

# Stanford

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## Paul J. Wang, MD

Professor of Medicine (Cardiovascular Medicine) at the Stanford University Medical Center and, by courtesy, of Bioengineering  
Medicine - Cardiovascular Medicine

### CLINICAL OFFICES

- **Cardiovascular Medicine**

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Stanford, CA 94305

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### Bio

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### BIO

Dr. Wang is the Director of the Stanford Cardiac Arrhythmia Service and Professor of Medicine and of Bioengineering (by courtesy)(since 2003). Dr. Wang is an expert in the treatment of cardiac arrhythmias, including atrial fibrillation, atrial flutter, ventricular arrhythmias, supraventricular arrhythmias, and sudden cardiac death. He has practiced cardiac electrophysiology as an arrhythmia expert for over 26 years. He was a co-inventor of catheter cryoablation, which has been used to treat over 250,000 patients with atrial fibrillation, and has pioneered new techniques in the management of heart rhythm problems. He has co-authored numerous textbooks and book chapters on catheter ablation, implantable defibrillators, sudden cardiac death, cardiac resynchronization/ biventricular pacing therapy, and innovations in arrhythmia therapy. He is past Chair of the American Heart Association Council on Clinical Cardiology ECG and Arrhythmias Committee, a member of the American Heart Association Council on Clinical Cardiology, and the American Heart Association National Science and Clinical Education Committee. He is a former member of the Board of Trustees of the leading professional society in his field, the Heart Rhythm Society. He has helped write the examination used for certification of heart rhythm specialists in the U.S. He founded the annual Stanford Biodesign New Arrhythmia Technologies Retreat, focusing on new technological advances in arrhythmia management and diagnosis. He serves as the Editor-in-Chief of *Circulation:Arrhythmia and Electrophysiology*, one of the leading scientific journals in the field.

### CLINICAL FOCUS

- Cardiac Electrophysiology
- Cardiology (Heart)
- Atrial Fibrillation
- Cardiac Arrhythmias
- Implantable Defibrillators
- Pacemakers
- Hypertrophic Cardiomyopathy
- Clinical Cardiac Electrophysiology

### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Medicine - Cardiovascular Medicine

- Professor - Med Center Line (By courtesy), Bioengineering
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

## **HONORS AND AWARDS**

- Faculty Teaching Award, Stanford University Cardiovascular Division (2013)
- Clinical Teaching Award awarded by Medical Residents, Tufts New England Medical Center (2003)
- Natalie and Milton O. Zucker Teaching Award, Tufts University School of Medicine (2002)
- Basic Science Teacher of the Year Award, Tufts University School of Medicine (2002)
- 1999 Special Faculty Recognition Teaching Award, (equivalent to Teacher of the Year), Tufts University School of Medicine (1999,2000,2003)
- Stevelman Award for Excellence in Cardiology, College of Physicians and Surgeons, Columbia University (1983)
- Finalist, Rhodes Scholarship Competition (1978)
- Honorary Harvard National Scholar, Harvard University (1975-1979)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Editor-in-Chief, Circulation: Arrhythmia and Electrophysiology, American Heart Association (2017 - present)
- Member, National Science and Clinical Education Committee, American Heart Association (2017 - present)
- Member, Council on Clinical Cardiology, American Heart Association (2016 - present)
- Board of Trustees, Heart Rhythm Society (2016 - 2017)
- Member of Governance Committee and Nominations Subcommittee, Heart Rhythm Society (2014 - 2015)
- Member of Relationships with Industry Task Force Committee, Heart Rhythm Society (2010 - 2011)
- Member of Governance Committee and Nominations Subcommittee, Heart Rhythm Society (2010 - 2011)
- Governance, Awards Subcommittee member, Heart Rhythm Society (2009 - 2010)
- Chair, Continuing Medical Education Subcommittee, Heart Rhythm Society (2009 - 2011)
- Member, Cardiac Electrophysiology Committee, American College of Cardiology (2008 - 2011)
- Member IBHRE EP Test Writing Committee, International Board of Medical Examiners (2006 - 2012)
- Vice Chair, Educational Committee, Heart Rhythm Society (2002 - 2006)
- Chair, Member Education Working Group Sub-Committee, Heart Rhythm Society (2000 - 2002)
- ABIM Board Examination Writing Committee on Clinical Cardiac Electrophysiology, American Board of Internal Medicine (2004 - 2010)
- President, New England Electrophysiology Society (2001 - 2003)
- Chair, Committee on Electrocardiography/Arrhythmias Council on Clinical Cardiology, American Heart Association (2014 - 2016)

