



Michelle P. Lin

Associate Professor of Emergency Medicine (Adult Clinical/Academic)

CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Emergency Medicine**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Rosaline Dorie Grayson - Research Administrative Office
Manager

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Bio

BIO

Dr. Michelle Lin is an emergency physician-scientist working to make emergency care more patient-centered, accessible, equitable, and affordable. Her active NIH-funded research projects develop new quality measures based on what matters most to patients; improve post-ED discharge care for high risk patients; and enhance physician diversity and retention. Her prior funded work has evaluated the impact of value-based care on emergency care delivery and payment; drivers of hospitalization during ED visits; and changes in the intensity of emergency care.

Dr. Lin leads the development of quality measures used nationally by emergency physicians in federally mandated payment programs through her leadership roles in the American College of Emergency Physicians and Clinical Emergency Data Registry. She is the sole emergency physician appointed to the All-Cause Admissions and Readmissions Standing Committee, with responsibility for issuing endorsement recommendations for all admissions and readmissions quality measures to CMS and other national regulatory bodies. She was previously a fellow and external consultant to the Centers for Medicare and Medicaid Innovation on projects evaluating access to care within advanced alternative payment models.

Dr. Lin has received several national awards for her work, including the 2021 Society for Academic Emergency Medicine Young Investigator Award and 2016 AcademyHealth Presidential Scholarship for New Health Services Researchers. She completed residency at Bellevue Hospital Center in New York City and fellowship in Health Policy Research at Brigham and Women's Hospital and Harvard Medical School, where she also completed a Masters in Clinical Epidemiology at the Harvard T.H. Chan School of Public Health.

Please reach out at drmichellelin.com/contact

CLINICAL FOCUS

- Emergency Medicine

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Emergency Medicine

ADMINISTRATIVE APPOINTMENTS

- Chair, Clinical Emergency Data Registry Committee (Vice Chair and Chair-Elect 2018-2020), American College of Emergency Physicians, (2018-2022)
- Co-Chair, Quality Measure Lifecycle Management Workgroup, Quality and Patient Safety Committee, American College of Emergency Physicians, (2019- present)

HONORS AND AWARDS

- Distinguished Scholar Award, Office of Gender Equity in Science and Medicine, Icahn School of Medicine at Mount Sinai (2022)
- Early Career Investigator Award, Society for Academic Emergency Medicine (2021)
- Rising Star Researcher, New York American College of Emergency Physicians (2021)
- Junior Faculty Award for Overall Academic Excellence, Faculty Council, Icahn School of Medicine at Mount Sinai (2020)
- 45 Under 45 Top National Influencers in Emergency Medicine, Emergency Medicine Residents' Association (2019)
- Academy for Women in Academic Emergency Medicine Momentum Award, Academy for Women in Academic Emergency Medicine, Society for Academic Emergency Medicine (2019)
- Presidential Scholarship for New Health Services Researchers, AcademyHealth (2016)
- Best Poster, Patient-Centered Outcomes and Comparative Effectiveness Research Day, Brigham and Women's Hospital, Harvard Medical School (2015)
- Visiting Scholar, Inaugural Class, American Board of Medical Specialties (2014)
- Winning Innovation, Teaching Value and Choosing Wisely Competition, American Board of Internal Medicine Foundation. (2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Quality and Value Interest Group Advisory Committee, AcademyHealth (2023 - present)
- Board of Governors, Emergency Medicine Data Institute, American College of Emergency Physicians (2022 - present)
- Editorial Board, Academic Emergency Medicine Journal (2021 - present)
- Executive Council (Vice President for Communications 2019-2021, Secretary 2021-2022), Academy for Women in Academic Emergency Medicine (2019 - 2022)

PROFESSIONAL EDUCATION

- Fellowship, Brigham and Women's Hospital and Harvard Medical School , Health Policy Research
- Residency, New York University and Bellevue Hospital Center , Emergency Medicine
- MPH, Northwestern University , Public Health
- MD, Northwestern University , Medicine
- Masters, Harvard School of Public Health , Clinical Epidemiology

