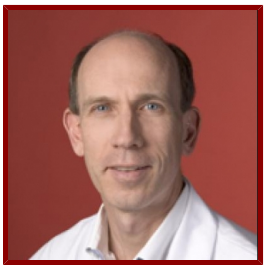
Stanford



Michael V. McConnell, MD, MSEE

Clinical Professor, Medicine - Cardiovascular Medicine

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Preventive Cardiology Clinic**

  300 Pasteur Dr Rm A265

  MC 5319

  Stanford, CA 94305

  Tel (650) 723-6459 **Fax** (650) 724-1444

Bio

BIO

Dr. McConnell is a native of Brooklyn, NY and attended the Massachusetts Institute of Technology, obtaining his BS and MS in Electrical/Biomedical Engineering, followed by his MD at Stanford University. He returned to Boston and specialized in Cardiovascular Medicine and Cardiovascular Imaging at Brigham and Women's and Beth Israel Hospitals and then joined the faculty at Harvard Medical School, where he also obtained an MS in Clinical Investigation. His early research discovery in echocardiography has become known as "McConnell's sign."

He joined the faculty at Stanford in 1998 and went on to become Professor of Cardiovascular Medicine and (by courtesy) Electrical Engineering and Molecular & Cellular Physiology. He was Director of Cardiovascular MRI, Preventive Cardiology Clinic, and Cardiovascular Health Innovation at Stanford and also founded and directed the Cardiovascular Imaging at Stanford (CVIS) NIH training program. He was the Principal Investigator for multiple NIH and American Heart Association (AHA) research grants as well as the top-enrolling MyHeart Counts mobile health research study launching Apple's ResearchKit. In 2015 he joined Google/Alphabet leading cardiovascular and digital health projects, including development, validation, and FDA clearances for mobile/wearable devices and AI software with Verily, Google Health, and Fitbit. He is now the Chief Health Officer at Toku to advance AI and retinal imaging for screening and prevention of major health conditions.

Dr. McConnell continues to see patients in the Stanford Preventive Cardiology Clinic, mentor in the Stanford Biodesign program, and advise multiple health tech startups. He has published over 130 peer-reviewed articles and is a Fellow of the AHA, the American College of Cardiology (ACC), the Society for Cardiovascular Magnetic Resonance, and the American Society of Echocardiography. He is a founding member of the AHA's Health Technologies Advisory Group and co-chaired AHA's 2030 Impact Goal task force and the ACC-Consumer Technology Association's guidance on Cardiovascular Technology Solutions. In 2022, Dr. McConnell was appointed by the Secretary of the U.S. Department of Health and Human Services to the Board of Directors of the National Fitness Foundation. His book, Fight Heart Disease Like Cancer, was published by Hopkins Press in January 2024.

CLINICAL FOCUS

- Preventive Cardiology

- Cardiovascular Imaging
- Mobile Health
- Coronary Artery Disease
- Cardiovascular Disease

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Preventive Cardiology Clinic, Stanford, (2014-2015)
- Director, Cardiovascular Health Innovation, Stanford, (2014-2015)
- PI, MyHeart Counts study, Stanford, (2014-2015)
- Director, Cardiovascular Health Advanced Treatment Center for Coronary Artery Disease, Stanford, (2012-2015)
- Director, Preventive Cardiology Clinic, Stanford, (2010-2013)
- Director, NIH/NIBIB T32 Training Program in Cardiovascular Imaging @ Stanford (CVIS), Stanford, (2008-2015)
- Co-Director, Noninvasive Imaging Section, Stanford Division of Cardiovascular Medicine, Stanford, (2007-2015)
- Member, Molecular Imaging Program at Stanford (MIPS) Faculty, Stanford, (2003- present)
- Physician Representative, Stanford Pharmacy and Therapeutics Committee, Stanford, (2001-2011)
- Director, Cardiovascular MRI Program, Stanford Division of Cardiovascular Medicine, Stanford, (2000-2015)
- Associate Director, Stanford Cardiovascular Medicine Fellowship Program, Stanford, (2000-2012)