## **PROFESSIONAL EDUCATION**

- Board Certification: Clinical Cardiac Electrophysiology, American Board of Internal Medicine (1992)
- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (1989)
- Fellowship: Brigham and Women's Hospital Harvard Medical School (1989) MA
- Board Certification: Internal Medicine, American Board of Internal Medicine (1986)
- Residency: New York Presbyterian Medical Center (1986) NY
- Internship: New York Presbyterian Medical Center (1984) NY
- Medical Education: College of Physicians and Surgeons Columbia University (1983) NY

- MD, Columbia University , Medicine (1983)
- BA, Harvard University , Biochemical Sciences (1979)

## PATENTS

- Paul J. Wang, Amin Al-Ahmad, Francis William, Kai Ihnken, Kaartiga Sivanesan, Morgan Clyburn, Kathleen L. Kang, Lauren S Chan, Robert C Robbins, Friedrich B. Prinz. "United States Patent 8,882,762 Transmural Ablation Device", Leland Stanford Junior University, Nov 11, 2014
- Dorothea Koh, Bryant Lin, Paul J. Wang, Marie Guion-Johnson, Amin Al-Ahmad. "United States Patent 8,494,623 Method and apparatus for in-vivo physiological monitoring", Jul 23, 2013
- Baharan Kamousi, Bryant Lin and Paul J. Wang. "United States Patent 8,204,581 Method to discriminate arrhythmias in cardiac rhythm management devices", Jun 19, 2012
- Friedrich B. Prinz, Paul J. Wang, Bryant Lin and Ross Venook. "United States Patent 8,100,900 System for delivering therapy", Leland Stanford Junior University, Jan 24, 2012
- David P. Macadam, Paul J. Wang, Shawn X. Yang and Dipen Shah. "United States Patent 7,272,437 Systems for Processing Electrocardiac Signals Having Superimposed Complexes", Sep 18, 2007
- Paul J. Wang and Hassan Rastegar. "United States Patent 7,041,095 Cardiac ablation system and method for treatment of cardiac arrhythmias and transmyocardial revascularization", May 9, 2006
- David MacAdam, Paul J. Wang, Shawn Yang and Dipen Shah. "United States Patent 6,944,495 Methods for Processing Electrocardiac Signals Having Superimposed Complexes", Nov 13, 2005
- David MacAdam, Paul J. Wang, Shawn Yang and Dipen Shah. "United States Patent 6,968,227 Methods for Processing Electrocardiac Signals Having Superimposed Complexes", Nov 5, 2005
- Gary S. Falwell, Ian D. McRury, Michael C. Peterson, Paul J. Wang. "United States Patent 6,916,317 Tricuspid annular grasp catheter", Jul 12, 2005
- Carey M. Rappaport, Paul Wang and Zeji Gu. "United States Patent 6,699,241 Wide-aperture catheter-based microwave cardiac ablation antenna", Mar 2, 2004
- Paul J. Wang and Hassan Rastegar. "United States Patent 6,527,767 Cardiac ablation and method for treatment of cardiac arrhythmias and transmyocardial revascularization", Mar 4, 2003
- Paul J. Wang and Hassan Rastegar. "United States Patent 6,475,179 Tissue Folding Device and Method Thereof", Nov 5, 2002
- Gary S. Falwell, Ian D. McRury, Michael C. Peterson, Paul J. Wang. "United States Patent 6,319,250 Tricuspid Annular Grasp Catheter", Nov 20, 2001
- Tracey A. Morley and Paul J. Wang. "United States Patent 6,113,584 Intraluminal delivery of tissue lysing medium", Sep 5, 2000
- Tracey A. Morley and Paul J. Wang. "United States Patent 5,947,952 Intraluminal Delivery of Tissue Lysing Medium.", Sep 7, 1999
- Tracey A. Morley and Paul J. Wang. "United States Patent 5,766,152 Intraluminal Delivery of Tissue Lysing Medium", Jun 16, 1998
- Paul J. Wang, Peter W. Groeneveld. "United States Patent 5,462,545 Catheter Electrodes", Oct 31, 1995
- Peter L. Friedman, Paul Wang, and Ernest G. Cravalho. "United States Patent 5,147,355 Cryoablation catheter and method of performing cryoablation", Sep 15, 1992