LINKS

- Personal Site: <https://www.drnichellelin.com/>
- Stanford ADRC Justice, Equity, Diversity, & Inclusion: <https://med.stanford.edu/adrc/jedi.html>
- Stanford Geriatric Medicine Researchers: <https://med.stanford.edu/geriatricmedicine/Research/Researchers.html>

Research & Scholarship

RESEARCH INTERESTS

- Diversity and Identity
- Professional Development
- Research Methods

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Lin's active NIH-funded research portfolio includes developing a novel patient-reported outcome measure for emergency asthma care; evaluating post-acute transitions and outcomes for high-risk populations; and enhancing health professions workforce diversity and retention. Her prior funded projects have evaluated the impact of value-based care on emergency care delivery and payment; drivers of ED admission rates; and changes in the intensity of emergency care.

Publications

PUBLICATIONS

- **The Clinical Emergency Data Registry: Structure, Use, and Limitations for Research.** *Annals of emergency medicine*
Lin, M. P., Sharma, D., Venkatesh, A., Epstein, S. K., Janke, A., Genes, N., Mehrotra, A., Augustine, J., Malcolm, B., Goyal, P., Griffey, R. T.
2024
- **Barriers and Best Practices for the Use of Patient-Reported Outcome Measures in Emergency Medicine.** *Annals of emergency medicine*
Lin, M. P., Kligler, S. K., Friedman, B. W., Kim, H., Rising, K., Samuels-Kalow, M., Eucker, S. A.
2023
- **A Quality Framework to Address Racial and Ethnic Disparities in Emergency Department Care.** *Annals of emergency medicine*
Khidir, H., Salhi, R., Sabbatini, A. K., Franks, N. M., Green, A., Richardson, L. D., Terry, A., Vasquez, N., Goyal, P., Kocher, K., Venkatesh, A. K., Lin, M. P.
2022
- **Decline in US Emergency Department admission rates driven by critical pathway conditions, 2006-2014** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
Lin, M. P., Baker, O., Richardson, L. D., Schuur, J. D.
2022; 59: 94-99
- **Ambulatory Follow-up and Outcomes Among Medicare Beneficiaries After Emergency Department Discharge** *JAMA NETWORK OPEN*
Lin, M. P., Burke, R. C., Orav, E., Friend, T. H., Burke, L. G.
2020; 3 (10): e2019878
- **Effect of Accountable Care Organizations on Emergency Medicine Payment and Care Redesign: A Qualitative Study** *ANNALS OF EMERGENCY MEDICINE*
Lin, M. P., Revette, A., Carr, B. G., Richardson, L. D., Wiler, J. L., Schuur, J. D.
2020; 75 (5): 597-608
- **Impact of a Women-focused Professional Organization on Academic Retention and Advancement: Perceptions From a Qualitative Study** *ACADEMIC EMERGENCY MEDICINE*
Lin, M. P., Lall, M. D., Samuels-Kalow, M., Das, D., Linden, J. A., Perman, S., Chang, A., Agrawal, P.
2019; 26 (3): 303-316
- **Trends in Emergency Department Visits and Admission Rates Among US Acute Care Hospitals** *JAMA INTERNAL MEDICINE*
Lin, M. P., Baker, O., Richardson, L. D., Schuur, J. D.
2018; 178 (12): 1708-1710
- **Geriatric Emergency Medication Safety Recommendations (GEMS-Rx): Modified Delphi Development of a High-Risk Prescription List for Older Emergency Department Patients.** *Annals of emergency medicine*
Skains, R. M., Koehl, J. L., Aldeen, A., Carpenter, C. R., Gettel, C. J., Goldberg, E. M., Hwang, U., Kocher, K. E., Southerland, L. T., Goyal, P., Berdahl, C. T., Venkatesh, A. K., Lin, et al
2024
- **Pandemic phase-related racial and ethnic disparities in COVID-19 positivity and outcomes among patients presenting to emergency departments during the first two pandemic waves in the USA.** *Emergency medicine journal : EMJ*
Khosla, S., Del Rios, M., Chisolm-Straker, M., Bilal, S., Jang, T. B., Wang, H., Hartley, M., Loo, G. T., d'Etienne, J. P., Newgard, C. D., Courtney, D. M., Choo, E. K., Lin, et al
2024
- **Challenges surrounding the emergency physician workforce and their impact on the Emergency Medicine Match.** *Clinical and experimental emergency medicine*
Bennett, C. L., Lin, M., Camargo, C. A.

