Stanford



Albert "A.J." Rogers, MD, MBA, FAHA, FHRS

Assistant Professor of Medicine (Cardiovascular Medicine)

Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Medicine**

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Bio

BIO

Dr. Rogers is a board-certified, fellowship-trained cardiologist with the Cardiac Arrhythmia Service at Stanford Health Care. He is Assistant Professor of Medicine in the Division of Cardiovascular Medicine, Department of Medicine at Stanford University School of Medicine.

As a clinical cardiac electrophysiologist, Dr. Rogers' expertise includes evaluating issues involving electrical activity in the heart and how these can lead to an abnormal heart rhythm (arrhythmia). This includes mapping regions in the heart associated with arrhythmias and then applying a minimally invasive therapy (ablation) that targets the responsible areas causing the problem. He also performs procedures to implant cardiac devices, such as pacemakers and defibrillators, designed to synchronize heart contractions and reset irregular heartbeats.

Dr. Rogers specializes in the diagnosis and treatment of atrial fibrillation, ventricular tachycardia, and other arrhythmias. In collaboration with Stanford Medicine cardiovascular surgeons, he performs hybrid surgical-catheter ablation procedures as a more permanent treatment for persistent forms of atrial fibrillation and for inappropriate sinus tachycardia. During this procedure, ablation therapy is applied to areas both inside and outside of the heart responsible for the arrhythmia.

As a physician-researcher, Dr. Rogers' translational research applies biomedical engineering and machine learning approaches to explore the mechanisms underlying cardiac arrhythmia. These efforts include research funded by the National Institutes of Health and the American Heart Association to investigate novel methods for diagnosing and treating heart rhythm disorders. Dr. Rogers has over 15 years of experience with medical technology innovation and development.

Dr. Rogers serves as associate editor of the Journal of Invasive Cardiovascular Electrophysiology. He has been an invited guest speaker at national and international meetings, including those for the American Heart Association and the European Cardiac Arrythmia Society.

CLINICAL FOCUS

- Cardiovascular Medicine

- Cardiac Arrhythmia
- Catheter Ablation
- Implantable Cardioverter Defibrillators
- Supraventricular Tachycardia
- Atrial Fibrillation
- Ventricular Tachycardias
- Sudden Cardiac Death
- Clinical Cardiac Electrophysiology

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

HONORS AND AWARDS

- AHA Career Development Award, American Heart Association (2023)
- NIH K23 Patient-Oriented Research Career Development Award, NIH/NHLBI (2023)
- SVT Pioneer, Center of Excellence, Arrhythmia Alliance (2021)
- Heart Rhythm Society Young Investigator Award 2020 Finalist: Basic Science, Heart Rhythm Society (2020)
- Teaching Tomorrow’s Teachers (3T), Boston Scientific (2020)
- Chief Cardiology Fellow, Stanford University School of Medicine (2019)
- Heart Rhythm Society Clinical Research Award in Honor of Mark Josephson and Hein Wellens (deferred), Heart Rhythm Society (2018)
- Loan Repayment Programs Research Service Award, National Institutes of Health (2018)
- NIH F32 Ruth L Kirschstein National Research Service Award (NRSA) Postdoctoral Fellowship, NIH/NHLBI (2018)
- Stanford Society for Physician Scholars Research Award, Stanford University School of Medicine (2018)
- Alpha Omega Alpha, National Medical Honor Society, University of North Carolina School of Medicine (2014)
- Beta Gamma Sigma, National Scholastic Business Honor Society, University of North Carolina: Kenan-Flagler Business School (2014)
- John B. Graham Research Society, University of North Carolina School of Medicine (2011)
- Medical Alumni Loyalty Fund Scholarship, UNC School of Medicine (2011)
- Eugene S. Mayer Community Service Honor Society, University of North Carolina School of Medicine (2010)
- NIDDK STRT Research Grant, Carolina Medical Student Research Program (2010)
- Departmental Distinction in Biomedical Engineering, Duke University (2009)
- Edmund T. Pratt Undergraduate Research Award, Duke University (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Assistant Editor, Journal of Interventional Cardiac Electrophysiology (2024 - present)
- Research Committee Member, Heart Rhythm Society (2024 - present)
- CLCD Scientific Subcommittee: Arrhythmia and Electrocardiography, American Heart Association (2022 - present)

PROFESSIONAL EDUCATION

- Board Certification: Clinical Cardiac Electrophysiology, American Board of Internal Medicine (2022)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2020)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2017)

- Fellowship: Stanford University Clinical Cardiac Electrophysiology Fellowship (2022) CA
- Fellowship: Stanford University Cardiovascular Medicine Fellowship (2020) CA
- Residency: Stanford University Internal Medicine Residency (2016) CA
- Medical Education: University of North Carolina School of Medicine (2014) NC
- M.D., University of North Carolina , Medicine (2014)
- M.B.A., UNC Kenan-Flagler Business School , Healthcare Entrepreneurship (2014)
- B.S.E., Duke University , Biomedical Engineering, Chemistry, Medicine (2009)

COMMUNITY AND INTERNATIONAL WORK

- Engineering World Health - Costa Rica and Nicaragua

PATENTS

- Stephen C. Masson, Michael Cuchiara, Efrain A. Miranda, Richard A. Glenn, AJ Rogers. "United States Patent US20170189642A1 Systems and methods for neuromodulation therapy of the sympathetic and parasympathetic cardiac nerves", Interventional Autonomics Corporation, Mar 9, 2015

LINKS

- Computational Arrhythmia Research Laboratory: http://narayanlab.stanford.edu/
- Rogers Lab Homepage: https://rogerslab.stanford.edu

Research & Scholarship

CLINICAL TRIALS

- HEAL-IST IDE Trial, Not Specified

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiac Electrophysiology (Fellowship Program)
- Cardiovascular Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Noninvasive Characterization of Atrial and Ventricular Activation and Conduction Velocity by Solid-State Magnetocardiography in a Pre-Clinical Pacing Model**

  Brennan, K., Sillett, C., Bandyopadhyay, S., Lyons, J., Ganesan, P., Ansari, R., Liu, X., Wang, P. J., Narayan, S. M., Rogers, A. J.

  LIPPINCOTT WILLIAMS & WILKINS.2026: A7189

- **AI-ECG Detection of Structural Heart Disease in the Community Setting: Transportability and Spectrum Effects in the PREVUE-VALVE Study.** *Journal of the American College of Cardiology*

  Poterucha, T. J., Hughes, J. W., Brener, M. I., Chuang, M. L., Hamid, N. B., Snyder, C., Thompson, J., Ungarten, J., Takahashi, K., Lindman, B. R., Roedan Oliver, F. A., Finer, J., Hartzel, et al

  2026; 88 (7): 752-764

- **Response by Rogers et al to Letter Regarding, "Deep Learning-Based Continuous QT Monitoring to Identify High-Risk Prolongation Events After Class III Antiarrhythmic Initiation".** *Circulation*

  Rogers, A. J., Bandyopadhyay, S., Ansari, R. A.

  2026; 154 (6): e241-e242

- **Identifying the Presence and Characteristics of Mid-Myocardial and Epicardial Fibrosis From Intracardiac Electrograms in Patients Undergoing Ventricular Arrhythmia Ablation Using a Transformer-Based Self-Supervised Classifier.** *Circulation. Arrhythmia and electrophysiology*

Liu, X., Qayyum, A., Bandyopadhyay, S., Somani, S., Ganesan, P., Ansari, R., Chang, H. J., Perino, A. C., Badhwar, N., Wang, P. J., Niederer, S., Narayan, S. M., Rogers, et al
2026: e014765