HONORS AND AWARDS

- Brian L. Strom Visiting Professorship, University of Pennsylvania Perelman School of Medicine (2018)
- Research Scholarship/Aquitaine Region, Fulbright Foundation (2008)
- Diversity & Leadership Faculty Fellow, Stanford (2007)
- Department of Medicine Teaching Award, Stanford (2002)
- Doris Duke Clinical Scientist Award, Stanford (1999)
- American Heart Association Clinician Scientist Award, Brigham & Women's Hospital/Harvard Medical School (1996)
- Fellowship, Harvard/MIT Clinical Investigator Training Program, Harvard/MIT (1996)
- SCA&I Fellowship Award for Research in Cardiac Imaging, Bracco Diagnostics, Inc (1995)
- NHLBI Individual National Research Service Award, Brigham & Women's Hospital/Harvard Medical School (1994)
- Stanford Dean's Awards for Research, Excellence in Clinical Medicine, and Outstanding Teaching, Stanford (1990)
- Elected to Eta Kappa Nu, Tau Beta Pi, and Sigma Xi, MIT (1981, '82, '84)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Vice Chair, Board of Directors, National Fitness Foundation (2022 - present)
- Innovation Work Group on Cardiovascular Point-of-Care Ultrasound (POCUS), American College of Cardiology (2021 - present)
- Co-Chair,CTA-ACC Cardiovascular Technology Solutions, Consumer Technology Association and American College of Cardiology (2021 - 2022)
- Co-Chair, 2030 Impact Goal Task Force, American Heart Association (2017 - 2020)
- Health & Fitness Technology Working Groups, Consumer Technology Assoc (2016 - 2022)

- Health Tech Advisory Group, Founding Member, American Heart Association (2014 - present)
- Program Chair, Society for Cardiovascular Magnetic Resonance (2014 - 2015)
- Fellow, American Society of Echocardiography (2007 - present)
- Fellow, American Heart Association (2007 - present)
- Fellow, American College of Cardiology (1998 - present)
- Fellow, Founding member, Society for Cardiovascular Magnetic Resonance (1996 - present)
- Member, International Society for Magnetic Resonance in Medicine (1994 - 2016)

PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2019)
- Board Certification: Adult Echocardiography, National Board of Echocardiography (2007)
- Medical Education: Stanford University School of Medicine (1990) CA
- Fellowship: Brigham and Women's Hospital Cardiovascular Disease Fellowship (1996) MA
- Residency: Brigham and Women's Hospital Internal Medicine Residency (1992) MA
- Internship: Brigham and Women's Hospital Internal Medicine Residency (1991) MA
- M.M.Sc., Harvard Medical School , Clinical Investigation (1998)
- S.M., Massachusetts Institute of Technology , Electrical Engineering/BioEE (1985)
- S.B., Massachusetts Institute of Technology , Electrical Engineering/BioEE (1983)

COMMUNITY AND INTERNATIONAL WORK

- National Fitness Foundation

PATENTS

- McConnell MV, Wu HH. "United States Patent 10,219,787 Respiratory Mode (“R-Mode”) – Acquisition and Display of Cardiovascular Images to Show Respiratory Effects", Leland Stanford Junior University, Mar 5, 2019
- Tee CK, Chen LY, Bao Z, Lipomi D, McConnell MV, Wong HSP, Poon ASY. "United States Patent 9,848,775 Passive and Wireless Pressure Sensor", Leland Stanford Junior University, Dec 26, 2017

LINKS

- Preventive Cardiology Clinic: https://stanfordhealthcare.org/medical-clinics/preventive-cardiology.html
- Stanford Biodesign: http://biodesign.stanford.edu/
- MyHeart Counts mHealth study: http://myheartcounts.stanford.edu
- CVIS imaging training program: http://med.stanford.edu/cvi/education/cardiovascular-imaging-t32.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My overarching interest is the detection and prevention of cardiovascular disease.