## LINKS

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

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Wang's research centers on the development of innovative approaches to the treatment of arrhythmias, including more effective catheter ablation techniques, more reliable implantable devices, and less invasive treatments. Dr. Wang's clinical research interests include atrial fibrillation, ventricular tachycardia, syncope, and hypertrophic cardiomyopathy. Dr. Wang has active collaborations with Bioengineering, Mechanical Engineering, and Electrical Engineering Departments at Stanford. Some of the goals of his research program are: 1) to create a more effective methods of catheter ablation, 2) to create implantable pacemakers and leads that are more reliable, 3) to create a combined surgical-catheter approach to ablation, 4) to create noninvasive methods of ablation, 5) to make defibrillation painless.

### CLINICAL TRIALS

- Substrate Versus Trigger Ablation for Paroxysmal Atrial Fibrillation, Recruiting
- Catheter Ablation vs Anti-arrhythmic Drug Therapy for Atrial Fibrillation Trial, Not Recruiting

## Teaching

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### COURSES

#### 2019-20

- Introduction to Bioengineering Research: BIOE 390, MED 289 (Aut)
- Pathophysiology and Design for Cardiovascular Disease: BIOE 72N (Spr)

#### 2018-19

- Introduction to Bioengineering Research: BIOE 390, MED 289 (Aut)

#### 2017-18

- Introduction to Bioengineering Research: BIOE 390, MED 289 (Aut)

#### 2016-17

- Introduction to Bioengineering Research: BIOE 390, MED 289 (Aut)

### STANFORD ADVISEES

#### Scholarly Concentration Director

Benson George

#### Postdoctoral Faculty Sponsor

Krishna Pundi

#### Postdoctoral Research Mentor

Krishna Pundi

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

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### PUBLICATIONS

- **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., Alhousseini, M. I., Armenia, E., Baykaner, T., Brachmann, J., Turakhia, et al  
2019; 12 (8): e006835
- **Comparison of QT Interval Measurement Methods and Correction Formulas in Atrial Fibrillation** *AMERICAN JOURNAL OF CARDIOLOGY*  
Tooley, J., Ouyang, D., Hadley, D., Turakhia, M., Wang, P., Ashley, E., Froelicher, V., Perez, M.  
2019; 123 (11): 1822–27
- **Comparison of QT Interval Measurement Methods and Correction Formulas in Atrial Fibrillation.** *The American journal of cardiology*  
Tooley, J., Ouyang, D., Hadley, D., Turakhia, M., Wang, P., Ashley, E., Froelicher, V., Perez, M.  
2019
- **MACHINE LEARNING IDENTIFIES SITES WHERE ABLATION TERMINATES PERSISTENT ATRIAL FIBRILLATION**  
Alhousseini, M., Abuzaid, F., Clopton, P., Rogers, A., Rodrigo, M., Baykaner, T., Wang, P., Rappel, W., Narayan, S.  
ELSEVIER SCIENCE INC.2019: 301
- **SITES THAT CONTROL LARGER AREAS DURING ATRIAL FIBRILLATION MAY DETERMINE TERMINATION DURING ABLATION**

