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
Sirina Keesara, Wing Hang Wong

Publications

PUBLICATIONS

• The Implications of "Medicare for All" for US Hospitals JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
  Schulman, K. A., Milstein, A.
  2019; 321 (17): 1661–62

  Kaplan, R. M., Milstein, A.
  2019; 17 (3): 267–72

• A computer vision system for deep learning-based detection of patient mobilization activities in the ICU NPJ DIGITAL MEDICINE
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• Systems Delivery Innovation for Alzheimer Disease. The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry
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  2018

• 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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• Critical Lessons From High-Value Oncology Practices JAMA ONCOLOGY
  Blayney, D. W., Simon, M. K., Podtchaske, B., Ramsey, S., Shyu, M., Lindquist, C., Milstein, A.
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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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• Tool Detection and Operative Skill Assessment in Surgical Videos Using Region-Based Convolutional Neural Networks
• 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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• ICU Physician Workflow: Inside the Balloon. *CRITICAL CARE MEDICINE*
  Vranas, K. C., Kerlin, M.
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• Better health, less spending: Redesigning the transition from pediatric to adult healthcare for youth with chronic illness. *Healthcare (Amsterdam, Netherlands)*
  2016; 4 (1): 57-68

• ACO model should encourage efficient care delivery. *Healthcare (Amsterdam, Netherlands)*
  Toussaint, J., Krueger, D., Shortell, S. M., Milstein, A., Cutler, D. M.
  2015; 3 (3): 150-152

• Posttraumatic stress disorder and cancer risk: a nationwide cohort study. *EUROPEAN JOURNAL OF EPIDEMIOLOGY*
  2015; 30 (7): 563-568

• Redesigning Advanced Cancer Care Delivery: Three Ways to Create Higher Value Cancer Care. *Journal of oncology practice / American Society of Clinical Oncology*
  Patel, M. I., Moore, D., Milstein, A.
  2015; 11 (4): 280-284

• Body Mass Index and Cognitive Function: Birth Cohort Effects in Young Men. *OBESITY*
  Ehrenstein, V., Muenster, A. B., Milstein, A., Adler, N. E., Sorensen, H. T.
  2015; 23 (5): 931-934

• Safety-Net Hospitals More Likely Than Other Hospitals To Fare Poorly Under Medicare's Value-Based Purchasing. *HEALTH AFFAIRS*
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• The $640 Billion Question - Why Does Cost-Effective Care Diffuse So Slowly? *NEW ENGLAND JOURNAL OF MEDICINE*
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• The Implications of "Medicare for All" for US Hospitals. *JAMA*
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• Improving the Value of Medical Care for Patients with Back Pain. *PAIN MEDICINE*

- **Economic Benefit of "Modern" Nonemergency Medical Transportation That Utilizes Digital Transportation Networks**. AMERICAN JOURNAL OF PUBLIC HEALTH
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- **Stress Disorders and Dementia in the Danish Population**. AMERICAN JOURNAL OF EPIDEMIOLOGY
  2019; 188 (3): 493–99

- **Economic Benefit of "Modern" Nonemergency Medical Transportation That Utilizes Digital Transportation Networks.** American journal of public health
  Rochlin, D. H., Lee, C., Scheuter, C., Milstein, A., Kaplan, R. M.
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- **A computer vision system for deep learning-based detection of patient mobilization activities in the ICU.** NPJ digital medicine
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- **Stress Disorders and Dementia in the Danish Population.** American journal of epidemiology
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- **Perspectives of Health Care Payer Organizations on Cancer Care Delivery Redesign: A National Study.** Journal of oncology practice
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- **Patient-Reported Experiences of Dialysis Care Within a National Pay-for-Performance System.** JAMA internal medicine
  Brady, B. M., Zhao, B., Niu, J., Winkelmayer, W. C., Milstein, A., Chertow, G. M., Erickson, K. F.
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- **Social isolation and all-cause mortality: a population-based cohort study in Denmark**. SCIENTIFIC REPORTS
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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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- **Redesigning Cancer Care Delivery: Views From Patients and Caregivers.** Journal of oncology practice
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