KONSTANTINOS N. ARONIS, MD, PHD, FACC, FHRS

Board-Certified Cardiac Electrophysiologist • Expert Witness
Arrhythmia, Ablation and Device Litigation

Assistant Professor of Medicine, Johns Hopkins University

Director, ACHD Complex Ablation Program • Associate Director, VT Ablation Program

Expertise: Ventricular & Supraventricular Arrhythmias • Cardiac Ablation Procedures • ACHD Arrhythmias • Pacemakers & ICDs • Device Complications & Malfunction • ECG/Arrhythmia Diagnosis • Medical & Invasive Arrhythmia Management

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OVERVIEW

Dr. Aronis offers comprehensive electrophysiology expertise spanning the full spectrum of arrhythmia care, with particular focus on two specialized areas: complex ventricular tachycardia ablation and adult congenital heart disease electrophysiology. This combination addresses both common and challenging cases that frequently arise in litigation. As Johns Hopkins faculty performing 200+ ablation procedures annually, he maintains active clinical practice across routine and high-complexity scenarios—from standard device implantations and SVT ablations to advanced procedures including epicardial access, surgical hybrid ablations, and conduction system pacing in complex anatomy. His academic credentials include 80+ peer-reviewed publications, 3,300+ citations, and service as Associate Editor for JACC Case Reports, providing a foundation for evidence-based expert testimony. With both MD and PhD training, Dr. Aronis translates technical electrophysiology concepts into clear, accessible explanations grounded in published literature and direct procedural experience, serving both plaintiff and defense cases with objective analysis.

KEY HIGHLIGHTS

Credentials

- Board-Certified EP
- Johns Hopkins Faculty
- 200+ ablations /yr
- VT & ACHD specialist
- Epicardial/hybrid/ high risk ablation
- Device expert

Academic Impact

- 80+ publications
- 3300+ citations
- H-index: 31
- JACC Associate Editor
- Premier journal reviewer
- Teaching awards

Litigation & Objectivity

- **Plaintiff & defense**
- VT/ACHD/device/ablation expertise
- **Academic independence**
- **Evidence-based analysis**

PROFESSIONAL EXPERIENCE

Johns Hopkins University School of Medicine | 2023–Present

Assistant Professor of Medicine

- Director, ACHD Complex Ablation Program
- Associate Director, Ventricular Tachycardia Ablation Program
- 200+ ablation procedures annually: VT/VF ablation, epicardial access, high-risk/hybrid ablations, ACHD arrhythmias
- Established surgical hybrid VT ablation program

University of Pittsburgh Medical Center | 2021–2023

Assistant Professor of Medicine

- Restarted epicardial VT ablation program
- First on-pump VT ablation during LVAD implantation
- Pioneered bipolar ablation for intramural septal VT

EDUCATION & TRAINING

Clinical Cardiac Electrophysiology Fellowship | Johns Hopkins | 2019–2021

Cardiovascular Disease Fellowship | Johns Hopkins | 2015–2019

Computational Electrophysiology Research Fellowship | Johns Hopkins | 2017–2019

NIH T32 Training Grant (Biomedical Engineering)

Internal Medicine Residency | Boston University Medical Center | 2013–2015

PhD, Medicine (Summa Cum Laude) | University of Patras, Greece | 2021

MD (Summa Cum Laude) | University of Patras, Greece | 2008

BOARD CERTIFICATIONS

- Clinical Cardiac Electrophysiology | American Board of Internal Medicine | 2021–Present
- Cardiovascular Disease | American Board of Internal Medicine | 2018–Present
- Comprehensive Adult Echocardiography | National Board of Echocardiography | 2017–Present

AREAS OF EXPERTISE

Ventricular Arrhythmias

VT/VF mapping and ablation in structural heart disease, epicardial access, intramural/septal ablation, arrhythmogenic cardiomyopathy, cardiac sarcoidosis, sudden death risk stratification

Adult Congenital Heart Disease

Arrhythmia management in repaired TOF, TGA, Fontan circulation; complex ablations in unique anatomy; conduction system pacing

Cardiac Devices

Pacemaker/ICD implantation and troubleshooting, conduction system pacing, lead extraction, device malfunction, inappropriate shocks, perforation, infection

Catheter Ablation

Atrial fibrillation (PVI, substrate modification), atrial flutter/tachycardia, SVT (AVNRT, AVRT), complex substrate mapping, advanced imaging integration