- Bhatia, N. K., Hossainy, S., Rogers, A., Alhousseini, 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., Alhousseini, M., Baykaner, T., Clopton, P., Rappel, W., Wang, P., Narayan, S.  
ELSEVIER SCIENCE INC.2019: 521
  - **Year in Review in Cardiac Electrophysiology.** *Circulation. Arrhythmia and electrophysiology*  
Tzou, W. S., Hussein, A. A., Madhavan, M., Viswanathan, M. N., Steinberg, B. A., Ceresnak, S. R., Davis, D. R., Park, D. S., Wang, P. J., Kapa, S.  
2019; 12 (2): e007142
  - **New Concepts in Sudden Cardiac Arrest to Address an Intractable Epidemic: JACC State-of-the-Art Review.** *Journal of the American College of Cardiology*  
Narayan, S. M., Wang, P. J., Daubert, J. P.  
2019; 73 (1): 70–88
  - **Efficacy of Ablation Lesion Sets in Addition to Pulmonary Vein Isolation for Paroxysmal Atrial Fibrillation: Findings From the SMASH - AF Meta-Analysis Study Cohort.** *Journal of the American Heart Association*  
Cluckey, A., Perino, A. C., Yunus, F. N., Leef, G. C., Askari, M., Heidenreich, P. A., Narayan, S. M., Wang, P. J., Turakhia, M. P.  
2019; 8 (1): e009976
  - **Activation of PDGF pathway links LMNA mutation to dilated cardiomyopathy.** *Nature*  
Lee, J., Termglinchan, V., Diecke, S., Itzhaki, I., Lam, C. K., Garg, P., Lau, E., Greenhaw, M., Seeger, T., Wu, H., Zhang, J. Z., Chen, X., Gil, et al  
2019
  - **Urinary tract infection after catheter ablation of atrial fibrillation.** *Pacing and clinical electrophysiology : PACE*  
Cluckey, A., Perino, A. C., Fan, J., Askari, M., Nasir, J., Marcus, G. M., Baykaner, T., Narayan, S. M., Wang, P. J., Turakhia, M. P.  
2019
  - **Secular trends in success rate of catheter ablation for atrial fibrillation: The SMASH-AF cohort.** *American heart journal*  
Perino, A. C., Leef, G. C., Cluckey, A., Yunus, F. N., Askari, M., Heidenreich, P. A., Narayan, S. M., Wang, P. J., Turakhia, M. P.  
2018
  - **Year in Review in Cardiac Electrophysiology.** *Circulation. Arrhythmia and electrophysiology*  
Kapa, S., Davis, D. R., Park, D. S., Steinberg, B. A., Viswanathan, M. N., Tzou, W., Madhavan, M., Ceresnak, S. R., Wang, P. J.  
2018; 11 (7): e006648
  - **Interaction of Localized Drivers and Disorganized Activation in Persistent Atrial Fibrillation: Reconciling Putative Mechanisms Using Multiple Mapping Techniques** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Kowalewski, C. B., Shenasa, F., Rodrigo, M., Clopton, P., Meckler, G., Alhousseini, M. I., Swerdlow, M. A., Joshi, V., Hossainy, S., Zaman, J. B., Baykaner, T., Rogers, A. J., Brachmann, et al  
2018; 11 (6): e005846
  - **The prognostic benefit of cardiac resynchronization therapy is greater in concordant vs. discordant left bundle branch block in the Multicenter Automatic Defibrillator Implantation Trial-Cardiac Resynchronization Therapy (MADIT-CRT)** *EUROPACE*  
Padeletti, L., Aimo, A., Vishensky, B., Schwartz, A., McNitt, S., Wang, P. J., Moss, A. J., Emdin, M., Zareba, W.  
2018; 20 (5): 794–800
  - **Retrospective review of Arctic Front Advance Cryoballoon Ablation: a multicenter examination of second-generation cryoballoon (RADICOL trial)** *JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY*  
Su, W., Orme, G., Hoyt, R., Baker, J., Compton, S., Fellows, C., Harding, J., Svinarich, J., Kowalski, M., Piedad, B., Kenigsberg, D., Seger, J., Ahmad, et al  
2018; 51 (3): 199–204
  - **Cryoballoon Ablation for Atrial Fibrillation: a Comprehensive Review and Practice Guide** *KOREAN CIRCULATION JOURNAL*  
Jin, E., Wang, P. J.  
2018; 48 (2): 114–23
  - **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

