Stanford



Nirav R. Shah, MD, MPH

Adjunct Professor, Medicine - Primary Care and Population Health

Resume available Online

Bio

BIO

Nirav R. Shah, MD, MPH, is Senior Scholar at Stanford University's School of Medicine. He is a distinguished healthcare leader with experience as an operator, scientist, innovator, and regulator. His expertise spans public health, digital health and generative AI, public and private health insurance, and clinical operations across the continuum of care. At Stanford, Dr. Shah conducts research on improving healthcare quality and safety while lowering cost, driving adoption of digital technologies, and quantitatively evaluating the resulting value for US and international health care systems. Dr. Shah is Board-certified in Internal Medicine and is a graduate of Harvard College and Yale School of Medicine. He is an Advisor to the CDC Director, Senior Fellow of the Institute for Healthcare Improvement (IHI), independent director of STERIS plc [NYSE:STE], and trustee of the John A. Hartford Foundation. Previously, he served as Chief Operating Officer of Kaiser Permanente in Southern California, and as Commissioner of the New York State Department of Health.

ACADEMIC APPOINTMENTS

- Adjunct Professor, Medicine - Primary Care and Population Health

HONORS AND AWARDS

- Data Liberation Award, US Department of Health & Human Services (2013)
- Member, National Academy of Medicine (formerly Institute of Medicine) (2013)
- Yale School of Public Health, Distinguished Alumni Award (2014)
- Care 100 prize for "re-imagining and re-humanizing our care system", The Care Guild (2020)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Advisory Committee to the CDC Director (2021 - present)
- Chairman of the Board, Linux Foundation Public Health (2021 - 2022)
- Independent Director, STERIS plc (2018 - present)
- Trustee, John A Hartford Foundation (2017 - present)

PROFESSIONAL EDUCATION

- AB, Harvard College
- MD, MPH, Yale University

LINKS

- LinkedIn: https://www.linkedin.com/in/niravrshah/

Teaching

COURSES

2026-27

- How Not to Get Killed Building AI in Healthcare: MED 287 (Win)

Publications

PUBLICATIONS

- **Testing and Evaluation of Health Care Applications of Large Language Models: A Systematic Review.** *JAMA*
  Bedi, S., Liu, Y., Orr-Ewing, L., Dash, D., Koyejo, S., Callahan, A., Fries, J. A., Wornow, M., Swaminathan, A., Lehmann, L. S., Hong, H. J., Kashyap, M., Chaurasia, et al
  2024

- **We Need to Rethink Nursing Homes.** *Journal of general internal medicine*
  Farber, J. I., Shah, N. R.
  2024

- **Building a National Public Health System in the United States.** *The New England journal of medicine*
  Hamburg, M. A., Cohen, M., DeSalvo, K., Gerberding, J., Khaldun, J., Lakey, D., MacKenzie, E., Palacio, H., Shah, N. R.
  2022

- **Diagnostic Excellence and Patient Safety: Strategies and Opportunities.** *JAMA*
  Shah, N. R., Gandhi, T. K., Bates, D. W.
  2022

- **What AI in Health Care Can Learn from the Long Road to Autonomous Vehicles** *New England Journal of Medicine Catalyst*
  Norden, J. G., Shah, N. R.
  2022; March

- **Empowering clinical research in a decentralized world.** *NPJ digital medicine*
  De Brouwer, W., Patel, C. J., Manrai, A. K., Rodriguez-Chavez, I. R., Shah, N. R.
  2021; 4 (1): 102

- **An Impact-Oriented Approach to Epidemiological Modeling.** *Journal of general internal medicine*
  Shah, N. R., Lai, D. n., Wang, C. J.
  2020

- **Health Care in 2030: Will Artificial Intelligence Replace Physicians?** *Annals of internal medicine*
  Shah, N. R.
  2019

- **Build vs. Buy: What Should Health Systems Do?**
  Shah, N. R., Farkas, C. M., Kocher, B.
  New England Journal of Medicine.
  2019 ; Care Redesign

- **Predictive Analytics to Determine Next Year's Highest-Cost Patients**
  Shah, N. R., et al
  New England Journal of Medicine.
  2017 ; NEJM Catalyst

- **Healthcare's missing quality measure: time**
  Shah, N. R., et al
  Harvard Business Review.
  2017 ; Harvard Business Review

