

# Stanford

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## Mohan Viswanathan

Clinical Professor, Medicine - Cardiovascular Medicine

### CLINICAL OFFICES

- **Cardiovascular Medicine**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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### CLINICAL FOCUS

- Clinical Cardiac Electrophysiology
- Tachycardia, Supraventricular
- Catheter Ablation
- Atrial Fibrillation
- Atrial Flutter
- Ventricular Tachycardia
- Wolff-Parkinson-White Syndrome
- Pacemaker implantation
- ICD and Biventricular ICD and pacemaker implantation
- Left atrial appendage closure device implantation
- Leadless pacemaker implantation
- Implantable loop recorder implantation
- Advanced medical therapy and assessment and treatment

### ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Cardiovascular Medicine

### PROFESSIONAL EDUCATION

- Board Certification: Clinical Cardiac Electrophysiology, American Board of Internal Medicine (2019)
- Internship: Hospital of the University of Pennsylvania Pediatrics (2000) PA
- Medical Education: University of California at San Francisco School of Medicine (1999) CA
- Residency: Hospital of the University of Pennsylvania Dept of Internal Medicine (2002) PA
- Fellowship: University of California, San Francisco (2007) CA
- Fellowship: University of California, San Francisco (2005) CA

## LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

## Research & Scholarship

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### CLINICAL TRIALS

- AdaptResponse Clinical Trial, Recruiting

## Publications

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### PUBLICATIONS

- **Electrical Substrate Ablation for Refractory Ventricular Fibrillation: Results of the AVATAR Study.** *Circulation. Arrhythmia and electrophysiology*  
Krummen, D. E., Ho, G. n., Hoffmayer, K. S., Schweis, F. n., Baykaner, T. n., Rogers, A. J., Han, F. T., Hsu, J. C., Viswanathan, M. N., Wang, P. J., Rappel, W. J., Narayan, S. M.  
2021
- **Pulmonary Vein Stenosis and Pulmonary Hypertension Following a Catheter-Based Radiofrequency Ablation for Atrial Fibrillation: A Case Report.** *The American journal of case reports*  
Thomas, C. A., Cruz Morel, K. J., Viswanathan, M. N., de Jesus Perez, V. A.  
2020; 21: e924709
- **Extended cardiac ambulatory rhythm monitoring in adults with congenital heart disease: Arrhythmia detection and impact of extended monitoring** *CONGENITAL HEART DISEASE*  
Schultz, K. E., Lui, G. K., McElhinney, D. B., Long, J., Balasubramanian, V., Sakarovitch, C., Fernandes, S. M., Dubin, A. M., Rogers, I. S., Romfh, A. W., Motonaga, K. S., Viswanathan, M. N., Ceresnak, et al  
2019; 14 (3): 410–18
- **Effect of Catheter Ablation vs Medical Therapy on Quality of Life Among Patients With Atrial Fibrillation The CABANA Randomized Clinical Trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*  
Mark, D. B., Anstrom, K. J., Sheng, S., Piccini, J. P., Baloch, K. N., Monahan, K. H., Daniels, M. R., Bahnson, T. D., Poole, J. E., Rosenberg, Y., Lee, K. L., Packer, D. L., Robb, et al  
2019; 321 (13): 1275–85
- **Year in Review in Cardiac Electrophysiology.** *Circulation. Arrhythmia and electrophysiology*  
Tzou, W. S., Hussein, A. A., Madhavan, M., Viswanathan, M. N., Steinberg, B. A., Ceresnak, S. R., Davis, D. R., Park, D. S., Wang, P. J., Kapa, S.  
2019; 12 (2): e007142
- **Year in Review in Cardiac Electrophysiology** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Tzou, W. S., Hussein, A. A., Madhavan, M., Viswanathan, M. N., Steinberg, B. A., Ceresnak, S. R., Davis, D. R., Park, D. S., Wang, P. J., Kapa, S.  
2019; 12 (2)
- **Extended cardiac ambulatory rhythm monitoring in adults with congenital heart disease: Arrhythmia detection and impact of extended monitoring.** *Congenital heart disease*  
Schultz, K. E., Lui, G. K., McElhinney, D. B., Long, J., Balasubramanian, V., Sakarovitch, C., Fernandes, S. M., Dubin, A. M., Rogers, I. S., Romfh, A. W., Motonaga, K. S., Viswanathan, M. N., Ceresnak, et al  
2019
- **AF Drivers Where Ablation Terminates Persistent AF Fluctuate Due to Competing Drivers but Remain Anchored in Specific Locations**  
Meckler, G. L., Kowalewski, C. A., Rogers, A. J., Rodrigo, M., Clopton, P., Shenasa, F., Alhusseini, M., Swerdlow, M., Joshi, V., Hossainy, S., Zaman, J., Baykaner, T., Brachmann, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Comparing Multiple Mapping Methods at Sites of AF Termination: The COMPARE-AF Registry.**  
Zaman, J. A., Baykaner, T., Meckler, G., Clopton, P., Alhusseini, M., Shenasa, F., Kowalewski, C., Rogers, A., Vidmar, D., Krummen, D., Viswanathan, M., Rappel, W., Brachmann, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Machine Learning Reveals That Drivers for Persistent Atrial Fibrillation at Termination Sites Show Irregular Rotational Cycles and Domain Size**

