

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN MEDICAL SCHOOL
DEPARTMENT OF INTERNAL MEDICINE

Mauro Moscucci, M.D., Associate Professor of Internal Medicine, with tenure, Department of Internal Medicine, is recommended for promotion to Professor of Internal Medicine, with tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

M.D.	1982	University of Rome
------	------	--------------------

Professional Record:

2001-Present	Associate Professor of Internal Medicine, University of Michigan
1994-2001	Assistant Professor of Internal Medicine, University of Michigan
1993-1994	Instructor in Medicine, Harvard University

Summary of Evaluation:

Teaching: Dr. Moscucci teaches at many levels of the University. His predominant teaching role is in the setting of cardiac catheterization and interventional procedures. In this capacity, he serves as a mentor for cardiology fellows in both the general program and the interventional program. Dr. Moscucci teaches how to select appropriate tests for appropriate patients, which techniques to use, and the specifics of the technique. Not only does he teach them this important clinical and judgmental skill set, but he has published at least ten papers with these trainees. In this way, his mentorship has promoted the academic careers of his various trainees. Dr. Moscucci also performs exceedingly well in a didactic lecture hall, in which he presents his data on case selection and outcomes following percutaneous interventional coronary procedures. He not only provides these didactic lectures at our own institution in grand rounds type forums, but he also goes to hospitals in Michigan and to academic institutions and venues across the country to provide similar education. He has also recently begun a program of teaching to a regional hospital with which his division wishes to affiliate for which he has organized a soup-to-nuts educational program from the training of cardiologists, nurses, and technicians in the catheterization laboratory, to improve the quality of a new program. He has received rave reviews about his teaching performance in that forum. On a national level, Dr. Moscucci has been invited to lecture at the most important national forums including the Scientific Session of the American College of Cardiology and the American Heart Association, as well as in other scientific venues.

Research: Dr. Moscucci is an interventional cardiologist who has made important contributions in the area of understanding factors related to complications of percutaneous coronary interventions. The work for which he is best known is his development of a risk prediction tool to predict clinical outcomes following percutaneous coronary interventions. This model is now widely applied in clinical practice in the field. In addition to this, he has developed specific data

identifying individual risk factors which predispose to bleeding, a major complication associated with acute coronary intervention. Some of his most recent work published in one of the leading journals in our field, *The Journal of American College of Cardiology*, showed that there might be potential introduction of physician bias in the public reporting of clinical outcomes following contemporary percutaneous coronary interventional practice, which might lead to certain physicians denying care for high-risk patients. This article was particularly newsworthy and important in order to understand how large data sets and physician-specific data should be used to improve outcomes without interfering with the public health. Another study was published also in *The Journal of American College of Cardiology*, which showed that the number of cases a cardiologist performs with respect to percutaneous coronary intervention is directly related to ultimate outcome following the procedure. This study shows that despite overall improvements based on technical advances for both low volume and high volume operators, high volume operators have fewer procedural complications. In other work, recently published in *The American Heart Journal* and *Circulation*, Dr. Moscucci shows how various risk factors and quality initiatives impact patient outcomes after percutaneous coronary intervention. His body of work has contributed enormously to the development of the field of understanding patient related risk factors and operator characteristics which drive outcomes in the vulnerable patient population.

Recent and Significant Publications:

Moscucci M, Montoye C, Kline-Rogers EM, Smith DE, Share D, O'Donnell M, Maxwell-Eward A, Meengs WL, DeFranco AC, Chambers JL, Patel K, Khanal S, McGinnity JG, and Eagle KE for the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2): Association of a Continuous Quality Improvement Initiative with Practice Variations and Outcomes of Contemporary Percutaneous Coronary Interventions. *Circulation* 113:814-822, 2006.

Moscucci M, Eagle KA, Share D, Smith D, De Franco AC, O'Donnell M, Kline-Rogers E, Jani SM, and Brown DL: Public reporting and case selection for percutaneous coronary interventions. An analysis of 2 large multicenter PCI databases. *JACC* 45:1759-1765, 2005.

Moscucci M, Smith D, DeFranco AC, O'Donnell MJ, Patel K, Share D, Khanal S, Kline-Rogers E, Eagle KA: Relationship between operator volume and adverse outcome in contemporary percutaneous coronary intervention practice: An analysis of a quality-controlled multicenter percutaneous coronary intervention clinical database. *J Am Coll Cardiol* 46(4):625-632, 2005.

