Stanford



Eleanor Levin

Clinical Professor, Medicine - Cardiovascular Medicine

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Portola Valley Medical Clinic**

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Bio

BIO

Eleanor Levin completed her undergraduate degree at Stanford, Phi Beta Kappa in Human Biology with Distinction, and her MD at UCSF as a Phi Beta Kappa Scholar. Her first internship was at Children's Hospital of San Francisco in pediatrics and her second at the Cleveland Clinic in internal medicine. She completed internal medicine training at Georgetown University and cardiology fellowship at George Washington University (GW) in Washington, D.C. At GW she then undertook an advanced fellowship in echocardiography and lipids. After fellowship training, Dr. Levin joined the GW faculty as an assistant professor of medicine in the Lipid Research Clinic. Subsequently she joined The Permanente Medical Group in northern California as a non-invasive cardiologist. She directed the Echocardiography Lab at Kaiser Santa Clara and introduced TEE and stress echo during her 25-year tenure. She introduced CT angiography of the heart at Santa Clara and coordinated joint readings between Radiology and Cardiology for 15 years. She created the Cholesterol Management and Heart Failure Programs initially at Santa Clara and eventually at more than 20 medical centers in Northern California. She was Kaiser's regional expert in lipidology as well as in cardiac disease in pregnancy in a patient population of 4 million. Dr. Levin served as Chief of Cardiology at Santa Clara for 14 years and as Chair of the Chiefs of Cardiology (120 cardiologists) for Northern California Kaiser for 8 years. She directed the Regional Cardiac Rehabilitation Program using home-based comprehensive rehabilitation across 18 medical centers for nearly three decades. During this time, she led teams developing cardiac guidelines embedded in order sets and electronic medical records throughout Kaiser medical centers to improve quality. She has spoken about and presented her work on population management and quality improvement nationally and internationally. Her awards include the national NCQA (National Committee of Quality Assurance) Award for Excellence in Cardiac Care, the Exceptional Contribution Award from The Permanente Medical Group for “exceptional work in care management programs” for heart failure and cholesterol management, the Santa Clara County Medical Association Outstanding Achievement Award for cardiac care management, and the Silicon Business Journal Award as one of the "Top 100 Influential Women in Silicon Valley." She has been honored as a Top Doctor as Chosen by her Peers by the Bay Area Consumer Checkbook. She is a fellow of the American College of Cardiology and the American Heart Association. She is board certified in both Internal Medicine and in Cardiovascular Diseases by the American Board of Internal Medicine. She joined the Stanford University School of Medicine as a Clinical Professor in 2018 after decades as Voluntary Affiliate Faculty at Kaiser Santa Clara. Currently she teaches medical students, medical residents, and Cardiology fellows, as well as directing the Stanford undergraduate shadowing program. She conducts collaborative research in cardio-obstetrics, Value Based Care, and cardiac rehabilitation.

Dr. Levin is a member of the Preventive Cardiology section. She consults on pregnant patients with heart disease as well as general cardiology patients with lipid disorders and a broad range of cardiovascular diseases. She is a member of the Cardio Obstetrics group and the Stanford Center for Menopause and Aging.

CLINICAL FOCUS

- Cardiovascular Disease
- Lipid management
- Heart disease in pregnancy
- Heart Disease in Women

