

**JASON B. GARLIE, MD, MS, FACC, FHRS**

**Garlie Medical Consulting, PLLC**

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*I am actively practicing Clinical Cardiac Electrophysiologist within a community hospital in suburban Minneapolis. I am board certified in Cardiovascular Medicine, Cardiac Electrophysiology, and Internal Medicine. I trained at the Krannert Institute of Cardiology under John Miller, MD at the Indiana University School of Medicine. I am a Fellow of the American College of Cardiology and Heart Rhythm Society. My practice includes implantation of pacemakers and defibrillators, as well as advanced cardiac catheter ablation for atrial fibrillation, supraventricular tachycardia, premature ventricular contractions, and ventricular tachycardia.*

## CLINICAL EXPERIENCE

<b>2016 – Present</b>	<b>Clinical Cardiac Electrophysiologist</b> Metropolitan Heart and Vascular Institute (MHVI) Mercy and Unity Hospitals, Allina Health System, Minneapolis, MN
<b>2012 – 2016</b>	<b>Admitting Physician</b> Select Specialty Hospital, Indianapolis, IN
<b>2011 – 2016</b>	<b>Admitting Physician</b> Methodist Hospital, IU Health, Indianapolis, IN
<b>2010 – 2014</b>	<b>Admitting Physician</b> VA Medical Center, Indianapolis, IN

## LICENSURE & CERTIFICATIONS

National Provider Identifier (NPI) #1497913479  
Minnesota State Medical License, Active, #60439  
Indiana State Medical License, Inactive, #01067705A  
Indiana State Controlled Substances License, Inactive, #01067705B  
American Board of Internal Medicine, Internal Medicine, Active, #315432  
American Board of Internal Medicine, Cardiovascular Medicine, Active, #315432  
American Board of Internal Medicine, Clinical Cardiac Electrophysiology, Active, #315432  
National Board of Echocardiography, ASCeXAM®, Inactive, #00028220

## PROFESSIONAL ACTIVITIES

### Consulting

2013 – 2022

**Contributing Editor**

Practice Update website ([www.practiceupdate.com](http://www.practiceupdate.com))

Elsevier Publishing

- Worked closely with Editor-in-Chief, Douglas P. Zipes, MD, providing weekly scan of cardiology literature in search of practice changing articles
- Uploaded content, including 'take home messages' for editorial board review
- 58,669 subscribed users, 45% in U.S./55% worldwide, average usage ~5 min (2 ½ articles), 77% repeat users

2017 – Present

**Consultant**, Integer Corporation (Greatbatch Medical; Lake Region Medical; Electrochem)

- Provide insights into clinical EP trends and opinions on the development of new clinical products.

2020 – Present

**Consultant**, Abbott / St Jude Medical Cardiovascular

- Participate in pre-clinical large animal studies for the development of new technology, including: ablation catheters; intracardiac echocardiography catheters; pacing and electroanatomic mapping systems.

2022 – Present

**Consultant**, Boston Scientific POLARx™ Cryoablation Advisory Board

### Research Experience

2022

**Principle Investigator**, Medtronic Product Surveillance Registry (PSR)-CRM

### International Experience

2009

Participated in two-month elective experience with AMPATH consortium treating medical patients in Moi Teaching and Referral Hospital in Eldoret, Kenya.

### Honors & Awards

2011 – 2016

**Grube Fellow in Cardiovascular Medicine**, Krannert Institute of Cardiology

2015

**Trainee Travel Award**, ACC Legislative Conference, Washington, D.C.

2014

**Trainee Travel Award**, ACC Legislative Conference, Washington, D.C.

2013

**Trainee Travel Award**, American College of Cardiology, San Francisco, CA

2012

**First place in Fellows' Oral Abstract Competition**, Indiana ACC, Indianapolis, IN

2003

**Trainee Travel Award**, American Heart Association, Orlando, FL

2005

**Midwestern Region Centocor Scholar Award**, American Federation for Medical Research, Chicago, IL

2005

**Best Poster in Disease Modulation Category**, American Federation for Medical Research, Chicago, IL

## Leadership positions

<b>2022 – present</b>	<b>Member-at-Large</b> , Metropolitan Cardiology Consultants Board of Directors
<b>2022 – present</b>	<b>Treasurer</b> , Metropolitan Cardiology Consultants
<b>2022 – present</b>	<b>Medical Director</b> , MHVI Device Clinic
<b>2022 – present</b>	<b>Member</b> , Research Committee, MHVI
<b>2013 – 2014</b>	<b>Chief Cardiology Fellow</b> , Krannert Institute of Cardiology

