



Roy Mattathu John, MD, PhD, FRCP

Clinical Professor, Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Electrophysiology Clinic**

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Bio

BIO

Dr. John is a fellowship-trained cardiologist with more than 25 years of experience. He is a clinical professor in the Department of Medicine at Stanford University School of Medicine.

He originally earned board certification in clinical cardiac electrophysiology in 1996 and has continued to recertify. He also has earned board certification in cardiovascular disease and internal medicine.

Dr. John diagnoses and manages all forms of cardiac arrhythmias including atrial fibrillation and ventricular arrhythmias. His special interests include catheter ablation for SVT, atrial arrhythmias, pacemaker and defibrillator implants, and lead extraction.

He has conducted extensive research. He has participated in large multi-center clinical trials, including over 30 studies as a primary investigator of drugs, devices, and ablation techniques. He helped pioneer a new way to manage scar-related ventricular tachycardia. He also helped develop innovations in cardiac pacemaker technology.

Dr. John has authored over 200 publications that include 126 original research papers. They have appeared in reputed journals such as the New England Journal of Medicine, Circulation, Lancet, Journal of the American College of Cardiology, European Heart Journal, Heart Rhythm, Journal of Cardiovascular Electrophysiology, and many more. Topics have included innovative, new techniques and technologies for the treatment of supraventricular arrhythmias, atrial fibrillation, ventricular tachycardia, catheter ablation, lead extraction, cardiac pacing, and defibrillation.

He was a member of the editorial board for Circulation and is currently on the editorial board of the publications Heart Rhythm Journal, Arrhythmia and Electrophysiology, Journal of Cardiac Electrophysiology, and Journal of Innovations in Cardiac Rhythm Management.

Dr. John also has written several chapters for medical textbooks such as Harrison's Principles of Internal Medicine, Zipes Textbook on Cardiac Electrophysiology - Cell to Bedside, Conn's Current Therapy, Electrical Disorders of the Heart, Cardiac Mapping, and many more.

He has made invited presentations to his peers at scientific sessions of the Heart Rhythm Society, American Heart Association, American College of Cardiology, and Heart Failure Society. He has delivered more than 60 national and international lectures. Subjects include cardiac pacing, defibrillation, heart failure, and arrhythmia management including catheter ablation for arrhythmias.

Dr. John is a fellow of the American College of Cardiology, Heart Rhythm Society, and Royal College of Physicians of London.

He has volunteered his time and expertise to provide free cardiac care to underserved patients in Bolivia, India, and Kenya.

CLINICAL FOCUS

- Arrhythmias, Cardiac
- Atrial Fibrillation
- Ventricular Tachycardia
- supraventricular tachycardia
- WPW Syndrome
- Catheter ablation
- Artificial Biventricular Pacemaker
- Defibrillators, Implantable
- Pacemaker and Defibrillator Lead Extraction
- Left atrial appendage occlusion
- Clinical Cardiac Electrophysiology

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- Fellowship: West Roxbury VA Hospital Medical Ctr GME Programs (1993) MA
- Board Certification: Clinical Cardiac Electrophysiology, American Board of Internal Medicine (2017)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1995)
- Board Certification: Internal Medicine, American Board of Internal Medicine (1994)
- Residency: University College Hospital (1991) UK
- Residency: Groby Road Medical Centre (1986)
- Residency: Pinderfields Hospital (1986) United Kingdom
- Medical Education: Medical College Thiruvananthapuram University of Kerala (1979) India

Publications

PUBLICATIONS

- **Ultrasound-Guided Parasternal Tunneling During Intermuscular S-ICD Implantation Is Associated with Lower Shock Impedance and More Favorable Implant Geometry.** *Heart rhythm*

