

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

Hitinder Gurm, M.D., associate professor of internal medicine, with tenure, Department of Internal Medicine, Medical School, is recommended for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

M.D.	1991	Christian Medical College, Ludhiana, India
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Professional Record:

2011-present	Associate Professor of Internal Medicine, University of Michigan
2005-2011	Assistant Professor of Internal Medicine, University of Michigan
1999-2000	Clinical Instructor, Department of Medicine, Penn State University

Summary of Evaluation:

Teaching: Dr. Gurm provides substantial teaching and mentoring, both clinically and in the research arena. In the clinical setting, he teaches on the inpatient services and in the cardiac catheterization laboratory. This includes clinical mentoring of medical students, residents and fellows, as well as daily case presentations and formal didactic lectures. Dr. Gurm is also active in the resident noon conference and the fellow journal club, and leads the cardiac ICU mortality and morbidity conference. Recently, he introduced a case-based clinical cardiology conference at the Ann Arbor VA Medical Center as well. Working with colleagues in Mechanical Engineering, he developed a simulation model to train first-year cardiology fellows in femoral arterial access, which resulted in improved procedural success and a reduction in complications. In collaboration with colleagues at the University of Michigan and the Cleveland Clinic, Dr. Gurm developed an electronic book, Essential Pharmacology for Inpatient Care, designed to be a resource for medical students and residents; it is being used worldwide as an inpatient education tool. A substantial portion of Dr. Gurm's teaching effort involves research mentoring. He has provided guidance to numerous students, residents, fellows and junior faculty on their research, and many of his trainees have presented their work at national conferences and published first-author articles. In 2014, Dr. Gurm was the recipient of the Outstanding Research Mentor Award from the medical school graduating class.

Research: Dr. Gurm's research focuses on optimizing the safe and appropriate use of devices and drugs in interventional cardiology procedures. He has served as the principal investigator of the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2) since 2008. This project uses a large body of data to assess and improve the quality of percutaneous coronary intervention (PCI) in the State of Michigan. This work has led to reduced procedural complications and more appropriate use of PCI, and has generated numerous publications and shaped clinical guidelines and health care policy. Dr. Gurm also collaborates with colleagues in

engineering and computer science to develop new devices and technologies for the treatment of cardiovascular disease, resulting in a number of patents. An additional area of research focuses on contrast induced kidney injury, and these studies have led to the establishment of safe contrast thresholds and the development of risk prediction models. Dr. Gurm has published 160 peer-reviewed articles, with more than 60 of these published while in his current rank. Of these, the majority have been as first or senior author, with numerous publications in top-tier journals, such as *Journal of the American College of Cardiology*, *Circulation*, the *New England Journal of Medicine*, and *PLoS One*. His national and international reputation is evident in his numerous invited talks, and service on editorial boards for several cardiology journals.

Recent and Significant Publications:

Gurm HS, Dixon SR, Smith DE, Share D, Lalonde T, Greenbaum A, Moscucci M: BMC2 (Blue Cross Blue Shield of Michigan Cardiovascular Consortium) Registry. Renal function-based contrast dosing to define safe limits of radiographic contrast media in patients undergoing percutaneous coronary interventions. *J Am Coll Cardiol* 58:907-914, 2011.

Gurm HS, Hosman C, Share D, Moscucci M, Hansen BB: Comparative safety of vascular closure devices and manual closure among patients having percutaneous coronary intervention. *Ann Intern Med* 159:660-666, 2013.

Menees DS, Peterson ED, Wang Y, Curtis JP, Messenger JC, Rumsfeld JS, Gurm HS: Door-to-balloon time and mortality among patients undergoing primary PCI. *N Engl J Med* 369:901-909, 2013.

Gurm HS, Seth M, Kooiman J, Share D: A novel tool for reliable and accurate prediction of renal complications in patients undergoing percutaneous coronary intervention. *J Am Coll Cardiol* 61:2242-2248, 2013.

