Bio

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

• 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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• Perspectives of Health Care Payer Organizations on Cancer Care Delivery Redesign: A National Study. *Journal of oncology practice*
  Patel, M. I., Moore, D., Bhattacharya, J., Milstein, A., Coker, T. R.
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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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  Brady, B. M., Zhao, B., Niu, J., Winkelmayer, W. C., Milstein, A., Chertow, G. M., Erickson, K. F.
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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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  2018; 4 (2): 164–71
• Bedside Computer Vision - Moving Artificial Intelligence from Driver Assistance to Patient Safety. *The New England journal of medicine*
  Yeung, S., Downing, N. L., Fei-Fei, L., Milstein, A.
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• 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
  IEEE.2018: 691–99

• 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.
  2017; 167 (10): 746-+

• 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.
  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.
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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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• Identifying Distinct Subgroups of ICU Patients: A Machine Learning Approach. *Critical care medicine*
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• 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*
  2016; 316 (23): 2515-2524

• Opportunities to Improve the Value of Outpatient Surgical Care *AMERICAN JOURNAL OF MANAGED CARE*
  Erhun, F., Malcolm, E., Kalani, M., Brayton, K., Nguyen, C., Asch, S. M., Platchek, T., Milstein, A.
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  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)*
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• Our Failure to Curb Excessive Testing *ARCHIVES OF INTERNAL MEDICINE*
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• A Systemic Approach to Containing Health Care Spending *NEW ENGLAND JOURNAL OF MEDICINE*
  Emanuel, E., Tanden, N., Altman, S., Armstrong, S., Berwick, D., de Brantes, F., Calsyn, M., Chernew, M., Colmers, J., Cutler, D., Daschle, T., Egerman, P., Kocher, et al
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Arnold Milstein
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