Diagnostic & Risk Assessment

Complex ECG interpretation, EP study analysis, cardiac MRI/CT for arrhythmia substrates, genetic testing for inherited arrhythmias

Periprocedural Management

Anticoagulation protocols, complication recognition (perforation, tamponade, stroke, vascular injury), informed consent, patient selectio

REPRESENTATIVE PUBLICATIONS (Selected from 80+)

Ventricular Tachycardia & Cardiac Imaging

- Aronis KN, Okada DR, et al. Spatial Dispersion Analysis of LGE-CMR for Prediction of Ventricular Arrhythmias in Patients with Cardiac Sarcoidosis. Pacing Clin Electrophysiol. 2021;44(12):2067-2074.
- Aronis KN, Ali RL, Prakosa A, et al. Accurate Conduction Velocity Maps and Their Association With Scar Distribution on Magnetic Resonance Imaging in Patients With Postinfarction Ventricular Tachycardias. Circ Arrhythm Electrophysiol. 2020;13(4):e007792.

Atrial Fibrillation

- Aronis KN, Berger RD, Calkins H, et al. Is human atrial fibrillation stochastic or deterministic? Chaos. 2018;28(6):063130.

Risk Stratification

- Aronis KN, Zhao D, Hoogeveen RC, et al. Associations of Lipoprotein(a) Levels With Incident Atrial Fibrillation and Ischemic Stroke: The ARIC Study. J Am Heart Assoc. 2017;6(12).

Adult Congenital Heart Disease

- Aronis KN, Yang E, Barnes BT, et al. Left bundle pacing in a patient with atrioventricular canal defect presenting with atrial standstill and junctional bradycardia. Heart Rhythm Case Rep. 2023;9:314-318.

Review Articles

- Aronis KN, Ali RL, Liang JA, Zhou S, Trayanova NA. Understanding AF Mechanisms Through Computational Modelling and Simulations. Arrhythm Electrophysiol Rev. 2019;8(3):210-219.

EDITORIAL ACTIVITIES

Associate Editor, JACC Case Reports, 2024–Present

Associate Editor, Frontiers in Physiology (Cardiovascular EP), 2020–Present

Active reviewer: JACC-EP, Circulation-EP, Heart Rhythm, Europace

TEACHING & MENTORING

Director, Cardiology Fellows EP Rotation | Johns Hopkins | 2023–Present

Teacher of the Year Award (2025)

Core Curriculum Faculty | Johns Hopkins EP Fellowship | 2023–Present

Annual lectures: VT Ablation, ACHD Arrhythmias, Conduction System Pacing

Clinical Training: EP fellows in complex VT ablation, ACHD procedures, epicardial access (14 fellows trained)

Research Mentorship: 10+ medical students, residents, fellows (8+ publications, 15+ presentations)

PROFESSIONAL RECOGNITION

- Teacher of the Year Award, Johns Hopkins CVD Fellowship (2025)
- Travel Scholarship, Heart Rhythm Society (2019)
- W. Leigh Thompson Excellence in Research Award Finalist, Johns Hopkins (2019)
- Top Journal Reviewer, European Heart Journal (2012)

PROFESSIONAL SOCIETIES & SERVICE

Fellow, American College of Cardiology (FACC) & Heart Rhythm Society (FHRS)

Member: PACES, ISACHD, AHA, ESC, EHRA

Committee Service:

- HRS 2026 Program Committee (Pediatric & Adult Congenital EP)
- ABIM Board Item Writing Committee (Cardiac EP) | 2024–2026
- ACC Collaborative Maintenance Pathway Standard Setting | 2023–Present
- HRS Abstract Reviewer | 2022–Present

RESEARCH IMPACT

80+ peer-reviewed publications | 3,300+ citations | H-index: 31

Research Focus: VT ablation technologies, ACHD arrhythmias, cardiac imaging integration, computational electrophysiology

Current Trials (Site PI): FULCRUM-VT, BACKBEAT, PIVATAL (EP Lead), CONTEMPT-ICD (EP Lead)

Patent: Real-time EP catheter guidance system (USPTO 20230011001)

CONTACT INFORMATION

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Available for plaintiff and defense expert witness testimony nationwide

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Complete curriculum vitae with comprehensive publication list available through SEAK expert witness profile.