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*

• Perspectives of Health Care Payer Organizations on Cancer Care Delivery Redesign: A National Study. *Journal of oncology practice*

• Systems Delivery Innovation for Alzheimer Disease. *The American journal of geriatric psychiatry : official journal of the American Association for Geriatric Psychiatry*
  Bott, N. T., Sheckter, C. C., Yang, D., Peters, S., Brady, B., Plowman, S., Borson, S., Leff, B., Kaplan, R. M., Platchek, T., Milstein, A. 2018

• 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. 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*

• Social isolation and all-cause mortality: a population-based cohort study in Denmark *SCIENTIFIC REPORTS*
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• Critical Lessons From High-Value Oncology Practices *JAMA ONCOLOGY*

• Bedside Computer Vision - Moving Artificial Intelligence from Driver Assistance to Patient Safety. *The New England journal of medicine*
• Tool Detection and Operative Skill Assessment in Surgical Videos Using Region-Based Convolutional Neural Networks
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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
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• Exploring Attributes of High-Value Primary Care ANNALS OF FAMILY MEDICINE
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• Improving the Value of Medical Care for Patients with Back Pain. Pain medicine (Malden, Mass.)
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• Redesigning Cancer Care Delivery: Views From Patients and Caregivers. Journal of oncology practice
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• Reply to E.C. Winkler et al. Journal of clinical oncology
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• Predicting patient ‘cost blooms’ in Denmark: a longitudinal population-based study. BMJ open
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  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.
  2017

• 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
  2016; 316 (23): 2515-2524

• Opportunities to Improve the Value of Outpatient Surgical Care AMERICAN JOURNAL OF MANAGED CARE
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Patel, M. I., Moore, D., Milstein, A.
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Body Mass Index and Cognitive Function: Birth Cohort Effects in Young Men *Obesity*
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- Mandatory Public Reporting of Hospital Acquired Infection Rates *Health Affairs*
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