Lee G, Gurm HS, Syed Z: Predicting complications of percutaneous coronary intervention using a novel support vector method. *J Am Med Inform Assoc* 20:778-786, 2013.

Service: Dr. Gurm is active clinically, providing highly-specialized care in the cardiac catheterization laboratories at the University of Michigan and the Ann Arbor VA Medical Center. He performs several hundred diagnostic and interventional cardiac procedures per year, and is the sole cardiovascular medicine faculty performing carotid stenting. Dr. Gurm also provides inpatient care on the cardiac intensive care unit. Administratively, he is very active in providing institutional service as the director of cardiology inpatient services, the associate chief for the Division of Cardiovascular Medicine, and the chief of the cardiology section at the VA. Nationally, he serves on the Research and Publications Committee for the American College of Cardiology – National Cardiovascular Data Registry, and has served on the Peripheral Vascular Disease National Committee for the American College of Cardiology Foundation.

External Reviewers:

Reviewer A: “His areas of clinical expertise, in which he has both national and international recognition, include complex coronary artery angioplasty and stenting, carotid artery stenting, peripheral vascular interventions, critical care Cardiology, and acute myocardial infarction....He has emerged as an independent and world-renowned investigator in the field of acute myocardial infarction treatment and outcomes research....He has enjoyed an exceptionally high level of scientific productivity in the arena of outcomes research in interventional cardiology. He has had numerous original manuscripts and abstracts published in highly regarded cardiac and imaging journals.”

Reviewer B: “Dr. Gurm is well-known in cardiology across the nation, a fact supported by his substantial curriculum vitae. Dr. Gurm is an excellent clinician, teacher, researcher and administrator. In terms of scholarship and professional activities relative to his peers, Dr. Gurm has a significant history of interdisciplinary achievements supporting my recommendation for promotion....Dr. Gurm has numerous honors and awards denoting his achievements as an academic cardiologist. He holds fellowships in the SCAI, ACC and AHA. Dr. Gurm is an assistant editor or editorial board member of the most prestigious journals in cardiology and is requested as reviewer for cardiology journals worldwide.”

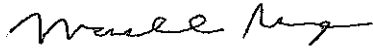
Reviewer C: “Perhaps the biggest single scholarly activity which should be credited to Dr. Gurm, involved the formation and ongoing work with Bluecross/Blueshield of Michigan Cardiovascular Consortium. This quality assessment/improvement initiative for coronary interventions has provided a substantial amount of data, guidance, and changes with care delivery that have impacted the field. As principal investigator of this multimillion dollar grant, Dr. Gurm has made a huge impact....The translation of this work into scholarly results is awesome. ...I believe that in any academic medical center in the United States that he would be promoted to full Professor with this robust track record.”

Reviewer D: “...his CV attests to the fact that he is an extremely innovative individual, having garnered a number of patents for novel technologies, and has demonstrated good citizenship and service to his institution, by serving in various administrative functions....He has published a number of high-impact papers using state and national databases utilizing novel analytic techniques and of high relevance to clinical practice. He is well recognized in the field of interventional cardiology for his contributions, and has garnered a national and international reputation as well.”

Reviewer E: “Dr. Gurm’s scholarly productivity has been significant and very impactful in our field....Hitinder has developed a national and international recognition in coronary artery disease, peripheral vascular disease, and carotid artery disease, which is distinctly unusual amongst interventional cardiologists, who tend to build their careers in relatively narrow clinical silos....His seminal work related to the benefits of carotid stenting in high risk surgical patients impacted the standards of patient care around the world....I would rank Dr. Gurm’s achievements among the top 1% of interventional cardiologists in the country.”

Summary of Recommendation:

Dr. Gurm is recognized nationally and internationally for his contributions as an interventional cardiologist. He also provides highly specialized clinical care, is a committed educator, and is very active in service at the institutional and national levels. Therefore, I enthusiastically recommend Hitinder Gurm, M.D. for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.



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

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