Stanford

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

Instructor, Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Medicine**

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  Stanford, CA 94305

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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 also an instructor of medicine in the Division of Cardiovascular Medicine, Department of Medicine at Stanford University School of Medicine.

As a clinical cardiac electrophysiologist, Dr. Rogers' training includes evaluating issues involving electrical activity in the heart and how these can lead to an abnormal heart rhythm (arrhythmia). His expertise 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 10 years of experience with medical technology innovation and development.

Dr. Rogers serves as associate editor of the Journal of Invasive Cardiovascular Electrophysiology. He is also a peer reviewer for multiple prestigious journals, including Heart Rhythm, The Lancet: Digital Health, the Journal of the American College of Cardiology: Clinical Electrophysiology, and Frontiers in Physiology. 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

- Instructor, Medicine - Cardiovascular Medicine
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Chief Cardiology Fellow, Stanford University School of Medicine
- Loan Repayment Programs Research Service Award, National Institutes of Health
- Medical Alumni Loyalty Fund Scholarship, UNC School of Medicine
- NIDDK STRT grant, Carolina Medical Student Research Program
- UNC Graduate and Professional Student Federation Travel Grant, UNC School of Medicine
- 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)
- Heart Rhythm Society Clinical Research Award in Honor of Mark Josephson and Hein Wellens (deferred), Heart Rhythm Society (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)
- Eugene S. Mayer Community Service Honor Society, University of North Carolina School of Medicine (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)

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/

Research & Scholarship

CLINICAL TRIALS

- HEAL-IST IDE Trial, Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **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
- **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
- **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
- **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
- **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
- **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
- **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

- **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

- **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

- **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

- **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

- **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

- **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
- **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
- **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
- **Advances in Electrocardiogram-Based Artificial Intelligence Reveal Multisystem Biomarkers.** *Journal of clinical & experimental cardiology*
  Liu, X., Bandyopadhyay, S., Rogers, A. J.
  2025; 16 (2)
- **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
- **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

- **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*
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