I have spent the majority of my research career with a focus on imaging cardiovascular disease for early detection and to guide therapy. I have been particularly interested in studying coronary and vascular diseases, including atherosclerosis and aortic aneurysms. Projects include MRI for both noninvasive coronary angiography and cellular/structural characterization of atherosclerotic plaque and aortic aneurysms, as well as other molecular imaging techniques (bioluminescence, fluorescence, and PET) for the assessment of vascular inflammation in pre-clinical models and patients. Additional collaborative projects included coronary CTA and cardiac MRI of ischemic heart disease and stem cell therapy.

My prevention research has expanded beyond early detection to study innovative mobile health technologies in patients and populations. I directed the effort of Stanford Cardiovascular Health to leverage mHealth to improve cardiovascular care, through patient studies to enhance heart-healthy activities, sensor development, remote monitoring/detection, and collaboration with the Stanford Biomedical Data Sciences Initiative, Center for Longevity, and Prevention Research Center. I led the development of the MyHeart Counts mHealth research study launched as part of Apple's ResearchKit.

I have continued to pursue novel AI and digital health technologies for the prevention and care of cardiovascular disease, first at Google/Fitbit and then as Chief Health Officer at Toku while continuing part-time clinical and teaching activities at Stanford.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Heart failure and atrial fibrillation prediction from non-gated chest CT scans using AI-based cardiac chamber volumetry: an AI-CVD study within the multi-ethnic study of atherosclerosis (MESA).** *American journal of preventive cardiology*
  Mirjalili, S. R., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Ghaffari Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al
  2027; 31: 101732

- **Comparison of AI-enabled cardiac chambers volumetry based on non-gated chest CT scans with echocardiography: An AI-CVD study within the Multi-Ethnic Study of Atherosclerosis (MESA).** *American journal of preventive cardiology*
  Mirjalili, S. R., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Ghaffari Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al
  2027; 31: 101731

- **Agatston-2.0: A next-generation AI-based coronary calcium quantification approach to improve risk stratification among individuals with zero Agatston scores - Part I: An AI-CVD Study within the Multi-Ethnic Study of Atherosclerosis and Framingham Heart Study.** *American journal of preventive cardiology*
  Naghavi, M., Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Mirjalili, S. R., Mozafarybazargany, M., Jolfayi, A. G., Hashemi, A., Atlas, T., Wasserthal, J., Vliegenthart, R., Henschke, et al
  2026; 30: 101698

- **Agatston-2.0: A Next-Generation AI-Based Coronary Calcium Quantification Framework Associated with Non-Calcified Plaque Burden Among Individuals with Zero Agatston Scores- Part II An AI-CVD Study Within the Miami Heart Study**
  Azimi, A., Atlas, K., Reeves, A., Zhang, C., Mirjalili, S., Mozafarybazargany, M., Ghaffari Jolfayi, A., Zarei, H., Hashemi, A., Atlas, T., Wasserthal, J., Vliegenthart, R., Henschke, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A17375

- **Comparing AI-Enabled Opportunistic Detection of Lung Cancer in Coronary Artery Calcium Scans versus Full Lung CT Scans: An AutoLung AI study Within MESA and Framingham Heart Study**
  Mozafary, M., Reeves, A., Hashemi, A., Atlas, K., Zhang, C., Atlas, T., Azimi, A., Mirjalili, S., Ghaffari Jolfayi, A., Zarei, H., Fan, W., Branch, A., Fayad, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A16690

- **Opportunistic AI for Cardiovascular Risk Prediction Based on Chest X-Ray: An AI-CVD Study Within MIMIC**
  Zarei, H., Reeves, A., Mozafary, M., Mirjalili, S., Atlas, K., Zhang, C., Azimi, A., Ghaffari Jolfayi, A., Hashemi, A., Wasserthal, J., Henschke, C., Yankelevitz, D., Roy, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A14415