- Sanchis-Gomar, F., Schloss, L., Perino, A. C., Viswanathan, M. N., Baykaner, T., John, R. M., Rogers, A. J., Badhwar, N., Narayan, S. M., Wang, P. J., Perez, M. V.
2026
- **Arrhythmia Substrates Accessible from the Aortic Root and Immediate Sub-aortic Areas: Mapping and Ablation.** *Heart rhythm*
John, R. M., Ghazizadeh, Z., Ceresnak, S. R.
2026
 - **Bundle Branch Re-entrant Ventricular Tachycardia in Transthyretin Cardiac Amyloidosis.** *Heart rhythm*
Desai, Y. B., Fazal, M., Witteles, R., John, R. M.
2025
 - **HRS Scientific Documents Methodology Manual: Executive summary.** *Heart rhythm*
Frankel, D. S., Koneru, J. N., Akoum, N., Cutler, M. J., Di Biase, L., Fix, A., Gunawardene, M. A., John, R. M., Joza, J. E., Killu, A. M., Moore, J. P., Pothineni, N. V., Sapp, et al
2025
 - **Fascicular and Papillary Muscle Arrhythmias in the Structurally Normal Heart.** *Arrhythmia & electrophysiology review*
Richardson, T. D., John, R. M.
2025; 14: e10
 - **AUTOMATED, ACCURATE IDENTIFICATION OF VENTRICULAR TACHYCARDIA FROM ELECTRONIC HEALTH RECORDS USING NATURAL LANGUAGE PROCESSING**
Brennan, K., Azizi, Z., Feng, R., Goyal, J., Liu, X., Ganesan, P., Ruiperez-Campillo, S., Baykaner, T., Badhwar, N., John, R. M., Viswanathan, M., Perino, A., Wang, et al
ELSEVIER SCIENCE INC.2024: 2644
 - **Advanced Electroanatomic Mapping: Current and Emerging Approaches.** *Current treatment options in cardiovascular medicine*
Narayan, S. M., John, R. M.
2024; 26 (4): 69-91
 - **Advanced Electroanatomic Mapping: Current and Emerging Approaches** *CURRENT TREATMENT OPTIONS IN CARDIOVASCULAR MEDICINE*
Narayan, S. M., John, R. M.
2024
 - **Intramyocardial Hematoma During Catheter Ablation for Scar-Related Ventricular Tachycardia.** *JACC. Clinical electrophysiology*
John, R. M., Tedrow, U., Tadros, T., Richardson, T. D., Kanagasundram, A., Hoffman, R. D., Kapp, M. E., Shah, A., Michaud, G., Stevenson, W.
2023
 - **World Wide Experience With an Irrigated Needle Catheter for Ablation of Refractory Ventricular Arrhythmias: Final Report.** *JACC. Clinical electrophysiology*
Tedrow, U. B., Kurata, M., Kawamura, I., Batnyam, U., Dukkipati, S., Nakamura, T., Tanigawa, S., Fuji, A., Richardson, T. D., Kanagasundram, A. N., Koruth, J. S., John, R. M., Hasegawa, et al
2023
 - **Leadless Pacemakers: The Leap from Single to Dual Chamber Pacing.** *Heart rhythm*
John, R. M., De Laroche, H.
2023
 - **Ablation of ectopic atrial foci for successful management of symptomatic bradycardia: A case series (Bradycardia and Ectopic Atrial Beats).** *Pacing and clinical electrophysiology : PACE*
Cunn, G., Willner, J., John, R. M.
2023
 - **Same-day discharge after transvenous lead extraction: feasibility and outcomes.** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*
Atteya, G., Alston, M., Sweat, A., Saleh, M., Beldner, S., Mitra, R., Willner, J., John, R. M., Epstein, L. M.
2022