- **AMBULATORY ISCHEMIA DETECTION ENABLED THROUGH SPATIALLY-ENCODED DEEP LEARNING OF DERIVED INSERTABLE CARDIAC MONITOR SIGNALS**
  Ansari, R., Bandyopadhyay, S., Ganesan, P., Baykaner, T., Perez, M., Perino, A., Narayan, S. M., Rogers, A. J.
  ELSEVIER SCIENCE INC.2026: A1224
- **AUTOMATIC DIAGNOSTIC TEXT INTERPRETATION FROM 12-LEAD ECGS USING ECG-TEXT JOINT EMBEDDING FOUNDATION MODEL**
  Ganesan, P., Peralta, E., Bandyopadhyay, S., Ruiperez-Campillo, S., Sillett, C., Rogers, A. J., Baykaner, T., Clopton, P., Perino, A., Narayan, S. M.
  ELSEVIER SCIENCE INC.2026
- **PREDICTION OF INCIDENT DEMENTIA IN ATRIAL FIBRILLATION PATIENTS**
  Bandyopadhyay, S., Srivastava, V., Peralta, E., Stringer, J., Ansari, R., Ganesan, P., Deb, B., Clopton, P., Rogers, A. J., Brodt, C., Narayan, S. M.
  ELSEVIER SCIENCE INC.2026: A145
- **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
- **Pulsed Field versus Thermal Ablation for Atrial Fibrillation.** *Trends in cardiovascular medicine*
  Rogers, A. J., Perino, A. C., Narayan, S. M.
  2026
- **Reducing diverse sources of noise in ventricular electrical signals using variational autoencoders** *EXPERT SYSTEMS WITH APPLICATIONS*
  Ruiperez-Campillo, S., Ryser, A., Sutter, T. M., Deb, B., Feng, R., Ganesan, P., Brennan, K. A., Rogers, A. J., Kolk, M. Z. H., Tjong, F. V. Y., Narayan, S. M., Vogt, J. E.
  2026; 300
- **Deep Learning-Based Continuous QT Monitoring to Identify High-Risk Prolongation Events After Class III Antiarrhythmic Initiation.** *Circulation*
  Ansari, R. A., Bandyopadhyay, S., Trivedi, R. K., Brennan, K. A., Liu, X., Ganesan, P., Hughes, J. W., Perino, A. C., Ashley, E. A., Wang, P. J., Coleman, T., Perez, M. V., Ouyang, et al
  2026; 153 (1): 35-46
- **Drivers of prognosis and clinical trajectories differ between COVID and non-COVID acute hypoxic respiratory failure.** *PloS one*
  Pienkos, S., Moore, A. R., Roque, J., Jensen, A., Pacheco-Navarro, A., Lebold, K. M., Parmer-Chow, C., Sanchez, P. A., Morin, H., O'Donnell, C., Ramaswamy, T., Collins, W., Wilson, et al
  2025; 20 (12): e0339604
- **Long-term, ambulatory 12-lead ECG from a single non-standard lead using perceptual reconstruction.** *medRxiv : the preprint server for health sciences*
  Bandyopadhyay, S., Chiu, I. M., Ansari, R., Liu, S., Hughes, J. W., Perino, A. C., Bhatia, N. K., Ouyang, D., Ashley, E. A., Perez, M. V., Zou, J., Narayan, S. M., Rogers, et al
  2025
- **Large Language Modeling-Enabled Analysis of Atrial Fibrillation on Social Media.** *Journal of the American Heart Association*
  Parsa, S., Somani, S., Rogers, A. J., Hernandez-Boussard, T., Jain, S. S., Rodriguez, F.
  2025: e043999
- **Deep Learning-Based Continuous QT Monitoring Identifies High-Risk Prolongation Events After Class III Antiarrhythmic Initiation**
  Rogers, A., Ansari, R., Bandyopadhyay, S., Trivedi, R., Brennan, K., Ganesan, P., Perino, A., Ashley, E., Wang, P., Perez, M., Ouyang, D., Narayan, S.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Development of Personalized Myocardial Surface Mesh Models with LGE Scar Integration: a Pipeline for Machine Learning and Digital Twins**
  Liu, X., Qayyum, A., Ganesan, P., Bandyopadhyay, S., Somani, S., Brennan, K., Wang, P., Niederer, S., Narayan, S., Rogers, A.

LIPPINCOTT WILLIAMS & WILKINS.2025

- **Abstract 4367773: Predicting Peak Heart Rate from Resting 12-Lead ECGs in Patients Undergoing Stress Testing using Deep Learning**
  Liu, X., Bandyopadhyay, S., Ganesan, P., Somani, S., Brennan, K., Karius, A., Baykaner, T., Perino, A., Wang, P., Ashley, E., Perez, M., Narayan, S., Rogers, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **AI-based prediction of mortality in patients with ventricular tachycardia**
  Bandyopadhyay, S., Sadri, S., Brennan, K., Ganesan, P., Clopton, P., Ruiperez-Campillo, S., Peralta, E., Sillett, C., Rogers, A., Narayan, S.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Identifying optimum ECG features to predict sudden cardiac arrest at varying time points before the event**
  Bandyopadhyay, S., Ganesan, P., Brennan, K., Ruiperez-Campillo, S., Ansari, R., Clopton, P., Perino, A., Wang, P., Ashley, E., Perez, M., Narayan, S., Rogers, A.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Novel Foundation Models for Detecting and Generating Text Reports of Atrial Fibrillation from 12-lead ECGs in a Large Registry**
  Ganesan, P., Peralta, E., Ruiperez-Campillo, S., Bandyopadhyay, S., Rogers, A., Chang, H., Brennan, K., Sillett, C., Clopton, P., Perino, A., Niederer, S., Narayan, S.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Automated End-to-End Framework for Extracting Raw ECG Waveforms and ST Segment Values from ECG Reports and Predicting ST Elevation by Machine Learning**
  Ganesan, P., Liu, X., Bandyopadhyay, S., Ansari, R., Somani, S., Brennan, K., Karius, A., Baykaner, T., Perino, A., Wang, P., Ashley, E., Perez, M., Narayan, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Non-Contact Magnetocardiography Localizes Atrial Foci as Accurately as High-Resolution Contact ECG**
  Brennan, K., Bandyopadhyay, S., Ganesan, P., Ansari, R., Somani, S., Liu, X., Baykaner, T., Perino, A., Wang, P., Narayan, S., Rogers, A.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Transformer-based ECG beat foundation model reconstructs full 12-Lead morphology, vectorcardiogram and predicts peak heart rate in stress ECG**
  Bandyopadhyay, S., Liu, X., Ganesan, P., Somani, S., Karius, A., Baykaner, T., Wang, P., Ashley, E., Perez, M., Narayan, S., Rogers, A.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Longitudinal Evaluation of Anti-Arrhythmic Drug Use to Predict Hospitalization or Death in Patients with Ventricular Tachycardia**
  Sadri, S., Brennan, K., Bandyopadhyay, S., Ganesan, P., Desai, Y., Peralta, E., Feng, R., Sillett, C., Ruiperez-Campillo, S., Wang, P., Clopton, P., Rogers, A., Narayan, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Large Language Models Detect Ventricular Tachycardia Recurrence in Clinical Notes and Enable Prediction of Clinical Outcomes at Scale**
  Sadri, S., Brennan, K., Bandyopadhyay, S., Desai, Y., Ganesan, P., Peralta, E., Feng, R., Sillett, C., Ruiperez-Campillo, S., Wang, P., Clopton, P., Rogers, A., Narayan, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Biophysics-inspired deep learning for improved denoising in ventricular signals in ischemic cardiomyopathy**
  Ruiperez-Campillo, S., Rau, M., Ganesan, P., Feng, R., Brennan, K. A., Kolk, M. H., Tjong, F. Y., Rogers, A. J., Narayan, S. M., Vogt, J. E.
  OXFORD UNIV PRESS.2025

- **Large language models can estimate atrial fibrillation burden and infer progression without ecgs from the electronic healthcare record**
  Brennan, K., Feng, R., Goyal, J., Chang, H. J., Deb, B., Bandyopadhyay, S., Ansari, R., Srivastava, Ganesan, P., Ruiperez-Campillo, S., Clopton, P., Baykaner, T., De Larochelliere, H., et al
  OXFORD UNIV PRESS.2025

- **A deep learning phenome wide association study of the electrocardiogram.** *European heart journal. Digital health*
  Hughes, J. W., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al
  2025; 6 (4): 595-607

- **Physics-Inspired Diffusion Probabilistic Models for Improved Denoising in Intracardiac Time Series.** *Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Annual International Conference*

Ruiperez-Campillo, S., Rau, M., Ganesan, P., Brennan, K. A., Feng, R., Bandyopadhyay, S., Rogers, A. J., Narayan, S. M., Vogt, J. E.
2025; 2025: 1-5

