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.
  2019; 321 (17): 1661–62

  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
  2019; 2

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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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• Bedside Computer Vision - Moving Artificial Intelligence from Driver Assistance to Patient Safety. The New England journal of medicine
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  IEEE.2018: 691–99
• 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**
  Simon, M., Choudhry, N. K., Frankfort, J., Margolius, D., Murphy, J., Paita, L., Wang, T., Milstein, A.
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• 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.
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• ICU Physician Workflow: Inside the Balloon **CRITICAL CARE MEDICINE**
  Vranas, K. C., Kerlin, M.
  2016; 44 (8): 1607–8

• 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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• Contributions of Health Care to Longevity: A Review of 4 Estimation Methods **ANNALS OF FAMILY MEDICINE**
  Kaplan, R. M., Milstein, A.
  2019; 17 (3): 267–72

• The Implications of "Medicare for All" for US Hospitals. **JAMA**
  Schulman, K. A., Milstein, A.
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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*
  Rochlin, D. H., Lee, C., Scheuter, C., Milstein, A., Kaplan, R. M.
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• **Stress Disorders and Dementia in the Danish Population** *American Journal of Epidemiology*
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• **Economic Benefit of "Modern" Nonemergency Medical Transportation That Utilizes Digital Transportation Networks.** *American Journal of Public Health*
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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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• **Social isolation and all-cause mortality: a population-based cohort study in Denmark** *Scientific Reports*
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  Bott, N. T., Sheckter, C. C., Milstein, A. S.
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• **Redesigning Cancer Care Delivery: Views From Patients and Caregivers.** *Journal of Oncology Practice*
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  Powers, B. W., Milstein, A., Jain, S. H.
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Nguyen, C., Milstein, A., Hernandez-Boussard, T., Curtin, C. M.
2015; 40 (8): 1657-1662

Body mass index and cognitive function: birth cohort effects in young men. *Obesity*
Ehrenstein, V., Münster, A. B., Milstein, A., Adler, N. E., Sørensen, H. T.
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Safety-Net Hospitals More Likely Than Other Hospitals To Fare Poorly Under Medicare’s Value-Based Purchasing *Health Affairs*
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  Platchek, T., Rebitzer, R., Zulman, D., Milstein, A.
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• **Professional Organizations’ Role in Supporting Physicians to Improve Value in Health Care** *JAMA*
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