## EDUCATION

<b>2014 – 2016</b>	<b>Fellow in Clinical Cardiac Electrophysiology</b> Krannert Institute of Cardiology, Indiana University School of Medicine Program director: John M. Miller, MD
<b>2012 – 2014</b>	<b>Fellow in Cardiovascular Medicine</b> <b>Chief Cardiology Fellow (2013 – 2014)</b> Krannert Institute of Cardiology, Indiana University School of Medicine Program director: William Groh, MD/MPH
<b>2010 – 2012</b>	<b>Research in neuromodulation of sudden cardiac death in heart failure</b> Krannert Institute of Cardiology, Indiana University School of Medicine Laboratories of Peng-Shen Chen, MD and John Lopshire, MD/PhD
<b>2007 – 2010</b>	<b>Intern and Resident in Internal Medicine</b> Indiana University School of Medicine Program director: Lia Logio, MD
<b>2003 – 2007</b>	<b>Medical Doctorate</b> University of Louisville School of Medicine
<b>2001 – 2003</b>	<b>Master of Science, Physiology &amp; Biophysics</b> University of Louisville School of Medicine
<b>2001 – 2003</b>	<b>Research in TNF-alpha signaling in left ventricular hypertrophy and heart failure</b> Institute of Molecular Cardiology, University of Louisville School of Medicine Laboratory of Sumanth D. Prabhu, MD
<b>1998 – 2001</b>	<b>Research Technician</b> Blood Research Institute, Blood Center of SE Wisconsin Laboratory of Jack Gorski, PhD
<b>1994 – 1998</b>	<b>Bachelor of Arts, Chemistry</b> Hanover College, Hanover, Indiana

## PRESENTATIONS AND PUBLICATIONS

### Presentations:

- 2016**      Dizziness & Syncope: How to work up, when to worry, MHVI Fall Cardiovascular Conference, Edinburgh Conference Center, Brooklyn Park, MN, November 17, 2016
- 2009**      Clinical safety on the wards at Wishard General Hospital, presented to IU Department of Medicine
- 2008**      Improving Cardiac Function via Spinal Cord Stimulation, Indiana University Medicine Department Resident Research Competition, Indianapolis, IN
- 2003**      Tumor Necrosis Factor-alpha Dependent Pathways Modulate Beta-Adrenergic Receptor Mediated Myocardial Hypertrophy In Vivo, 'Featured Research' - American Heart Association Scientific Sessions, Orlando, FL (Circulation 108, 17: IV 215, Oct 28, 2003)

### Educational lectures:

Presented to medical students at Moi Teaching and Referral Hospital:  
Basics of ECG Reading

Presented to cardiovascular ICU nurses at Methodist Hospital:  
Defibrillator and pacemaker management at the end of life

Presented to cardiovascular nurses at Mercy and Unity Hospitals:  
Ambulatory ECG Monitoring  
Safety within the EP laboratory: Moderate Sedation

Presented to the ICU nurses at Mercy Hospital:  
Temporary Pacing  
Management of thromboembolic risk in atrial fibrillation: Anticoagulation and left atrial occlusion devices

Presented to MHVI Advanced Practice Providers at Mercy Hospital:  
Risk factors for atrial fibrillation,  
The universe of wide-complex tachycardia  
Basics of atrioventricular block  
His-bundle pacing  
Atrial fibrillation in heart failure  
Postural orthostatic tachycardia syndrome

Presented to Allina Hospitalists:  
Dizziness & Syncope: How to work up, when to worry  
2022 Update on Atrial Fibrillation: From (A)ffirm to (Z)io