- **A deep learning phenome wide association study of the electrocardiogram** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*
  Hughes, J., Theurer, J., Vukadinovic, M., Rogers, A. J., Somani, S., Kang, G., Ghazizadeh, Z., O'Sullivan, J. W., Jain, S. S., Gomes, B., Salerno, M., Ashley, E., Zou, et al
  2025
- **Deep learning on electrocardiogram waveforms to stratify risk of obstructive stable coronary artery disease.** *European heart journal. Digital health*
  Trivedi, R. K., Chiu, I. M., Hughes, J. W., Rogers, A. J., Ouyang, D.
  2025; 6 (3): 456-465
- **Cardiovascular imaging techniques for electrophysiologists.** *Nature cardiovascular research*
  Rogers, A. J., Reynbakh, O., Ahmed, A., Chung, M. K., Charate, R., Yarmohammadi, H., Gopinathannair, R., Khan, H., Lakkireddy, D., Leal, M., Srivatsa, U., Trayanova, N., Wan, et al
  2025; 4 (5): 514-525
- **Non-Cardiac and Cardiac Risk for Ischemic Stroke in Young Adults: The Stanford Y-CORE (Young Cardiovascular Outcomes and Risk Evaluation) Study.** *International journal of stroke : official journal of the International Stroke Society*
  Deb, B., Vasireddi, S., Bhatia, N. K., Rogers, A. J., Clopton, P., Heidenreich, P., Baykaner, T., Wang, P. J., Perino, A. C., Narayan, S. M.
  2025: 17474930251338611
- **Deep learning on electrocardiogram waveforms to stratify risk of obstructive stable coronary artery disease** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*
  Trivedi, R. K., Chiu, I., Hughes, J., Rogers, A. J., Ouyang, D.
  2025
- **CONTINUOUS LONG-TERM QT INTERVAL MONITORING USING SPATIALLY ENCODED DEEP LEARNING OF DERIVED IMPLANTABLE CARDIAC MONITOR SIGNALS**
  Ansari, R., Bandyopadhyay, S., Brennan, K., Srivastava, V., Ganesan, P., Feng, R., Baykaner, T., Perez, M., Perino, A., Narayan, S. M., Rogers, A. J.
  ELSEVIER SCIENCE INC.2025: 24
- **LARGE LANGUAGE MODELS IDENTIFY ATRIAL FIBRILLATION PROGRESSION ON UNPRECEDENTED SCALE**
  Brennan, K., Feng, R., Goyal, J., Chang, H., Deb, B., Srivastava, V., Ganesan, P., Bandyopadhyay, S., Ansari, R., Ruiperez-Campilo, S., Clopton, P., De Larocheliere, H., Rogers, et al
  ELSEVIER SCIENCE INC.2025: 237
- **PROMPT-ENGINEERING OPTIMIZED CHATGPT AS A GENERAL TOOL FOR ANALYZING COMPLEX ELECTRONIC HEALTH RECORDS**
  Feng, R., Brennan, K., Ganesan, P., Goyal, J., Deb, B., Azizi, Z., Chang, H., Ruiperez-Campilo, S., Clopton, P., Baykaner, T., Rogers, A. J., Narayan, S. M.
  ELSEVIER SCIENCE INC.2025: 120
- **Advances in Electrocardiogram-Based Artificial Intelligence Reveal Multisystem Biomarkers.** *Journal of clinical & experimental cardiology*
  Liu, X., Bandyopadhyay, S., Rogers, A. J.
  2025; 16 (2)
- **Comparing Phenotypes for Acute and Long-Term Response to Atrial Fibrillation Ablation Using Machine Learning.** *Circulation. Arrhythmia and electrophysiology*
  Ganesan, P., Pedron, M., Feng, R., Rogers, A. J., Deb, B., Chang, H. J., Ruiperez-Campillo, S., Srivastava, V., Brennan, K. A., Giles, W., Baykaner, T., Clopton, P., Wang, et al
  2025: e012860
- **Identification of cardiac wall motion abnormalities in diverse populations by deep learning of the electrocardiogram.** *NPJ digital medicine*
  Rogers, A. J., Bhatia, N. K., Bandyopadhyay, S., Tooley, J., Ansari, R., Thakkar, V., Xu, J., Soto, J. T., Tung, J. S., Alhusseini, M. I., Clopton, P., Sameni, R., Clifford, et al
  2025; 8 (1): 21
- **Advances in Electrocardiogram-Based Artificial Intelligence Reveal Multisystem Biomarkers.** *Journal of clinical & experimental cardiology*
  Liu, X., Bandyopadhyay, S., Rogers, A. J.
  2025; 16 (2)

- **ConvexECG: Lightweight and Explainable Neural Networks for Personalized, Continuous Cardiac Monitoring**
  Ansari, R., Cao, J., Bandyopadhyay, S., Narayan, S. M., Rogers, A. J., Pilanci, M., IEEE
  IEEE.2025

- **Identification of atrial myopathy and atrial fibrillation recurrence after ablation using 3D left atrial phasic strain from retrospective gated computed tomography.** *European heart journal. Imaging methods and practice*
  Sillett, C., Razeghi, O., Baptiste, T. M., Lee, A. W., Solis Lemus, J. A., Rodero, C., Roney, C. H., Feng, R., Ganesan, P., Chang, H. J., Clopton, P., Linton, N., Rajani, et al
  2025; 3 (1): qyaf027

- **Engineering of Generative Artificial Intelligence and Natural Language Processing Models to Accurately Identify Arrhythmia Recurrence.** *Circulation. Arrhythmia and electrophysiology*
  Feng, R., Brennan, K. A., Azizi, Z., Goyal, J., Deb, B., Chang, H. J., Ganesan, P., Clopton, P., Pedron, M., Ruipe Rez-Campillo, S., Desai, Y., De Larochellière, H., Baykaner, et al
  2024: e013023

- **Comparing 1-Year and 3-Year Outcomes of Atrial Fibrillation Ablation**
  Srivastava, V., Deb, B., Chang, H., Ganesan, P., Brennan, K., Feng, R., Rogers, A., Baykaner, T., Wang, P., Clopton, P., Brodt, C., Narayan, S.
  LIPPINCOTT WILLIAMS & WILKINS.2024

- **Serum Potassium Monitoring Using AI-Enabled Smartwatch Electrocardiograms.** *JACC. Clinical electrophysiology*
  Chiu, I. M., Wu, P. J., Zhang, H., Hughes, J. W., Rogers, A. J., Jalilian, L., Perez, M., Lin, C. R., Lee, C. T., Zou, J., Ouyang, D.
  2024

- **Periprocedural Management and Multidisciplinary Care Pathways for Patients With Cardiac Implantable Electronic Devices: A Scientific Statement From the American Heart Association.** *Circulation*
  Wan, E. Y., Rogers, A. J., Lavelle, M., Marcus, M., Stone, S. A., Ottoboni, L., Srivatsa, U., Leal, M. A., Russo, A. M., Jackson, L. R., Crossley, G. H.
  2024; 150 (8): e183-e196

- **Novel Domain Knowledge-Encoding Algorithm Enables Label-Efficient Deep Learning for Cardiac CT Segmentation to Guide Atrial Fibrillation Treatment in a Pilot Dataset.** *Diagnostics (Basel, Switzerland)*
  Ganesan, P., Feng, R., Deb, B., Tjong, F. V., Rogers, A. J., Ruipérez-Campillo, S., Somani, S., Clopton, P., Baykaner, T., Rodrigo, M., Zou, J., Haddad, F., Zaharia, et al
  2024; 14 (14)

- **Simple models vs. deep learning in detecting low ejection fraction from the electrocardiogram.** *European heart journal. Digital health*
  Hughes, J. W., Somani, S., Elias, P., Tooley, J., Rogers, A. J., Poterucha, T., Haggerty, C. M., Salerno, M., Ouyang, D., Ashley, E., Zou, J., Perez, M. V.
  2024; 5 (4): 427-434

- **Competing Risks for Monomorphic versus Non-Monomorphic Ventricular Arrhythmias in Primary Prevention Implantable Cardioverter Defibrillator Recipients: Global Electrical Heterogeneity and Clinical Outcomes (GEHCO) Study.** *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*
  Tereshchenko, L. G., Waks, J. W., Tompkins, C., Rogers, A. J., Ehdaie, A., Henrikson, C. A., Dalouk, K., Raitt, M., Kewalramani, S., Kattan, M. W., Santangeli, P., Wilkoff, B. W., Kapadia, et al
  2024

- **Simple models vs. deep learning in detecting low ejection fraction from the electrocardiogram** *EUROPEAN HEART JOURNAL - DIGITAL HEALTH*
  Hughes, J., Somani, S., Elias, P., Tooley, J., Rogers, A. J., Poterucha, T., Haggerty, C. M., Salerno, M., Ouyang, D., Ashley, E., Zou, J., Perez, M.
  2024

- **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

- **Just in time: detecting cardiac arrest with smartwatch technology.** *The Lancet. Digital health*
  Somani, S., Rogers, A. J.

