PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF LEARNING HEALTH SCIENCES
DEPARTMENT OF INTERNAL MEDICINE

Tanner J. Caverly, M.D., M.P.H., assistant professor of learning health sciences, Department of Learning Health Sciences, and assistant professor of internal medicine, Department of Internal Medicine, Medical School, is recommended for promotion to associate professor of learning health sciences, with tenure, Department of Learning Health Sciences, and associate professor of internal medicine, without tenure, Department of Internal Medicine, Medical School.

Academic Degrees:
M.P.H.   2013   University of Colorado School of Public Health, Aurora, CO
M.D.   2007   The Ohio State University School of Medicine, Columbus, OH
B.S.   2002   Duke University, Durham, NC

Professional Record:
2018- Present   Assistant Professor, Department of Learning Health Sciences, University of Michigan, Ann Arbor, MI
2018- Present   Assistant Professor, Department of Internal Medicine, Division of General Medicine, University of Michigan, Ann Arbor, MI
2015 – Present   Research Investigator, VAAAHS, Center for Clinical Management Research
2015- 2018   Clinical Lecturer, Department of Learning Health Sciences, University of Michigan, Ann Arbor, MI
2013- 2018   Clinical Lecturer, Department of Internal Medicine, Division of General Medicine, University of Michigan, Ann Arbor, MI
2011- 2013   Clinical Instructor, Department of Internal Medicine, University of Colorado, Aurora, CO

Summary of Evaluation:
Teaching: Dr. Caverly has been an active educator at multiple levels including medical students, graduate students, residents, and fellows, with a particular education focus on evidence-based medicine (EBM) and scientific communications. Institutionally, he has performed several ad hoc lectures to medical students and trainees in the National Clinician Scholars Program (NCSP) at the Institute for Health Policy and Innovation (IHPI). He serves as the EBM group "role model" and small group leader for the Medical School curriculum thread. Recently, Dr. Caverly started a pilot of a longitudinal elective for M3 students entitled "Talking about Research" which focused on communicating with peers, patients, and the public. Teaching evaluations are above average, with good to very good scores.

Research: Dr. Caverly's research focuses on how to deliver decision support that promotes engaged decision-making with a particular emphasis on cancer screening. His areas of investigation fall into four distinct categories: 1) optimizing cancer screening decisions; 2) developing feasible models of shared decision-making in primary care; 3) group deliberation methods; and 4) assessing the quality of medical care. Dr. Caverly has received significant funding as the principal investigator on a large Veteran's Affairs (VA) grant, a smaller VA grant, and a multi-principal investigator on an additional VA grant. He is also a site-principal investigator on an Agency for Healthcare Research and Quality (AHRQ) sub-award sourced funding through the University of Utah and co-investigator on an NIH

R01. His research also promotes DEI values by assessing when tailored recommendations can better address racial disparities compared to conventional guideline recommendations, and four of his additional studies seek to improve the equity of screening decisions in clinical practice. Past funding includes participation as a co-investigator on several large-scale grants and a mentor on several VA IPA agreements. Dr. Caverly's work has resulted in two visiting professorships and 15 national extramural presentations. He has authored 55 peer-reviewed manuscripts in high impact journals such as *Chest*, *Journal of General Internal Medicine*, and *Journal of Biomedical Informatics.* He also has developed two software applications for decision-making and cancer screening. Dr. Caverly's work to personalize cancer screening decisions has been widely disseminated nationally.

Recent and Significant Publications:
Caverly TJ, Skurla SE, Klamerus ML, Sparks JB, Kerr EA, Hofer TP, Reed D, Damschroder LJ, "Applying User-Centered Design to Develop Practical Strategies that Address Overuse in Primary Care," *J Gen Intern Med*. 2022 Apr;37(Suppl 1):57-63. PMID: 34535845.
Caverly TJ, Skurla SE, Robinson CH, Zikmund-Fisher BJ, Hayward RA, "The Need for Brevity During Shared Decision Making (SDM) for Cancer Screening: Veterans' Perspectives on an 'Everyday SDM' Compromise," *MDM Policy Pract*. 2021 Oct 26;6(2):23814683211055120. PMID: 34722882.
Leishman NJ, Wiener RS, Fagerlin A, Hayward RA, Lowery J, Caverly TJ, "Variation in Eligible Patients' Agreeing to and Receiving Lung Cancer Screening: A Cohort Study," *Am J Prev Med*. 2021 Apr;60(4):520-528. PMID: 33342671.
Caverly TJ, Zhang X, Hayward RA, Zhu J, Waljee AK, "Effects of Random Measurement Error on Lung Cancer Screening Decisions: A Retrospective Cohort-Based Microsimulation Study," *Chest*. 2021 Feb;159(2):853-861. PMID: 32941860.
Caverly TJ, Cao P, Hayward RA, Meza R, "Identifying Patients for Whom Lung Cancer Screening Is Preference-Sensitive: A Microsimulation Study," *Ann Intern Med*. 2018 Jul 3;169(1):1-9. PMID: 29809244.

