

Arnold Milstein, MD, MPH

September 2022

Personal Information

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Educational Background

B.A.	Harvard University	Economics	1967
M.D.	Tufts University	Medicine	1971
Internship	Mount Zion Hospital, SF	Medicine and Psychiatry	1972
Residency	Mount Zion Hospital, SF	Psychiatry	1974
M.P.H.	Univ. of California, Berkeley	Health Care Evaluation	1975

Professional Certification

Licensed Physician	California Board of Medical Quality Assurance	Medicine
Board Certification	American Board of Psychiatry and Neurology	Psychiatry
Board Certification (with honors)	American Board of Utilization Review and Quality Assurance	Quality Assurance and Utilization Review

Employment

Professor of Medicine and Clinical Excellence Research Center Director, Stanford University, July 2010 to present.

Worldwide Partner and U.S. Health Care Thought Leader, Mercer Human Resource Consulting, August 1986 to July 2010.

Founder and President, National Medical Audit, a global consultancy acquired by Mercer, specializing in the design and evaluation of health care performance management methods, December 1984 to July 2010.

Chief Medical Advisor, Health Care Financing Administration, Region IX, January 1982 to December 1984.

Director, Division of Professional Standards Review, Health Care Financing Administration, Region IX, January 1977 to December 1981.

Regional Program Consultant for HSA Development, U.S. Public Health Service, Region IX, February 1976 to December 1976.

Private medical practice in inpatient and office-based psychiatry, 1974 to 1988.

Research Assistant, Department of Economics, Harvard University, Cambridge, Massachusetts, June 1965 to July 1967.

Honors and Awards

Annual Vaughn Lecturer, Brigham and Women’s Hospital, Harvard Medical School.....2018

UC Berkeley School of Public Health Right Care Initiative Award.....2018

Faculty Fellow, Center for Advanced Study in the Behavioral Sciences, Stanford.....2013-19

Annual Kassirer Lecture, Tufts University School of Medicine..... 2013

Annual Elliott M. Stone Award for excellence in national health data leadership, National Association of State Health Data Organizations 2009
‘For charting the rough seas of health care performance transparency’

Annual Founders’ Award, American College of Medical Quality 2009
‘...in recognition of national leadership and exceptional ability to bring constituencies together to improve care quality for populations...’

Elected to National Academy of Medicine, National Academy of Sciences.....2006

Annual Award for Excellence and Innovation in Value Purchasing, National Business Group on Health	2005
‘...for tireless pursuit of health system improvements, defining the leading edge while making things happen in the real world...’	
Annual Keystone Award Winner, World at Work.....	2004
‘...for innovation and effectiveness in improving the value of U.S. health care...’	
Rosenthal Lecturer, National Academy of Medicine, National Academy of Sciences	1998
‘accelerating health care performance improvement...’	
U.S. Public Health Service Commendation Medal.....	1981
U.S. Public Health Service Plaque	1980
Mount Zion Hospital <u>Mark Berke Prize</u>	1974
‘the house officer best exemplifying the qualities of the complete physician.’	
National Institute of Mental Health Career Development Fellowship.....	1972
Graduation with honors, Harvard College.....	1967
Honorary Harvard College Scholarship	1964

Consultation and Professional Activities: Ongoing

- Advisory Board Member, California Governor's Precision Medicine Initiative, 2017 to present
- Member, Stanford University Committee on Faculty and Staff Human Resources 2012 to present
- Advisory Board Member, Fred Hutchinson Cancer Center Research Institute, 2015 to present.
- Co-Chair, National Academy of Medicine, Advisory Group to GAO on Use of Clinical Registries to Improve Physician Performance, 2013 to 2015
- Board Member, Institute for Healthcare Improvement, May 2012 to present
- Board Member, Intermountain Health Care, Salt Lake City, 2011 to present.
- Physician Advisor, Mercer Health & Benefits, July 2010 to present.
- Board Member, ThedaCare Center for Healthcare Value, Appleton, 2009 to present.

