



## Michael V. McConnell, MD, MSEE

Clinical Professor, Medicine - Cardiovascular Medicine

### CLINICAL OFFICES

- **Preventive Cardiology Clinic**

300 Pasteur Dr Rm A265

MC 5319

Stanford, CA 94305

**Tel** (650) 723-6459

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### ACADEMIC CONTACT INFORMATION

- **Administrative Assistant**

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### Bio

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#### BIO

Dr. McConnell is an MIT-trained bioengineer who completed his MD at Stanford followed by cardiology fellowship and cardiovascular imaging training at Brigham & Women's and Beth Israel Hospitals in Boston. He joined the Stanford faculty in 1998 and remains a Clinical Professor while working nearby at Google Health. He continues part-time clinical activities at Stanford in imaging and Preventive Cardiology and teaching with Stanford Biodesign. He previously directed the Cardiovascular MRI Program and the Preventive Cardiology Clinic in the Stanford Division of Cardiovascular Medicine. His research expertise includes novel MRI and molecular imaging techniques, from mouse to man, to evaluate coronary artery and vascular diseases, including the detection and characterization of atherosclerotic plaque and vascular inflammation. He directed the NIH-funded Multi-Disciplinary Training Program in Cardiovascular Imaging at Stanford (CVIS). He was also the Director of Cardiovascular Health Innovation and led efforts to integrate mobile health technologies to improve the care of patients with or at risk for cardiovascular disease, including PI of the MyHeart Counts mHealth research study.

#### CLINICAL FOCUS

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

#### ACADEMIC APPOINTMENTS

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

#### 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**

- Co-Chair, 2030 Impact Goals Task Force, American Heart Association (2017 - present)
- Physical Activity Guidelines Working Group, Consumer Technology Assoc (2016 - present)
- Scientific Advisory Board, American Heart Assoc Health Technologies (2014 - present)
- Program Chair, Society for Cardiovascular Magnetic Resonance (2014 - 2015)
- Fellow, American Heart Association (2007 - present)
- Member, American Society of Echocardiography (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**

- 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
- Medical Education: Stanford University School of Medicine Registrar (1990) CA
- Board Certification: Echocardiography, National Board of Echocardiography (2007)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1997)

- 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)

## 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

- MyHeart Counts mHealth study: <http://myheartcounts.stanford.edu>
- CVIS imaging training program: <http://cvmedicine.stanford.edu/education/cvis/>

## Research & Scholarship

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### 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 led 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 technologies for the prevention and care of cardiovascular disease as Head of Cardiovascular Health Innovations at Verily Life Sciences, and now at Google Health, while continuing part-time clinical and teaching activities at Stanford.

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiovascular Medicine (Fellowship Program)

## Publications

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### PUBLICATIONS

- **In Vivo Translation of the CIRPI System: Revealing Molecular Pathology of Rabbit Aortic Atherosclerotic Plaques** *JOURNAL OF NUCLEAR MEDICINE*  
Zaman, R. T., Yousefi, S., Chibana, H., Ikeno, F., Long, S. R., Gambhir, S. S., Chin, F. T., McConnell, M. V., Xing, L., Yeung, A.  
2019; 60 (9): 1308–16
- **Deep learning predicts hip fracture using confounding patient and healthcare variables** *NPJ DIGITAL MEDICINE*  
Badgeley, M. A., Zech, J. R., Oakden-Rayner, L., Glicksberg, B. S., Liu, M., Gale, W., McConnell, M., Percha, B., Snyder, T. M., Dudley, J. T.

