

PROMOTION RECOMMENDATION  
UNIVERSITY OF MICHIGAN  
MEDICAL SCHOOL  
DEPARTMENT OF CARDIAC SURGERY

Donald S. Likosky, Ph.D., associate professor of cardiac surgery, without tenure, Department of Cardiac Surgery, Medical School, is being recommended for the granting of tenure to be held with his title of associate professor of cardiac surgery, Department of Cardiac Surgery, Medical School.

Academic Degrees:

Ph.D.	2002	Dartmouth College
M.S.	1999	Dartmouth College
B.A.	1994	Emory University

Professional Record:

2012-present	Associate Professor of Cardiac Surgery, University of Michigan
2009-2012	Assistant Professor, Dartmouth Institute for Policy and Clinical Practice, Dartmouth College
2007-2012	Assistant Professor of Surgery, Dartmouth College
2005-2007	Assistant Professor of Community and Family Medicine, Dartmouth Medical School
2004-2005	Instructor, Department of Surgery, Dartmouth Medical School

Summary of Evaluation:

Teaching: Dr. Likosky is an outstanding educator in the areas of health services research, quality and health policy. Dr. Likosky has played an active role in the teaching of staff, graduate students, fellows, residents, and faculty in both his previous appointments at Dartmouth and continuing here at the University of Michigan. He has been an effective teacher in the classroom, in intramural lectures and grand rounds as well as an invited speaker at national and international presentations. He has given 44 invited external lectures, including to the American Heart Association, the Society of Thoracic Surgeons, and other national and international societies. Since his arrival at the University of Michigan, Dr. Likosky has participated in teaching medical students, fellows, residents, and researchers including taking part in the didactic lecture schedule for the Cardiothoracic Surgery Residency Program and the CVC lecture series.

Research: Dr. Likosky's academic productivity has resulted in 63 peer-reviewed and 18 non peer-reviewed manuscripts. His research interests seek to leverage geographically-based quality improvement collaboratives with the goal to drive changes in cardiac surgical care. He has an interest and expertise in drawing insights regarding the sources and consequences of variation in cardiac surgical practices, especially as a vehicle for developing best practices. Dr. Likosky is also a leader in the field of cardiovascular epidemiology. His interests include neurological outcomes following cardiac surgery, improving the value of surgical care, and using administrative data to identify unwarranted variability in clinical practice. From 2010-2012, he was the associate director of the Northern New England Cardiovascular Disease Study Group, with which he authored over 30 peer-reviewed articles. He has also been actively involved in the International Consortium for Evidence-Based Perfusion conducting research to improve the delivery of care and outcomes of

patients undergoing circulatory support. Dr. Likosky's research has been supported by grants from the NHLBI, the Dartmouth-Hitchcock Foundation, and the National Institute on Aging. He has been highly productive with 63 peer reviewed research papers. Dr. Likosky serves as a co-investigator on an R21, from the Agency for Healthcare Research and Quality and was recently awarded a four-year R01 as the lead investigator on a grant from the AHRQ to study healthcare acquired infections.

#### Recent and Significant Publications:

Likosky DS, Fitzgerald DC, Groom RC, Jones DK, Baker RA, Shann KG, Mazer CD, Spiess BD, Body SC: Effect of the perioperative blood transfusion and blood conservation in cardiac surgery clinical practice guidelines of the Society of Thoracic Surgeons and the Society of Cardiovascular Anesthesiologists upon clinical practices. *Anesth Analg* 112: 316-323, 2010.

Dacey LJ, Braxton JH, Kramer RS, Schmoker J, Charlesworth DC, Helm R, Frumiento C, Sardella G, Clough R, Jones S, Malenka DJ, Olmstead EM, Ross CS, O'Connor GT, Likosky DS: Long-term outcomes of endoscopic vein harvesting after coronary artery bypass grafting. *Circulation* 123:147-153, 2011.

Likosky DS, Goldberg JB, Discipio AW, Kramer RS, Groom RC, Leavitt BJ, Surgenor SD, Baribeau YR, Charlesworth DC, Helm RE, Frumiento C, Sardella GL, Clough RA, Mackenzie TA, Malenka DJ, Olmstead EM, Ross CS; for the Northern New England Cardiovascular Disease Study Group. Variability in surgeons' perioperative practices may influence the incidence of low-output failure after coronary artery bypass grafting surgery. *Circ Cardiovasc Qual Outcomes* 5:638-644, 2012.

