toussaint, J., Krueger, D., Shortell, S. M., Milstein, A., Cutler, D. M.
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• The Effect of Moving Carpal Tunnel Releases Out of Hospitals on Reducing United States Health Care Charges. *Journal of Hand Surgery*
  Nguyen, C., Milstein, A., Hernandez-Boussard, T., Curtin, C. M.
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