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

2019-20
- Leading Value Improvement in Health Care Delivery: SOMGEN 275 (Aut)

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)

STANFORD ADVISEES

Postdoctoral Research Mentor
Sirina Keesara, Sarah Rosenbaum, 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.
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  Kaplan, R. M., Milstein, A.
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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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  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., Podschaskie, 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
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• Possibilities Beyond Analyses of a Fee-for-Service Database and Clinician Mindset. *Annals of Internal Medicine*
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• Exploring Attributes of High-Value Primary Care. *Annals of Family Medicine*
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• Predicting patient 'cost blooms' in Denmark: a longitudinal population-based study. *BMJ Open*
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  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.
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• Posttraumatic stress disorder and cancer risk: a nationwide cohort study. *European Journal of Epidemiology*
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• 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.
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