Goldberg JB, DeSimone JP, Kramer RS, Discipio AW, Russo L, Dacey LJ, Leavitt BJ, Helm RE, Baribeau YR, Sardella G, Clough RA, Surgenor SD, Sorensen MJ, Ross CS, Olmstead EM, MacKenzie TA, Malenka DJ, Likosky DS: Impact of preoperative left ventricular ejection fraction on long-term survival after aortic valve replacement for aortic stenosis. *Circ Cardiovasc Qual Outcomes* 6:35-41, 2013.

Likosky DS, Zhou W, Malenka DJ, Borden WB, Nallamotheu BK, Skinner JS: Growth in Medicare expenditures for patients with acute myocardial infarction: A comparison of 1998 through 1999 and 2008. *JAMA Intern Med* Sep 23, 2013 [Epub ahead of print].

Service: Dr. Likosky has served on numerous committees both at Dartmouth and at the University of Michigan as well as regionally, nationally, and internationally. Examples include the chair of the New England Vascular Study Group advisory committee and director of the International Consortium for Evidence-Based Perfusion. While at Dartmouth, he formed the IMPROVE Network, a consortium of regionally-based cardiac surgical quality improvement collaboratives. Dr. Likosky is also a member of the Quality Committee of the state-based Michigan Society of Thoracic and Cardiovascular Surgeons Quality Collaborative, involving all 33 sites performing cardiac surgery in Michigan. Dr. Likosky also developed and directs a cardiovascular perfusion registry, which houses more than 12,000 procedures performed at 23 hospitals. He is an active member of the STS, the American College of Cardiology and the American Heart Association, among others. He holds or has held numerous leadership roles in institutional and regional organizations.

External Reviewers:

Reviewer A: "...Dr. Likosky has had a strong presence in the area of clinical outcomes and quality improvement research in the field of cardiac surgery...He has played an active role in several national and international initiatives focusing on improving surgical outcomes, some resulting in the publication of important clinical practice guidelines."

Reviewer B: "...Dr. Likosky has been quite active serving on a number of national panels. This reflects the expertise that he is gaining through his research and the obvious national and international level of visibility that he is getting in the domain of thoracic surgery outcomes."

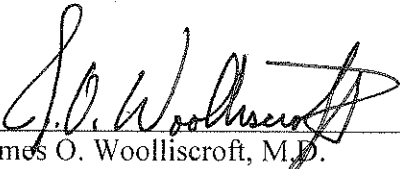
Reviewer C: "He has made significant contributions to the objective evaluation of practices in cardio-vascular surgery and in the development of clinical practice guidelines in our subspecialty...Respect for his work and competence is reflected in competitive national research grants that he has received...He has contributed to the education and enlightenment of many investigators and practicing clinicians in cardio-vascular surgery and perfusion technology."

Reviewer D: "Dr. Likosky is nationally and internationally recognized as a clinically-oriented scientist. He is particularly well-known to cardiac surgeons, anesthesiologists, and perfusionists for his research and expertise in improving neurologic outcomes after cardiac surgery, quality improvement in cardiovascular surgical care, and cardiovascular epidemiology."

Reviewer E: "Donald has shown excellence and innovative efforts in cardiac surgery related to several important areas. He has developed a unique niche in the field of clinical evaluative clinical sciences in cardiac surgery....his work with the Northern New England Cardiovascular Disease Study Group is invaluable....Overall, academically, Donald has been an outstanding investigator, with an enviable publication record, and continues as an active investigator."

Summary of Recommendation:

Dr. Likosky has clearly established himself as a national and international expert in the field of cardiac surgery outcomes research. He established and leads the Section of Health Services and Research Quality in the Department of Cardiac Surgery and plays a key regional role in the University of Michigan's heart transplant and ventricular assist device program. It is our pleasure to recommend Donald S. Likosky, Ph.D. for the granting of tenure to be held with his title of associate professor of cardiac surgery, Department of Cardiac Surgery, Medical School.

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

May 2014