- **Comparison of AI-enabled cardiac chambers volumetry based on non-gated chest CT scans with echocardiography: An AI-CVD study within the Multi-Ethnic Study of Atherosclerosis (MESA)** *AMERICAN JOURNAL OF PREVENTIVE CARDIOLOGY*

Mirjalili, S., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al

2027; 31

- **Heart failure and atrial fibrillation prediction from non-gated chest CT scans using AI-based cardiac chamber volumetry: an AI-CVD study within the multi-ethnic study of atherosclerosis (MESA)** *AMERICAN JOURNAL OF PREVENTIVE CARDIOLOGY*

  Mirjalili, S., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al

  2027; 31

- **Comparing incidence of heart failure in individuals with enlarged cardiac chambers versus diabetes.** *American journal of preventive cardiology*

  Mirjalili, S. R., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Ghaffari Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al

  2026; 29: 101656

- **Agatston-2.0: A next-generation AI-based coronary calcium quantification approach to improve risk stratification among individuals with zero Agatston scores-Part I An AI-CVD Study within the Multi-Ethnic Study of Atherosclerosis and Framingham Heart Study** *AMERICAN JOURNAL OF PREVENTIVE CARDIOLOGY*

  Naghavi, M., Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Mirjalili, S., Mozafarybazargany, M., Jolfayi, A., Hashemi, A., Atlas, T., Wasserthal, J., Vliegenthart, R., Henschke, et al

  2026; 30

- **AI-quantified Myosteatosis at CAC CT for Prediction of Atrial Fibrillation and Heart Failure: The Multi-Ethnic Study of Atherosclerosis.** *Radiology. Cardiothoracic imaging*

  Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Mirjalili, S. R., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, J. J., Mechanick, J. I., Branch, A., Ma, et al

  2026; 8 (4): e250214

- **AI-CVD-HF: A heart failure risk prediction model based on coronary artery calcium scans compared with PREVENT-HF.** *American journal of preventive cardiology*

  Mirjalili, S. R., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Ghaffari Jolfayi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, et al

  2026; 27: 101464

- **Comparative Deep Learning Approaches for Kidney Disease Risk Prediction from Retinal Imag in Diabetic Populations and Its Biological Constraints: The "Healthy Eyes, Diseased Kidneys" Dilemma**

  Moghadam, S., Squirrell, D., Rahimi, A., Vaghefi, E., An, S., Nielsen, C., Hashemi, Z., Xie, L., McConnell, M.

  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2026

- **Predicting 2-and 5-Year Kidney Failure Risk with Retinal-AI-Assisted Modelling**

  Rahimi, A., Xie, L., Moghadam, S., An, S., Nielsen, C., Hashemi, Z., Squirrell, D., McConnell, M.

  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2026

- **Retinal Imaging for AI-Based Prediction of Incident Chronic Kidney Disease Aligned with Validated Risk Framework**

  Hashemi, Z., Rahimi, A., Moghadam, S., Squirrell, D., An, S., Nielsen, C., Vaghefi, E., Xie, L., McConnell, M.

  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2026

- **AI-Derived LA Volume Index, LA/RA and LA/LV Volume Ratios From Coronary Artery Calcium Scans Predict Long-Term Atrial Fibrillation and Stroke.** *Stroke*

  Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Mirjalili, S. R., Mozafarybazargany, M., Hashemi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, J. J., Branch, et al

  2026

- **Retinal BioAge is associated with indicators of cardiovascular-kidney-metabolic syndrome in UK and US populations.** *Scientific reports*

  Squirrell, D., Nielsen, C., Vaghefi, E., An, S., Moghadam, S., Yang, S., Xie, L., Rahimi, A., Durbin, M. K., Hou, H., Weinreb, R. N., McConnell, M. V.