2019; 2

- **Physical activity, sleep and cardiovascular health data for 50,000 individuals from the MyHeart Counts Study** *SCIENTIFIC DATA*  
Hershman, S. G., Bot, B. M., Shcherbina, A., Doerr, M., Moayedi, Y., Pavlovic, A., Waggott, D., Cho, M. K., Rosenberger, M. E., Haskell, W. L., Myers, J., Champagne, M., Mignot, et al  
2019; 6
- **Physical activity, sleep and cardiovascular health data for 50,000 individuals from the MyHeart Counts Study.** *Scientific data*  
Hershman, S. G., Bot, B. M., Shcherbina, A., Doerr, M., Moayedi, Y., Pavlovic, A., Waggott, D., Cho, M. K., Rosenberger, M. E., Haskell, W. L., Myers, J., Champagne, M. A., Mignot, et al  
2019; 6 (1): 24
- **In Vivo Translation of the CIRPI System---Revealing Molecular Pathology of Rabbit Aortic Atherosclerotic Plaques.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Zaman, R., Yousufi, S., Chibana, H., Ikeno, F., Long, S. R., Gambhir, S. S., Chin, F. T., McConnell, M. V., Xing, L., Yeung, A.  
2019
- **CANDI: an R package and Shiny app for annotating radiographs and evaluating Computer-Aided Diagnosis.** *Bioinformatics (Oxford, England)*  
Badgeley, M. A., Liu, M., Glicksberg, B. S., Shervey, M., Zech, J., Shameer, K., Lehar, J., Oermann, E. K., McConnell, M. V., Snyder, T. M., Dudley, J. T.  
2018
- **Mobile Health Advances in Physical Activity, Fitness, and Atrial Fibrillation Moving Hearts** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
McConnell, M. V., Turakhia, M. P., Harrington, R. A., King, A. C., Ashley, E. A.  
2018; 71 (23): 2691–2701
- **A Dual-Modality Hybrid Imaging System Harnesses Radioluminescence and Sound to Reveal Molecular Pathology of Atherosclerotic Plaques** *SCIENTIFIC REPORTS*  
Zaman, R. T., Yousefi, S., Long, S. R., Saito, T., Mandella, M., Qiu, Z., Chen, R., Contag, C. H., Gambhir, S. S., Chin, F. T., Khuri-Yakub, B. T., McConnell, M. V., Shung, et al  
2018; 8: 8992
- **Prediction of cardiovascular risk factors from retinal fundus photographs via deep learning** *NATURE BIOMEDICAL ENGINEERING*  
Poplin, R., Varadarajan, A. V., Blumer, K., Liu, Y., McConnell, M. V., Corrado, G. S., Peng, L., Webster, D. R.  
2018; 2 (3): 158–64
- **Imaging cellular pharmacokinetics of F-18-FDG and 6-NBDG uptake by inflammatory and stem cells** *PLOS ONE*  
Zaman, R. T., Tuerkcan, S., Mahmoudi, M., Saito, T., Yang, P. C., Chin, F. T., McConnell, M. V., Xing, L.  
2018; 13 (2): e0192662
- **Dose-Dependent Cardioprotection of Moderate (32°C) Versus Mild (35°C) Therapeutic Hypothermia in Porcine Acute Myocardial Infarction.** *JACC. Cardiovascular interventions*  
Dash, R., Mitsutake, Y., Pyun, W. B., Dawoud, F., Lyons, J., Tachibana, A., Yahagi, K., Matsuura, Y., Kolodgie, F. D., Virmani, R., McConnell, M. V., Illindala, U., Ikeno, et al  
2018; 11 (2): 195–205
- **Right Heart End-Systolic Remodeling Index Strongly Predicts Outcomes in Pulmonary Arterial Hypertension: Comparison With Validated Models.** *Circulation. Cardiovascular imaging*  
Amsellem, M., Sweatt, A. J., Aymami, M. C., Kuznetsova, T., Selej, M., Lu, H., Mercier, O., Fadel, E., Schnittger, I., McConnell, M. V., Rabinovitch, M., Zamanian, R. T., Haddad, et al  
2017; 10 (6)
- **RGD targeting of human ferritin iron oxide nanoparticles enhances in vivo MRI of vascular inflammation and angiogenesis in experimental carotid disease and abdominal aortic aneurysm** *JOURNAL OF MAGNETIC RESONANCE IMAGING*  
Kitagawa, T., Kosuge, H., Uchida, M., Iida, Y., Dalman, R. L., Douglas, T., McConnell, M. V.  
2017; 45 (4): 1144–1153
- **The Changing Face of Informed Consent** *NEW ENGLAND JOURNAL OF MEDICINE*  
Grady, C., Cummings, S. R., Rowbotham, M. C., McConnell, M. V., Ashley, E. A., Kang, G.  
2017; 376 (9): 856–867
- **The Use of Smartphones for Health Research** *ACADEMIC MEDICINE*  
Dorsey, E. R., Chan, Y. Y., McConnell, M. V., Shaw, S. Y., Trister, A. D., Friend, S. H.