- Alhousseini, M., Abuzaid, F., Swerdlow, M., Clopton, P., Meckler, G. L., Maniar, N. M., Rogers, A., Rodrigo, M., Baykaner, T., Zaman, J., Kowalewski, C., Shenasa, F., Tamboli, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
- **Rotor Substrate Ablation for Antiarrhythmic-Refractory Ventricular Fibrillation With Infrequent, Multifocal Triggers**  
Krummen, D. E., Ho, G., Hoffmayer, K. S., Schweis, F., Bradshaw, A., Baykaner, T., Wang, P. J., Viswanathan, M. N., Rappel, W., Narayan, S. M.  
LIPPINCOTT WILLIAMS & WILKINS.2018
  - **Year in Review in Cardiac Electrophysiology.** *Circulation. Arrhythmia and electrophysiology*  
Kapa, S., Davis, D. R., Park, D. S., Steinberg, B. A., Viswanathan, M. N., Tzou, W., Madhavan, M., Ceresnak, S. R., Wang, P. J.  
2018; 11 (7): e006648
  - **Year in Review in Cardiac Electrophysiology** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Kapa, S., Davis, D. R., Park, D. S., Steinberg, B. A., Viswanathan, M. N., Tzou, W., Madhavan, M., Ceresnak, S. R., Wang, P. J.  
2018; 11 (7)
  - **Independent mapping methods reveal rotational activation near pulmonary veins where atrial fibrillation terminates before pulmonary vein isolation** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*  
Navara, R., Leef, G., Shenasa, F., Kowalewski, C., Rogers, A. J., Meckler, G., Zaman, J. B., Baykaner, T., Park, S., Turakhia, M. P., Zei, P., Viswanathan, M., Wang, et al  
2018; 29 (5): 687–95
  - **Clinical Implications of Ablation of Drivers for Atrial Fibrillation A Systematic Review and Meta-Analysis** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Baykaner, T., Rogers, A. J., Meckler, G. L., Zaman, J., Navara, R., Rodrigo, M., Alhousseini, M., Kowalewski, C. B., Viswanathan, M. N., Narayan, S. M., Clopton, P., Wang, P. J., Heidenreich, et al  
2018; 11 (5)
  - **CAVOTRICUSPID ISTHMUS ABLATION FOR TREATMENT OF RECURRENT ATRIAL TACHYARRHYTHMIA IN PATIENT WITH DRUG-INDUCED TORSADE DE POINTES AND SEVERE SYSTOLIC HEART FAILURE**  
Rogers, A., Viswanathan, M.  
ELSEVIER SCIENCE INC.2018: 2565
  - **Independent mapping methods reveal rotational activation near pulmonary veins where atrial fibrillation terminates before pulmonary vein isolation.** *Journal of cardiovascular electrophysiology*  
Navara, R., Leef, G., Shenasa, F., Kowalewski, C., Rogers, A. J., Meckler, G., Zaman, J. A., Baykaner, T., Park, S., Turakhia, M. P., Zei, P., Viswanathan, M., Wang, et al  
2018
  - **Clinical Implications of Ablation of Drivers for Atrial Fibrillation: A Systematic Review and Meta-Analysis.** *Circulation. Arrhythmia and electrophysiology*  
Baykaner, T. n., Rogers, A. J., Meckler, G. L., Zaman, J. n., Navara, R. n., Rodrigo, M. n., Alhousseini, M. n., Kowalewski, C. A., Viswanathan, M. N., Narayan, S. M., Clopton, P. n., Wang, P. J., Heidenreich, et al  
2018; 11 (5): e006119
  - **Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Zaman, J. B., Sauer, W. H., Alhousseini, M. I., Baykaner, T., Borne, R. T., Kowalewski, C. B., Busch, S., Zei, P. C., Park, S., Viswanathan, M. N., Wang, P. J., Brachmann, J., Krummen, et al  
2018; 11 (1): e005258
  - **Radiation Safety in Children with Congenital and Acquired Heart Disease: A Scientific Position Statement on Multimodality Dose Optimization from the Image Gently Alliance.** *JACC. Cardiovascular imaging*  
Hill, K. D., Frush, D. P., Han, B. K., Abbott, B. G., Armstrong, A. K., deKemp, R. A., Glatz, A. C., Greenberg, S. B., Herbert, A. S., Justino, H., Mah, D., Mahesh, M., Rigsby, et al  
2017
  - **Multicentre safety of adding Focal Impulse and Rotor Modulation (FIRM) to conventional ablation for atrial fibrillation.** *Europace*  
Krummen, D. E., Baykaner, T., Schricker, A. A., Kowalewski, C. A., Swarup, V., Miller, J. M., Tomassoni, G. F., Park, S., Viswanathan, M. N., Wang, P. J., Narayan, S. M.  
2017; 19 (5): 769-774
  - **What Explains Atrial Fibrillation Mechanisms at Sites Where Ablation Terminates Persistent Atrial Fibrillation Prior to Pulmonary Vein Isolation?**