2023

- **Beyond the Four Walls: The American College of Emergency Physicians 2022 New Practice Models Task Force Report.** *Annals of emergency medicine*
Oskvarek, J. J., Blutinger, E. J., Pilgrim, R., Joshi, A. U., Lin, M. P., Mazer-Amirshahi, M., Miller, G., Smiley, A., Becker, C. W., Pines, J. M.
2023
- **Inhaled Corticosteroids Rarely Prescribed at Emergency Department Discharge Despite Low Rates of Follow-Up Care.** *The Journal of emergency medicine*
Kligler, S. K., Vargas-Torres, C., Abbott, E. E., Lin, M. P.
2023
- **A Response to: The termination of an ectopic pregnancy is not an abortion.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
Samuels-Kalow, M. E., Agrawal, P., Rodriguez, G., Zeidan, A., Love, J. S., Monette, D., Lin, M., Cooper, R. J., Madsen, T. E., Dobiesz, V.
2023
- **Patient Sociodemographics and Comorbidities and Birth Hospital Characteristics Associated With Postpartum Emergency Department Care.** *JAMA network open*
Zarrin, H., Vargas-Torres, C., Janevic, T., Stern, T., Lin, M. P.
2023; 6 (3): e233927
- **Proceedings from the 2021 SAEM Consensus Conference: Research Priorities for Interventions to Address Social Risks and Needs Identified in Emergency Department Patients.** *The western journal of emergency medicine*
Kraynov, L., Quarles, A., Kerrigan, A., Mayes, K. D., Mahmoud-Werthmann, S., Fockele, C. E., Duber, H. C., Doran, K. M., Lin, M. P., Cooper, R. J., Wang, N. E.
2023; 24 (2): 295-301
- **2021 SAEM Consensus Conference Proceedings: Research Priorities for Implementing Emergency Department Screening for Social Risks and Needs.** *The western journal of emergency medicine*
Yore, M., Fockele, C. E., Duber, H. C., Doran, K. M., Cooper, R. J., Lin, M. P., Campbell, S., Eswaran, V., Chang, B., Hong, H., Gbenedio, K., Stanford, K. A., Gavin, et al
2023; 24 (2): 302-311
- **A Response To Post-Roe Emergency Medicine: Important Considerations for Adolescents.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
Samuels-Kalow, M. E., Agrawal, P., Rodriguez, G., Zeidan, A., Love, J. S., Monette, D., Lin, M., Cooper, R. J., Madsen, T. E., Dobiesz, V.
2023
- **Trends In Treat-And-Release Emergency Care Visits With High-Intensity Billing In The US, 2006-19.** *Health affairs (Project Hope)*
Janke, A. T., Gettel, C., Koski-Vacirca, R., Lin, M. P., Kocher, K. E., Venkatesh, A. K.
2022; 41 (12): 1772-1780
- **Post-Roe Emergency Medicine: Policy, clinical, training, and individual implications for emergency clinicians.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
Samuels-Kalow, M. E., Agrawal, P., Rodriguez, G., Zeidan, A., Love, J. S., Monette, D., Lin, M., Cooper, R. J., Madsen, T. E., Dobiesz, V.
2022
- **2021 SAEM Consensus Conference Proceedings: Research Priorities for Developing Emergency Department Screening Tools for Social Risks and Needs.** *The western journal of emergency medicine*
Furbacher, J., Fockele, C., Buono, B. D., Janneck, L., March, C., Molina, M., Duber, H. C., Doran, K. M., Lin, M. P., Cooper, R. J., Modi, P.
2022; 23 (6): 817-822
- **Cost variation and revisit rate for adult patients with asthma presenting to the emergency department.** *The American journal of emergency medicine*
Casey, M. F., Richardson, L. D., Weinstock, M., Lin, M. P.
2022; 61: 179-183
- **Racial and Ethnic Disparities in Hospitalization and Clinical Outcomes Among Patients with COVID-19.** *The western journal of emergency medicine*
Serrano, F., Blutinger, E. J., Vargas-Torres, C., Bilal, S., Counts, C., Straight, M., Lin, M. P.
2022; 23 (5): 601-612
- **Predictors of Outpatient Follow-Up Care after Adult Emergency Department Asthma Visits and Association with 30-Day Outcomes.** *The Journal of asthma : official journal of the Association for the Care of Asthma*
Abbott, E. E., Vargas-Torres, C., Kligler, S. K., Spadafore, S., Lin, M. P.

