

PROMOTION RECOMMENDATION
UNIVERSITY OF MICHIGAN
MEDICAL SCHOOL
DEPARTMENT OF PEDIATRICS AND COMMUNICABLE DISEASES
DEPARTMENT OF INTERNAL MEDICINE
GERALD R. FORD SCHOOL OF PUBLIC POLICY

Matthew M. Davis, M.D., associate professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, associate professor of internal medicine, without tenure, Department of Internal Medicine, Medical School, and associate professor of public policy, without tenure, Gerald R. Ford School of Public Policy, is recommended for promotion to professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, professor of internal medicine, without tenure, Department of Internal Medicine, Medical School, and professor of public policy, without tenure, Gerald R. Ford School of Public Policy.

Academic Degrees:

M.A.P.P.	2000	University of Chicago
M.D.	1994	Harvard University
B.A.	1989	Swarthmore College

Professional Record:

2006-present	Associate Professor of Pediatrics and Communicable Disease, Associate Professor of Internal Medicine, Medical School, and Associate Professor of Public Policy, Gerald R. Ford School of Public Policy, University of Michigan
2004-2006	Assistant Professor of Public Policy, Gerald R. Ford School of Public Policy, University of Michigan
2002-2006	Assistant Professor of Pediatrics and Communicable Diseases and Assistant Professor of Internal Medicine, University of Michigan
2000-2002	Lecturer, Departments of Pediatrics and Communicable Diseases and Internal Medicine University of Michigan

Summary of Evaluation:

Teaching: Dr. Davis is a teacher recognized for excellence at both the Medical School and the Gerald R. Ford School of Public Policy. He has regularly been named to the Dean's Teaching Honor Roll at the Ford School. In addition, Dr. Davis was formally recognized for his skills in mentorship with the inaugural Michigan Institute of Clinical and Health Research Distinguished Mentor Award in 2012. Since his last promotion, Dr. Davis has developed and teaches new coursework at the undergraduate, graduate level, and professional levels. Dr. Davis developed and taught a new three-credit course in 'The Principles and Practice of Health Policy' at the Gerald R. Ford School of Public Policy (PP495). He also developed and regularly presents a 12-hour domestic policy module regarding healthcare policy for the highly regarded program in

Public Policy and International Affairs, which welcomes undergraduates from under-represented minority backgrounds to the University of Michigan for summer learning. In the Medical School, as part of the Rackham M.Sc. program in health and healthcare research based in the Robert Wood Johnson Foundation Clinical Scholars Program, Dr. Davis assumed full responsibility for the curriculum of HHCR 740 and HHCR 741 (“Research in the Organization, Financing, and Delivery of Health Care”) and extensively revised both courses beginning in 2007. In the Ford School, Dr. Davis developed PP768 (‘Health Care Reform in the United States’) and has delivered it in Fall 2008, Winter 2010, and Winter 2012. In the Medical School, Dr. Davis is the lead faculty member for the M1-M2-M3 sequence in health policy and health economics, which is a new sequence of lectures/small group discussions that he began to deliver in 2006 and has expanded from two hours to approximately ten hours by 2012. Dr. Davis also developed an elective for M2 students regarding costs of health care. In addition, Dr. Davis serves as research mentor to several physician-investigator fellows in the NICHD-funded Pediatric Health Services Research Fellowship (approximately 200 hours per year) and the Robert Wood Johnson Foundation-funded Clinical Scholars Program (approximately 200 hours per year). He serves as research mentor on smaller projects for UMMS medical students (including in the Summer Biomedical Research Program) for approximately 40 hours per year, Ford School graduate students (approximately 20 hours per year), and UM undergraduate students (20-40 hours per year, depending on demand).

Research: Dr. Davis is a widely respected physician-investigator who is recognized for a high level of competence and rigor as a researcher and policy analyst and also for his creativity and innovative activities that push the field of health services research forward. Since his last promotion, with two sequential cooperative agreements with the Centers for Disease Control and Prevention, Dr. Davis initiated new methods for determining measures of vaccine development and provided the CDC with key insights about vaccine production and development costs. In addition, Dr. Davis has translated his expertise regarding prophylactic vaccines into key publications about therapeutic vaccines for treatment of cancer, which are likely to become prominent treatment tools within the next decade. After his last promotion, Dr. Davis began the C.S. Mott Children’s Hospital National Poll on Children’s Health—an entirely novel approach to measuring public opinion in the U.S. regarding children’s health and health policy. The poll has led to more than one dozen peer-reviewed publications in just five years, and has also generated more than 60 online *Reports*, through which Dr. Davis and his colleagues inform the public and multiple stakeholders (e.g., state legislators, members of Congress) about public attitudes and concerns. The poll also led the W.K. Kellogg Foundation to fund Dr. Davis and his team to develop an entirely new survey mechanism to support their research goals regarding children’s challenges in disadvantaged communities. Dr. Davis has published more than 135 articles in the peer-reviewed literature, with over one-half as either first author or senior author. Of great importance to his teaching role, he has been senior author on over two dozen first-author publications by fellows he has mentored. On the basis of his work, Dr. Davis was awarded the prestigious national Nemours Award for Child Health Services Research in 2007. He has also been a featured speaker at international vaccine conferences in Beijing, China (2009), and Lyon, France (2011). Dr. Davis has received extramural research funding as a principal investigator from federal and foundation sources, including the U.S. Centers for Disease Control and Prevention, Bill and Melinda Gates Foundation, and W.K. Kellogg Foundation. Dr. Davis is also the PI of the five-year T32 training grant in Pediatric Health Services Research, from the