Chair and co-founder (2001), Steering Committee for IHA California-wide Physician Group Pay-for-Performance Program, 2006 to present.

Board Member, National Partnership for Women and Families, 2004 to present.

Expert testimony in seven U.S. Senate and House hearings on U.S. health care performance improvement, 1999 to present

Co-founder and Medical and Scientific Director, Consumer-Purchaser Disclosure Project, 2001 to present

Co-founder, The Leapfrog Group, and Chair, Leaps and Measures Measurement Committee, 1999 to present

Health care strategy advisor, Boeing, Lowe's and multiple other large U.S. health care purchasers, 1998 to present

Speaker, meetings on health care efficiency improvement, health care value improvement, health care information technology, volume-outcome relationships, engineering applications in health care, alternative medicine, and federal health research priorities, National Academy of Medicine and National Academy of Engineering, 1998 to present.

Reviewer, New England Journal of Medicine, Journal of the American Medical Association, Health Affairs, and multiple National Academy of Medicine reports, 1997 to present.

Founding staff member and Medical Director, Pacific Business Group on Health, the largest U.S. regional health care purchasers coalition, 1988 to present.

Consultation and Professional Activities: Previous

Member, National Advisory Council, RWJF Aligning Forces for Quality Initiative, 2006 to 2015.

Board Member, AHRQ HCUP quality measures advisory board, 2004 to 2015.

Workgroup Member, National Academy of Medicine/ National Academy of Engineering Initiative to Apply Systems Engineering to Health Care, 2010-2011

Contributing Member, US Department of Health and Human Services (HHS) Multiple Chronic Conditions (MCC) Expert Steering Committee, 2011 to 2012

Commissioner, United States Congress Medicare Payment Advisory Commission (MedPAC), 2004 to 2010.

Chair, Planning Committee, National Academy of Medicine series on improving the efficiency of U.S. care delivery, 2009 to 2010

Member, Health economics advisory committee, White House Office of Health Reform, 2008 to 2010

Associate Clinical Professor, University of California at San Francisco, July 1986 to 2010

Member, National Quality Forum, Ambulatory Care Measures Committee, 2005 to 2009.

Policy Advisory Committee Member, Rand ACOVE Study, 2003 to 2007.

Founding Board Member, The Leapfrog Group, 1997-2007.

Member, National Advisory Council, RWJ/IHI Pursuing Perfection initiative, 2001 to 2005.

Member, National Quality Forum Strategic Advisory Council and Measures Priority Workgroup, 2001 to 2005.

Member, NCQA Committees on Performance Measurement and Accreditation, 1995 to 2005.

Advisor to the President of the United States, health care information technology policy, 2004.

Expert Testimony, Federal Trade Commission, three hearings on competition in health care, 2003-2004.

Expert Advisory Board, Harvard Partners Center for Information Technology Leadership, 2003.

Founding Board Member, Bridges-to-Excellence national physician pay-for-performance program, 2003 to 2005.

Founding Board Member, National Health Care Purchasing Initiative, 1997 to 2002.

Member, Performance Measures Coordinating Council, JCAHO/NCQA/AMA, 1999 to 2000.

Member, Medical Advisory Group, Foundation for Accountability (FACCT), 1996 to 2000.

Trustee, San Francisco University High School, 1994 to 2000.

Member, Committee on Children's Health Insurance, National Academy of Medicine, National Academy of Sciences, 1998 to 1999.

Trustee, UCSF-Mount Zion Hospital, 1994 to 1999.

Board Member, The Medical Quality Commission, 1996 to 1998.

Editorial Board, Medical Outcomes and Guidelines, Faulkner & Gray, 1993 to 1998.

Member, University of California Commission on the Future of Medical Education, 1996 to 1997.

Lead Consultant, ambulatory and inpatient care redesign, the Permanente Medical Group, 1994 to 1997.

Advisor, White House Health Care Reform Task Force, 1993.

Medical Director, Department of Defense CHAMPUS prepaid psychiatric quality monitoring project, May 1987 to 1993.