  2026

- **Artificial Intelligence-derived Measurements of Myosteatosis from Coronary Artery Calcium CT Scans to Predict COPD: The Multi-Ethnic Study of Atherosclerosis.** *Radiology. Cardiothoracic imaging*

  Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Mirjalili, S. R., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, J. J., de-Torres, J. P., Seijo, L. M., Mechanick, et al

2026; 8 (1): e250205

- **AI-CVD-AF: A Novel Atrial Fibrillation Prediction Model Based on Coronary Artery Calcium Scans.** *European heart journal. Cardiovascular Imaging*
  Mirjalili, S. R., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Azimi, A., Hashemi, A., Mozafarybazargany, M., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, J. J., Fan, et al
  2026
- **A Framework for Healthcare from the Eye: Oculomics as a Powerful Window to Systemic Health.** *Ophthalmology*
  Weinreb, R. N., Keane, P. A., Cooley, A., Chaglasian, M., Lee, A. Y., McConnell, M. V., Leng, T., Hashemi, Z., Ferrara, D., Rhew, D.
  2026
- **Coronary Artery Calcium (CAC) Imaging as a Diagnostic Test: Insurance Coverage Implications.** *JACC. Cardiovascular imaging*
  Naghavi, M., Wong, N. D., McConnell, M. V., Maron, D. J., Nasir, K., Henschke, C. I., Yankelevitz, D. F., A Fayad, Z., Vliegenthart, R., Williams, K. A., Mehran, R., Budoff, M., Berman, et al
  2025
- **Opportunistic AI-derived adiposity measures from coronary artery calcium scans predict new-onset type 2 diabetes in adults without obesity or hyperglycemia: insights from the AI-CVD study within MESA.** *Diabetology & metabolic syndrome*
  Naghavi, M., Azimi, A., Atlas, K., Reeves, A. P., Zhang, C., Wasserthal, J., Mirjalili, S. R., Mozafarybazargany, M., Hashemi, A., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Mechanick, et al
  2025; 17 (1): 419
- **Abstract 4366957: Predicting Non-Zero Coronary Artery Calcium Score in Middle-Aged Population: Comparing an Artificial Intelligence-based Model with Existing ASCVD Risk Scores in the Multi-Ethnic Study of Atherosclerosis (MESA)**
  Mcconnell, M., Mirjalili, S., Atlas, K., Zhang, C., Azimi, A., Reeves, A., Wong, N., Maron, D., Naghavi, M.
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Artificial Intelligence-Derived Myosteatosis on Coronary Artery Calcium CT Scans Predicts Incident COPD: An AI-CVD Study within the Multi-Ethnic Study of Atherosclerosis (MESA)**
  Naghavi, M., Azimi, A., Atlas, K., Zhang, C., Reeves, A., Wasserthal, J., Wong, N., Henschke, C., Yankelevitz, D., Maron, D., Vliegenthart, R., Mcconnell, M., Zulueta, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **AI-driven Measurement of Myosteatosis in Coronary Artery Calcium Scans Predicts Atrial Fibrillation and Heart Failure. An AI-CVD Study within the Multi-Ethnic Study of Atherosclerosis (MESA)**
  Naghavi, M., Azimi, A., Atlas, K., Zhang, C., Reeves, A., Atlas, T., Yankelevitz, D., Mirjalili, S., Henschke, C., Wong, N., Vliegenthart, R., Mcconnell, M., Maron, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Artificial Intelligence-Based Coronary Artery Calcium (AI-CAC) Score Empowers the "Power of Zero": An AI-CVD Study within the Multi-Ethnic Study of Atherosclerosis (MESA)**
  Naghavi, M., Atlas, K., Zhang, C., Reeves, A., Atlas, T., Wasserthal, J., McConnell, M., Maron, D., Williams, K., Vliegenthart, R., Nasir, K., Narula, J., Benjamin, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025
- **Wearable Irregular Heart Rhythm Detection Recurrences and Electrocardiographic Atrial Fibrillation Confirmation: The Fitbit Heart Study.** *Circulation. Arrhythmia and electrophysiology*
  Lubitz, S. A., McConnell, M. V., Selvaggi, C., Krishnamoorthy, A., Atlas, S. J., McManus, D. D., Pagoto, S., Singer, D. E., Pantelopoulos, A., Foulkes, A. S., Faranesh, A. Z.
  2025: e013565
- **Application of Artificial Intelligence to Deliver Healthcare From the Eye.** *JAMA ophthalmology*
  Weinreb, R. N., Lee, A. Y., Baxter, S. L., Lee, R. W., Leng, T., McConnell, M. V., El-Nimri, N. W., Rhew, D. C.
  2025
- **AI-enabled opportunistic measurement of liver steatosis in coronary artery calcium scans predicts cardiovascular events and all-cause mortality: an AI-CVD study within the Multi-Ethnic Study of Atherosclerosis (MESA).** *BMJ open diabetes research & care*
  Naghavi, M., Atlas, K., Reeves, A., Zhang, C., Wasserthal, J., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Zulueta, J. J., Budoff, M. J., Branch, A. D., Ma, N., Yip, et al
  2025; 13 (2)