NICHD. Dr. Davis has also collaborated as a co-investigator on multiple projects with federal funding from sources such as the NHLBI, CDC, and Michigan Medicaid program.

Recent and Significant Publications:

Davis MM, Gance-Cleveland B, Hassink S, Johnson R, Paradis G, Resnicow K: Recommendations for prevention of childhood obesity. *Pediatrics* 120:S229-S253, 2007.

Dempsey AF, Cowan AE, Stokley S, Messonnier M, Clark SJ, Davis MM: The role of economic information in decision-making by the Advisory Committee on Immunization Practices. *Vaccine* 26:5389-5392, 2008.

Tarini BA, Singer DC, Butchart AT, Clark SJ, Davis MM: Parents' interest in predictive genetic testing for their children when a disease has no effective treatment. *Pediatrics* 124:e432-e438, 2009.

Davis MM, Butchart AT, Wheeler JRC, Coleman MS, Singer DC, Freed GL: Failure-to-success ratios, transition probabilities and phase lengths for prophylactic vaccines versus other pharmaceuticals in the development pipeline. *Vaccine* 29:9414-9416, 2011.

Patrick SW, Schumacher RE, Benneyworth BD, Krans EE, McAllister JM, Davis MM: Neonatal abstinence syndrome and associated health care expenditures. *JAMA* 307:1934-1940, 2012.

Service: On a national level, Dr. Davis is a participant and chair for ad hoc review committees for funding proposals submitted to the CDC and NIH and was the inaugural web editor for Archives of Pediatrics and Adolescent Medicine. At the University, he serves as associate director for Child Health Initiatives, MICHHR, and was a member of the search committee for the founding director of the Institute for Healthcare Policy and Innovation. In the Department of Pediatrics he is a member of the Residency Research Committee and the Grand Rounds Committee. He is director and principal investigator of the Fellowship in Pediatric Health Services Research and a core member of the Child Health Evaluation and Research (CHEAR) Unit Senior Investigators Leadership Team. Clinically, Dr. Davis provides weekly patient care in the combined medicine-pediatrics practice at the University of Michigan Health System's Canton Health Center. He sees patients from newborns to seniors, and is widely recognized by patients and staff as a skilled clinician whose abilities as a diagnostician are matched well by his empathetic bedside manner.

External Reviewers:

Reviewer A: "Matt is clearly a highly productive investigator. The volume of his scholarly product alone is impressive enough, but his work appears in prestigious, high impact journals. The quality of his work is perhaps best reflected in his success in obtaining copious extramural grant funding. He has also promoted the scholarly productivity of the fellows and junior faculty with whom he works. His impact has been felt nationally and internationally."

Reviewer B: “As a scholar of remarkable breadth and depth, he has applied his knowledge of health services and health policy to topics that are compelling. His primary research, coupled with his editorials, has amplified his influence at the national level.”

Reviewer C: “He is a national authority who has built a highly influential body of research on vaccines and child health issues. He also is an adept educator and mentor who has made very significant contributions to your university and to the national research community through his guidance and support of junior colleagues.”


Reviewer D: “...Dr. Davis is an extremely innovative investigator [who] has established an impressive track record of creative, extramurally funded work that spans multiple disciplines and addresses questions of major importance to the health of the US population. He has rapidly become a national expert who is widely recognized for the quality of his insights, the rigor of his research, and the depth of his expertise on questions of preventive services and insurance coverage.”


Reviewer E: “Dr. Davis is a leader in his field and a talented researcher who has carved out a niche for himself as a national and international expert on vaccine development and administration, while also conducting innovative, interdisciplinary health services and health policy research related to adult and pediatric populations.”

Reviewer F: “...Matt is among the very best child health services researchers in the country today and his impact has been profound.”

Summary of Recommendation:

Dr. Davis is a nationally recognized authority on health policy and economics as they relate to childhood vaccination. His intellectual contributions to health care research and national policy have been significant. We are pleased, therefore, to recommend Matthew M. Davis, M.D. for promotion to professor of pediatrics and communicable diseases, with tenure, Department of Pediatrics and Communicable Diseases, professor of internal medicine, without tenure, Department of Internal Medicine, Medical School, and professor of public policy, without tenure, Gerald R. Ford School of Public Policy.


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


Susan M. Collins
Joan and Sanford Weill Dean,
Gerald R. Ford School of Public Policy