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Cardiovascular Medicine

HONORS AND AWARDS

- SMCI and ERPG Manuscript Award., Stanford Medicine Center for Improvement/Evaluation, Research, Publications, and Grants Work Group (2025)
- Top Doctors as Chosen by Their Peers, Bay Area Consumer's Checkbook (2022)
- Women of Influence Award, Silicon Valley Business Journal (2013)
- Achievement in Medicine for improving cardiac outcomes in a large population, Santa Clara County Medical Society (2012)
- Scientific Excellence Oral Presentation, Preventive Medicine Society (2008)
- Plenary Speaker, Coronary Heart Disease, National Conference to Improve Cardiac Care, National Health Service, United Kingdom (2004)
- AHA Excellence Award for Chronic Conditions Programs, American Heart Association (2003)
- Exceptional Contribution Award for regional cholesterol and heart failure management programs., The Permanente Medical Group (2003)
- National Award for Innovations in Health Care, Adaptive Business Leaders (2003)
- National Award for Quality Improvement for population management programs in CAD and Heart Failure, National Committee for Quality Assurance (2002)
- Phi Beta Kappa, Stanford University (1974)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Heart Association (1990 - present)
- Fellow, American College of Cardiology (1990 - present)
- Invited Participant, LDL Think Tank, American College of Cardiology (2016 - 2017)
- Home-based Cardiac Rehab Group member, Million Hearts Cardiac Rehabilitation Collaborative:U.S. Dept of HHS initiative co-led by CDC &CMS (2018 - present)
- Representative from Stanford, California Medical Leadership Forum for Prevention and Public Health (2018 - present)
- Scientific Advisor, Moving Analytics, Inc. (2018 - present)
- Clinical Cardiology Consultant, AliveCor (2020 - 2022)
- Invited Panelist, AHA Center for Technology and Innovation (2021 - 2021)
- Chief of Medical Affairs, MovingAnalytics (2022 - 2024)
- Hybrid Cardiac Rehabilitation Work Group, American Heart Association (2022 - 2024)
- Liaison Member, CLCD Exercise, Cardiac Rehabilitation, and Secondary Prevention Committee of the Council on Clinical Cardiology, American Heart Association (2022 - present)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Internal Medicine , Cardiovascular Disease (1989)

- Board Certification, American Board of Internal Medicine , Internal Medicine (1985)
- Fellowship, George Washington University , Lipidology and Echocardiography (1988)
- Fellowship, George Washington University , Cardiovascular Disease (1987)
- Residency, Georgetown University , Internal Medicine (1985)
- Internship, Cleveland Clinic , Internal Medicine (1983)
- Internship, Children's Hospital of San Francisco , Pediatrics (1980)
- M.D., University of California, San Francisco , Medicine (1979)
- B.A. with Distinction, Stanford University , Human Biology (1975)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cardiovascular Value Based Care, Cardio-Obstetrics, Dyslipidemia Treatment

Publications

PUBLICATIONS

- **IMPACT OF MYOCARDIAL BRIDGING ON MATERNAL AND NEONATAL OUTCOMES: A RETROSPECTIVE COHORT STUDY**
  Jetly, A., Joudi, N., Pizula, J., Tsai, S., Levin, E. G., Njoroge, J., Kapoor, R., Hlatky, M. A., Bianco, K., Khandelwal, A.
  ELSEVIER SCIENCE INC.2026: A1079
- **Cardiac Rehabilitation for Coronary Artery Disease: Gaps, Digital Models, and the Future of Personalized Prevention.** *The American journal of cardiology*
  Bola, H., Rai, A., Penumaka, R., Ulucay, E., Levin, E., Maron, D.
  2025
- **Expedited outpatient work-up is safe for evaluation of some emergency department patients with chest pain**
  Lyapin, A., Tsai, S., Kalwani, N., Batchelder, R., Ravi, S., Barlas, N., Khandelwal, A., Kell, C., Gafencu, M., Levin, E.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Coronary aneurysm in pregnancy- when incidental coronary calcifications reveal complex maternal cardiac pathology** *Ninth International Conference on Cardiac Problems in Pregnancy*
  Faragalla, M., Tsai, S., Levin, E., Maron, D., Khandelwal, A., Pizula, J.
  2025
- **A Complex Case of Postpartum Cardiogenic Shock** *Ninth International Conference on Cardiac Problems in Pregnancy*
  Ngoroge, J., Torelli, S., Daniel, R., Pizula, J., Tsai, S., Levin, E., Khandelwal, A.
  2025
- **Electronic Health Record Alert to Promote Adoption of Limited Transthoracic Echocardiograms in Primary Care and Cardiology Clinics: A Mixed Methods Evaluation.** *Circulation. Cardiovascular quality and outcomes*
  Kalwani, N. M., Kling, S. M., Vilendrer, S., Garvert, D. W., Veruttipong, D., Baratta, J., Saliba-Gustafsson, E. A., Levin, E., Gaspar, C., Brown-Johnson, C. G., Tsai, S. A., Winget, M.
  2024; 17 (11): e010621
- **An initiative to promote value-based stress test selection in primary care and cardiology clinics: A mixed methods evaluation.** *Journal of evaluation in clinical practice*
  Kling, S. M., Kalwani, N. M., Winget, M., Gupta, K., Saliba-Gustafsson, E. A., Baratta, J., Garvert, D. W., Veruttipong, D., Brown-Johnson, C. G., Vilendrer, S., Gaspar, C., Levin, E., Tsai, et al
  2023
- **Appropriateness And Clinical Utility Of Echocardiograms For (Pre)Syncope And Palpitations In An Academic Primary Care Practice** *QCOR*
  Gupta, K., Kalwani , N., Gaspar, C., Bokokalonova, Z., Paul, R., Tsai, S., Levin, E.
  2022