Medical Director, National SuperPRO project, July 1985 to 1992.

Member, Committee on Utilization Management, National Academy of Medicine, National Academy of Sciences, 1988 to 1990.

Editor, "Review Decisions," a bi-monthly utilization management case analysis published in Medical Utilization Review, McGraw-Hill Publications, April 1986 to 1990.

Assistant Clinical Professor, University of California at San Francisco, December 1980 to 1986.

Member, California Chamber of Commerce Task Force on Preferred Provider Organizations and Utilization Review Programs, 1983.

Chairman, Skilled Nursing Facility Subcommittee, California State Psychiatric Association, September 1976 to 1979.

Consultant in clinical program evaluation, Rand Corporation, July 1974 to 1977.

Consultant, Planning Task Force, California Conference of Local Mental Health Directors, September 1975 to December 1976.

Scholarly Publications

A. Peer reviewed journal articles

1. Fifer S, Choundry NK, Brod M, Hsu E, **Milstein A**; Improving adherence to guidelines for spine pain care: what tools could support primary care clinicians in conforming to guidelines?; *BMJ Open Quality* 27 July 2022 doi: 10.1136/bmjopen-2022-001868; [Link](#)
2. Leff B, **Milstein A**, What We Learned From The Acute Hospital Care At Home Waiver—And What We Still Don't Know. *Health Affairs Forefront* JUNE 27, 2022 DOI: 10.1377/forefront.20220623.684203, [Link](#)
3. Termglinchan V, Daswani S, Duangtaweesub P, Assavapokee T, **Milstein A**, Schulman K; Identifying solutions to meet unmet needs of family caregivers using human-centered design; *BMC Geriatrics*, Feb 2, 2022, [Link](#)
4. Shah, N. R., Kim, K. M., Wong, V., Cohen, E., Rosenbaum, S., Cahan, E. M., **Milstein, A.**, Sorensen, H. T., Horvath-Puho, E. Mothers of children with major congenital anomalies have increased health care utilization over a 20-year post-birth time horizon. *December 8, 2021, PLOS ONE*, [Link](#)