2017; 92 (2): 157-160

- **Investigating the value of right heart echocardiographic metrics for detection of pulmonary hypertension in patients with advanced lung disease.** *The international journal of cardiovascular imaging*  
Amsallem, M., Boulate, D., Kooreman, Z., Zamanian, R. T., Fadel, G., Schnittger, I., Fadel, E., McConnell, M. V., Dhillon, G., Mercier, O., Haddad, F.  
2017
- **Impact of a Genetic Risk Score for Coronary Artery Disease on Reducing Cardiovascular Risk: A Pilot Randomized Controlled Study.** *Frontiers in cardiovascular medicine*  
Knowles, J. W., Zarafshar, S., Pavlovic, A., Goldstein, B. A., Tsai, S., Li, J., McConnell, M. V., Absher, D., Ashley, E. A., Kiernan, M., Ioannidis, J. P., Assimes, T. L.  
2017; 4: 53
- **Feasibility of Obtaining Measures of Lifestyle From a Smartphone App: The MyHeart Counts Cardiovascular Health Study.** *JAMA cardiology*  
McConnell, M. V., Shcherbina, A., Pavlovic, A., Homburger, J. R., Goldfeder, R. L., Waggot, D., Cho, M. K., Rosenberger, M. E., Haskell, W. L., Myers, J., Champagne, M. A., Mignot, E., Landray, et al  
2017; 2 (1): 67-76
- **Load Adaptability in Patients With Pulmonary Arterial Hypertension.** *The American journal of cardiology*  
Amsallem, M., Boulate, D., Aymami, M., Guihaire, J., Selej, M., Huo, J., Denault, A. Y., McConnell, M. V., Schnittger, I., Fadel, E., Mercier, O., Zamanian, R. T., Haddad, et al  
2017; 120 (5): 874-82
- **Load Adaptability in Patients With Pulmonary Arterial Hypertension.** *Am J Cardiol*  
Amsallem, M., et al  
2017: 874-82
- **Dual-Modality Activity-Based Probes as Molecular Imaging Agents for Vascular Inflammation** *JOURNAL OF NUCLEAR MEDICINE*  
Withana, N. P., Saito, T., Ma, X., Garland, M., Liu, C., Kosuge, H., Amsallem, M., Verdoes, M., Ofori, L. O., Fischbein, M., Arakawa, M., Cheng, Z., McConnell, et al  
2016; 57 (10): 1583-1590
- **RGD targeting of human ferritin iron oxide nanoparticles enhances in vivo MRI of vascular inflammation and angiogenesis in experimental carotid disease and abdominal aortic aneurysm.** *Journal of magnetic resonance imaging : JMIR*  
Kitagawa, T., Kosuge, H., Uchida, M., Iida, Y., Dalman, R. L., Douglas, T., McConnell, M. V.  
2016
- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part I. Reporter Gene Design, Characterization, and Optical in Vivo Imaging of Bone Marrow Stromal Cells after Myocardial Infarction.** *Radiology*  
Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al  
2016; 280 (3): 815-825
- **Multimodality Molecular Imaging of Cardiac Cell Transplantation: Part II. In Vivo Imaging of Bone Marrow Stromal Cells in Swine with PET/CT and MR Imaging.** *Radiology*  
Parashurama, N., Ahn, B., Ziv, K., Ito, K., Paulmurugan, R., Willmann, J. K., Chung, J., Ikeno, F., Swanson, J. C., Merk, D. R., Lyons, J. K., Yerushalmi, D., Teramoto, et al  
2016; 280 (3): 826-836
- **Defining a Mobile Health Roadmap for Cardiovascular Health and Disease.** *Journal of the American Heart Association*  
Eapen, Z. J., Turakhia, M. P., McConnell, M. V., Graham, G., Dunn, P., Tiner, C., Rich, C., Harrington, R. A., Peterson, E. D., Wayte, P.  
2016; 5 (7)
- **Magnetic Resonance Imaging and Positron Emission Tomography Approaches to Imaging Vascular and Cardiac Inflammation** *CIRCULATION JOURNAL*  
Amsallem, M., Saito, T., Tada, Y., Dash, R., McConnell, M. V.  
2016; 80 (6): 1269-1277
- **Inflammatory Markers Associated With Subclinical Coronary Artery Disease: The Multicenter AIDS Cohort Study.** *Journal of the American Heart Association*  
Bahrami, H., Budoff, M., Haberlen, S. A., Rezaeian, P., Ketlogetswe, K., Tracy, R., Palella, F., Witt, M. D., McConnell, M. V., Kingsley, L., Post, W. S.  
2016; 5 (6)