- **Implementation of guideline-concordant use of stress echocardiography in primary care and cardiology clinics: a mixed methods evaluation.** *15th Annual Conference on the Science of Dissemination and Implementation in Health*
  Kling, S., Kalwani, N., Saliba-Gustafsson , E., Barrata, J., Brown-Johnson , C., Garvert , D., Gaspar, C., Levin, E., Tsai, S., Veruttipong , D., Winget , M., Vilendrer, S.
  2022

- **AN ELECTRONIC HEALTH RECORD INTERVENTION TO INCREASE USE OF LIMITED ECHOCARDIOGRAMS IN CARDIOLOGY CLINIC: A MIXED METHODS EVALUATION** *ACC Virtual Cardiovascular Summit*
  Kalwani, N. M., Kling, S. M., Barrata, J., Salina-Gustafsson , E. A., Veruttipong, D., Brown-Johnson, C. G., Vilendrer, S., Gaspar, C., Tsai, S., Winget, M., Levin, E.
  2022

- **Association of Neighborhood Income with Clinical Outcomes Among Pregnant Patients with Cardiac Disease** *Reproductive Sciences*
  Carland, C., Panelli, D. M., Leonard, S. A., Bryant, E., Sherwin , E. B., Lee, C. J., Levin, E., Jimenez , S., Tremmel, J. A., Tsai , S., Heidenreich , P. A., Bianco , K., Khandelwal , et al
  2022

- **Digital Health Interventions for Cardiac Rehabilitation: Systematic Literature Review.** *Journal of medical Internet research*
  Wongvibulsin, S., Habeos, E. E., Huynh, P. P., Xun, H., Shan, R., Porosnicu Rodriguez, K. A., Wang, J., Gandapur, Y. K., Osuji, N., Shah, L. M., Spaulding, E. M., Hung, G., Knowles, et al
  2021; 23 (2): e18773

- **An Education and Electronic Health Record Intervention Increased Utilization of Exercise Tolerance Testing at an Academic Medical Center Cardiovascular Summit Virtual, from February 1-April 30, 2021.** *ACC Virtual Cardiovascular Summit*
  Kalwani, N., Tsai, S., Gaspar, C., Gafencu, M., Paul, R., Bobokalonova , Z., Levin , E.
  2021

- **Recurrence of Atrial Myxoma in Pregnancy: Successful Intrapartum Management and Postpartum Resection** *Cardiology and Cardiovascular Medicine*
  Joudi, N., Levin, E., Miller, P., Nieman, K., Lathi, R., Boyd, J., El-Sayed, Y. Y., Khandelwal, A.
  2021; 5 (1)

- **Effect of Social Determinants on Outcomes in a High-risk Cardio-obstetrics Population**
  Carland, C., Panelli, D., Lee, C., Sherwin, E., Levin, E., Zarafshar, S., Tremmel, J. A., Tsai, S., Bianco, K., Khandelwal, A.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Cumulative Adherence to Secondary Prevention Guidelines and Mortality After Acute Myocardial Infarction** *Cumulative Adherence to Secondary Prevention Guidelines and Mortality After Acute Myocardial Infarction*
  Solomon, M., Leong, T., Levin, E., et al
  2020

- **Bicuspid Aortic Valve and Ascending Aortic Aneurysm in a Twin Pregnancy.** *JACC. Case reports*
  Bryant, E., Tsai, S., Levin, E., Fleischman, D., Ansari, J., Fischbein, M., Bianco, K., Khandelwal, A.
  2020; 2 (1): 96-100