5. Lu M, Zhao Q, Poston KL, Sullivan EV, Pfefferbaum A, Shahid M, Katz M, Kouhsari LM, Schulman K, **Milstein A**; Niebles JC, Henderson VW, Fei-Fei L, Poh KM, Adeli E. Quantifying Parkinson's disease motor severity under uncertainty using MDS-UPDRS videos. *Medical Image Analysis, Volume 73, October 2021, 102179,ISSN 1361-8415, [Link](#)*
6. Choudhry NK, Fontanet CP, Ghazinouri R, Fifer S, Archer KR, Haff N, Butterworth SW, Deogun H, Block S, Cooper A, Sears E, Goyal P, Coronado RA, Schneideri BJ, Hsu E, **Milstein A**. Design of the Spine Pain Intervention to Enhance Care Quality And Reduce Expenditure Trial (SPINE CARE) study: Methods and lessons from a multi-site pragmatic cluster randomized controlled trial. *October 17, 2021, Elsevier Science Direct, [Link](#)*
7. Xue J, Hinkle J, Reeves MG, Zheng LL, Natarajan V, Shyam Vyas MP, Upreti R, Oliva M, Kaplan RS, **Milstein A**, Tabin G, Goldberg JL, Schulman K. A Cost Comparison of Cataract Surgeries in Three Countries — United States, India, and Nepal. *NEJM Catalyst, Sept 2021, [Link](#)*
8. Wong V, Pham M, Godfrey K, **Milstein A**. Distilling innovative US autism care programs that address widely perceived unmet patient and family needs. *National Autistic Society, July 2, 2021, [Link](#)*
9. Dieleman JL, Kaldjian AS, Sahu M, Chen C, Liu A, Chapin A, Scott KW, Aravkin S, Zheng P, Kokdad A, Murray CJL, Schulman KA, **Milstein A**. Estimating health care delivery system value for each US state and testing key associations. *Health Services Research, 2021; 1-11. May 24, 2021; [Link](#)*
10. Scheinker D, Richman BD, **Milstein A**, Schulman KA. Reducing administrative costs in US health care: Assessing single payer and its alternatives. *Health Services Research, Mar 31, 2021, [Link](#)*
11. Glassman J, Humphreys K, Yeung S, Smith M, Jauregui A, **Milstein A**, Sanders L. Parents' Perspectives on Using Artificial Intelligence to Reduce Technology Interference During Early Childhood: Cross-sectional Online Survey. *J Med Internet Res 2021;23(3):e19461, [Link](#)DOI: 10.2196/19461*
12. Wong V, Rosenbaum S, Sung W, Kaplan RM, Bott N, Platchek T, **Milstein A**, Shah NR. Caring for Caregivers. *NEJM Catalyst, April 2021, <https://catalyst.nejm.org/doi/full/10.1056/CAT.20.0578>*
13. Kaplan RM, **Milstein A**. Influence of a COVID-19 Vaccine's Effectiveness and Safety Profile on Vaccination Acceptance. *Proceedings of the National Academy of Sciences of the US, Feb 22, 2021; <https://doi.org/10.1073/pnas.2021726118>*
14. Martinez-Martin N, Luo Z, Kaushal A, Adeli E, Haque A, Kelly SS, Wieten S, Cho MK, Mangus D, Fei-Fei L, Schulman K, **Milstein A**. Ethical issues in using ambient intelligence in health-care settings. *The Lancet, Digital Health, Dec 30, 2020; [https://doi.org/10.1016/S2589-7500\(20\)30275-2](https://doi.org/10.1016/S2589-7500(20)30275-2)*
15. Holmgren AJ, Downing NL, Bates DW, Shanafelt TD, **Milstein A**, Sharp CD, Cutler DM, Huckman RS, Shulman KA. Assessment of Electronic Health Record Use Between US and Non-US Health Systems. *JAMA Internal Med, Dec 14, 2020; <https://doi.org/10.1001/jamainternmed.2020.7071>*
16. Rochlin DH, Lee CM, Scheuter C, Platchek T, Kaplan RM, **Milstein A**. Health Care is Failing the Most Vulnerable Patients-Three Underused Solutions. *Public Health Reports 00(0) 1-6, Sept 2020; DOI: 10.1177/0033354920954496*
17. Haque A, **Milstein A**, Fei-Fei L. Illuminating the dark spaces of healthcare with ambient intelligence. *Nature, Sept 10, 2020, Vol 585, p 193-2020, <https://doi.org/10.1038/s41586-020-2669-y>*
18. Singh A, Haque A, Alahi A, Yeung S, Guo M, Glassman JR, Bininati W, Platchek T, Fei-Fei L, **Milstein A**. Automatic detection of hand hygiene using computer vision technology. *AMIA July 26, 2020, Brief Communications, doi: 10.1093/jamia/ocaa115*

