

Approved by the
Regents
May 21, 2015

PROMOTION RECOMMENDATION
THE UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF CARDIAC SURGERY

Himanshu J. Patel, M.D., associate professor of cardiac surgery, with tenure, Department of Cardiac Surgery, Medical School, is recommended for promotion to professor of cardiac surgery, with tenure, Department of Cardiac Surgery, Medical School.

Academic Degrees:

M.D.	1993	Johns Hopkins University
B.A.	1988	Johns Hopkins University

Professional Record:

2010-present	Associate Professor of Cardiac Surgery, University of Michigan
2003-2010	Assistant Professor of Surgery, University of Michigan
2002-2003	Lecturer, Department of Surgery, University of Michigan

Summary of Evaluation:

Teaching: Dr. Patel devotes about 20% of his effort to teaching in various settings. He has played an active role in the teaching of cardiac surgery fellows, thoracic surgery residents, and medical students at the University of Michigan through the Thoracic Surgery Didactic Lecture Series. He has been an effective teacher both within the operating room and during rounds in the intensive care unit and the general care floors. Resident evaluations have been overwhelmingly positive, averaging 8.34 on a nine-point scale over the last three years. He has acted as a mentor for undergraduate and medical students as well as general, vascular, and thoracic surgery residents and fellows. For the last year he has acted as the research mentor to a physician enrolled as a Ph.D. candidate from the University of Utrecht. This is expected to continue with additional candidates over the next three years. These activities have resulted in numerous manuscripts and presentations at national meetings.

Research: Dr. Patel maintains an active research program, with interests that focus primarily on the study of the endovascular repair of thoracic aneurysms and transcatheter aortic valve implantation. He has authored 68 peer-reviewed publications as well as a dozen book chapters and 43 abstracts. He has 13 active grants funded by external sponsors. He has given 54 invited lectures, speaking across the United States, as well as Europe and Asia. He has presented at national meetings of the American Heart Association, the American College of Cardiology, the Society of Thoracic Surgeons and numerous other societies. His expertise has led to participation in clinical trials of all new FDA-approved thoracic endovascular devices over the last several years. He is the associate editor of the *CardioSource Review Journal* and guest reviewer for seven national journals, including *Circulation*, the *Annals of Thoracic Surgery*, *Annals of Vascular Surgery*, *Journal of Thoracic and Cardiovascular Surgery*, the *Journal of the American College of Cardiology*, and *Mayo Clinic Proceedings*.

Recent and Significant Publications:

Patel HJ, Hemmila MR, Williams DM, Diener AC, Deeb GM: Late outcomes following open and endovascular repair of blunt thoracic aortic injury. *J Vasc Surg* 53: 615-620, 2011.

Patel HJ, Nguyen C, Diener AC, Passow MC, Salata D, Deeb GM: Open arch reconstruction in the endovascular era: Analysis of 721 patients over 17 years. *J Thorac. Cardiovasc Surg* 141:1417-1423, 2011.

Wilkinson DA, Patel HJ, Williams DM, Dasika NL, Deeb GM: Early open and endovascular thoracic aortic repair for complicated type B aortic dissection. *Annals of Thoracic Surgery* 96:23-30, 2013.

Temam NR, Peterson MD, Russo MJ, Ehrlich MP, Myrmet T, Upchurch GR Jr, Greason K, Fillinger M, Forteza A, Deeb GM, Montgomery DG, Eagle KA, Isselbacher EM, Nienaber CA, Patel HJ: Outcomes of patients presenting with acute type A aortic dissection in the setting of prior cardiac surgery: an analysis from the International Registry of Acute Aortic Dissection. *Circulation* 128:S180-185, 2013.

Patel HJ, Herbert MA, Drake DH, Hanson EC, Theurer PF, Bell GF, Prager RL: Aortic valve replacement: using a statewide cardiac surgical database identifies a procedural volume hinge point. *Annals of Thoracic Surgery* 96:1560-1565, 2013.

Service: Dr. Patel has served on several institutional, regional, and national committees. For six years, Dr. Patel was chief of cardiothoracic surgery at the Ann Arbor Veterans Administration Hospital. Since 2011, he has been a co-director of the Multidisciplinary Aortic Program at the UM Cardiovascular Center. He developed the multidisciplinary Thoracic Endograft program, which was initially supported by a \$1 million grant from the university's Clinical Innovations Fund. This program has generated significant clinical activity, clinical trials, and research since its inception, and places the University of Michigan among the most recognized programs for the treatment of thoracic aortic disease (both open and endovascular) in the country. Dr. Patel's work as a co-investigator for the corevalve trial led to the establishment and significant growth of our successful transcatheter aortic valve implantation program. As part of developing newer aortic valve therapeutic approaches, he is currently the principal investigator of an FDA sponsored clinical trial for the new sutureless aortic valve (TRANSFORM trial). His operative case volumes have remained solid.

External Reviewers:

Reviewer A: "...he has played a leadership role at the Southern Thoracic Surgical Association where he is a member of the Program Committee and will be a Co-Chair of that committee in the future...I have had the opportunity to hear him present at national meetings where he demonstrates a tremendous command of this area of academic research and clinical activity. He is also known internationally where he has spoken in a number of venues..."

Reviewer B: "...it is clear that his expertise in cardiothoracic surgery is well known, but more importantly he has become a nationally and internationally sought after content expert in endovascular surgery and has developed patents around endovascular treatment of aortic disease and has actually deployed a first in kind device earlier this year in the aortic arch, an area which heretofore has been an extremely difficult and risky area to intervene upon."

Reviewer C: "Dr. Patel's scholarly and professional niche is well defined and well known by members of the academic cardiac surgical community...I would rank Dr. Patel in the top ten percent of academic thoracic aortic surgeons...I believe that he is one of the true superstars in academic cardiac surgery and anticipate that his career will continue to move on a sharply upward trajectory."

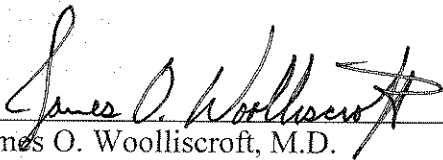
Reviewer D: "The areas where he has risen to national leadership with regard to innovation include the design and implementation of new treatments for thoracic aortic aneurysms, aortic dissection and aortic valvular disease...Moreover, he has grown the thoracic aortic program at Michigan so that it is now considered one of the top three aortic programs in the country. His national prestige and reputation as an innovator in the treatment of aortic and valvular disease is indisputable."

Reviewer E: "He has also been a strong proponent for teaching other cardiothoracic surgeons the techniques which he has helped develop...Nationally, he is looked at as one of the leaders in our field and is very highly respected..."

Reviewer F: "I have chaired or attended numerous sessions at national and international meetings during which Dr. Patel has presented his work, and I have always found it to be of the highest quality...his contributions to the literature have increased our understanding of the pathophysiology of aortic disease and the consequences of its medical and surgical therapy."

Summary of Recommendation:

Dr. Patel is unquestionably an academic surgeon with an international reputation. He plays a key role in the field of aortic aneurysm disease and endovascular surgery well beyond the university. His role as an educator, researcher, surgeon and administrator are highly-regarded. It is my pleasure to recommend Himanshu J. Patel, M.D. for promotion to professor of cardiac surgery, with tenure, Department of Cardiac Surgery, Medical School.



James O. Woolliscroft, M.D.

Dean

Lyle C. Roll Professor of Medicine

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