- **Health Care That Targets Unmet Social Needs**
  Shah, N. R., et al
  New England Jounal of Medicine.
  2016 ; NEJM Catalyst
- **Societal costs associated with mothers of children with major congenital anomalies: a population-based matched cohort study in Denmark.** *BMJ public health*
  Kim, K. M., Horváth-Puhó, E., Narayan, A., Wong, V., Skipper, N., Shah, N. R., Cohen, E., Toft Sørensen, H., Milstein, A.
  2026; 4 (2): e003969
- **Shaping the Future of Senior Living: Technology-Driven and Person-Centric Approaches** *JOURNAL OF AGEING AND LONGEVITY*
  Narayan, A., Shah, N. R.
  2025; 5 (3)
- **Parenthood and Paychecks-The Gender Pay Gap in Medicine.** *JAMA*
  Kim, K. M., Narayan, A., Shah, N. R., Milstein, A.
  2024
- **Beyond Brick and Mortar: The Rise of Street Medicine.** *Journal of general internal medicine*
  Narayan, A., Shah, N., Hochman, M.
  2024
- **Decentralizing Health Care: History and Opportunities of Web3.** *JMIR formative research*
  Narayan, A., Weng, K., Shah, N.
  2024; 8: e52740
- **Association between maternal employment status and presence of children with major congenital anomalies in Denmark.** *BMC public health*
  Kim, K. M., Farkas, D. K., Wong, V., Hjorth, C. F., Horváth-Puhó, E., Cahan, E., Cohen, E., Shah, N. R., Sørensen, H. T., Milstein, A.
  2024; 24 (1): 715
- **A Person-Centered Approach to Kidney Care** *NEJM CATALYST INNOVATIONS IN CARE DELIVERY*
  Liou-Johnson, V., Narayan, A., Odama, U., Weber, K., Shah, N. R.
  2024; 5 (2)
- **Integrating Public and Population Health Into Medical Education Curricula: Opportunities and Challenges for Reform.** *Academic medicine : journal of the Association of American Medical Colleges*
  Mehta, S. H., Shah, N. R.
  2023
- **Racial disparities in inpatient palliative care consultation among frail older patients undergoing high-risk elective surgical procedures in the United States: a cross-sectional study of the national inpatient sample** *Health Affairs Scholar*
  Kim, K., Muench, U., Maki, J. E., Yefimova, M., Oh, A., Jopling, J., Rinaldo, F., Shah, N., Giannitrapani, K. F., Williams, M., Lorenz, K. A.
  2023: qxad026
- **Continuous monitoring of eating and sleeping behaviors in the home environments of older adults: a case study demonstration.** *Frontiers in public health*
  Narayan, A., Goncharova, M., Goncharov, M., Gostine, A., Shah, N. R., Kaplan, R. M.
  2023; 11: 1277714
- **Development and Assessment of an Artificial Intelligence-Based Tool for Ptosis Measurement in Adult Myasthenia Gravis Patients Using Selfie Video Clips Recorded on Smartphones.** *Digital biomarkers*
  Lootus, M., Beatson, L., Atwood, L., Bourdais, T., Steyaert, S., Sarabu, C., Framroze, Z., Dickinson, H., Steels, J., Lewis, E., Shah, N. R., Rinaldo, F.
  2023; 7 (1): 63-73
- **A Brief History of Exposure Notification During the COVID-19 Pandemic in the United States, 2020-2021.** *Public health reports (Washington, D.C. : 1974)*
  Bair, H., Wanger, J. D., Shah, N. R.
  2022: 333549221099533

