

PROMOTION RECOMMENDATION  
THE UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF INTERNAL MEDICINE

Colin R. Cooke, M.D., assistant professor of internal medicine, Department of Internal Medicine, Medical School, is recommended for promotion to associate professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

M.S.	2011	Robert Wood Johnson Clinical Scholar, University of Michigan
M.Sc.	2007	Epidemiology, University of Washington
M.D.	2000	The Ohio State University
B.S.	1996	University of Michigan

Professional Record:

2013-present	Assistant Professor of Internal Medicine, University of Michigan
2009-2012	Clinical Lecturer, Department of Internal Medicine, University of Michigan

Summary of Evaluation:

Teaching: Dr. Cooke is a strong advocate for teaching medical students, residents and fellows how to think on their feet and be able to make informed decisions as it relates to patient care in the intensive care unit (ICU). In this setting, Dr. Cooke has found a valuable niche in teaching an evidence-based approach to critical care delivery. He teaches within the inpatient setting and gives multiple conferences, including noon seminars and medical grand rounds. Dr. Cooke is a member of the Michigan Medicine Adult Ethics Committee, an advisory group appointed by the hospital's Office of Clinical Affairs, which reviews ethical or moral questions that come up during patient care. The Committee provides consultation to the treatment team, patients and families on ethical, moral or philosophical problems and issues encountered in the course of managing inpatient and outpatient care. As a physician scientist, Dr. Cooke excels at providing mentorship to junior faculty and post-doctoral research fellows. He developed the Multi-Disciplinary Intensive Care Research Workshop for the pulmonary fellows and has successfully mentored several fellows who have gone on to publish a number of high impact first-author research articles, successfully competed for K grants from the NHLBI and been recruited to join the faculty after completing their fellowship.

Research: Dr. Cooke is a health services researcher and an established leader in the areas of ICU utilization and outcomes. He states that his scientific agenda is to "understand and improve the organization and outcomes of care for the critically ill" by bringing together "epidemiology, healthcare policy, and the practice of clinical medicine." His research efforts specifically focus on the inefficiencies in how ICU beds are being used and the implications of healthcare reform on outcomes in pulmonary and critical care. Dr. Cooke's efforts in these areas have had a major

impact on the Centers for Medicare and Medicaid Services. His research, published in *JAMA*, *AJRCCM* and *Critical Care Medicine*, identified flaws in the ‘hospital readmission reduction’ program and the national ‘pay-for-performance mortality measure for hospitalized patients with pneumonia’ resulting in Medicare’s subsequent decision to change their program structure. In addition to his impressive publication record; 83 peer reviewed publications, 49 while in rank, Dr. Cooke has authored over 20 invited editorials and opinion pieces. He has an impressive record of grant support, having recently been awarded a five-year NIH funded R01 as the principal investigator and will be submitting an additional R01 to examine more broadly the national impact of the hospital readmissions reduction program. In recognition of his aptitudes, Dr. Cooke received the Early Career Achievement Award from the American Thoracic Society in two specialize areas – the Critical Care Assembly and the Behavioral Science and Health Services Research Assembly – and is the only person to receive both of these awards.

#### Recent and Significant Publications:

Cooke CR, Iwashyna TJ: Sepsis mandates: improving inpatient care while advancing quality improvement. *JAMA* 312:1397-1398, 2014.

Valley TS, Sjoding MW, Ryan AM, Iwashyna TJ, Cooke CR: Association of intensive care unit admission with mortality among older patients with pneumonia. *JAMA* 315:1272-1279, 2015.

Sjoding MW, Prescott HC, Wunsch H, Iwashyna TJ, Cooke CR: Hospitals with the highest intensive care utilization provide lower quality pneumonia care to the elderly. *Crit Care Med* 43:1178-1186, 2015.

Sjoding MJ, Iwashyna TJ, Dimick J, Cooke CR: Gaming hospital-level pneumonia 30-day mortality and hospital readmission measures by legitimate changes to diagnostic coding. *Critical Care Med* 43:989-995, 2015.