- **Effect of Social Determinants on Outcomes in a High-risk Cardio-obstetrics Population** *AHA Scientific Sessions*
  Carland, C., Panelli, D., Lee, C., Sherwin, E., Levin, E., Zarafshar, S., Tremmel, J. A., Tsai, S., Bianco, K., Khandelwal, A.
  2020: 1

- **SUCCESS OF A HOME-BASED CARDIAC REHABILITATION PROGRAM IN A POPULATION OF NEARLY 4 MILLION**
  Levin, E. G., von Coll, S., Dlott, R.
  ELSEVIER SCIENCE INC.2017: 1731

- **Adherence to Secondary Prevention Guidelines and Mortality After Acute Myocardial Infarction**
  Solomon, M. D., Leong, T. K., Sung, S. H., Jaffe, M., Levin, E., Rana, J. S., Go, A. S.
  American Heart Association. Circulation.
  2017 ; 136 (A16268):

- **Outcomes of Chest Pain Calls to an Advice and Appointment Call Center**
  Bhargava, R., Temkin, T. L., Fireman, B., Levin, E., Amaral, D.

LIPPINCOTT WILLIAMS & WILKINS.2012

- **Standardized Discharge Orders after Stroke Results of the Quality Improvement in Stroke Prevention (QUISP) Cluster Randomized Trial** *ANNALS OF NEUROLOGY*
  Johnston, S., Sidney, S., Hills, N. K., Grosvenor, D., Klingman, J. G., Bernstein, A., Levin, E.
  2010; 67 (5): 579–89
- **Standardized Discharge Orders After Stroke: Results of the Quality Improvement in Stroke Prevention (QUISP) Trial**
  Johnston, S., Sidney, S., Hills, N. K., Grosvenor, D., Klingman, J. G., Bernstein, A., Levin, E.
  LIPPINCOTT WILLIAMS & WILKINS.2010: E289
- **Preventing Heart Attack and Stroke Everyday (PHASE): Optimizing Cardiovascular Risk Reduction in a Coronary Artery Disease-Equivalent Population Within a Large Integrated Health Care System** *Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Oral Presentations*
  Levin, E., Sidney, S., Selby, J. V., Jaffe, M.
  2009
- **Blood pressure control among women six months after ischemic stroke**
  Hills, N., Grosvenor, D., Sidney, S., Klingman, J., Bernstein, A., Levin, E., Johnston, S.
  LIPPINCOTT WILLIAMS & WILKINS.2008: A232
- **Race and blood pressure control six months after ischemic stroke**
  Hills, N. K., Nguyen-Huynh, M., Grosvenor, D., Sidney, S., Klingman, J., Bernstein, A., Levin, E., Johnston, S. C.
  LIPPINCOTT WILLIAMS & WILKINS.2008: 622–23
- **Successful clinical guidelines implementation in a large integrated healthcare system**
  Levin, E., Emerson, L., Whippy, A., Steimle, A. E., Pearl, R.
  LIPPINCOTT WILLIAMS & WILKINS.2007: 785
- **Acute Coronary Syndromes Clinical Practice Guidelines.** *Critical pathways in cardiology*
  Brindis, R. G., Fischer, E., Besinque, G., Gjedsted, A., Lee, P. C., Padgett, T., Petru, M., Raley, J., Levin, E., Strohmeier, A.
  2006; 5 (2): 69-102
- **Myocardial infarction in Asian Indians (MIAI) study: The Kaiser Permanente Northern California experience**
  Rau, J., Johnsen, N., Lee, P., Chandra, M., Go, A., Levin, E.
  LIPPINCOTT WILLIAMS & WILKINS.2006: E378
- **Gender bias in the use of lipid-lowering therapy**
  Bhargava, R., Sandhu, G., Armstrong, M., Nasiri, H., Sah, A., Levin, E.
  LIPPINCOTT WILLIAMS & WILKINS.2005: U893
- **Differential association between statin exposure and elevated levels of creatine kinase** *ANNALS OF PHARMACOTHERAPY*
  Chan, J., Hui, R. L., Levin, E.
  2005; 39 (10): 1611–16
- **Successful conversion of patients with hypercholesterolemia from a brand name to a generic cholesterol-lowering drug**
  Cheetham, T. C., Chan, J., Benson, Richmond, C., Levin, E., Campen, D.
  AMER MED PUBLISHING, M W C COMPANY.2005: 546–52
- **Women at Risk for Coronary Heart Disease: How Research is Translated Into Innovation and Quality Outcomes at Kaiser Permanente.** *The Permanente journal*
  Levin, E., Arango, J.
  2005; 9 (1): 48-51
- **Chronic Kidney Disease and Lipid Control in Patients with Coronary Artery Disease** *American Society of Nephrology*
  Nasiri, H., Armstrong, M., Sandhu, G., Levin, E., Bhargava, R., Hung, Y.
  2005
- **Successful conversion of 33,318 patients with hypercholesterolernia from a brand-name to a generic cholesterol-lowering drug**
  Levin, E., Cheetham, C. T., Chan, J., Richmond, C., Benson, V. M., Campen, D.
  LIPPINCOTT WILLIAMS & WILKINS.2004: 819

