

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

Frank Bogun, M.D., associate professor of internal medicine, with tenure, Department of Internal Medicine, Medical School, is recommended for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.

Academic Degrees:

M.D.	1992	University of Ulm School of Medicine, Germany
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Professional Record:

2010-present	Associate Professor of Internal Medicine, University of Michigan
2003-2010	Assistant Professor of Internal Medicine, University of Michigan

Summary of Evaluation:

Teaching: Dr. Bogun has demonstrated a strong commitment to both clinical and research mentoring. He commits substantial time to the training of electrophysiology and cardiology fellows in procedural skills in the electrophysiology laboratory and the device clinic. He also provides didactic lectures on ventricular tachycardia ablation, and has organized weekly ECG based case discussions. Dr. Bogun mentors fellows, residents, medical students and electrical engineering graduate and undergraduate students on research projects. This includes guidance on hypothesis formulation, data analysis, and the presentation of findings at meetings and in journal publications. Regionally, Dr. Bogun provides continuing medical education lectures at the annual University of Michigan Cardiology Update, and nationally, he lectures extensively at meetings of the Heart Rhythm Society, the American Heart Association, and the American College of Cardiology. In 2011, he was an author on the Heart Rhythm Society policy statement update on the clinical cardiac electrophysiology fellowship curriculum.

Research: Dr. Bogun's research focuses on optimizing treatment strategies to eliminate ventricular tachycardia (VT) with ablation procedures. His work has led to seminal advances in the field and he is regarded as an international thought leader in this area. His 2009 *Heart Rhythm* article on the impact of radiofrequency ablation of frequent post-infarction premature ventricular complexes on left ventricular ejection fraction was chosen by the journal as an Outstanding Clinical Article. Dr. Bogun's work has been funded by intramural grants and industry awards, and he participated on a Leducq transatlantic network grant from 2009-2015. He has authored more than 180 peer reviewed publications and several book chapters, and has numerous abstracts. He is regularly asked to speak at national and international conferences, and to provide state-of-the-art reviews for leading journals. Dr. Bogun's expertise is also recognized in his peer review service for top journals and membership on the editorial board of *Heart Rhythm*.

Recent and Significant Publications:

Desjardins B, Yokokawa M, Good E, Crawford T, Latchamsetty R, Jongnarangsin K, Ghanbari H, Oral H, Pelosi F, Jr., Chugh A, Morady F, Bogun F: Characteristics of intramural scar in patients with non-ischemic cardiomyopathy and relation to intramural ventricular arrhythmias. *Circ Arrhythm Electrophysiol* 6:891-897, 2013.

Crawford T, Mueller G, Sarsam S, Prasitdumrong H, Chaiyen N, Gu X, Schuller J, Kron J, Nour KA, Cheng A, Ji SY, Feinstein S, Gupta S, Ilg K, Sinno M, Abu-Hashish S, Al-Mallah M, Sauer WH, Ellenbogen K, Morady F, Bogun F: Magnetic resonance imaging for identifying patients with cardiac sarcoidosis and preserved or mildly reduced left ventricular function at risk of ventricular arrhythmias. *Circ Arrhythm Electrophysiol* 7:1109-1115, 2014.

El Kadri M, Yokokawa M, Labounty T, Mueller G, Crawford T, Good E, Jongnarangsin K, Chugh A, Ghanbari H, Latchamsetty R, Oral H, Pelosi F, Morady F, Bogun F: Effect of ablation of frequent premature ventricular complexes on left ventricular function in patients with nonischemic cardiomyopathy. *Heart Rhythm* 12:706-713, 2015.

Yokokawa M, Kim HM, Baser K, Stevenson W, Nagashima K, Della Bella P, Vergara P, Hindricks G, Arya A, Zeppenfeld K, de Riva Silva M, Daoud EG, Kumar S, Kuck KH, Tilz R, Mathew S, Ghanbari H, Latchamsetty R, Morady F, Bogun F: Predictive value of programmed ventricular stimulation after catheter ablation of post-infarction ventricular tachycardia. *Journal of the American College of Cardiology* 65:1954-1959, 2015.

Yokokawa M, Jung DY, Hero Iii AO, Baser K, Morady F, Bogun F: Single- and dual-site pace mapping of idiopathic septal intramural ventricular arrhythmias. *Heart Rhythm* 13:72-77, 2016.

Service: Dr. Bogun is active clinically, performing mapping and ablation procedures on patients with ventricular arrhythmias. He also performs epicardial mapping/ablation in patients whose arrhythmias cannot be reached from the endocardium. This procedure was started by Dr. Bogun at the University of Michigan, and UM performs the vast majority of these procedures in the State of Michigan. Dr. Bogun also initiated the Cardiac Sarcoidosis Registry at UM, which today is a national and international consortium. In a joint effort with the Department of Radiology, he has been involved in an interdisciplinary program to provide access to MRI scans for patients with implanted devices. Institutionally, Dr. Bogun also serves as the director of Clinical Cardiac Electrophysiology Research, and extramurally, has served on expert committees and task forces for national and international societies.

External Reviewers:

Reviewer A: “Simply put, Frank is a real star and merits this promotion. I have been most impressed as he has built a career focused on VT ablation. Overtime, he has emerged as one of the world’s thought leaders in this area. He is productive, respected and earnest. He is an outstanding lecturer who has a wonderful approach to lecturing. Frank represents the best of the clinical side of academic medicine.”

Reviewer B: “Dr. Bogun...is a worldwide thought leader in the field of cardiac ablation of ventricular tachycardia....He is well recognized both nationally and internationally among his peers as an outstanding teacher and clinical researcher. I think it is **not** an exaggeration to say that Dr. Bogun is one of the ten most talented individuals in the world performing ventricular tachycardia ablation, both from a clinical and academic perspective....He has helped develop a world class electrophysiology program in ventricular tachycardia at the University of Michigan.”

Reviewer C: “Dr. Bogun is nationally and internationally recognized for his research efforts and accomplishments. He continues to be at the cutting edge of everything that is happening related to the catheter ablation of ventricular arrhythmias and the care of patients with these disorders... He represents the ideal to which we all strive as clinician scientists and educators in cardiac electrophysiology. His academic status and achievements in the area of electrophysiology are clearly significant and recognized as such. He is considered to be one of the top 10 Electrophysiologists in the world... He is an excellent representative of the institution, and undoubtedly will continue to lead efforts that result in major discovery and improvement in the care of patients with cardiac arrhythmia disorders throughout the world.”

Reviewer D: “It is worth noting that [in] several of the areas in which he has published... Dr. Bogun’s insights have led to changes in standard practice and approach. Few of us in the field can boast of this influence... He has a national and international reputation that wins him invitations to meetings and forums on almost all continents. In perspective, all of us would love to have Dr. Bogun on our faculty.”

Reviewer E: “His work on the importance of premature ventricular complexes (PVCs) revolutionized our concepts of PVCs causing a cardiomyopathy and the reversal following ablation... Frank is clearly at the top of his peer group. There is no question he would be promoted to full professor with tenure at [my institution]...”

Summary of Recommendation:

Dr. Bogun is recognized as an international leader in the treatment of ventricular tachycardia, and has made substantial contributions to the field through his research, clinical work, teaching and service. Therefore, I enthusiastically recommend Frank Bogun, M.D. for promotion to professor of internal medicine, with tenure, Department of Internal Medicine, Medical School.



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

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