- **The Wild Wild West: A Framework to Integrate mHealth Software Applications and Wearables to Support Physical Activity Assessment, Counseling and Interventions for Cardiovascular Disease Risk Reduction** *PROGRESS IN CARDIOVASCULAR DISEASES*  
Lobelo, F., Kelli, H. M., Tejedor, S. C., Pratt, M., McConnell, M. V., Martin, S. S., Welk, G. J.  
2016; 58 (6): 584-594
- **Characterizing Cathepsin Activity and Macrophage Subtypes in Excised Human Carotid Plaques** *STROKE*  
Abd-Elrahman, I., Meir, K., Kosuge, H., Ben-Nun, Y., Sadan, T. W., Rubinstein, C., Samet, Y., McConnell, M. V., Blum, G.  
2016; 47 (4): 1101-1108
- **Regional right ventricular dysfunction in acute pulmonary embolism: relationship with clot burden and biomarker profile** *INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING*  
Tuzovic, M., Adigopula, S., Amsallem, M., Kobayashi, Y., Kadoch, M., Boulate, D., Krishnan, G., Liang, D., Schnittger, I., Fleischmann, D., McConnell, M. V., Haddad, F.  
2016; 32 (3): 389-398
- **Twenty-four Hours of Sleep, Sedentary Behavior, and Physical Activity with Nine Wearable Devices.** *Medicine and science in sports and exercise*  
Rosenberger, M. E., Buman, M. P., Haskell, W. L., McConnell, M. V., Carstensen, L. L.  
2016; 48 (3): 457-465
- **Addressing the Controversy of Estimating Pulmonary Arterial Pressure by Echocardiography** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*  
Amsallem, M., Sternbach, J. M., Adigopula, S., Kobayashi, Y., Vu, T. A., Zamanian, R., Liang, D., Dhillon, G., Schnittger, I., McConnell, M. V., Haddad, F.  
2016; 29 (2): 93-102
- **Telmisartan in the diabetic murine model of acute myocardial infarction: dual contrast manganese-enhanced and delayed enhancement MRI evaluation of the peri-infarct region.** *Cardiovascular diabetology*  
Toma, I., Kim, P. J., Dash, R., McConnell, M. V., Nishimura, D., Harnish, P., Yang, P. C.  
2016; 15 (1): 24-?
- **Cathepsin Activity-Based Probes and Inhibitor for Preclinical Atherosclerosis Imaging and Macrophage Depletion.** *PLoS one*  
Abd-Elrahman, I., Kosuge, H., Wisnes Sadan, T., Ben-Nun, Y., Meir, K., Rubinstein, C., Bogoy, M., McConnell, M. V., Blum, G.  
2016; 11 (8)
- **Acquisition, Analysis, and Sharing of Data in 2015 and Beyond: A Survey of the Landscape A Conference Report From the American Heart Association Data Summit 2015** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*  
Antman, E. M., Benjamin, E. J., Harrington, R. A., Houser, S. R., Peterson, E. D., Bauman, M. A., Brown, N., Bufalino, V., Califf, R. M., Creager, M. A., Daugherty, A., DeMets, D. L., Dennis, et al  
2015; 4 (11)
- **Clinician Innovator: A Novel Career Path in Academic Medicine A Presidentially Commissioned Article From the American Heart Association** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*  
Majmudar, M. D., Harrington, R. A., Brown, N. J., Graham, G., McConnell, M. V.  
2015; 4 (10)
- **Rapid endovascular moderate hypothermia before reperfusion provides more cardioprotection than mild hypothermia in a porcine model of myocardial infarction**  
Dash, R., Dawoud, F., Ikeno, F., Tachibana, A., Lyons, J., Mitsutake, Y., Pyun, W. B., McConnell, M., Illindala, U., Yeung, A.  
OXFORD UNIV PRESS.2015: 353
- **Manganese-Enhanced Magnetic Resonance Imaging Enables In Vivo Confirmation of Peri-Infarct Restoration Following Stem Cell Therapy in a Porcine Ischemia-Reperfusion Model.** *Journal of the American Heart Association*  
Dash, R., Kim, P. J., Matsuura, Y., Ikeno, F., Metzler, S., Huang, N. F., Lyons, J. K., Nguyen, P. K., Ge, X., Foo, C. W., McConnell, M. V., Wu, J. C., Yeung, et al  
2015; 4 (7)
- **Self-Gated Fat-Suppressed Cardiac Cine MRI** *MAGNETIC RESONANCE IN MEDICINE*  
Ingle, R. R., Santos, J. M., Overall, W. R., McConnell, M. V., Hu, B. S., Nishimura, D. G.  
2015; 73 (5): 1764-1774
- **Scintillating balloon-enabled fiber-optic system for radionuclide imaging of atherosclerotic plaques.** *Journal of nuclear medicine*  
Zaman, R. T., Kosuge, H., Carpenter, C., Sun, C., McConnell, M. V., Xing, L.  
2015; 56 (5): 771-777