19. Rinaldo F, Altman M, Cannon K, Platchek T, Shah NR, Kaplan RM, **Milstein A**. Slowing AQRW-Medicare Spending by Optimizing Late-Life Needs. *NEJM Catalyst-Innovations in Care Delivery*, Vol.1 No.4, June 17, 2020. DOI: 10.1056/CAT.20.0290
20. Miner AS, Haque A, Fries J, Fleming SL, Wilfley D, Wilson GT, **Milstein A**, Jurafsky D, Arnow BA, Agras WS, L Fei-Fei, Shah N. Assessing the accuracy of automatic speech recognition for psychotherapy. *Nature Digital Medicine*. June 3, 2020. <https://doi.org/10.1038/s41746-020-0285-8>
21. **Milstein A**, Topal EJ. Computer vision's potential to improve health care. *The Lancet*, vol 395, p 1537, May 16, 2020
22. Erhun F, Kaplan RS, Naryanan VG, Brayton K, Kalani M, Mazza MC, Nguyen C, Platchek T, Mistry B, Mann R, Kazi D, Pinnock C, Schulman KA, Xue J, Ballard D, Mack M, James B, Poulsen G, Punnen J, Shetty D, **Milstein A**. Are cost advantages from a modern Indian hospital transferable to the United States? *American Heart Journal*, May 2020; <https://doi.org/10.1016/j.ahj.2020.04.009>
23. Glassman JR, Hopkins, DSP, Bundorf MK, Kaplan RM, Ragavan MV, Glaserof A, **Milstein A**. Association Between HEDIS Performance & Primary Care Physician Age, Group Affiliation, Training, and Participation in ACA Exchanges. *Journal of General Internal Medicine*, *JGIM*; DOI: 10.1007/s11606-020-05642-3; online: Jan 23, 2020
24. Brady BM, Ragavan MV, Simon M, Chertow GM, **Milstein A**. Exploring Care Attributes of Nephrologists Ranking Favorably on Measures of Value. <https://doi.org/10.1681/ASN.2019030219>; *Clinical Research JASN*, December 30, 2019
25. Knight GM, Schulman K, **Milstein A**, Rea S, Malloy G, Khaliq U, Scheinker D. A Transparent, Mathematical Model to Evaluate Proposals for Healthcare Reform. *Health Management Policy and Innovation*, December, 2019, Volume 4, Issue 3.
26. Kaplan RM, Glassman JR, **Milstein A**. Effects of Mental Health on the Costs of Care for Chronic Illnesses. *Psychiatric Services* 10.11, Nov 2019
27. Shah NH, **Milstein A**, Bagley SC. Making Machine Learning Models Clinically Useful. *JAMA* August 8, 2019, *JAMA*. 2019;322(14):1351-1352. doi:10.1001/jama.2019.10306
28. Scheuter C, Rochlin D, Lee CM, **Milstein A**, Kaplan RM. Cost impact of sobering centers on national health care spending in the United States. *TBM Original Research*, May 22, 2019 *Society of Behavioral Medicine*, <https://academic.oup.com/tbm/advance-article-abstract/doi/10.1093/tbm/ibz075/5497397>;
29. Schulman KA, **Milstein A**. The Implications of “Medicare for All” for US Hospitals. *ViewPoint, Health Policy, JAMA*; May 9, 2019, Vol 321, No 17, Published Online: April 4, 2019. doi:10.1001/jama.2019.3134
30. DeRienzo C, Barr M, Shah N, Milstein A. A Value Proposition for AI-Enabled Population Health Management. *HMPI-Health Management, Policy & Innovation*, May 2019
31. Kaplan RM, **Milstein A**, Contributions of Health Care to Longevity: A Review of 4 Estimation Methods, 2019 *Annals Fam Med*[4] May/June 2019
32. Wood A, Matula SR, Huan L, Linos E, Platchek T, **Milstein A**. Improving the Value of Medical Care of Patients with Back Pain, *Pain Medicine* 2019, Apr 1
33. Yeung S, Rinaldo F, Jopling J, Liu B, Mehra R, Downing NL, Guo M, Bianconi G, Alahi A, Campbell B, Deru K, Beninati W, Fei-Fei L, **Milstein A**. A Computer vision system for deep learning-based detection of patient mobilization activities in the ICU. *Nature International Journal of Science: Digital Medicine*, March 1, 2019