2024; 6 (3): e148-e149

- **Just in time: detecting cardiac arrest with smartwatch technology** *LANCET DIGITAL HEALTH*
  Somani, S., Rogers, A.
  2024; 6 (3): e148-e149
- **Latent drivers for atrial fibrillation and specific patterns of localized fibrosis.** *Cardiovascular research*
  Rogers, A. J., Narayan, S. M.
  2024
- **Spatially Conserved Spiral Wave Activity During Human Atrial Fibrillation.** *Circulation. Arrhythmia and electrophysiology*
  Rappel, W. J., Baykaner, T., Zaman, J., Ganesan, P., Rogers, A. J., Narayan, S. M.
  2024: e012041
- **Race, Sex, and Age Disparities in the Performance of ECG Deep Learning Models Predicting Heart Failure.** *Circulation. Heart failure*
  Kaur, D., Hughes, J. W., Rogers, A. J., Kang, G., Narayan, S. M., Ashley, E. A., Perez, M. V.
  2023: e010879
- **Novel Regional Analysis of Left Atrial Strain From Computed Tomography Separates Patients With Persistent versus Paroxysmal Atrial Fibrillation**
  Sillett, C., Razeghi, O., Lee, A., Lemus, J., Roney, C., Ganesan, P., Feng, R., Chubb, H., Nieman, K., Rogers, A. J., Rajani, R.
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Enhanced Identification of Cardiac Wall Motion Abnormalities: An Externally Validated Deep Neural Network Approach Outperforms Expert and Quantitative Analysis of Electrocardiograms**
  Rogers, A. J., Bhatia, N., Tooley, J., Thakkar, V., Xu, J., Ansari, R., Torres, J., Tung, J., Alhusseini, M., Clopton, P. L., Sameni, R., Clifford, G., Ashley, et al
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Impact of Regional Cardiac Wall Motion Abnormalities on Ejection Fraction and Mortality: Large Data Enabled by Natural Language Processing**
  Rogers, A. J., Bhatia, N. K., Tooley, J., Thakkar, V., Xu, J., Ansari, R., Torres, J., Tung, J., Alhusseini, M., Clopton, P. L., Sameni, R., Clifford, G.
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Logic-Based Natural Language Processing Identifies VT Recurrence in the Electronic Health Record**
  Brennan, K. A., Feng, R., Goyal, J., Azizi, Z., Baykaner, T., Rogers, A. J., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Sleep Apnea and Incident Atrial Fibrillation : Implications for Targeted Screening**
  Deb, B., Vasireddi, S. K., Bhatia, N., Rogers, A. J., Perino, A. C., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Separating Patients With Long-Term Success versus Acute Response From Atrial Fibrillation Ablation Using Explainable Machine Learning**
  Ganesan, P., Pedron, M., Feng, R., Ruiperez-Campillo, S., Rogers, A. J., Deb, B., Chang, H., Brennan, K. A., Srivastava, V., Clopton, P. L., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2023
- **Sleep apnea independently predicts incident atrial fibrillation in the young - Implications for targeted screening**
  Deb, B., Vasireddi, S. K., Bhatia, N. K., Rogers, A. J., Clopton, P., Narayan, S. M.
  OXFORD UNIV PRESS.2023
- **Predicting success of atrial fibrillation ablation: comparing machine learning approaches of intracardiac electrograms**
  Feng, R., Ganesan, P., Deb, B., Ruiperez-Campillo, S., Chang, H. J., Clopton, P., Rogers, A. J., Rodrigo, M., Tjong, F. Y., Zaharia, M., Narayan, S. M.
  OXFORD UNIV PRESS.2023
- **Novel scoring system for predicting mortality in patients with ventricular arrhythmias: Analysis from a 24,000 patient cohort**
  Deb, B., Rogers, A. J., Tjong, F. Y., Somani, S., Desai, Y., Azizi, Z., Chang, H. J., Bhatia, N. K., Clopton, P., Narayan, S. M.
  OXFORD UNIV PRESS.2023
- **Segmenting computed tomograms for cardiac ablation using machine learning leveraged by domain knowledge encoding.** *Frontiers in cardiovascular medicine*

Feng, R., Deb, B., Ganesan, P., Tjong, F. V., Rogers, A. J., Ruipérez-Campillo, S., Somani, S., Clopton, P., Baykaner, T., Rodrigo, M., Zou, J., Haddad, F., Zahari, et al

2023; 10: 1189293

- **Advances in cardiac pacing with leadless pacemakers and conduction system pacing.** *Current opinion in cardiology*

  Somani, S., Rogers, A. J.

  2023

- **Optimising Patient Selection for Primary Prevention ICD Implantation: Utilising Multimodal Machine Learning to Assess Risk of ICD Non-Benefit.** *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*

  Kolk, M. Z., Ruiperez-Campillo, S., Deb, B., Bekkers, E., Allaart, C. P., Rogers, A. J., Van Der Lingen, A. C., Alvarez Florez, L., Isgum, I., De Vos, B., Clopton, P., Wilde, A. A., Knops, et al

  2023

- **A deep learning-based electrocardiogram risk score for long term cardiovascular death and disease.** *NPJ digital medicine*

  Hughes, J. W., Tooley, J., Torres Soto, J., Ostropolets, A., Poterucha, T., Christensen, M. K., Yuan, N., Ehlert, B., Kaur, D., Kang, G., Rogers, A., Narayan, S., Elias, et al

  2023; 6 (1): 169

- **Safety of transvenous cardiac defibrillator and magnetic titanium beads system for gastroesophageal reflux disease: a case report.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*

  Vasireddi, S. K., Greif, S., Fazal, M., Wei, C., Gomez, S., Shah, S., Rogers, A. J., Narayan, S. M., Wang, P. J., Kapoor, R., Baykaner, T.

  2023

- **Evaluating Recommendations About Atrial Fibrillation for Patients and Clinicians Obtained From Chat-Based Artificial Intelligence Algorithms.** *Circulation. Arrhythmia and electrophysiology*

  Azizi, Z., Alipour, P., Gomez, S., Broadwin, C., Islam, S., Sarraju, A., Rogers, A. J., Sandhu, A. T., Rodriguez, F.

  2023: e012015

- **Comparative arrhythmia patterns among patients on tyrosine kinase inhibitors.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*

  Wei, C., Fazal, M., Loh, A., Kapoor, R., Gomez, S. E., Shah, S., Rogers, A. J., Narayan, S. M., Wang, P. J., Witteles, R. M., Perino, A. C., Cheng, P., Rhee, et al

  2023

- **Atrial Fibrillation Ablation Outcome Prediction with a Machine Learning Fusion Framework Incorporating Cardiac Computed Tomography.** *Journal of cardiovascular electrophysiology*

  Razeghi, O., Kapoor, R., Alhusseini, M. I., Fazal, M., Tang, S., Roney, C. H., Rogers, A. J., Lee, A., Wang, P. J., Clopton, P., Rubin, D. L., Narayan, S. M., Niederer, et al

  2023

- **Quantifying a spectrum of clinical response in atrial tachyarrhythmias using spatiotemporal synchronization of electrograms.** *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*

  Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Rogers, A. J., Clopton, P., Wang, P. J., Zeemering, S., Schotten, U., Rappel, W., Narayan, S. M.

  2023

- **Can Machine Learning Disrupt the Prediction of Sudden Death?** *Journal of the American College of Cardiology*

  Narayan, S. M., Rogers, A. J.

  2023; 81 (10): 962-963

- **VENTRICULAR TACHYCARDIA PREDICTS ATRIAL FIBRILLATION RECURRENCE POST ABLATION: A PROPENSITY SCORE-MATCHED ANALYSIS OF A LARGE PROSPECTIVE STUDY**

  Azizi, Z., Deb, B., Feng, R., Ganesan, P., Rogers, A. J., Chang, H., Clopton, P., Narayan, S. M.

  ELSEVIER SCIENCE INC.2023: 186

- **OBSTRUCTIVE SLEEP APNEA PORTENDS STROKE IN YOUNG INDIVIDUALS WITHOUT ATRIAL FIBRILLATION: A LARGE REGISTRY STUDY**

  Deb, B., Vasireddi, S., Bhatia, N. K., Rogers, A. J., Clopton, P., Baykaner, T., Ganesan, P., Feng, R., Azizi, Z., Narayan, S. M.

  ELSEVIER SCIENCE INC.2023: 130

- **Artificial Intelligence in cardiac electrophysiology** *Artificial Intelligence in Clinical Practice*
  Somani, S., Narayan, S. M., Rogers, A. J.
  Elsevier.2023

- **Optimizing ChatGPT to Detect VT Recurrence From Complex Medical Notes**
  Feng, R., Brennan, K. A., Azizi, Z., Goyal, J., Pedron, M., Chang, H., Ganesan, P., Ruiperez-Campillo, S., Deb, B., Clopton, P. L., Baykaner, T., Rogers, A. J., Narayan, et al
  2023

- **Improving Cardiac Segmentation for Atrial Fibrillation Ablation: A Prospective Trial of Machine Learned Geometric Dissection vs Experts**
  Feng, R., Deb, B., Ganesan, P., Tjong, F. V., Ruiperez-Campillo, S., Clopton, P. L., Rogers, A. J., Somani, S., Rodrigo, M., Zou, J., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Spectrum of Clinical Response in Atrial Tachyarrhythmias Identified by Spatiotemporal Synchronization of Electrograms**
  Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Rogers, A. J., Clopton, P. L., Wang, P. J., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A11304

- **Improving Cardiac Segmentation for Atrial Fibrillation Ablation: A Prospective Trial of Machine Learned Geometric Dissection vs Experts**
  Feng, R., Deb, B., Ganesan, P., Tjong, F., Ruiperez-Campillo, S., Clopton, P. L., Rogers, A. J., Somani, S., Rodrigo, M., Zou, J., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A15172

- **ECG-Derived Features Enable Prediction of Sudden Death in Ischemic Cardiomyopathy**
  Ruiperez-Campillo, S., Deb, B., Selvalingam, A., Feng, R., Ganesan, P., Tjong, F., Chang, H., Kolk, M. Z. H., Kowalewski, C., Vasireddi, S. K., Goyal, J., Rogers, A. J., Clopton, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022: A11648

- **Machine Learning of Action Potential Shape to Define Refractory Periods in Ischemiccardiomyopathy**
  Ruiperez-Campillo, S., Deb, B., Selvalingam, A., Feng, R., Ganesan, P., Tjong, F., Chang, H., Kowalewski, C., Kolk, M. Z. H., Clopton, P. L., Vasireddi, S. K., Rogers, A. J., Narayan, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022: A11651

- **Automatic Left Atrial Volume and Sphericity Index Calculation From Cardiac CT Using Computer Graphics Imaging and Deep Learning**
  Feng, R., Deb, B., Ganesan, P., Tjong, F., Rogers, A. J., Ruiperez-Campillo, S., Somani, S., Rodrigo, M., Clopton, P. L., Zou, J., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A15312

