

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

Vahakn B. Shahinian, M.D., associate professor of internal medicine, with tenure, Department of Internal Medicine, and associate professor of urology, without tenure, Department of Urology, Medical School, is recommended for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, and professor of urology, without tenure, Department of Urology, Medical School.

Academic Degrees:

M.S.	2005	University of Texas
M.D.	1994	University of Toronto

Professional Record:

2011-present	Associate Professor of Internal Medicine, University of Michigan
2006-2011	Assistant Professor of Internal Medicine, University of Michigan
2002-2006	Assistant Professor of Medicine, University of Texas

Summary of Evaluation:

Teaching: Dr. Shahinian plays a significant role in education at the University of Michigan. His teaching is primarily focused on medical students and fellows. He leads small group sessions for the second year medical school renal transplantation course, and over the last three years, he has been presenting the pathology and surgery components. During the recent transition in the Medical School curriculum, Dr. Shahinian reformatted the lectures to be suitable to first year medical students who have less clinical and immunology foundational knowledge, and gave lectures to both first and second year medical students during the transition. Dr. Shahinian has led the Nephrology Fellowship Program's Journal Club since 2009. He spends a considerable amount of time mentoring second year fellows on basic principles of evaluating a clinical paper and working with each fellow on a journal club presentation. He meets with each fellow on the selection of a paper of both clinical and study design interest, and then critiques and provides feedback on their slides prior to presentation at journal club. As a testament to his impact in teaching, he has been nominated for the annual fellows teaching award in 2009, 2010, 2013, and 2014 and received the award in 2013.

Research: Dr. Shahinian is an innovative health-services researcher who has focused on the comparative effectiveness of therapies for prostate cancer, especially androgen deprivation therapy, and examining the quality of care in chronic kidney disease. Using large national administrative health care datasets, he has brought attention to the field of the adverse effects, and overuse of hormonal therapy for prostate cancer, and has impacted the field with his health policy focus on prostate cancer by examining how urologist practice organizations and financial incentives influence delivery of care. Dr. Shahinian's recent work estimating the prevalence of stage 3-5 chronic kidney disease and recovery after acute kidney injury with subsequent risk of

chronic kidney disease, have been important in understanding the role of even mild kidney injury on increasing risk of chronic kidney disease. He has had a strong record of grant funding, and is the principal investigator of an HIH R01 grant, and was previously the principal investigator on two grants as well as a co-investigator of multiple others. Dr. Shahinian has published 81 peer-reviewed articles, with 38 as first or senior author in highly meritorious journals including *Am J Transplant*, *JAMA*, *Cancer*, and the *Journal of Urology*. He has international prominence as evidenced by the invitation to present his research at the First World Congress on Non-Communicable Diseases in Chandigarh, India, in 2017. Nationally, Dr. Shahinian has presented his work at annual meetings including the Annual Dialysis Conference in 2015 and 2016, and the National Institute of Diabetes and Digestive and Kidney Disease in 2017.

Recent and Significant Publications:

Hollenbeck BK, Kaufman SR, Yan P, Herrel LA, Borza T, Schroeck FR, Jacobs BL, Skolarus TA, Shahinian VB: Urologist Practice Affiliation and Intensity-modulated Radiation Therapy for Prostate Cancer in the Elderly. *Eur Urol* 73(4): 491-498, 2018.

Parikh ND, Marshall VD, Singal AG, Nathan H, Lok AS, Balkrishnan R, Shahinian V: Survival and cost effectiveness of sorafenib therapy in advanced hepatocellular carcinoma: An analysis of the SEER-Medicare database. *Hepatology* 65(1): 122-133, 2017.

Heung M, Steffick DE, Zivin K, Gillespie BW, Banerjee T, Hsu CY, Powe NR, Pavkov ME, Williams DE, Saran R, Shahinian VB: Acute Kidney Injury Recovery Pattern and Subsequent Risk of CKD: An Analysis of Veterans Health Administration Data. *American Journal of Kidney Diseases* 67(5): 742-752, 2016.

Shahinian VB, Hedgeman E, Gillespie BW, Young EW, Robinson B, Hsu CY, Plantinga LC, Burrows NR, Eggers P, Saydah S, Powe NR, Saran R, CDC CKD Surveillance System: Estimating prevalence of CKD stages 3-5 using health system data. *American Journal of Kidney Diseases: the official journal of the National Kidney Foundation* 61(6): 930-938, 2013.