- **AI explainability in oculomics: how it works, its role in establishing trust, and what still needs to be addressed.** *Progress in retinal and eye research*
  An, S., Teo, K., McConnell, M. V., Marshall, J., Galloway, C., Squirrell, D.
  2025: 101352

- **Generation of two induced pluripotent stem cell lines to model and investigate diseases affecting Pacific Islanders.** *Stem cell research*
  Zhang, A., Jahng, J. W., Guevara, J. V., Yan, C. D., McConnell, M. V., Wu, J. C.
  2025; 83: 103668

- **Blood Pressure Predicted From Artificial Intelligence Analysis of Retinal Images Correlates With Future Cardiovascular Events.** *JACC. Advances*
  Squirrell, D. M., Yang, S., Xie, L., Ang, S., Moghadam, M., Vaghefi, E., McConnell, M. V.
  2024; 3 (12): 101410

- **Artificial intelligence applied to coronary artery calcium scans (AI-CAC) significantly improves cardiovascular events prediction.** *NPJ digital medicine*
  Naghavi, M., Reeves, A. P., Atlas, K., Zhang, C., Atlas, T., Henschke, C. I., Yankelevitz, D. F., Budoff, M. J., Li, D., Roy, S. K., Nasir, K., Molloi, S., Fayad, et al
  2024; 7 (1): 309

- **AI-enabled Cardiac Chambers Volumetry and Calcified Plaque Characterization in Coronary Artery Calcium (CAC) Scans (AI-CAC) Significantly Improves on Agatston CAC Score for Predicting All Cardiovascular Events: The Multi-Ethnic Study of Atherosclerosis.** *Research square*
  Naghavi, M., Reeves, A., Atlas, K., Zhang, C., Atlas, T., Henschke, C., Yankelevitz, D., Budoff, M., Li, D., Roy, S., Nasir, K., Narula, J., Kakadiaris, et al
  2024

- **Development and validation of a deep-learning model to predict 10-year atherosclerotic cardiovascular disease risk from retinal images using the UK Biobank and EyePACS 10K datasets.** *Cardiovascular digital health journal*
  Vaghefi, E., Squirrell, D., Yang, S., An, S., Xie, L., Durbin, M. K., Hou, H., Marshall, J., Shreibati, J., McConnell, M. V., Budoff, M.
  2024; 5 (2): 59-69

- **Fight Heart Disease Like Cancer**
  McConnell, M. V.
  Hopkins Press.2024

- **The Echocardiographic Evaluation of the Right Heart: Current and Future Advances.** *Current cardiology reports*
  O'Donnell, C., Sanchez, P. A., Celestin, B., McConnell, M. V., Haddad, F.
  2023