- **Putting Heart Disease Guidelines into Practice: Kaiser Permanente Leads the Way** *The Permanente Journal*
  L, P., Ralph, B., Levin, E.
  2003; 7 (1)
- **Population-based approach to heart failure management is associated with improved outcomes**
  Steimle, A., Levin, E., Arango, J., Kim, E., Stone, B.
  LIPPINCOTT WILLIAMS & WILKINS.2002: 568
- **Myocardial infarction mortality in patients administered thrombolytic therapy versus primary percutaneous coronary intervention: A two-county comparison in northern California**
  Levin, E., Brindis, R., Petru, M., Lee, P.
  LIPPINCOTT WILLIAMS & WILKINS.2002: 761
- **Innovative approach to guidelines implementation is associated with declining cardiovascular mortality in a population of three million**
  Levin, E. G., Arango, J., Steimle, A. E., Lee, P. C., Fireman, B.
  LIPPINCOTT WILLIAMS & WILKINS.2001: 789
- **Home-based cardiac rehabilitation program is associated with excellent outcomes**
  Krowley, J., Levin, E. G.
  LIPPINCOTT WILLIAMS & WILKINS.2001: 800
- **COMPARISON OF PSYLLIUM HYDROPHILIC MUCILLOID AND CELLULOSE AS ADJUNCTS TO A PRUDENT DIET IN THE TREATMENT OF MILD TO MODERATE HYPERCHOLESTEROLEMIA** *ARCHIVES OF INTERNAL MEDICINE*
  LEVIN, E. G., MILLER, V. T., MUESING, R. A., STOY, D. B., BALM, T. K., LAROSA, J. C.
  1990; 150 (9): 1822–27
- **Improving Cardiac Rehabilitation Referral Rate in a Post-PCI Population: Using NCDR CathPCI® Registry and Integrated Electronic Medical Record, ACC NCDR 11, April 1, 2011**
  Chen, S., Lee, A., Levin, E., Jackson, J., Ford, T.
  2011
- **Comparison of Screening Outcomes Among Different Healthcare Delivery Systems for Three Major Diseases: February 2008, Oral Presentation** *Preventive Medicine Society Annual Scientific Meeting*
  Levin, E., Loftus, B., Pearl, R.
  2008

PRESENTATIONS

- Cardiovascular Risks in Menopause - Right Care Initiative 5/13/2024
- Invited Speaker, “Menopause and CVD Risk”, - Stanford CME on Menopause (March 7, 2025)
- Invited Speaker, “Remote, Virtual, and Hybrid Cardiac Rehabilitation: Digital Solutions,” - Stanford CME International Webinar“Transforming Cardiac Rehabilitation,” (8/6/2022)
- Preventive Cardiology - Public Heath Leadership Forum (6/12/2022 - 6/12/2022)
- Keynote: Lipid Management Advances for Improved Outcomes - Right Care University of Best Practices (January 11, 2021)
- Cardiac Rehabilitation Best Practices - California Dept of Public Health: Healthy Hearts Conference (6/17/2019 - 6/17/2019)
- Invited Speaker, “Menopause and CVD Risk,” - Right Care Initiative UC Berkeley (5/13/2024)
- Invited Speaker, “Preventive Cardiology,” - Right Care Initiative UC Berkeley (January 11, 2023)
- Update on Hypertension Guidelines - Right Care Initiative