Kuo YF, Montie JE, Shahinian VB: Reducing bias in the assessment of treatment effectiveness: androgen deprivation therapy for prostate cancer. *Med Care* 50(5): 374-380, 2012.

Service: Dr. Shahinian is an outstanding transplant nephrologist who provides excellent care to kidney transplant patients. His clinical responsibilities include as the attending physician on the inpatient consult service four weeks per year, and providing outreach transplant recipient evaluation work throughout Michigan. Additionally, he holds three important and significant administrative roles at the University of Michigan. He is the co-deputy director of the United States Renal Data System which is an NIDDK sponsored, internationally recognized registry of kidney disease patients in the United States, that produces an annual data report and provides data files for use by researchers. Dr. Shahinian is the interim medical director of the Kidney and Pancreas Transplant Program. Since his appointment in 2016, he has been involved in the recruitment of three new transplant nephrology faculty, and working on quality improvement initiatives within the transplant program. Since 2017, he has served as the director of the Transplant Nephrology Fellowship Program. Dr. Shahinian also serves on the Department of Internal Medicine C.V. review committee and has provided peer review service for grants

submitted to the Michigan Institute for Clinical and Health Research and the O'Brien Center. Dr. Shahinian has contributed nationally, and internationally, with service as an ad-hoc reviewer for multiple publications including *JAMA*, *Journal of the American Society of Nephrology*, and *Lancet Oncology*. He has served as an ad hoc grant reviewer for the Prostate Cancer Foundation of Australia, the NIH Health Services Organization and Delivery study section, the National Cancer Institute, Patient Centered Outcomes Research Institute, and the American Heart Association.

External Reviewers:

Reviewer A: "As far as his highest-impact publications from my perspective, I would first cite his early work on the use and outcomes of androgen deprivation therapy for prostate cancer, published in the *NEJM* (CV#7) and *Cancer* (CV#8). These publications first made the field aware of the wide use and potential complications of this therapy in clinical practice, and are 'gems' in urologic outcomes research. According to the Web of Science, these two papers are also his most widely cited. I think his recent senior author paper on urologic practice factors and the use of IMRT in the elderly (CV#75) is also interesting and important in highlighting the role financial incentives can have in facilitating poor-quality care."

Reviewer B: "Dr. Shahinian has produced a coherent and impactful body of work on how health policy has influenced the care of men with prostate cancer. He has published in high impact journals and maintained nearly continuous federal funding to support his work since his first grant in 2005, with a total of 4 R01s awarded over that period. In light of this, I would certainly rank Dr. Shahinian as one of the top health services researchers in the country focusing on the field of prostate cancer."

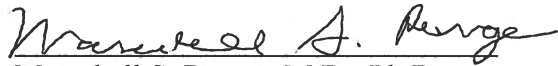
Reviewer C: "His more recent work includes a paper estimating the prevalence of stage 3-5 chronic kidney disease and a paper describing patterns of recovery after acute kidney injury and subsequent risk of chronic kidney disease. These papers have been quite important in understanding the role of even mild kidney injury on increasing risk of chronic kidney disease and also helped to demonstrate the role of large database research in understanding kidney disease."

Reviewer D: "My overall impression about the trajectory of his career productivity is outstanding. He is one of a small number of nephrologists who have made major contributions in the area of comparative effectiveness and health care delivery science. He has made contributions in several areas, including the treatment of prostate cancer and a better understanding of the natural history of chronic kidney disease."

Reviewer E: "Dr. Shahinian has excellent research productivity, in particular, he is co-deputy director of the US Renal Dialysis system and is co-PI and co-I of multiple federally funded grants on urology policy and practice. Consistent with this, he has a strong publication record in the area of health services research and urology...As an author, he has a healthy and solid mix of roles including first author, senior author and co-author. This speaks to his ability to collaborate, participate and facilitate the work of others in his group."

Summary of Recommendation:

Dr. Shahinian is a health services researcher and transplant nephrologist with a long-standing interest in prostate cancer care delivery. He is a strong team scientist with a solid track record of funding. I am pleased to recommend Vahakn B. Shahinian, M.D. for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, and professor of urology, without tenure, Department of Urology, Medical School.



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

May 2019