## **Abstracts:**

- 2016** Single-Center Experience with Rotor Mapping and Ablation for Treatment of Atrial Fibrillation in 170 Patients. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO01-50, VOLUME 13, ISSUE 5, SUPPLEMENT, S97-S165, MAY 01, 2016 DOI: <https://doi.org/10.1016/j.hrthm.2016.03.027>)
- 2016** Termination of Macroreentrant Atrial Tachycardia by Nonpropagated Stimuli: A Case Series. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO02-122, VOLUME 13, ISSUE 5, SUPPLEMENT, S166-S250, MAY 01, 2016 DOI: <https://doi.org/10.1016/j.hrthm.2016.03.028>)
- 2016** Case series of Brugada syndrome unmasked by loperamide overdose. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO01-159, VOLUME 13, ISSUE 5, SUPPLEMENT, S97-S165, MAY 01, 2016 DOI: <https://doi.org/10.1016/j.hrthm.2016.03.027>)
- 2016** Permanent His-bundle pacing resulting in reversal of long-term systolic LV dysfunction in a patient with chronic intra/intra-His block with pacemaker dependency and non-ischemic cardiomyopathy. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO03-174, VOLUME 13, ISSUE 5, SUPPLEMENT, S251-S339, MAY 01, 2016, DOI: <https://doi.org/10.1016/j.hrthm.2016.03.029>)
- 2016** Termination of atrial fibrillation guided by rotor mapping: Impact on long-term outcomes. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO03-154, VOLUME 13, ISSUE 5, SUPPLEMENT, S251-S339, MAY 01, 2016, DOI: <https://doi.org/10.1016/j.hrthm.2016.03.029>)
- 2016** Area of Rotors with Focal Impulse and Rotor Modulation (FIRM) Technique and its Correlation with Body Mass Index. Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO03-120, VOLUME 13, ISSUE 5, SUPPLEMENT, S251-S339, MAY 01, 2016, DOI: <https://doi.org/10.1016/j.hrthm.2016.03.029>)
- 2014** Coronary Vasospasm in Burn Patients: First Reported Case Series of a Lethal Disease. Derek M. Culnan MD, Jason B. Garlie MD, Kaushang Gandhi MD, Rolf P. Kreutz MD and Rajiv Sood MD. Ohio Valley Society of Plastic Surgeons. [https://www.ovsps.org/conferences/abstract\\_archive/detail.php?id=377&yr=-1&p=14](https://www.ovsps.org/conferences/abstract_archive/detail.php?id=377&yr=-1&p=14)
- 2012** The Increased Ambulatory Nerve Activity and Ventricular Tachycardia in Canine Post-infarction Heart Failure is Attenuated by Spinal Cord Stimulation, Heart Rhythm Society Scientific Sessions, Boston, MA (PO3-112, VOLUME 9, ISSUE 5, SUPPLEMENT, S226-S267, MAY 01, 2012, DOI: <https://doi.org/10.1016/j.hrthm.2012.03.032>)
- 2012** David Wagner; Rich Shelton; David Adams; **Jason Garlie**; Kyoung-Suk Rhee; Peng-Sheng Chen; Shien-Fong Lin An interactive implantable vagal nerve stimulator for real-time modulation of cardiac autonomic control. (Conf Proc IEEE Eng Med Biol Soc 2012, 5749-5752). DOI:10.1109/EMBC.2012.6347300
- 2011** Heterogeneous Upregulation of  $I_{KAS}$  in Failing Human Ventricles, Heart Rhythm Society Scientific Sessions, San Francisco, CA (PO2-138, VOLUME 8, ISSUE 5, SUPPLEMENT, S186-S215, MAY 01, 2011, DOI: <https://doi.org/10.1016/j.hrthm.2011.03.026>)
- 2003** Tumor Necrosis Factor-alpha Dependent Pathways Modulate Beta-Adrenergic Receptor Mediated Myocardial Hypertrophy In Vivo, Midwestern Regional Meeting of American Federation for Medical Research, Chicago, IL, April 15, 2005 (Journal of Investigative Medicine 53, 02: March 2005. <http://dx.doi.org/10.2310/6650.2005.00206.46>)

## **Peer-reviewed Publications:**

1. Yassai M, Afsari A, **Garlie J**, Gorski J. C-Terminal Anchoring of a Peptide to Class II MHC Via the P10 Residue Is Compatible with a Peptide Bulge, J Immunol February 1, 2002, 168 (3) 1281-1285; DOI: <https://doi.org/10.4049/jimmunol.168.3.1281>
2. **Garlie JB**, Hamid T, Gu Y, Ismahil MA, Chandrasekar B, Prabhu SD. Tumor necrosis factor receptor 2 signaling limits  $\beta$ -adrenergic receptor-mediated cardiac hypertrophy in vivo. Basic Res Cardiol. 2011 Nov;106(6):1193-205. doi: 10.1007/s00395-011-0196-6. Epub 2011 Jun 21.
3. Rhee KS, Hsueh CH, Hellyer JA, Park HW, Lee YS, **Garlie J**, Onkka P, Doytchinova AT, Garner JB, Patel J, Chen LS, Fishbein MC, Everett T 4th, Lin SF, Chen PS. Cervical Vagal Nerve Stimulation Activates the Stellate Ganglion in Ambulatory Dogs, Korean Circ J. 2015 Jan; 45: e7. DOI: 10.4070/kcj.2015.45.2.149
4. Clinical Benefit of Ablating Localized Sources for Human Atrial Fibrillation: The Indiana University FIRM Registry. Miller JM, Kalra V, Das MK, Jain R, **Garlie JB**, Brewster JA, Dandamudi G. J Am Coll Cardiol. 2017 Mar 14;69(10):1247-1256. DOI: 10.1016/j.jacc.2016.11.079
5. Natural History of Implantable Cardioverter-Defibrillator Implanted at or After the Age Of 70 Years in A Veteran Population a Single Center Study. Ajam T, Kalra V, Shen C, Li X, Gautam S, Kambur T, Barmada M, Yancey KW, Ajam S, **Garlie J**, Miller JM, Jain R. Journal of Atrial Fibrillation. Dec 2016 - Jan 2017 | Volume 9 | Issue 4 doi: 10.4022/jafib.1496.
6. Unique features of epicardial ventricular arrhythmias / premature ventricular complexes ablated from the coronary venous system in veteran population. Mar PL, Barmada M, Stucky MA, Devabakhtuni SR, **Garlie J**, Miller JM, Jain R. Indian Pacing Electrophysiol J. 2020 May-Jun;20(3):97-104. doi: 10.1016/j.ipej.2020.02.001. Epub 2020 Feb 18.

## **MEMBERSHIPS**

Faculty of the Heart Rhythm Society

Faculty of the American College of Cardiology

## **SERVICE ACTIVITIES**

1998 – Present

**Camp Counselor, Physician & Photographer**

Wisconsin Alliance for Fire Safety (WAFS) / Professional Firefighters of Wisconsin (PFFW) – Summer Camp for Burn Injured Youth (“Burn Camp”)