- **Personalized digital behaviour interventions increase short-term physical activity: a randomized control crossover trial substudy of the MyHeart Counts Cardiovascular Health Study.** *European heart journal. Digital health*
  Javed, A., Kim, D. S., Hershman, S. G., Shcherbina, A., Johnson, A., Tolas, A., O'Sullivan, J. W., McConnell, M. V., Lazzeroni, L., King, A. C., Christle, J. W., Oppezzo, M., Mattsson, et al
  2023; 4 (5): 411-419

- **Measure by measure: Resting heart rate across the 24-hour cycle.** *PLOS digital health*
  Speed, C., Arneil, T., Harle, R., Wilson, A., Karthikesalingam, A., McConnell, M., Phillips, J.
  2023; 2 (4): e0000236

- **Cardiovascular Point of Care Ultrasound: Current Value and Vision for Future Use**
  Sengupta, P. P., Andrikopoulou, E., Choi, A. D., Dang, G., McConnell, M. V., Waller, A. H., Weissman, N. J.
  American College of Cardiology.
  2023

- **Detection of Atrial Fibrillation in a Large Population Using Wearable Devices: The Fitbit Heart Study.** *Circulation*
  Lubitz, S. A., Faranesh, A. Z., Selvaggi, C., Atlas, S. J., McManus, D. D., Singer, D. E., Pagoto, S., McConnell, M. V., Pantelopoulos, A., Foulkes, A. S.
  2022: 101161CIRCULATIONAHA122060291

- **Wearables, telemedicine, and artificial intelligence in arrhythmias and heart failure: Proceedings of the European Society of Cardiology: Cardiovascular Round Table.** *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*

  Leclercq, C., Witt, H., Hindricks, G., Katra, R. P., Albert, D., Belliger, A., Cowie, M. R., Deneke, T., Friedman, P., Haschemi, M., Lobban, T., Lordereau, I., McConnell, et al

  2022

- **Society for Cardiovascular Magnetic Resonance (SCMR) guidelines for reporting cardiovascular magnetic resonance examinations.** *Journal of cardiovascular magnetic resonance : official journal of the Society for Cardiovascular Magnetic Resonance*

  Hundley, W. G., Bluemke, D. A., Bogaert, J., Flamm, S. D., Fontana, M., Friedrich, M. G., Grosse-Wortmann, L., Karamitsos, T. D., Kramer, C. M., Kwong, R. Y., McConnell, M., Nagel, E., Neubauer, et al

  2022; 24 (1): 29

- **Prospective validation of smartphone-based heart rate and respiratory rate measurement algorithms.** *Communications medicine*

  Bae, S., Borac, S., Emre, Y., Wang, J., Wu, J., Kashyap, M., Kang, S., Chen, L., Moran, M., Cannon, J., Teasley, E. S., Chai, A., Liu, et al

  2022; 2: 40

- **Ultra-selective carbon nanotubes for photoacoustic imaging of inflamed atherosclerotic plaques.** *Advanced functional materials*

  Gifani, M., Eddins, D. J., Kosuge, H., Zhang, Y., Paluri, S. L., Larson, T., Leeper, N., Herzenberg, L. A., Gambhir, S. S., McConnell, M. V., Ghosn, E. E., Smith, B. R.

  2021; 31 (37)

- **Smartphone-Based VO2max Measurement With Heart Snapshot in Clinical and Real-world Settings With a Diverse Population: Validation Study.** *JMIR mHealth and uHealth*

  Webster, D. E., Tummalacherla, M., Higgins, M., Wing, D., Ashley, E., Kelly, V. E., McConnell, M. V., Muse, E. D., Olgin, J. E., Mangravite, L. M., Godino, J., Kellen, M. R., Omberg, et al

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