- **Intelligent Machine Learning Fusion Framework Predicts Atrial Fibrillation Ablation Outcomes With Demographic, Morphological, and Imaging Features**
  Fazal, M., Rogers, A. J., Kapoor, R., Wang, P. J., Narayan, S. M., Razeghi, O., Baykaner, T.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A15924

- **Multivariate Predictors of Long-Term Outcome From Ventricular Tachycardia Ablation in a Large Registry**
  Goyal, J., Deb, B., Le Menestrel, T., Chang, H., Tjong, F., Rogers, A. J., Azizi, Z., Ruiperez-Campillo, S., Feng, R., Ganesan, P., Baykaner, T., John, R., Perez, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022: A14115

- **Arrhythmia Patterns in Patients Managed With and Without Tyrosine Kinase Inhibitors**
  Wei, C., Fazal, M., Kapoor, R., Cheng, P., Rogers, A. J., Perino, A. C., Narayan, S. M., Rhee, J. W., Baykaner, T.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A13833

- **Machine Learning to Probe Variability in Patient Outcomes After Atrial Fibrillation Ablation - The Stanford AF Registry (start)**
  Deb, B., Bhatia, N., Rogers, A. J., Baykaner, T., Chang, H., Clopton, P. L., Ganesan, P., Feng, R., Ruiperez-Campillo, S., Turakhia, M., Perino, A. C., Perez, M., Zei, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022: A12117

- **Intelligent Machine Learning Fusion Framework Predicts Atrial Fibrillation Ablation Outcomes With Demographic, Morphological, and Imaging Features**
  Fazal, M., Rogers, A. J., Kapoor, R., Wang, P. J., Narayan, S. M., Razeghi, O., Baykaner, T.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Arrhythmia Patterns in Patients Managed With and Without Tyrosine Kinase Inhibitors**
  Wei, C., Fazal, M., Kapoor, R., Cheng, P., Rogers, A. J., Perino, A. C., Narayan, S. M., Rhee, J. W., Baykaner, T.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Machine Learning to Probe Variability in Patient Outcomes After Atrial Fibrillation Ablation - The Stanford AF Registry (start)**
  Deb, B., Bhatia, N., Rogers, A. J., Baykaner, T., Chang, H., Clopton, P. L., Ganesan, P., Feng, R., Ruiperez-Campillo, S., Turakhia, M., Perino, A. C., Perez, M. V., Zei, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Multivariate Predictors of Long-Term Outcome From Ventricular Tachycardia Ablation in a Large Registry**
  Goyal, J., Deb, B., Le Menestrel, T., Chang, H., Tjong, F. V., Rogers, A. J., Azizi, Z., Ruiperez-Campillo, S., Feng, R., Ganesan, P., Baykaner, T., John, R., Perez, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Machine Learning of Action Potential Shape to Define Refractory Periods in Ischemiccardiomyopathy**
  Ruiperez-Campillo, S., Deb, B., Selvalingam, A., Feng, R., Ganesan, P., Tjong, F. V., Chang, H., Kowalewski, C., Kolk, M. Z. H., Clopton, P. L., Vasireddi, S. K., Rogers, A. J., Narayan, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Spectrum of Clinical Response in Atrial Tachyarrhythmias Identified by Spatiotemporal Synchronization of Electrograms**
  Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Rogers, A. J., Clopton, P. L., Wang, P. J., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Automatic Left Atrial Volume and Sphericity Index Calculation From Cardiac CT Using Computer Graphics Imaging and Deep Learning**
  Feng, R., Deb, B., Ganesan, P., Tjong, F. V., Rogers, A. J., Ruiperez-Campillo, S., Somani, S., Rodrigo, M., Clopton, P. L., Zou, J., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **ECG-Derived Features Enable Prediction of Sudden Death in Ischemic Cardiomyopathy**
  Ruiperez-Campillo, S., Deb, B., Selvalingam, A., Feng, R., Ganesan, P., Tjong, F. V., Chang, H., Kolk, M. Z. H., Kowalewski, C., Vasireddi, S. K., Goyal, J., Rogers, A. J., Clopton, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Machine learned clusters explain heterogeneity in outcomes from map-guided ablation of Atrial Fibrillation results from the large PROspective STanford AF Registry (ProSTAR)**
  Deb, B., Rogers, A. J., Bhatia, N. K., Baykaner, T., Turakhia, M., Clopton, P. L., Chang, H. J., Brodt, C., Narayan, S. M., Wang, P. J., Viswanathan, M. N.
  OXFORD UNIV PRESS.2022: 474

- **Automatic left atrial segmentation from cardiac CT using computer graphics imaging and deep learning**
  Feng, R., Deb, B., Ganesan, P., Rogers, A. J., Ruiperez-Campillo, S., Clopton, P., Tjong, F. V., Chang, H. J., Rodrigo, M., Zaharia, M., Narayan, S. M.
  OXFORD UNIV PRESS.2022: 472

- **Novel electrogram featurization reveals a spectrum of response to ablation from atrial tachycardia to types of atrial fibrillation**
  Ganesan, P., Rogers, A. J., Deb, B., Feng, R., Ruiperez-Campillo, S., Tjong, F. V., Bhatia, N., Clopton, P., Rappel, W. J., Narayan, S. M.
  OXFORD UNIV PRESS.2022: 471

- **Artificial intelligence to reduce artifact in cardiac electrophysiological signals**
  Ruiperez-Campillo, S., Deb, B., Feng, R., Ganesan, P., Tjong, F. Y., Clopton, P., Rogers, A. J., Narayan, S. M.
  OXFORD UNIV PRESS.2022: 422

- **Reduction of artifacts and noise in small electrogram datasets without manual annotation using transfer machine learning**
  Ruiperez-Campillo, S., Deb, B., Feng, R., Ganesan, P., Tjong, F. Y., Clopton, P., Rogers, A. J., Narayan, S. M.
  OXFORD UNIV PRESS.2022: 2976

- **Automatic left atrial segmentation from cardiac CT using computer graphics imaging and deep learning**
  Feng, R., Deb, B., Ganesan, P., Rogers, A. J., Ruiperez-Campillo, S., Clopton, P., Tjong, F. V., Chang, H. J., Rodrigo, M., Zaharia, M., Narayan, S. M.
  OXFORD UNIV PRESS.2022: 472

- **Differential Cardiac Remodeling Profile Of Immunosuppression Drugs**

Sallam, K., Thomas, D., Gaddam, S., Lopez, N., Beck, A., Dexheimer, R., Beach, L. Y., Rogers, A. J., Zhang, H., Chen, I. Y., Ameen, M., Hiesinger, W., Teuteberg, et al
LIPPINCOTT WILLIAMS & WILKINS.2022

- **Machine Learning-Enabled Multimodal Fusion of Intra-Atrial and Body Surface Signals in Prediction of Atrial Fibrillation Ablation Outcomes.** *Circulation. Arrhythmia and electrophysiology*
  Tang, S., Razeghi, O., Kapoor, R., Alhusseini, M. I., Fazal, M., Rogers, A. J., Rodrigo Bort, M., Clopton, P., Wang, P., Rubin, D., Narayan, S. M., Baykaner, T.
  2022: 101161CIRCEP122010850

- **Mapping Atrial Fibrillation After Surgical Therapy to Guide Endocardial Ablation.** *Circulation. Arrhythmia and electrophysiology*
  Bhatia, N. K., Shah, R. L., Deb, B., Pong, T., Kapoor, R., Rogers, A., Badhwar, N., Brodt, C., Wang, P. J., Narayan, S. M., Lee, A. M.
  2022: 101161CIRCEP121010502

- **Modeling Effects of Immunosuppressive Drugs on Human Hearts Using Induced Pluripotent Stem Cell-Derived Cardiac Organoids and Single-Cell RNA Sequencing.** *Circulation*
  Sallam, K., Thomas, D., Gaddam, S., Lopez, N., Beck, A., Beach, L., Rogers, A. J., Zhang, H., Chen, I. Y., Ameen, M., Hiesinger, W., Teuteberg, J. J., Rhee, et al
  2022; 145 (17): 1367-1369

- **Atrial fibrillation signatures on intracardiac electrograms identified by deep learning.** *Computers in biology and medicine*
  Rodrigo, M., Alhusseini, M. I., Rogers, A. J., Krittanawong, C., Thakur, S., Feng, R., Ganesan, P., Narayan, S. M.
  2022; 145: 105451

- **TARGETING SYNCHRONIZED ELECTROGRAM ISLANDS WITHIN ATRIAL FIBRILLATION FOR ABLATION**
  Ganesan, P., Deb, B., Feng, R., Rodrigo, M., Ruiperez-Campillo, S., Bhatia, N. K., Rogers, A. J., Clopton, P., Rappel, W., Narayan, S. M.
  ELSEVIER SCIENCE INC.2022: 3

- **A MORPHOLOGICAL OPERATION-BASED APPROACH TO AUTOMATICALLY SEPARATE AND LABEL LEFT ATRIUM BODY AND PULMONARY VEINS**
  Feng, R., Ganesan, P., Deb, B., Rogers, A. J., Ruiperez-Campillo, S., Rodrigo, M., Zaharia, M., Clopton, P., Rappel, W., Narayan, S. M.
  ELSEVIER SCIENCE INC.2022: 1244