34. Rochlin D, Lee CM, Scheuter C, **Milstein A**, Kaplan RM. Economic Benefit of “Modern” Nonemergency Medical Transportation That Utilizes Digital Transportation Networks. *March 2019, vol 109, No.3; AJP Open Themed Research*
35. Bott NT, Shecker CC, Yang D, Peters S, Brady B, Plowman S, Borson S, Leff B, Kaplan RM Platchek T, **Milstein A**. Systems Delivery Innovation for Alzheimer Disease. *Am J Geriatr Psychiatry 27:2; Feb 2019 pp149-161*
36. Gradus JL, Horvath-Puho E, Lash TL, Ehrenstein V, Tamag S, Adler NE, **Milstein A**, Glymour MM, Henderson VW, Sorensen HT. Stress Disorders and Dementia in the Danish Population. *December 20, 2018, American Journal of Epidemiology, Vol 188, No. 3 doi: 10.1093/aje/kwy269*
37. Patel M, Moore D, Bhattacharya J, **Milstein A**, Coker T. Perspectives of Health Care Payer Organizations on Cancer Care Delivery Redesign: A National Study. *Nov 16, 2018, 2018 American Society of Clinical Oncology, Journal of Oncology Practice, jop.ascopubs.org*
38. Bott NT, Schekter CC, Yang D, Peters S, Brady B, Plowman, Borson S, Leff B, Kaplan RM, Platchek, T, **Milstein A**. Systems Delivery Innovation for Alzheimer Disease. *2018 American Association for Geriatric Psychiatry; Sept 2018 Elsevier, https://doi.org/10.1016/j.jagp.2018.09.015*
39. Brady BM, Zhao B, Niu J, Winkelmayer WC, **Milstein A**, Chertow GM, Erickson KF. Patient-Reported Experiences of Dialysis Care Within a National Pay-for-Performance System. *JAMA Intern Med. Sept. 10, 2018. doi:10.1001/jamainternmed.2018.3756*
40. Cohen E, Horváth-Puhó E, Ray JG, Pedersen L, Ehrenstein V, Adler N, Vigod S, **Milstein A**, Sørensen HT. Cardiovascular disease among women who gave birth to an infant with a major congenital anomaly. *Jama Network Open, doi: 10.1001/jamanetworkopen.2018.2320; Aug 10, 2018*
41. Patel M, Sundaram V, Desai M, Periyakoil V, Kahn JS, Bhattacharya J, Asch S, **Milstein A**, Bundorf K. Effect of a Lay Health Worker Intervention on Goals-of Care Documentation and on Health Care Use, Costs, and Satisfaction Among Patients With Cancer. *JAMA-Oncology_2018 doi: 10.1001/jamaoncol.2018.2446; July 26, 2018*
42. Yeung S, Downing NL, Li F, **Milstein A**. Bedside Computer Vision-Moving Artificial Intelligence from Driver Assistance to Patient Safety. *New England Journal of Medicine, April 5, 2018, 378:1271-1273; DOI: 10.1056/NEJMp1716891*
43. Vranas KC, Jopling JK, Scott JY, Badawi O, Harhay MO, Slatore CG, Ramsey MC, Breslow MJ, **Milstein AS**, Kerlin MP. The Association of ICU Acuity with Outcomes of Patients at Low Risk of Dying. *Late Breaker Articles, Critical Care Medicine www.ccmjournal.org, Mar 2018, Vol 46 No 3, 347-353*
44. Laugesen K, Baggesen KM, Jóhannesdóttir Schmidt SA, Glymour MM, Lasgaard M, **Milstein A**, Sørensen HT, Adler NE, Ehrenstein V. Social isolation and all-cause mortality: a population-based cohort study in Denmark. *Scientific Reports 8, Open Article 4731(2018); March 16, 2018*
45. Shekter CC, Bott NT, **Milstein A** and Leff B. Tailored Acute Medical Care for the Cognitively Impaired: a Call to Always Pause Before Hospitalization. *Journal of the American Geriatrics Society, 2018 Feb. DOI: 10.1111/jgs.15105*
46. Simon M, Choudhry NK, Frankfort J, Margolius D, Murphy J, Paita L, Wang T and **Milstein A**. Exploring Attributes of High-Value Primary Care. *Annals of Family Medicine, November/December 2017, vol 15 no. 6 529-534, doi: 10.1370/afm.2153AnnFamMed*
47. Bianconi G M, Mehra R, Yeung S, Salipur F, Jopling J, Downing L, Haque A, Alahi A, Campbell B, Deru K, Beninati W, **Milstein A** and Li F. Vision-Based Prediction of ICU Mobility Care Activities using Recurrent Neural Networks. *ML4H: Machine Learning for Health, Proceedings of Neural*