McKechnie RS, Smith D, Montoye C, Kline-Rogers E, O'Donnell MJ, DeFranco AC, Meengs WL, McNamara R, McGinnity JG, Patel K, Share D, Riba A, Khanal S, and Moscucci M for the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2): Prognostic implication of anemia on in-hospital outcomes following percutaneous coronary intervention. *Circulation* 110:271-277, 2004.

Moscucci M, Muller D DW, Watts CM, Bahl V, Bates ER, Werns SW, Kline Rogers E, Karavite D, Eagle KA: Decreasing costs and improving outcomes of percutaneous coronary interventions. *Am J of Managed Care* 9(5):365-372, 2003.

Service: In 1997, Dr. Moscucci was named the Director of Interventional Cardiology in the Division of Cardiovascular Medicine. In this position Dr. Moscucci served the Department of Internal Medicine and the Medical Center by developing protocols, outreach initiatives and quality measures for patients with unstable coronary syndromes. From 2001-2006 Dr. Moscucci, served as the Director of the Cardiac Catheterization Laboratory. In this capacity, Dr. Moscucci helped recruit faculty, train fellows in interventional cardiology, and establish quality control initiatives that have shortened the time from ED presentation to PCI. Additionally, Dr. Moscucci is the Medical Director to the Nurse Practitioner Unit for Interventional Cardiology as well as the Director of the Interventional Cardiology databank. He currently serves as the Director of Interventional Services and Associate Chief of Cardiology for New Program Development. Dr. Moscucci sits on two editorial boards as the Associate Editor of *Current Journal Review* and as a member of the *Journal of Interventional Cardiology* editorial board. Dr. Moscucci was a recent grant reviewer for the NHLBI of the National Institutes of Health. On a national level, Dr. Moscucci serves on the AHA/ACC Committee for PCI guidelines.

Professional Work: Dr. Moscucci's unique clinical expertise is in the area of interventional cardiology and he sees patients principally in the Cardiology Procedures Unit at the University of Michigan Hospital, in the University of Michigan Hospital inpatient floors, and at Domino's Farms at the outpatient clinic. He has unique expertise in the State of Michigan particularly in complex interventional procedures such as ASD closure, tandem heart insertion, and alcohol septal ablation for hypertrophic cardiomyopathy.

External Review:

Reviewer A: "Dr. Moscucci has contributed ground breaking knowledge and has been successful at bringing forth issues in health care, both of which are essential functions needed for the continuing evolvement and success of medicine....Dr. Moscucci has demonstrated his capabilities in all aspects of teaching, scholarship and research, service, and healthcare. He not only began his career active in each of these roles, but has consistently continued to remain a positive contributor and shows great potential to do so in the future."

Reviewer B: "His leadership in the state of Michigan with the formation and oversight of cath lab quality initiatives for the Blue Cross Blue Shield of Michigan Cardiovascular Consortium (BMC2) has not only substantially lead [sic] to improvement in PCI care for the patients of the state of Michigan but his seminal work has become a paragon for cardiac catheterization laboratories across the nation as the template for implementation of CQI endeavors in the cath lab environment."

Reviewer C: "These publications, among his many others, were original, accurate, and of a strong clinical relevance. They represent significant scholarship on the part of an individual with a strong clinical commitment. His facility in the realm of clinical investigation has resulted in considerable grant and contract extramural support from [the] cardiovascular industry. Such support has become a critical part of the lifeblood of clinical investigation."

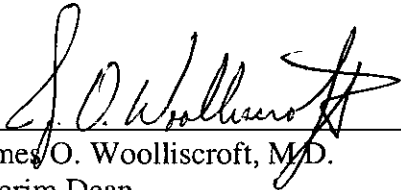
Reviewer D: "He has been at the forefront of research on outcome assessment. His papers are quoted widely and the Michigan model he has developed has been well validated in

the literature. His publication track record is excellent with publication in all of the cardiovascular journals.”

Reviewer E: “...Dr. Moscucci has made nationally recognized and clinically important contributions in the area of outcome analysis and quality improvement in the field of interventional cardiology.”

Summary of Recommendation:

Dr. Moscucci is one of a kind, with his highly focused work on elucidating indicators of risk for patients undergoing PCI, and identifying operator characteristics associated with improved outcomes. His work is published in the highest quality refereed journals in the field, and his reputation is firmly established at the local and national levels. His service to the institution, through his recent directorship of the Adult Cardiac Catheterization Laboratory, and current expanded role as Director of Cardiology Interventional Services and teaching of our Cardiovascular Medicine fellows, is highly valued. I recommend him for promotion to Professor of Internal Medicine with the highest level of enthusiasm.



James O. Woolliscroft, M.D.
Interim Dean
Lyle C. Roll Professor of Medicine

May 2007