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Navara, R., Meckler, G. L., Kowalewski, C. B., Shenasa, F., Baykaner, T., Zaman, U. B., Al-Husseini, M., Hossainy, S., Krummen, D., Brachmann, J., Viswanathan, M., Park, S., Turakhia, et al  
WILEY.2017: 607

- **The precise timing of tachycardia entrainment is determined by the postpacing interval, the tachycardia cycle length, and the pacing rate: Theoretical insights and practical applications** *HEART RHYTHM*  
Kaiser, D. W., Hsia, H. H., Dubin, A. M., Liem, L. B., Viswanathan, M. N., Zei, P. C., Wang, P. J., Narayan, S. M., Turakhia, M. P.  
2016; 13 (3): 695-703
- **The precise timing of tachycardia entrainment is determined by the postpacing interval, the tachycardia cycle length, and the pacing rate: Theoretical insights and practical applications.** *Heart rhythm*  
Kaiser, D. W., Hsia, H. H., Dubin, A. M., Liem, L. B., Viswanathan, M. N., Zei, P. C., Wang, P. J., Narayan, S. M., Turakhia, M. P.  
2016; 13 (3): 695-703
- **Right-sided subcutaneous implantable cardioverter-defibrillator placement in a patient with dextrocardia, tetralogy of Fallot, and conduction disease.** *HeartRhythm case reports*  
Ceresnak, S. R., Motonaga, K. S., Rogers, I. S., Viswanathan, M. N.  
2015; 1 (4): 186-189
- **Electrical Integration of Human Embryonic Stem Cell-Derived Cardiomyocytes in a Guinea Pig Chronic Infarct Model** *JOURNAL OF CARDIOVASCULAR PHARMACOLOGY AND THERAPEUTICS*  
Shiba, Y., Filice, D., Fernandes, S., Minami, E., Dupras, S. K., Van Biber, B., Trinh, P., Hirota, Y., Gold, J. D., Viswanathan, M., Laflamme, M. A.  
2014; 19 (4): 368-381
- **Electrical Integration of Human Embryonic Stem Cell-Derived Cardiomyocytes in a Guinea Pig Chronic Infarct Model.** *Journal of cardiovascular pharmacology and therapeutics*  
Shiba, Y. n., Filice, D. n., Fernandes, S. n., Minami, E. n., Dupras, S. K., Biber, B. V., Trinh, P. n., Hirota, Y. n., Gold, J. D., Viswanathan, M. n., Laflamme, M. A.  
2014; 19 (4): 368-81