- Information Processing Systems (NIPS) 2017 Workshop (Spotlight Presentation), December 2017, Long Beach, CA*
48. Jin A, Yeung S, Jopling J, Krause J, Azagury D, **Milstein A**, and Li F. Tool Detection and Operative Skill Assessment in Surgical Videos Using Region-Based Convolutional Neural Networks. *ML4H: Machine Learning for Health, Proceedings of Neural Information Processing Systems (NIPS) 2017 Workshop (Spotlight Presentation), December 2017, Long Beach, CA*
 49. Guo M, Haque A, Yeung S, Jopling J, Downing L, Alahi A, Campbell B, Deru K, Beninati W, **Milstein A**, Li F. Viewpoint Invariant Convolutional Networks for Identifying Risky Hand Hygiene Scenarios. *Machine Learning for Health Workshop, Proceedings of Neural Information Processing Systems (NIPS) December 2017, Long Beach, CA*
 50. Blayney D W, Simon M K, Podtschaske B, Ramsey S, Shyu M, Lindquist C, **Milstein A**. Critical Lessons From High-Value Oncology Practices. *JAMA Oncology* doi:10.1001/jamaoncol.2017.3803, Published online November 16, 2017
 51. Leff B, **Milstein A**. Possibilities Beyond Analyses of a Fee-for-Service Database and Clinician Mindset. *Annals of Internal Medicine*. 2017;167(10):746-747. DOI: 10.7326/M17-2627, Published at www.annals.org on 17 October 2017
 52. Miner AS, **Milstein A**, Hancock JT. Talking to Machines About Personal Mental Health Problems. *JAMA* 2017, Oct 3;318(13):1217-1218. doi: 10.1001/jama.2017.14151.
 53. Vranas KC, Jopling JK, Sweeney TC, Ramsey MC, **Milstein AS**, Slatore CG, Escobar GJ, Liu VX. Identifying Distinct Subgroups of ICU Patients: A Machine Learning Approach. *Critical Care Medicine*. 45(10):1607-1615. Oct 2017
 54. Shekter CC, Bott NT, **Milstein A**, Leff B. Individualized Acute Medical Care for Cognitively Impaired Individuals: A Call Always to Pause Before Hospitalization. *Journal of the American Geriatrics Society*, 2017, DOI: 10.1111/jgs.15105, *J Am Geriatr Soc*. 2017 Sep 27
 55. Haque A, Guo M, Alahi A, Yeung S, Luo Z, Rege A, Singh A, Jopling J, Downing L, Beninati W, Platchek T, **Milstein A**, Li F. Towards Vision-Based Smart Hospitals: A System for Tracking and Monitoring Hand Hygiene Compliance; *Machine Learning in Healthcare Conference (MLHC), Proceedings of Machine Learning Research, August 2017*
 56. Chiou H, Jopling J, Scott JY, Ramsey M, Vranas K, Wagner TH, **Milstein A**. Detecting organizational innovations leading to improved ICU outcomes: a protocol for a double-blinded national positive deviance study of critical care delivery. *BMJ Open* 2017. <http://bmjopen.bmj.com/content/7/6/e015930.full?ijkey=QyzaC2E1KFuWdwh&keytype=ref>. in print June 1, 2017
 57. Bott NT, Shekter C, **Milstein A**. Dementia Care, Women's Health, and Gender Equity - The Value of Well-Timed Caregiver Support. *JAMA Neurology* 2017. May 8, 2017. DOI: 10.1001/jamaneurol.2017.0403
 58. Richman BD, Kitzman N, **Milstein A**, Schulman KA. Battling the Chargemaster: A Simple Remedy to Balance Billing for Unavoidable Out of Network Care. April 28, 2017, <http://www.ajmc.com/journals/issue/2017/2017-vol23-n4>,
 59. Wood A, Matula SR, Huan L, Linos E, Platchek T, **Milstein A**. Improving the Value of Medical Care for Patients with Back Pain. *Pain Medicine*. Apr 17, 2017. *Pain Medicine*, pnx049, <https://doi.org/10.1093/pm/pnx049>
 60. Patel MI, Periyakoil V, Blayney D, Moore D, Nevedal A, Asch S, **Milstein A**, Coker T. Redesigning Cancer Care Delivery: Views from Patients and Caregivers. *Journal of Oncology Practice*. April 1 2017. DOI: 0.1200/JOP.2016.017327