- **Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium.** *Circulation research*  
Kim, P. J., Mahmoudi, M., Ge, X., Matsuura, Y., Toma, I., Metzler, S., Kooreman, N. G., Ramunas, J., Holbrook, C., McConnell, M. V., Blau, H., Harnish, P., Rulifson, et al  
2015; 116 (7): e40-50
- **A Crack in the Wall: Evolution of a Left Ventricular Apical Pseudoaneurysm.** *The Canadian journal of cardiology*  
Parikh, R. V., Ahmadi-Kashani, M., Fleischmann, D., Woo, Y. J., McConnell, M. V.  
2015
- **Addressing the Controversy of Estimating Pulmonary Arterial Pressure by Echocardiography.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*  
Amsallem, M., Sternbach, J. M., Adigopula, S., Kobayashi, Y., Vu, T. A., Zamanian, R., Liang, D., Dhillon, G., Schnittger, I., McConnell, M. V., Haddad, F.  
2015
- **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development** *NATURE COMMUNICATIONS*  
Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nagakami, F., Heymann, H. M., Chernugobova, E., Jin, H., Roy, J., Hultgren, et al  
2014; 5
- **Continuous wireless pressure monitoring and mapping with ultra-small passive sensors for health monitoring and critical care** *NATURE COMMUNICATIONS*  
Chen, L. Y., Tee, B. C., Chortos, A. L., Schwartz, G., Tse, V., Lipomi, D. J., Wong, H. P., McConnell, M. V., Bao, Z.  
2014; 5
- **Fiber-Optic System for Dual-Modality Imaging of Glucose Probes F-18-FDG and 6-NBDG in Atherosclerotic Plaques** *PLOS ONE*  
Zaman, R. T., Kosuge, H., Pratz, G., Carpenter, C., Xing, L., McConnell, M. V.  
2014; 9 (9)
- **Assessment of elastin deficit in a marfan mouse aneurysm model using an elastin-specific magnetic resonance imaging contrast agent.** *Circulation. Cardiovascular imaging*  
Okamura, H., Pisani, L. J., Dalal, A. R., Emrich, F., Dake, B. A., Arakawa, M., Onthank, D. C., Cesati, R. R., Robinson, S. P., Milanese, M., Kotek, G., Smit, H., Connolly, et al  
2014; 7 (4): 690-696
- **Outcomes after coronary artery calcium and other cardiovascular biomarker testing among asymptomatic medicare beneficiaries.** *Circulation. Cardiovascular imaging*  
Shreibati, J. B., Baker, L. C., McConnell, M. V., Hlatky, M. A.  
2014; 7 (4): 655-662
- **Relationship between Echocardiographic and Magnetic Resonance Derived Measures of Right Ventricular Size and Function in Patients with Pulmonary Hypertension.** *Journal of the American Society of Echocardiography*  
Shiran, H., Zamanian, R. T., McConnell, M. V., Liang, D. H., Dash, R., Heidary, S., Sudini, N. L., Wu, J. C., Haddad, F., Yang, P. C.  
2014; 27 (4): 405-412
- **HIGH LEFT VENTRICULAR EJECTION FRACTION IS ASSOCIATED WITH WORSE OUTCOMES IN PATIENTS WITH AND WITHOUT HEART FAILURE**  
Bahrami, H., McConnell, M., Heidenreich, P.  
ELSEVIER SCIENCE INC.2014: A732
- **ACC/AHA/ASE/ASNC/HRS/IAC/Mended Hearts/NASCI/RSNA/SAIP/SCAI/SCCT/SCMR/SNMMI 2014 health policy statement on use of noninvasive cardiovascular imaging: a report of the American College of Cardiology Clinical Quality Committee.** *Journal of the American College of Cardiology*  
Mark, D. B., Anderson, J. L., Brinker, J. A., Brophy, J. A., Casey, D. E., Cross, R. R., Edmundowicz, D., Hachamovitch, R., Hlatky, M. A., Jacobs, J. E., Jaskie, S., Kett, K. G., Malhotra, et al  
2014; 63 (7): 698-721
- **Histological characteristics of myocardial bridge with an ultrasonic echolucent band. Comparison between intravascular ultrasound and histology.** *Circulation journal*  
Yamada, R., Turcott, R. G., Connolly, A. J., Ikeno, F., McConnell, M. V., Schnittger, I., Fitzgerald, P. J., Honda, Y.  
2014; 78 (2): 502-504
- **PROGRESSION OF ABDOMINAL AORTIC ANEURYSM: EFFECT OF LAGRANGIAN TRANSPORT AND HEMODYNAMIC PARAMETERS**