2022; 1-13

- **"Why bother?": Barriers to reporting gender and sexual harassment in emergency medicine** *ACADEMIC EMERGENCY MEDICINE*
Zeidan, A., Patel, J., Dys, G., Dean, L., Curt, A., Lin, M. P., Samuels-Kalow, M.
2022
- **Emergency departments in the United States treating high proportions of patients with ambulatory care sensitive conditions: a retrospective cross-sectional analysis** *BMC HEALTH SERVICES RESEARCH*
Hsuan, C., Zebrowski, A., Lin, M. P., Buckler, D. G., Carr, B. G.
2022; 22 (1): 854
- **Development of a Novel Emergency Department Quality Measure to Reduce Very Low-Risk Syncope Hospitalizations** *ANNALS OF EMERGENCY MEDICINE*
Probst, M. A., Janke, A. T., Haimovich, A. D., Venkatesh, A. K., Lin, M. P., Kocher, K. E., Nemnom, M., Thiruganasambandamoorthy, V.
2022; 79 (6): 509-517
- **Diversity of leadership in academic emergency medicine: Are we making progress?** *The American journal of emergency medicine*
Linden, J. A., Baird, J., Madsen, T. E., Rounds, K., Lall, M. D., Raukar, N. P., Fang, A., Lin, M., Sethuraman, K., Dobiesz, V. A.
2022; 57: 6-13
- **Executive summary of the 2021 SAEM Consensus Conference: From Bedside to Policy: Advancing Social Emergency Medicine and Population Health Through Research, Collaboration, and Education** *ACADEMIC EMERGENCY MEDICINE*
Schoenfeld, E. M., Lin, M. P., Samuels-Kalow, M. E.
2022; 29 (3): 354-363
- **Perspectives on Telehealth for older adults during the COVID-19 pandemic using the quadruple aim: interviews with 48 physicians** *BMC GERIATRICS*
Goldberg, E. M., Lin, M. P., Burke, L. G., Jimenez, F. N., Davoodi, N. M., Merchant, R. C.
2022; 22 (1): 188
- **Nearly all thirty most frequently used emergency department drugs experienced shortages from 2006-2019** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
Lin, M. P., Vargas-Torres, C., Shin-Kim, J., Tin, J., Fox, E.
2022; 53: 135-139
- **Institutional Solutions Addressing Disparities in Compensation and Advancement of Emergency Medicine Physicians: A Critical Appraisal of Gaps and Associated Recommendations.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
Madsen, T. E., Heron, S., Lall, M. D., Blomkalns, A., Arbelaez, C., Lopez, B., Lin, M., Rounds, K., Sethuraman, K. N., Safdar, B.
1800
- **Development of a qualified clinical data registry for emergency medicine** *JOURNAL OF THE AMERICAN COLLEGE OF EMERGENCY PHYSICIANS OPEN*
Epstein, S. K., Griffey, R. T., Lin, M. P., Augustine, J. J., Goyal, P., Venkatesh, A. K.
2021; 2 (6): e12547
- **A Scoping Review of Current Social Emergency Medicine Research.** *The western journal of emergency medicine*
Shah, R., Della Porta, A., Leung, S., Samuels-Kalow, M., Schoenfeld, E. M., Richardson, L. D., Lin, M. P.
2021; 22 (6): 1360-1368
- **Emergency Department Utilization for Emergency Conditions During COVID-19** *ANNALS OF EMERGENCY MEDICINE*
Venkatesh, A. K., Janke, A. T., Li Shu-Xia, Rothenberg, C., Goyal, P., Terry, A., Lin, M.
2021; 78 (1): 84-91
- **Here to chair: Gender differences in the path to leadership.** *Academic emergency medicine : official journal of the Society for Academic Emergency Medicine*
Sethuraman, K. N., Lin, M., Rounds, K., Fang, A., Lall, M. D., Parsons, M., Linden, J. A., Gursahani, K., Raukar, N., Perman, S. M., Dobiesz, V. A.
2021
- **Effectiveness and Reach of the Primary Palliative Care for Emergency Medicine (PRIM-ER) Pilot Study: a Qualitative Analysis** *JOURNAL OF GENERAL INTERNAL MEDICINE*
Chung, F. R., Turecamo, S., Cuthel, A. M., Grudzen, C. R., PRIM-ER Investigators
2021; 36 (2): 296-304
- **The terminology of social emergency medicine: Measuring social determinants of health, social risk, and social need** *JOURNAL OF THE AMERICAN COLLEGE OF EMERGENCY PHYSICIANS OPEN*