Service: Dr. Caverly has an excellent institutional and national service record. Nationally, he serves as the deputy chief consultant for the National Center for Lung Cancer Screening for the VA administration. In 2019, he served as a peer reviewer for the lung cancer screening systematic review as part of the US Preventative Task Force. He serves as the section editor for *JAMA Internal Medicine's* "teachable moments" and is on their editorial board. He is an ad hoc reviewer for several journals including *Annals of Internal Medicine* and *Chest*. Dr. Caverly is a member of two professional societies and has served as an expert panelist for the development of two guidelines by the American College of Chest Physicians. He participates in the "Do No Harm Project" sponsored by the Lown Institute at the University of Colorado School of Medicine. The goal of this project is to use clinical vignettes written by trainees to improve recognition of harms that may result from medical overuse and to drive a needed culture change in the practice of medicine. Institutionally, Dr. Caverly provides care at the Veteran's Affairs Ann Arbor Healthcare System (VAAAHS) on the inpatient medicine service, in his own primary care clinic, and the outpatient ambulatory care clinics. He serves on the curriculum committees for the Department of Learning Health Sciences, Health Infrastructures and Learning Systems (HILS) MS/PhD program and the Research Education and ACHievements committee (REACH) for the Center of Clinical Management Research at the VAAAHS.

External Reviewers:
Reviewer A: "Dr. Caverly's recognition as a national research leader is reflected in his roles as expert panelist for two medical society clinical practice guidelines (for the evaluation of pulmonary nodules and lung cancer screening), Deputy Chief Consultant at the National Center for Lung Cancer

Screening, section editor for JAMA IM, invited speaker for scientific talks at the National Cancer Institute, and hoc peer reviewer for leading peer review journals in his field."

Reviewer B: "I am familiar with several of Dr. Caverly's publications about lung cancer screening implementation and uptake, including his high-impact publication about the benefit of lung cancer screening across various life expectancies and preferences for screening (Ann Intern Med 2018). This paper was cited in lung cancer screening guidelines and has had an impact on screening approaches both within and outside of VA."
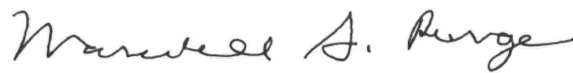
Reviewer C: "He has 50 peer-reviewed publications, many in top journals including Chest, Jama Network Open, Annals of Internal Medicine, and JAMA IM, and multiple national presentations. In 2018, he was awarded (and has successfully carried out) a VA Career Development Award on 'Implementing Shared DecisionMaking for Cancer Screening in Primary Care.' Subsequently, he successfully obtained, as PI, a large VA award on 'Redesigning Preventive Care Recommendations for Diverse Populations of Veterans' that will continue through 2027."

Reviewer D: "Dr. Caverly's service work follows his research interests. He is a section editor at JAMA Internal Medicine, reviews regularly for 4 top journals, participates in several work groups, and is an expert panelist for 2 different ACCP clinical practice guidelines."

Reviewer E: "Dr. Caverly is active in teaching at University of Michigan's Medical School (as an Evidence-Based Medicine group leader and for the National Clinical Scholars Program). He has also made notable contributions in a service capacity, for example serving as Deputy Chief Consultant for the National Center for Lung Cancer Screening at the Ann Arbor VA, and as Section Editor for Teachable Moments in JAMA Internal Medicine. In addition, Dr. Caverly contributes as a Task Group Member for the American Cancer Society's National Lung Cancer Round Table, and as an expert panelist for cancer screening and pulmonary nodule guidelines for the American College of Chest Physicians."

Summary of Recommendations:
Dr. Caverly is highly regarded by his peers for his research on improving medical decision-making and diagnostic testing and therapies within the primary care setting. Dr. Caverly is a dedicated teacher, productive scientist, and committed institutional citizen. Therefore, I am pleased to recommend Tanner J. Caverly, M.D., M.P.H. for promotion to associate professor of learning health sciences, with tenure, Department of Learning Health Sciences, and associate professor of internal medicine, without tenure, Department of Internal Medicine, Medical School.

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Marschall S. Runge, M.D., Ph.D.
Executive Vice President for Medical Affairs
Dean, Medical School

May 2024