- **UNSUPERVISED MACHINE LEARNING IDENTIFIES PHENOTYPES FOR ATRIAL FIBRILLATION THAT PREDICT ACUTE ABLATION SUCCESS**
  Deb, B., Ganesan, P., Feng, R., Bhatia, N. K., Rogers, A. J., Ruiperez-Campillo, S., Clopton, P., Narayan, S. M.
  ELSEVIER SCIENCE INC.2022: 51

- **Wide Complex QRS During Sotalol Administration.** *JAMA cardiology*
  Rogers, A. J., Wang, P. J., Badhwar, N.
  1800

- **Spatially Synchronized Electrogram Islands Within Atrial Fibrillation Predict Termination by Ablation**
  Ganesan, P., Deb, B., Bhatia, N., Rodrigo, M., Feng, R., Alhusseini, M., Rogers, A. J., Krummen, D., Clopton, P. L., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2021

- **Spatial Electrical Synchronization in Patients With Atrial Fibrillation and Atrial Tachycardia**
  Ganesan, P., Deb, B., Rodrigo, M., Feng, R., Bhatia, N., Rogers, A. J., Krummen, D., Wang, P. J., Clopton, P. L., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2021

- **Immediate and Delayed Response of Simulated Human Atrial Myocytes to Clinically-Relevant Hypokalemia** *FRONTIERS IN PHYSIOLOGY*
  Clerx, M., Mirams, G. R., Rogers, A. J., Narayan, S. M., Giles, W. R.
  2021; 12: 651162

- **CONSISTENT SPATIOTEMPORAL VECTORS IN ATRIAL FIBRILLATION PREDICT RESPONSE TO ABLATION**
  Ganesan, P., Bhatia, N., Beck, T. C., Ravi, N., Rogers, A., Krummen, D., Wang, P., Rappel, W., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 334

- **CLASSIFICATION OF INDIVIDUAL ATRIAL INTRACARDIAC ELECTROGRAMS BY DEEP LEARNING**
  Rodrigo, M., Rogers, A., Ganesan, P., Krittanawong, C., Alhusseini, M., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 3217

- **PROBING MACHINE LEARNING TO SEPARATE ATRIAL FIBRILLATION FROM OTHER ARRHYTHMIAS**
  Rodrigo, M., Rogers, A., Ganesan, P., Alhusseini, M., Krittanawong, C., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 3410

- **MACHINE LEARNING CLASSIFIES INTRACARDIAC ELECTROGRAMS OF ATRIAL FIBRILLATION FROM OTHER ARRHYTHMIAS**
  Rodrigo, M., Rogers, A., Ganesan, P., Krittanawong, C., Alhusseini, M., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 279

- **VALIDATING NON-INVASIVE INDICES OF AF COMPLEXITY AGAINST INTRACARDIAC MEASUREMENTS**
  Rodrigo, M., Alhusseini, M., Rogers, A., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 1354

- **IDENTIFICATION OF AREAS OF ORGANIZED 1:1 ACTIVITY IN ATRIAL FIBRILLATION IN PATIENTS POST MAZE SURGERY**
  Bhatia, N. K., Shah, R., Ganesan, P., Rogers, A., Pong, T., Purewal, S., Baykaner, T., Wang, P., Lee, A., Rappel, W., Narayan, S.
  ELSEVIER SCIENCE INC.2021: 333

- **Non-invasive Spatial Mapping of Frequencies in Atrial Fibrillation: Correlation With Contact Mapping** *FRONTIERS IN PHYSIOLOGY*
  Rodrigo, M., Waddell, K., Magee, S., Rogers, A. J., Alhusseini, M., Hernandez-Romero, I., Costoya-Sanchez, A., Liberos, A., Narayan, S. M.
  2021; 11

- **Competing Risks in Patients with Primary Prevention Implantable Cardioverter-Defibrillators: Global Electrical Heterogeneity and Clinical Outcomes (GEHCO) Study.** *Heart rhythm*
  Waks, J. W., Haq, K. T., Tompkins, C. n., Rogers, A. J., Ehdaie, A. n., Bender, A. n., Minnier, J. n., Dalouk, K. n., Howell, S. n., Peiris, A. n., Raitt, M. n., Narayan, S. M., Chugh, et al
  2021

- **Deep Neural Network Trained on Surface ECG Improves Diagnostic Accuracy of Prior Myocardial Infarction Over Q Wave Analysis**
  Yildirim, O., Baloglu, U. B., Talo, M., Ganesan, P., Tung, J. S., Kang, G., Tooley, J., Alhusseini, M., Baykaner, T., Wang, P. J., Perez, M., Tereshchenko, L., Narayan, et al
  IEEE.2021

- **Arrhythmia Patterns in Patients on Ibrutinib.** *Frontiers in cardiovascular medicine*
  Fazal, M., Kapoor, R., Cheng, P., Rogers, A. J., Narayan, S. M., Wang, P., Witteles, R. M., Perino, A. C., Baykaner, T., Rhee, J.
  1800; 8: 792310

- **Three dimensional reconstruction to visualize atrial fibrillation activation patterns on curved atrial geometry.** *PloS one*
  Abad, R., Collart, O., Ganesan, P., Rogers, A. J., Alhusseini, M. I., Rodrigo, M., Narayan, S. M., Rappel, W.
  2021; 16 (4): e0249873

- **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

- **Arrhythmias Other Than Atrial Fibrillation in Those With an Irregular Pulse Detected With a Smartwatch: Findings From the Apple Heart Study.** *Circulation. Arrhythmia and electrophysiology*
  Perino, A. C., Gummidipundi, S. E., Lee, J., Hedlin, H., Garcia, A., Ferris, T., Balasubramanian, V., Gardner, R. M., Cheung, L., Hung, G., Granger, C. B., Kowey, P., Rumsfeld, et al
  2021: CIRCEP121010063

- **Role of 3.3fr Mapping Catheters in Defining and Ablating Mechanisms of Ventricular Arrhythmias: A Multicenter Experience**
  Rogers, A. J., Greif, S., Perino, A. C., Shah, R. L., Viswanathan, M. N., Tholakanahalli, V. N., Singh, D., Badhwar, N.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Machine Learning of the Electrocardiogram to Detect Regional Structural Abnormalities of the Heart**
  Rogers, A. J., Tooley, J., Thakkar, V., Torres, J., Xu, J., Bhatia, N. K., Tung, J., Alhusseini, M., Baykaner, T., Clifford, G., Zaharia, M., Ashley, E. A., Perez, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Deep Learning of Intracardiac Electrograms in Atrial Arrhythmia**

Rodrigo, M., Rogers, A. J., Ganesan, P., Alhusseini, M., Narayan, S. M.
LIPPINCOTT WILLIAMS & WILKINS.2020

- **Sotalol-induced Wide Complex Rhythm: What is the Mechanism?**
  Rogers, A. J., Wang, P. J., Badhwar, N.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Classification of Atrial Fibrillation by Deep Learning of Electrogram Shapes versus Rate and Regularity**
  Rodrigo, M., Rogers, A. J., Ganesan, P., Alhusseini, M., Xu, J., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Islands of Organized 1:1 Conduction Within Atrial Fibrillation as Potential Targets for Ablation**
  Ganesan, P., Bhatia, N. K., Rogers, A. J., Krummen, D. E., Alhusseini, M., Clopton, P., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Machine Learned Cellular Phenotypes Predict Outcome in Ischemic Cardiomyopathy.** *Circulation research*
  Rogers, A. J., Selvalingam, A., Alhusseini, M. I., Krummen, D. E., Corrado, C., Abuzaid, F., Baykaner, T., Meyer, C., Clopton, P., Giles, W. R., Bailis, P., Niederer, S. A., Wang, et al
  2020

- **Comparing machine learning approaches to identify myocardial scar from the ECG**
  Tung, J., Rogers, A. J., Ravi, N., Bhatia, N. K., Shah, R. L., Purewal, S. K., Baykaner, T., Rappel, W. J., Viswanathan, M. N., Brodt, C. R., Wang, P. J., Clifford, G., Tereshchenko, et al
  OXFORD UNIV PRESS.2020: 2048

- **Integration of novel monitoring devices with machine learning technology for scalable cardiovascular management.** *Nature reviews. Cardiology*
  Krittanawong, C., Rogers, A. J., Johnson, K. W., Wang, Z., Turakhia, M. P., Halperin, J. L., Narayan, S. M.
  2020

- **Machine Learning to Classify Intracardiac Electrical Patterns during Atrial Fibrillation.** *Circulation. Arrhythmia and electrophysiology*
  Alhusseini, M. I., Abuzaid, F., Rogers, A. J., Zaman, J. A., Baykaner, T., Clopton, P., Bailis, P., Zaharia, M., Wang, P. J., Rappel, W., Narayan, S. M.
  2020