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- Samuels-Kalow, M. E., Ciccolo, G. E., Lin, M. P., Schoenfeld, E. M., Camargo, C. A.
2020; 1 (5): 852-856
- **Assessment of Emergency Medicine Residents' Clinical Reasoning: Validation of a Script Concordance Test** *WESTERN JOURNAL OF EMERGENCY MEDICINE*
Steinberg, E., Cowan, E., Lin, M. P., Sielicki, A., Warrington, S.
2020; 21 (4): 978-984
 - **Association between care delivery interventions to enhance access and patients' perceived access in the Comprehensive Primary Care Initiative** *HEALTHCARE-THE JOURNAL OF DELIVERY SCIENCE AND INNOVATION*
Lin, M. P., MacDonald, L., Jin, J., Reddy, A.
2020; 8 (2): 100412
 - **Perception of Physician Empathy Varies With Educational Level and Gender of Patients Undergoing Low-Yield Computerized Tomographic Imaging** *JOURNAL OF PATIENT EXPERIENCE*
Kline, J. A., Lin, M. P., Hall, C. L., Puskarich, M. A., Dehon, E., Kuehl, D. R., Wang, R. C., Hess, E. P., Runyon, M. S., Wang, H., Courtney, D.
2020; 7 (3): 386-394
 - **Shared Decision Making for Syncope in the Emergency Department: A Randomized Controlled Feasibility Trial** *ACADEMIC EMERGENCY MEDICINE*
Probst, M. A., Lin, M. P., Sze, J. J., Hess, E. P., Breslin, M., Frosch, D. L., Sun, B. C., Langan, M., Thiruganasambandamoorthy, V., Richardson, L. D.
2020; 27 (9): 853-865
 - **US ED Opioid-Related Visits Increase, While Use of Medication for Opioid Use Disorder Undetectable, 2011-2016** *JOURNAL OF GENERAL INTERNAL MEDICINE*
Shastry, S., Manini, A. F., Richardson, L. D., Lin, M. P.
2020; 35 (3): 965-966
 - **Primary Palliative Care for Emergency Medicine (PRIM-ER): Protocol for a Pragmatic, Cluster-Randomised, Stepped Wedge Design to Test the Effectiveness of Primary Palliative Care Education, Training and Technical Support for Emergency Medicine** *BMJ OPEN*
Grudzen, C. R., Brody, A. A., Chung, F. R., Cuthel, A. M., Mann, D., McQuilkin, J. A., Rubin, A. L., Swartz, J., Tan, A., Goldfeld, K. S., Abella, B., Abraham, G., Cridge, et al
2019; 9 (7): e030099
 - **Trends and predictors of hospitalization after emergency department asthma visits among US Adults, 2006-2014** *JOURNAL OF ASTHMA*
Lin, M. P., Vargas-Torres, C., Schuur, J. D., Shi, D., Wisnivesky, J., Richardson, L. D.
2020; 57 (8): 811-819
 - **Engagement of Accountable Care Organizations in Acute Care Redesign: Results of a National Survey** *JOURNAL OF GENERAL INTERNAL MEDICINE*