- **Scaling Supply to Meet Behavioral Health Demand in New York State Nursing Homes** *New England Journal of Medicine Catalyst*
  Simning, A., ..., Shah, N.
  2022; 3 (10)
- **Personalized digital intervention for depression based on social rhythm principles adds significantly to outpatient treatment.** *Frontiers in digital health*
  Frank, E., Wallace, M. L., Matthews, M. L., Kendrick, J., Leach, J., Moore, T., Aranovich, G., Choudhury, T., Shah, N. R., Framroze, Z., Posey, G., Burgess, S., Kupfer, et al
  2022; 4: 870522
- **How Health Systems Can Care for Caregivers** *NEJM CATALYST INNOVATIONS IN CARE DELIVERY*
  Shah, N. R., Drane, A.
  2021; 2 (7)
- **Predicting Environmental Allergies from Real World Data Through a Mobile Study Platform.** *Journal of asthma and allergy*
  Sarabu, C., Steyaert, S., Shah, N. R.
  2021; 14: 259–64
- **Caring for Caregivers: Bridging the Gap Between Family Caregiving Policy and Practice** *NEJM Catalyst: Innovations in Care Delivery*
  Wong, V., Rosenbaum, S., Sung, W., Kaplan, R. M., Bott, N., Platchek, T., Milstein, A., Shah, N. R.
  2021; 2 (4)
- **Mothers of children with major congenital anomalies have increased health care utilization over a 20-year post-birth time horizon.** *PloS one*
  Shah, N. R., Kim, K. M., Wong, V., Cohen, E., Rosenbaum, S., Cahan, E. M., Milstein, A., Sorensen, H. T., Horvath-Puho, E.
  2021; 16 (12): e0260962
- **Achieving a Quintuple Aim for Telehealth in Pediatrics.** *Pediatric clinics of North America*
  Cahan, E. M., Mittal, V., Shah, N. R., Thadaney-Israni, S.
  2020; 67 (4): 683–705
- **Slowing Medicare Spending by Optimizing Late-Life Needs** *NEJM CATALYST INNOVATIONS IN CARE DELIVERY*
  Rinaldo, F., Altman, M., Cannon, K., Platchek, T., Shah, N. R., Kaplan, R. M., Milstein, A.
  2020; 1 (4)
- **Impact of Social Needs Navigation on Utilization Among High Utilizers in a Large Integrated Health System: a Quasi-experimental Study.** *Journal of general internal medicine*
  Schickedanz, A., Sharp, A., Hu, Y. R., Shah, N. R., Adams, J. L., Francis, D., Rogers, A.
  2019
- **Segmentation of High-Cost Adults in an Integrated Healthcare System Based on Empirical Clustering of Acute and Chronic Conditions** *JOURNAL OF GENERAL INTERNAL MEDICINE*
  Davis, A. C., Shen, E., Shah, N. R., Glenn, B. A., Ponce, N., Telesca, D., Gould, M. K., Needleman, J.
  2018; 33 (12): 2171–79
- **Unlocking the Power of Open Health Data: A Checklist to Improve Value and Promote Use** *JOURNAL OF PUBLIC HEALTH MANAGEMENT AND PRACTICE*
  Martin, E. G., Shah, N. R., Birkhead, G. S.
  2018; 24 (1): 81-84
- **Blood pressure control and mortality in US- and foreign-born blacks in New York City** *JOURNAL OF CLINICAL HYPERTENSION*
  Gyamfi, J., Butler, M., Williams, S. K., Agyemang, C., Gyamfi, L., Seixas, A., Zinsou, G., Bangalore, S., Shah, N. R., Ogedegbe, G.
  2017; 19 (10): 956-964
- **Putting the Health of Communities and Populations First** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Goldman, L. R., Kumanyika, S. K., Shah, N. R.
  2016; 316 (16): 1649-1650
- **CURB-65 Performance Among Admitted and Discharged Emergency Department Patients With Community-acquired Pneumonia** *ACADEMIC EMERGENCY MEDICINE*
  Sharp, A. L., Jones, J. P., Wu, I., Huynh, D., Kocher, K. E., Shah, N. R., Gould, M. K.

2016; 23 (4): 400-405

- **Redesigning the Regulatory Framework for Ambulatory Care Services in New York** *MILBANK QUARTERLY*
  Chokshi, D. A., Rugge, J., Shah, N. R.
  2014; 92 (4): 776-795
- **Liberating Data to Transform Health Care New York's Open Data Experience** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Martin, E. G., Helbig, N., Shah, N. R.
  2014; 311 (24): 2481-2482
- **Housing as Health Care - New York's Boundary-Crossing Experiment** *NEW ENGLAND JOURNAL OF MEDICINE*
  Doran, K. M., Misa, E. J., Shah, N. R.
  2013; 369 (25): 2374-2377
- **Managing the Human Toll Caused by Seasonal Influenza New York State's Mandate to Vaccinate or Mask** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Caplan, A., Shah, N. R.
  2013; 310 (17): 1797-1798
- **Should Health Care Systems Become Insurers?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Shah, N. R., Chokshi, D. A.
  2013; 310 (15): 1561-1562
- **Managing Potential Conflicts of Interest in State Medicaid Pharmacy and Therapeutics Committees Seeking Harmony** *JAMA INTERNAL MEDICINE*
  Shah, N.
  2013; 173 (5): 344-344
- **Methodological Controversies from Comparative Effectiveness (CE) Studies Using Claims vs. Electronic Health Record (EHR) Data**
  Setoguchi, S., Shah, N., Roy, J., Winkelmayer, W., Glynn, R.
  WILEY-BLACKWELL.2010: S16–S17
- **Pinch and elbow extension restoration in people with tetraplegia: a systematic review of the literature.** *journal of hand surgery*
  Hamou, C., Shah, N. R., DiPonio, L., Curtin, C. M.
  2009; 34 (4): 692-699
- **Utility of different lipid measures to predict coronary heart disease** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Remick, J., Underberg, J. A., Shah, N. R.
  2008; 299 (1): 35-36
- **Biomarkers for prediction of cardiovascular events** *NEW ENGLAND JOURNAL OF MEDICINE*
  Mints, G., Shah, N. R.
  2007; 356 (14): 1473-1474
- **Bridging the inferential gap: The electronic health record and clinical evidence** *HEALTH AFFAIRS*
  Stewart, W. F., Shah, N. R., Selna, M. J., Paulus, R. A., Walker, J. M.
  2007; 26 (2): W181-W191
- **What is the best evidence for making clinical decisions?** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Shah, N. R.
  2000; 284 (24): 3127-3127
- **Randomized, controlled trials, observational studies, and the hierarchy of research designs.** *NEW ENGLAND JOURNAL OF MEDICINE*
  Concato, J., Shah, N., Horwitz, R. I.
  2000; 342 (25): 1887-1892