- **PREDICTING SUDDEN CARDIAC DEATH BY MACHINE LEARNING OF VENTRICULAR ACTION POTENTIALS**
  Selvalingam, A., Alhusseini, M., Rogers, A. J., Krummen, D., Abuzaid, F. M., Baykaner, T., Clopton, P., Bailis, P., Zaharia, M., Wang, P., Narayan, S.
  ELSEVIER SCIENCE INC.2020: 427

- **LARGER ORGANIZED AREAS IN PERSISTENT ATRIAL FIBRILLATION PREDICTS TERMINATION DURING ABLATION**
  Ravi, N., Rogers, A. J., Bhatia, N., Tung, J. S., Krummen, D., Sauer, W., Alhusseini, M., Baykaner, T., Wang, P., Rappel, W., Narayan, S.
  ELSEVIER SCIENCE INC.2020: 279

- **Non-invasive Spatial Mapping of Frequencies in Atrial Fibrillation: Correlation With Contact Mapping.** *Frontiers in physiology*
  Rodrigo, M., Waddell, K., Magee, S., Rogers, A. J., Alhusseini, M., Hernandez-Romero, I., Costoya-Sánchez, A., Liberos, A., Narayan, S. M.
  2020; 11: 611266

- **The interconnected atrium: Acute impact of pulmonary vein isolation on remote atrial tissue.** *Journal of cardiovascular electrophysiology*
  Rogers, A. J., Baykaner, T. n., Narayan, S. M.
  2020

- **Non-invasive Assessment of Complexity of Atrial Fibrillation: Correlation with Contact Mapping and Impact of Ablation** *Circulation: Arrhythmia and Electrophysiology*
  Rodrigo, M., Climent, A. M., Hernández-Romero, I., et al
  2020

- **Continuous Ablation Improves Lesion Maturation Compared with Intermittent Ablation Strategies.** *Journal of cardiovascular electrophysiology*
  Rogers, A. J., Borne, R. T., Ho, G. n., Sauer, W. H., Wang, P. J., Narayan, S. M., Zheng, L. n., Nguyen, D. T.
  2020

- **Non-Invasive Assessment of Complexity of Atrial Fibrillation: Correlation with Contact Mapping and Impact of Ablation.** *Circulation. Arrhythmia and electrophysiology*

Rodrigo, M. n., Climent, A. M., Hernández-Romero, I. n., Liberos, A. n., Baykaner, T. n., Rogers, A. J., Alhusseini, M. n., Wang, P. J., Fernández-Avilés, F. n., Guillem, M. S., Narayan, S. M., Atienza, F. n.
2020

- **Termination of persistent atrial fibrillation by ablating sites that control large atrial areas.** *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*
  Bhatia, N. K., Rogers, A. J., Krummen, D. E., Hossainy, S. n., Sauer, W. n., Miller, J. M., Alhusseini, M. I., Peszek, A. n., Armenia, E. n., Baykaner, T. n., Brachmann, J. n., Turakhia, M. P., Clopton, et al
  2020

- **Letter in reply: Continuous radiofrequency ablation in scar-based arrhythmia substrate.** *Journal of cardiovascular electrophysiology*
  Rogers, A. J., Nguyen, D. T.
  2020

- **Presence of Ablation of Atrial Organized Zones May Predict Response to Ablation**
  Rogers, A. J., Bhatia, N. K., Alhusseini, M., Moosvi, N. F., Baykaner, T., Brodt, C., Clopton, P. L., Wang, P. J., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Ablation of Sites That Control Large Areas During Atrial Fibrillation Cause Acute Termination**
  Rogers, A. J., Bhatia, N. K., Alhusseini, M., Moosvi, N. F., Baykaner, T., Brodt, C., Clopton, P., Wang, P. J., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Developing Convolutional Neural Networks for Deep Learning of Ventricular Action Potentials to Predict Risk for Ventricular Arrhythmias**
  Selvalingam, A., Alhusseini, M., Rogers, A. J., Krummen, D. E., Abuzaid, F. M., Zaman, J. A., Baykaner, T., Clopton, P. L., Bailis, P., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Machine Learning of Remodeled Ventricular Action Potentials and Long-Term Follow-Up of Ventricular Arrhythmias**
  Rogers, A. J., Alhusseini, M., Selvalingam, A., Krummen, D. E., Abuzaid, F., Zaman, J. A., Baykaner, T., Clopton, P., Bailis, P., Zaharia, M., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Ablation of Sites That Control Large Areas During Atrial Fibrillation Cause Acute Termination**
  Rogers, A. J., Bhatia, N. K., Alhusseini, M., Moosvi, N. F., Baykaner, T., Brodt, C., Clopton, P., Wang, P. J., Rappel, W., Narayan, S. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019

- **Electrographic flow mapping in persistent atrial fibrillation**
  Baykaner, T., Alhusseini, M., Rogers, A., Sauer, W., Ruppersberg, P., Narayan, S.
  WILEY.2019: 1745–46

- **Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation.** *Circulation. Arrhythmia and electrophysiology*
  Leef, G., Shenasa, F., Bhatia, N. K., Rogers, A. J., Sauer, W., Miller, J. M., Swerdlow, M., Tamboli, M., Alhusseini, M. I., Armenia, E., Baykaner, T., Brachmann, J., Turakhia, et al
  2019; 12 (8): e006835

- **Propagation velocity at atrial fibrillation sources: Go with the flow** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Rogers, A. J., Bhatia, N. K., Brodt, C. R., Narayan, S. M.
  2019; 286: 76–77

- **Editorial: High density mapping of atrial fibrillation sources** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*
  Rogers, A. J., Bhatia, N. K., Brodt, C., Narayan, S. M.
  2019; 30 (6): 964–65

- **Comparing phase and electrographic flow mapping for persistent atrial fibrillation** *PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY*
  Swerdlow, M., Tamboli, M., Alhusseini, M. I., Moosvi, N., Rogers, A. J., Leef, G., Wang, P. J., Rillig, A., Brachmann, J., Sauer, W. H., Ruppersberg, P., Narayan, S. M., Baykaner, et al
  2019; 42 (5): 499–507

- **Predictability in complex atrial arrhythmias: The N/N-1 algorithm to guide ablation of atrial tachycardias** *HEART RHYTHM*

Kaiser, D. W., Rogers, A. J., Narayan, S. M.
2019; 16 (4): 562–63

- **SITES THAT CONTROL LARGER AREAS DURING ATRIAL FIBRILLATION MAY DETERMINE TERMINATION DURING ABLATION**
  Bhatia, N. K., Hossainy, S., Rogers, A., Alhusseini, M., Brodt, C., Moosvi, N., Baykaner, T., Wang, P., Rappel, W., Narayan, S.
  ELSEVIER SCIENCE INC.2019: 400

- **INTRACLASS CORRELATIONS OF VOLTAGE, FRACTIONATED ELECTROGRAMS, AND DOMINANT FREQUENCY IN PATIENTS WHERE LOCALIZED ABLATION TERMINATED PERSISTENT ATRIAL FIBRILLATION**
  Rogers, A. J., Moosvi, N., Singh, A., Alhusseini, M., Baykaner, T., Clopton, P., Rappel, W., Wang, P., Narayan, S.
  ELSEVIER SCIENCE INC.2019: 521

- **MACHINE LEARNING IDENTIFIES SITES WHERE ABLATION TERMINATES PERSISTENT ATRIAL FIBRILLATION**
  Alhusseini, M., Abuzaid, F., Clopton, P., Rogers, A., Rodrigo, M., Baykaner, T., Wang, P., Rappel, W., Narayan, S.
  ELSEVIER SCIENCE INC.2019: 301

- **Structurally-based electrical predictors of atrial arrhythmias** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
  Rogers, A. J., Moosvi, N. F., Brodt, C. R., Narayan, S. M.
  2019; 278: 151–52

- **Integrating blockchain technology with artificial intelligence for cardiovascular medicine.** *Nature reviews. Cardiology*
  Krittanawong, C. n., Rogers, A. J., Aydar, M. n., Choi, E. n., Johnson, K. W., Wang, Z. n., Narayan, S. M.
  2019

- **Large-Scale Assessment of a Smartwatch to Identify Atrial Fibrillation.** *The New England journal of medicine*
  Perez, M. V., Mahaffey, K. W., Hedlin, H., Rumsfeld, J. S., Garcia, A., Ferris, T., Balasubramanian, V., Russo, A. M., Rajmane, A., Cheung, L., Hung, G., Lee, J., Kowey, et al
  2019; 381 (20): 1909–17

- **Editorial: High density mapping of atrial fibrillation sources.** *Journal of cardiovascular electrophysiology*
  Rogers, A. J., Bhatia, N. K., Brodt, C. n., Narayan, S. M.
  2019

- **Online webinar training to analyse complex atrial fibrillation maps: A randomized trial.** *PloS one*
  Mesquita, J. n., Maniar, N. n., Baykaner, T. n., Rogers, A. J., Swerdlow, M. n., Alhusseini, M. I., Shenasa, F. n., Brizido, C. n., Matos, D. n., Freitas, P. n., Santos, A. R., Rodrigues, G. n., Silva, et al
  2019; 14 (7): e0217988