Lin, M. P., Muhlestein, D., Carr, B. G., Richardson, L. D., Wiler, J. L., Schuur, J. D.
2018; 33 (10): 1601-1603
 - **Improving perceptions of empathy in patients undergoing low-yield computerized tomographic imaging in the emergency department** *PATIENT EDUCATION AND COUNSELING*
Lin, M. P., Probst, M. A., Puskarich, M. A., Dehon, E., Kuehl, D. R., Wang, R. C., Hess, E. P., Butler, K., Runyon, M. S., Wang, H., Courtney, D., Muckley, B., Hobgood, et al
2018; 101 (4): 717-722
 - **Facilitators and Barriers to Reducing Emergency Department Admissions for Chest Pain: A Qualitative Study.** *Critical pathways in cardiology*
Lin, M. P., Natsui, S., Sinnette, C., Ball, A., Weissman, J. S., Schuur, J. D.
2018; 17 (4): 201-207
 - **ED-Based Care Coordination Reduces Costs for Frequent ED Users** *AMERICAN JOURNAL OF MANAGED CARE*
Lin, M. P., Blanchfield, B. B., Kakoza, R. M., Vaidya, V., Price, C., Goldner, J. S., Higgins, M., Lessenich, E., Laskowski, K., Schuur, J. D.
2017; 23 (12): 762-766
 - **Emergency Physician Knowledge, Attitudes, and Behavior Regarding ACEP's Choosing Wisely Recommendations: A Survey Study** *ACADEMIC EMERGENCY MEDICINE*
Lin, M. P., Thomas Nguyen, Probst, M. A., Richardson, L. D., Schuur, J. D.
2017; 24 (6): 668-675
 - **Estimating the Cost of Care for Emergency Department Syncope Patients: Comparison of Three Models** *WESTERN JOURNAL OF EMERGENCY MEDICINE*
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Probst, M. A., McConnell, J. K., Weiss, R. E., Laurie, A. L., Yagapen, A. N., Lin, M. P., Caterino, J. M., Shah, M. N., Sun, B. C.
2017; 18 (2): 253-257

- **Health Policy and Shared Decision Making in Emergency Care: A Research Agenda**

Maughan, B. C., Meisel, Z. F., Venkatesh, A. K., Lin, M. P., Perry, W. M., Schuur, J. D., Pines, J. M., Kizzie-Gillett, C. L., Vaughan, W., Grudzen, C. R.
WILEY.2016: 1380-1385

- **Hospital-level variation and predictors of admission after ED visits for atrial fibrillation: 2006 to 2011** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*

Lin, M. P., Ma, J., Weissman, J. S., Bernard, K. R., Schuur, J. D.
2016; 34 (11): 2094-2100

- **Survey of emergency physicians regarding emergency contraception** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*

Probst, M. A., Lin, M. P., Lawrence, L. G., Robey-Gavin, E., Pendery, L. S., Strayer, R. J.
2016; 34 (6): 1176-1178