61. Parikh R, **Milstein A.**, Jain S. Getting Real about Health Care Costs - A Broader Approach to Cost Stewardship in Medical Education. *New England Journal of Medicine* 2017; March 9, 2017. DOI: 10.1056/NEJMp1612517
62. Woo VG, Lundeen T, Matula S, **Milstein A.** Achieving higher-value obstetrical care. *American Journal of Obstetrics & Gynecology*. 2017 Mar 1;216(3):250-e1 4. doi: 10.1016/j.ajog.2016.12.033
63. Jopling JK, Baiocch M, **Milstein A.** Using ICU Congestion as a Natural Experiment. *Society of Critical Care Medicine and Wolters Kluwer Health, Inc.* 2016 Oct; 44(10):1936-7.
64. Woo VG, **Milstein A.**, Platchek T. Hospital-Affiliated Outpatient Birth Centers: A Possible Model for Helping To Achieve The Triple Aim In Obstetrics. *JAMA*. 2016 Oct 11;316(14): 1441-1442. doi:10.1001/jama.2016.11770
65. Erhun F, Malcolm M, Kalani M, Brayton K, Nguyen C, Asch S, Platchek T, **Milstein A.** Opportunities to Improve the Value of Outpatient Surgical care. *The American Journal of Managed Care*, September 1 2016.
66. Puisol G, Esteva A, Hall SS, **Milstein A.**, Li FF. Classification of Developmental Disorders Using Eye-Movements. Presentation, Vision-Based in the 19th International Conference on Medical Image Computing and Computer-Assisted Intervention (*MICCAI*), Oct 17 2016.
67. Miner AS, **Milstein A.**, Schueller, S, Hedge, R, Mangurian C, Linos E. Smartphone-based conversational agents and responses to questions about mental health, interpersonal violence, and physical health. *JAMA Internal Medicine*. May 1 2016. Doi:10.1001/jamainternmed.2016.0400.
68. Kaplan, R.M., **Milstein A.** Financial strain and Cancer Outcomes. *Journal of Clinical Oncology*. March 2016. Doi:10.1200/JCO.2016.66.8079.
69. Weeks WB, Ventura J, Justice B, Hsu E, **Milstein A.** Multistakeholder recommendations for improving value of spine care. *The Spine Journal*. February 17 2016. Doi:10.1016/j.spinee.2016.02.031.
70. Powers BW, **Milstein A.**, Jain SH. Delivery Models for High-Risk Older Patients Back to the Future? *JAMA*. January 5 2016;315(1):23-24.
71. Patel MI, **Milstein A.**, Asch S, Kahn J. Will it take a trio to achieve the triple aim in cancer care? *Journal of Oncology Practice*. (New submission January 2016, in review). Not published
72. Gradus JL, Farkas DK, Svensson E, Ehrenstein V, Lash TL, **Milstein A.**, Adler N, Sorensen HT. Associations between stress disorders and cardiovascular disease events in the Danish population. *BMJ Open*. Dec 14 2015;5(12):e009334.
73. Erhun F, Mistry B, Platchek T, **Milstein A.**, Narayanan VG, Kaplan RS. Study Protocol: Time-driven Activity Based Costing of Multi-Vessel Coronary Artery Bypass Grafting Across National Boundaries to Identify Improvement Opportunities. *BMJ Open*. August 25 2015;5(8).
74. Patel MI, Moore D, **Milstein A.** Redesigning Advanced Cancer Care Delivery: Three Ways to Create Higher Value Cancer Care. *Journal of Oncology Practice*. July 1 2015;11(4):280-4.
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