- **Dielectric-Based Imaging And Navigation Of The Heart.** *Heart rhythm*
  Rogers, A. J., Narayan, S. M.
  2019

- **Structurally-based electrical predictors of atrial arrhythmias.** *International journal of cardiology*
  Rogers, A. J., Moosvi, N. F., Brodt, C. R., Narayan, S. M.
  2018

- **Predictability in Complex Atrial Arrhythmias: the N/N-1 Algorithm to Guide Ablation of Atrial Tachycardias.** *Heart rhythm*
  Kaiser, D. W., Rogers, A. J., Narayan, S. M.
  2018

- **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

- **Electrode Density is Greater at Sites Where Ablation Acutely Terminates Atrial Fibrillation**
  Rogers, A. J., Juan, R. C., Collart, O., Swerdlow, M., Alhusseini, M., Rodrigo, M., Kowalewski, C., Baykaner, T., Zaman, J., Wang, P. J., Rappel, W., Narayan, S. M.
  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

- **Sites Where Ablation Terminated Atrial Fibrillation Identified by Machine Learning Models**

  Alhusseini, M., Abuzaid, F., Swerdlow, M., Meckler, G., Clopton, P., Rogers, A., Rodrigo, M., Baykaner, T., Zaman, J., Kowalewski, C., Shenasa, F., Atienza, F., Mohan, 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**

  Alhusseini, 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

- **Vector Propagation Automatically Identifies Sites of Termination of Persistent Atrial Fibrillation by Ablation**

  Leef, G., Shenasa, F., Rogers, A. J., Baykaner, T., Atienza, F., Wang, P. J., Rappel, W., Narayan, S. M.

  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Procedural and Clinical Determinants of Acute Success of Driver Ablation for Persistent Atrial Fibrillation**

  Baykaner, T., Rogers, A. J., Rodrigo, M., Alhusseini, M., Zaman, J. A., Wang, P. J., Narayan, S. M., Spitzer, S., Szili-Torok, T.

  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Localized Driver Regions That Control Larger Regions of the Atria May Be Critical to Sustaining Atrial Fibrillation: Analyses From Novel Vector Mapping**

  Leef, G., Shenasa, F., Sauer, W., Miller, J. M., Vidmar, D., Swerdlow, M. A., Tomboli, M., Rogers, A. J., Alhusseini, M., Armenia, E., Baykaner, T., Brachmann, J., Atienza, et al

  LIPPINCOTT WILLIAMS & WILKINS.2018

- **Integrating mapping methods for atrial fibrillation.** *Pacing and clinical electrophysiology : PACE*

  Rogers, A. J., Tamboli, M., Narayan, S. M.

  2018

- **Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation: Reconciling Putative Mechanisms Using Multiple Mapping Techniques** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*

  Kowalewski, C. A. B., Shenasa, F., Rodrigo, M., Clopton, P., Meckler, G., Alhusseini, M. I., Swerdlow, M. A., Joshi, V., Hossainy, S., Zaman, J. A. B., Baykaner, T., Rogers, A. J., Brachmann, et al

  2018; 11 (6): e005846

- **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., Alhusseini, M., Kowalewski, C. A. B., Viswanathan, M. N., Narayan, S. M., Clopton, P., Wang, P. J., Heidenreich, et al

  2018; 11 (5)

- **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. B., Baykaner, T., Park, S., Turakhia, M. P., Zei, P., Viswanathan, M., Wang, et al

  2018; 29 (5): 687–95

- **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., Alhusseini, M. n., Kowalewski, C. A., Viswanathan, M. N., Narayan, S. M., Clopton, P. n., Wang, P. J., Heidenreich, et al
  2018; 11 (5): e006119

- **Minimizing Radiation in the Modern Electrophysiology Laboratory.** *The Journal of innovations in cardiac rhythm management*
  Rogers, A. J., Brodt, C. R.
  2018; 9 (8): 3265–70

- **Minimizing Radiation in the Modern Electrophysiology Laboratory** *The Journal of Innovations in Cardiac Rhythm Management*
  Rogers, A. J., Brodt, C. R.
  2018; 2018 (9): 3265-3270

- **Rotational Drivers in Atrial Fibrillation: Are Multiple Techniques Circling Similar Mechanisms?** *Circulation. Arrhythmia and electrophysiology*
  Zaman, J. A., Rogers, A. J., Narayan, S. M.
  2017; 10 (12)

- **Rotational Drivers in Atrial Fibrillation Are Multiple Techniques Circling Similar Mechanisms?** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*
  Zaman, J. A. B., Rogers, A. J., Narayan, S. M.
  2017; 10 (12)

- **Mechanisms for Persistent Atrial Fibrillation - Comparing Multiple Mapping Methods at Sites of Termination: The International COMPARE-AF Registry**
  Baykaner, T., Zaman, J., AlHusseini, M., Vidmar, D., Meckler, G., Shenasa, F., Kowalewski, C., Rogers, A. J., Rodrigo, M., Krummen, D. E., Peters, N. S., Wang, P. J., Brachmann, et al
  LIPPINCOTT WILLIAMS & WILKINS.2017

- **Drivers of persistent atrial fibrillation: do focal or rotational regions differ in their stability over time?**
  Navara, R., Leef, G., Shenasa, F., Meckler, G., Kowalewski, C., Baykaner, T., Alhusseini, M., Hossainy, S., Joshi, V., Rogers, A. J., Zaman, J., Park, S., Zei, et al
  OXFORD UNIV PRESS.2017: 638

- **Drivers of Persistent Atrial Fibrillation: Are Focal and Rotational Sites Transient or Stable Over Time?**
  Navara, R., Leef, G., Shenasa, F., Kowalewski, C., Baykaner, T., Rogers, A., Zaman, J., Park, H., Zei, P., Wang, P. J., Narayan, S. M.
  WILEY.2017: 606–7

- **Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias.** *International journal of cardiology*
  Baykaner, T. n., Zaman, J. A., Rogers, A. J., Navara, R. n., AlHusseini, M. n., Borne, R. T., Park, S. n., Wang, P. J., Krummen, D. E., Sauer, W. H., Narayan, S. M.
  2017; 248: 188–95

- **Editorial commentary: What can lung transplantation teach us about the mechanisms of atrial arrhythmias?** *Trends in cardiovascular medicine*
  Baykaner, T. n., Rogers, A. J., Zaman, J. A., Narayan, S. M.
  2017

- **The impact of endoscopic ultrasound findings on clinical decision making in Barrett's esophagus with high-grade dysplasia or early esophageal adenocarcinoma.** *Diseases of the esophagus : official journal of the International Society for Diseases of the Esophagus*
  Bulsiewicz, W. J., Dellon, E. S., Rogers, A. J., Pasricha, S., Madanick, R. D., Grimm, I. S., Shaheen, N. J.
  2014; 27 (5): 409-17

- **FMN fluorescence in inducible NOS constructs reveals a series of conformational states involved in the reductase catalytic cycle** *FEBS JOURNAL*
  Ghosh, D. K., Ray, K., Rogers, A. J., Nahm, N. J., Salerno, J. C.
  2012; 279 (7): 1306-1317

- **A High-Fiber Diet Does Not Protect Against Asymptomatic Diverticulosis** *GASTROENTEROLOGY*
  Peery, A. F., Barrett, P. R., Park, D., Rogers, A. J., Galanko, J. A., Martin, C. F., Sandler, R. S.

2012; 142 (2): 266-U158

- **Dietary Fiber is Not Associated With Diverticulosis**
  Peery, A. F., Barrett, P. R., Park, D., Rogers, A. J., Locklear, T., Galanko, J. A., Martin, C. F., Sandler, R. S.
  W B SAUNDERS CO-ELSEVIER INC.2011: S61

- **Simulation of Autonomous Robotic Multiple-Core Biopsy by 3D Ultrasound Guidance** *ULTRASONIC IMAGING*
  Liang, K., Rogers, A. J., Light, E. D., von Allmen, D., Smith, S. W.
  2010; 32 (2): 118-127

- **THREE-DIMENSIONAL ULTRASOUND GUIDANCE OF AUTONOMOUS ROBOTIC BREAST BIOPSY: FEASIBILITY STUDY** *ULTRASOUND IN MEDICINE AND BIOLOGY*
  Liang, K., Rogers, A. J., Light, E. D., von Allmen, D., Smith, S. W.
  2010; 36 (1): 173-177

- **3-D Ultrasound Guidance of Autonomous Robot for Location of Ferrous Shrapnel** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*
  Rogers, A. J., Light, E. D., Smith, S. W.
  2009; 56 (7): 1301-1303

- **Real-time 3D ultrasound guidance of autonomous surgical robot for shrapnel detection and breast biopsy**
  Rogers, A. J., Light, E. D., von Allmen, D., Smith, S. W.
  Medical Imaging 2009: Ultrasonic Imaging and signal Processing.
  2009

- **Function of the reductase unit of nitric oxide synthase: Catalytic model**
  Ghosh, D. K., Vogelien, D. L., Assan-Menash, I. B., Causer, L. M., Dinsmore, N. E., Rogers, A. G., Weinberg, J., Salerno, J. C.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2008: S50