



Julie J Lee

- Affiliate, Department Funds
- Fellow in Graduate Medical Education

Bio

BIO

Julie J. Lee, MD, MPH, is a board-certified internal medicine physician and clinical informaticist at Stanford University. Dr. Lee's expertise in clinical informatics enables her to effectively implement informatics-driven approaches and clinically integrate AI models to improve patient health outcomes, alleviate physician burnout by streamlining workflows, and champion health equity.

Dr. Lee has been key to several initiatives in improving operational processes within Stanford. Her efforts range from advancing the governance and operations of Clinical Decision Support to the strategic integration of the Prescription Drug Monitoring Program into the electronic health record (EHR), thereby reducing clinician work burden in addressing the opioid crisis. Additionally, she has worked on innovative solutions to improve patient-physician communications--she created a dynamic EHR tool for better triage and processing by medical staff before reaching the doctors.

Health equity is her north star, informing Dr. Lee to dedicated engagement with historically underrepresented populations in medical research and collaborative partnerships between academia and community healthcare practitioners. Her previous role as an EpiScholar with the Los Angeles Department of Public Health involved researching the impact of language and acculturation on the Latino population's dietary habits and health behaviors, with a particular focus on diabetes. She has also worked with community health centers in east Los Angeles to bridge the translational gap between academic research and frontline healthcare workers, facilitating the transfer of cutting-edge liver disease research to those treating patients with substance abuse-related liver conditions. Of major clinical interest is cardiovascular disease—she has published several papers on impact of sex-specific risk factors for cardiovascular disease in women and transgender population.

Currently, as a part of her informatics approaches, Dr. Lee focuses health equity on leveraging patient data and AI/ML models to identify and mitigate health disparities, making certain they function as instruments of equity rather than increasing gaps. She is a member of Healthcare AI Applied Research Team (HEA3RT) with a focus on bringing code to bedside.

In the upcoming academic year, Dr. Lee will lead as health equity informaticist within the Primary Care Population Health division at Stanford.

CLINICAL FOCUS

- Clinical Informatics
- Health Equity
- Artificial Intelligence
- Addiction Medicine
- Digital Health Equity

- Fellow
- Cardiovascular Diseases
- Women's Health
- Internal Medicine
- Primary Care

INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

HONORS AND AWARDS

- Fellow-In-Training Research Abstract Award, American Society of Addiction Medicine (02/2024)
- Quality Improvement Abstract Award, American College of Physicians, Northern California (10/2023)
- Overall Abstract Award, Stanford Quality Improvement & Patient Safety Symposium (05/2023)
- Future Physician Leader, High Value Physician Alliance (06/2021)
- Graduation with Research Honors, University at Buffalo (06/2019)
- Women's Health Clinical Research Abstract 1st Place Award, Academy of Women's Health (04/2017)
- Greenway Scholarship, Yale University, School of Public Health (08/2011)
- Clarence Darrow Leadership Award, Rotaract Club of Columbia University (06/2010)
- Spingarn Named Scholarship, Columbia University (09/2007)
- Milken Scholar, Milken Family Foundation (03/2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Opioid Task Force (2023 - present)
- Member, Medical Informatics Director Weekly Meeting (2022 - present)
- Member, Clinical Decision Support Committee (2022 - present)
- Member, American Medical Informatics Association (2021 - present)
- Member, American College of Physicians (2019 - present)

PROFESSIONAL EDUCATION

- Fellowship, Stanford University , Clinical Informatics
- Residency, University of California, Riverside , Internal Medicine
- Internship, University of California, Riverside , Internal Medicine
- MD, University at Buffalo , Medicine
- MPH, Yale School of Public Health , Chronic Disease Epidemiology
- BA, Columbia University , Psychology

Publications

PUBLICATIONS

- **Clinical Decision Support in the Electronic Health Record: A Primer for Antimicrobial/Diagnostic Stewards and Infection Preventionists: Work Smarter so End Users Don't Work Harder**
Smith, M. R., Lee, J. J., Chang, A., et al
Antibiotic Stewardship & Healthcare Epidemiology.
2024

- **Reimagining Primary Care With AI: A Future Within Reach**
Shah, S., Lee, J. J., et al
Practice Update.
2024
- **Paging the Clinical Informatics Community: Respond STAT to Dobbs v Jackson's Women's Health Organization.** *Applied clinical informatics*
Arvisais-Anhalt, S., Ravi, A., Weia, B., Aarts, J., Ahmad, H. B., Araj, E., Bauml, J. A., Benham-Hutchins, M., Boyd, A. D., Brecht-Doscher, A., Butler-Henderson, K., Butte, A., Cardillo, et al
2022
- **After menopause, is an enlarging middle, an enlarging cardiovascular risk factor?** *Menopause (New York, N.Y.)*
Lee, J. J., Shufelt, C. L.
2020; 27 (9): 974-975
- **Cardiovascular implications of gender-affirming hormone treatment in the transgender population.** *Maturitas*
Dutra, E., Lee, J., Torbati, T., Garcia, M., Merz, C. N., Shufelt, C.
2019; 129: 45-49
- **Age at Menarche and Risk of Cardiovascular Disease Outcomes: Findings From the National Heart Lung and Blood Institute-Sponsored Women's Ischemia Syndrome Evaluation.** *Journal of the American Heart Association*
Lee, J. J., Cook-Wiens, G., Johnson, B. D., Braunstein, G. D., Berga, S. L., Stanczyk, F. Z., Pepine, C. J., Bairey Merz, C. N., Shufelt, C. L.
2019; 8 (12): e012406
- **Lagged Versus Difference Score Regression: An Example From a Community-Based Educational Seminar Evaluation** *Pedagogy in Health Promotion*
Valente, T. W., Lee, J. J., et al
2017; 3 (4)
- **Clinical characteristics associated with Spitz nevi and Spitzoid malignant melanomas: the Yale University Spitzoid Neoplasm Repository experience, 1991 to 2008.** *Journal of the American Academy of Dermatology*
Lott, J. P., Wititsuwannakul, J., Lee, J. J., Ariyan, S., Narayan, D., Kluger, H. H., Lazova, R.
2014; 71 (6): 1077-82
- **The Association of Acculturation and Poor Nutritional Behavior Among Latinos In The Los Angeles County Health Survey 2007**
Lee, J. J.
Public Health Theses.
2013
- **LA County Diabetes Health Brief. Los Angeles Department of Public Health and American Diabetes Association, Los Angeles County Health Survey 2010-2011**
Lee, J., et al
Los Angeles Department of Public Health.
2012
- **Artificial Physics, Swarm Engineering, and the Hamiltonian Method** *Proceedings of the World Congress on Engineering and Computer Science 2007*
Sanza, K., Lee, J. J., Lee, J.
2007

PRESENTATIONS

- Who governs the governors? Utilizing quality improvement methodology to optimize clinical decision support governance processes. - EPIC Expert Group Meeting (5/1/2024)
- Evaluating the Impact of Electronic Medical Record Integration of Prescription Drug Monitoring Program in California: A Comparative Study on Reliability, Workflow Efficiency, and User Experience - American Medical Informatics Association Clinical Informatics Conference (5/23/2024)