- **Leadless Pacing after Transvenous Lead Extraction: Are we out of the Woods?** *Heart rhythm*
Baykaner, T., John, R. M.
2022
- **Tyrosine kinase inhibitor-associated ventricular arrhythmias: a case series and review of literature.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*
Fazal, M., Wei, C., Chuy, K. L., Hussain, K., Gomez, S. E., Ba, S. S., Pietrasik, G., Yadav, N., Ghazizadeh, Z., Kapoor, R., Witteles, R. M., Blackmon, A., Wang, et al
2022
- **Proarrhythmic effect of radiofrequency catheter ablation on the right ventricular moderator band.** *Journal of arrhythmia*
John, R. M., Willner, J.
2022; 38 (5): 813-816
- **Proarrhythmic effect of radiofrequency catheter ablation on the right ventricular moderator band** *JOURNAL OF ARRHYTHMIA*
John, R. M., Willner, J.
2022
- **Durable pulmonary vein isolation with diffuse posterior left atrial ablation using low-flow, median power, short-duration strategy.** *Journal of cardiovascular electrophysiology*
Li, D. L., El-Harasis, M., Montgomery, J. A., Richardson, T. D., Kanagasundram, A., Estrada, J. C., Lean, M., Benjamin Shoemaker, M., Saavedra, P. J., Touchton, S., Patel, B., Herrmann, T., John, et al
2022
- **Case Volume and Procedural Outcomes in Ablation for Atrial Fibrillation: Practice Makes Perfect?** *Journal of cardiovascular electrophysiology*
Muthalaly, R. G., John, R. M.
2022
- **Interventricular septal substrates for scar-related monomorphic ventricular tachycardia.** *Indian pacing and electrophysiology journal*
John, R. M., Stevenson, W.
2022; 22 (1): 10-11
- **Idiopathic Ventricular Outflow Tract Arrhythmias: Avoid the Use of a Sledgehammer to Crack a Nut.** *Journal of cardiovascular electrophysiology*
John, R. M., Perino, A. C.
2021
- **Percutaneous management of superior vena cava syndrome in patients with cardiovascular implantable electronic devices.** *Heart rhythm*
Gabriels, J., Chang, D., Maytin, M., Tadros, T., John, R. M., Sobieszczyk, P., Eisenhauer, A., Epstein, L. M.
2021; 18 (3): 392-398
- **Candidemia in patients with cardiovascular implantable electronic devices.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*
Nakamura, T., Narui, R., Holmes, B., Norton, C., Kim, E. J., Nakajima, I., Stevenson, W. G., Greene, M. H., John, R. M., Ellis, C. R., Crossley, G. H., Montgomery, J. A.
2021; 60 (1): 69-75
- **Percutaneous approaches for retrieval of an embolized or malpositioned left atrial appendage closure device: A multicenter experience.** *Heart rhythm*
Afzal, M. R., Ellis, C. R., Gabriels, J., El-Chami, M., Amin, A., Fanari, Z., Delurgio, D., John, R. M., Patel, A., Haldis, T. A., Goldstein, J. A., Yakubov, S., Daoud, et al
2020; 17 (9): 1545-1553
- **Outcomes in patients with cardiac amyloidosis and implantable cardioverter-defibrillator.** *Europace : European pacing, arrhythmias, and cardiac electrophysiology : journal of the working groups on cardiac pacing, arrhythmias, and cardiac cellular electrophysiology of the European Society of Cardiology*
Kim, E. J., Holmes, B. B., Huang, S., Lugo, R., Al Aboud, A., Goodman, S., Hung, R. R., Slosky, D., Stevenson, W. G., Michaud, G. F., John, R. M.
2020; 22 (8): 1216-1223
- **Frequency Content of Unipolar Electrograms May Predict Deep Intramural Excitable Substrate: Insights From Intramural Needle Catheter Ablation of Ventricular Tachycardia.** *JACC. Clinical electrophysiology*

Qian, P. C., Oberfeld, B., Schaeffer, B., Nakamura, T., John, R. M., Sapp, J. L., Stevenson, W. G., Tedrow, U. B.
2020; 6 (7): 760-769

- **Atrial conduction velocity and risk of recurrent atrial fibrillation after ablation: Time to blank the blanking period?** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*
John, R. M., Mitra, R.
2020; 31 (8): 1950-1952
- **Concomitant leadless pacemaker implantation and lead extraction during an active infection.** *Journal of cardiovascular electrophysiology*
Chang, D., Gabriels, J. K., Soo Kim, B., Ismail, H., Willner, J., Beldner, S. J., John, R. M., Epstein, L. M.
2020; 31 (4): 860-867
- **Characteristics of myocardial tissue staining and lesion creation with an infusion-needle ablation catheter for the treatment of ventricular tachycardia in humans.** *Heart rhythm*
Schaeffer, B., Tanigawa, S., Nakamura, T., Muthalaly, R. G., Sapp, J., John, R., Ghidoli, D., Pellegrini, C., Tedrow, U., Stevenson, W. G.
2020; 17 (3): 398-405
- **Use of Implantable Electronic Devices in Patients With Cardiac Amyloidosis.** *The Canadian journal of cardiology*
John, R. M., Stern, D. L.
2020; 36 (3): 408-415
- **Arrhythmias from the Right Ventricular Moderator Band: Diagnosis and Management.** *Arrhythmia & electrophysiology review*
Barber, M., Chinitz, J., John, R.
2020; 8 (4): 294-299
- **Sustained quality-of-life improvement post-cryoballoon ablation in patients with paroxysmal atrial fibrillation: Results from the STOP-AF Post-Approval Study.** *Heart rhythm*
Jain, S. K., Novak, P. G., Sangrigoli, R., Champagne, J., Dubuc, M., Adler, S. W., Svinarich, J. T., Essebag, V., Martien, M., Anderson, C., John, R. M., Mansour, M., Knight, et al
2020; 17 (3): 485-491
- **Contraindication to Anticoagulation in Nonvalvular Atrial Fibrillation: Are We Still to Fear the Clot and Not the Bleed?** *JACC. Clinical electrophysiology*
John, R. M., Sharma, D.
2019; 5 (12): 1393-1395
- **Sustained Monomorphic Ventricular Tachycardia in Nonischemic Heart Disease: Arrhythmia-Substrate Correlations That Inform the Approach to Ablation.** *Circulation. Arrhythmia and electrophysiology*
Kanagasundram, A., John, R. M., Stevenson, W. G.
2019; 12 (11): e007312