Sjoding MW, Valley TS, Prescott HC, Wunsch H, Iwashyna TJ, Cooke CR: Rising billing for intermediate intensive care among hospitalized Medicare beneficiaries between 1996 and 2010. *Am J Respir Crit Care Med* 193:163-170, 2016.

Service: Dr. Cooke specializes in critical care medicine with a core focus on management strategies for critically ill patients in the ICU. He has a strong investment in the outcomes of these clinical interests and has developed robust collaborations with colleagues throughout the Medical School and the university to improve the care delivered to patients. Institutionally, Dr. Cooke serves on the Adult Ethics Committee, which reviews ethical or moral questions that come up during patient care. He has served as the director for the Program in Epidemiology and Health Policy, Michigan Center for Integrative Research in Critical Care since 2013. Nationally, he serves on multiple committees within the American Thoracic Society (ATS) including chair-elect and chair of the BSHRS Program Committee. Recently he was appointment as chair for both the ATS’ and the Society of Critical Care Medicine’s Documents Development and Implementation Committee charged with setting policy on clinical practice guideline development. He is a

reviewer for journals such as the *New England Journal of Medicine*, *JAMA* and *Intensive Care Medicine*. Dr. Cooke serves on editorial boards including the *American Journal of Respiratory and Critical Care Medicine* and was recently appointed as the deputy director of critical care for the *Annals of the American Thoracic Society*.

External Reviewers:

Reviewer A: “Dr. Cooke’s research interests have followed the rapidly evolving field of critical care resource utilization and policy application. This type of clinical outcome and resource utilization analysis will prove pivotal in the design and implementation of future health care policies. Dr. Cooke is clearly among a small group of nationally recognized thought leaders in this field....He clearly has the direction, support, and access to collaborations that make it nearly impossible for him to fail.”

Reviewer B: “Colin’s work has been of the highest caliber, has been impactful at multiple levels, and has led to an international reputation as a leader in the field – all as an Assistant Professor. I believe Colin may stand at a higher level compared to other outstanding individuals....Overall, Colin stands at the top of his echelon.”

Reviewer C: “Colin has always been a star in the making and his success in academic medicine is no surprise to anyone who has observed the steep trajectory of his career. Colin in [sic] one of the first pulmonary critical care researchers to study health outcomes research and implementation sciences. While blazing this new trail, Colin has published innovative and novel research that expand our understanding of the variation in the use of critical care across the United States. Based upon his influential research, Colin has developed a national reputation....Colin is truly an inspiration to everyone who knows him. Your university is lucky to have Colin Cooke as a member of your faculty.”

Reviewer D: “Dr. Cooke is a recognized expert in critical care medicine who has made significant contributions in the area of ICU utilization and outcomes. He has published in high impact journals in his field... In aggregate Dr. Cooke’s publications have led to changes in ICU care, staffing and utilization. In this current funding environment, Dr. Cooke’s track record is especially impressive...Dr. Cooke has been recognized as a rising star in Pulmonary and Critical Care Medicine receiving the Early Career Achievement Award....These are each very competitive awards and to be acknowledged by two distinct specialty areas with the ATS is highly unusual. Dr. Cooke’s contributions to service are exemplary.”

Reviewer E: “He is without question one of the preeminent health services researchers in the country with a growing international reputation. Colin has made a number of important contributions to medicine, though [sic] his contributions to the understanding of optimal treatment for patients hospitalized with pneumonia stand above all others. His recently funded RO-1 builds on these contributions....Dr. Sjoding, Colin’s mentee, recently received his K01 attesting to Colin’s excellent mentoring skills. This should be an easy decision for the committee.”

Summary of Recommendation:

Dr. Cooke is on an exceptional trajectory. His work is seminal and paving the path for national reform in ICU care delivery. He is a talented teacher and mentor, his research is of the highest caliber, and he has obtained an international reputation as a thought leader in critical care medicine. It is for these reasons that I recommend Colin R. Cooke, M.D. for promotion to associate professor of internal medicine, with 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

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