- Arzani, A., Suh, G., McConnell, M. V., Dalman, R. L., Shadden, S. C., ASME AMER SOC MECHANICAL ENGINEERS.2014
- **miR-24 limits aortic vascular inflammation and murine abdominal aneurysm development.** *Nature communications*  
Maegdefessel, L., Spin, J. M., Raaz, U., Eken, S. M., Toh, R., Azuma, J., Adam, M., Nakagami, F., Heymann, H. M., Chernogubova, E., Jin, H., Roy, J., Hultgren, et al  
2014; 5: 5214-?
  - **Fiber-optic system for dual-modality imaging of glucose probes 18F-FDG and 6-NBDG in atherosclerotic plaques.** *PLoS one*  
Zaman, R. T., Kosuge, H., Pratz, G., Carpenter, C., Xing, L., McConnell, M. V.  
2014; 9 (9)
  - **Manganese-Enhanced MRI Enables Longitudinal in vivo Tracking of Transplanted Stem Cell Viability in the Murine Myocardium**  
Dash, R., Subramanian, A., Matsuura, Y., Sohn, I., Yeh, T., McConnell, M. V., Wu, J. C., Yang, P. C.  
LIPPINCOTT WILLIAMS & WILKINS.2013
  - **Atherosclerotic Plaque Detection With a Fluorescence/Radionuclide Intravascular Imaging System for 18F-FDG and 6-NBDG**  
Zaman, R., Kosuge, H., Pratz, G., Carpenter, C., Xing, L., McConnell, M. V.  
LIPPINCOTT WILLIAMS & WILKINS.2013
  - **Integrin-Targeted Molecular Imaging of Experimental Abdominal Aortic Aneurysms by 18F-labeled Arg-Gly-Asp Positron-Emission Tomography.** *Circulation. Cardiovascular imaging*  
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