- **Geographic and racial representation and reported success rates of studies of catheter ablation for atrial fibrillation: Findings from the SMASH-AF meta-analysis study cohort.** *Journal of cardiovascular electrophysiology*  
Leef, G. C., Perino, A. C., Cluckey, A., Yunus, F. N., Askari, M., Heidenreich, P. A., Narayan, S. M., Wang, P. J., Turakhia, M. P.  
2018
- **Clinical Implications of Ablation of Drivers for Atrial Fibrillation: A Systematic Review and Meta-Analysis.** *Circulation. Arrhythmia and electrophysiology*  
Baykaner, T., Rogers, A. J., Meckler, G. L., Zaman, J., Navara, R., Rodrigo, M., Alhousseini, M., Kowalewski, C. A., Viswanathan, M. N., Narayan, S. M., Clopton, P., Wang, P. J., Heidenreich, et al  
2018; 11 (5): e006119
- **Patient and facility variation in costs of catheter ablation for atrial fibrillation.** *Journal of cardiovascular electrophysiology*  
Perino, A. C., Fan, J., Schmitt, S., Kaiser, D. W., Heidenreich, P. A., Narayan, S. M., Wang, P. J., Chang, A. Y., Turakhia, M. P.  
2018
- **Identification and Characterization of Sites Where Persistent Atrial Fibrillation Is Terminated by Localized Ablation** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*  
Zaman, J. B., Sauer, W. H., Alhousseini, M. I., Baykaner, T., Borne, R. T., Kowalewski, C. B., Busch, S., Zei, P. C., Park, S., Viswanathan, M. N., Wang, P. J., Brachmann, J., Krummen, et al  
2018; 11 (1): e005258
- **Ablation of Atrial Fibrillation Drivers** *ARRHYTHMIA & ELECTROPHYSIOLOGY REVIEW*  
Baykaner, T., Zaman, J. B., Wang, P. J., Narayan, S. M.  
2017; 6 (4): 195–201
- **Update to Practice Standards for Electrocardiographic Monitoring in Hospital Settings: A Scientific Statement From the American Heart Association** *CIRCULATION*  
Sandau, K. E., Funk, M., Auerbach, A., Barsness, G. W., Blum, K., Cvach, M., Lampert, R., May, J. L., McDaniel, G. M., Perez, M. V., Sendelbach, S., Sommargren, C. E., Wang, et al  
2017; 136 (19): E273–E344
- **The continuous challenge of AF ablation: From foci to rotational activity.** *Revista portuguesa de cardiologia : orgao oficial da Sociedade Portuguesa de Cardiologia = Portuguese journal of cardiology : an official journal of the Portuguese Society of Cardiology*  
Narayan, S. M., Vishwanathan, M. N., Kowalewski, C. A., Baykaner, T., Rodrigo, M., Zaman, J. A., Wang, P. J.  
2017; 36 Suppl 1: 9–17
- **Hybrid Atrial Fibrillation Ablation: Current Status and a Look Ahead.** *Circulation. Arrhythmia and electrophysiology*  
Khoynezhad, A., Ellenbogen, K. A., Al-Atassi, T., Wang, P. J., Kasirajan, V., Wang, X., Edgerton, J. R.  
2017; 10 (10)
- **Ablation of Focal Impulses and Rotational Sources: What Can Be Learned from Differing Procedural Outcomes?** *CURRENT CARDIOVASCULAR RISK REPORTS*  
Narayan, S. M., Rodrigo, M., Kowalewski, C. B., Shenasa, F., Meckler, G. L., Vishwanathan, M. N., Baykaner, T., Zaman, J. B., Wang, P. J.  
2017; 11 (9)
- **Treating Specialty and Outcomes in Newly Diagnosed Atrial Fibrillation From the TREAT-AF Study** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Perino, A. C., Fan, J., Schmitt, S. K., Askari, M., Kaiser, D. W., Deshmukh, A., Heidenreich, P. A., Swan, C., Narayan, S. M., Wang, P. J., Turakhia, M. P.  
2017; 70 (1): 78–86
- **Predictive value of device-derived activity level for short-term outcomes in MADIT-CRT** *HEART RHYTHM*  
Jame, S., Kutayifa, V., Polonsky, B., McNitt, S., Al-Ahmad, A., Moss, A. J., Zareba, W., Wang, P. J.  
2017; 14 (7): 1081–86
- **Multicentre safety of adding Focal Impulse and Rotor Modulation (FIRM) to conventional ablation for atrial fibrillation.** *Europace*  
Krummen, D. E., Baykaner, T., Schricker, A. A., Kowalewski, C. A., Swarup, V., Miller, J. M., Tomassoni, G. F., Park, S., Viswanathan, M. N., Wang, P. J., Narayan, S. M.  
2017; 19 (5): 769-774
- **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

- **What Explains Atrial Fibrillation Mechanisms at Sites Where Ablation Terminates Persistent Atrial Fibrillation Prior to Pulmonary Vein Isolation?** Navara, R., Meckler, G. L., Kowalewski, C. B., Shenasa, F., Baykaner, T., Zaman, U. B., Al-Husseini, M., Hossainy, S., Krummen, D., Brachmann, J., Viswanathan, M., Park, S., Turakhia, et al  
WILEY.2017: 607
- **Effect of cardiac resynchronization therapy on the risk of ventricular tachyarrhythmias in patients with chronic kidney disease** *ANNALS OF NONINVASIVE ELECTROCARDIOLOGY*  
Daimee, U. A., Biton, Y., Moss, A. J., Zareba, W., Cannom, D., Klein, H., Solomon, S., Ruwald, M. H., McNitt, S., Polonsky, B., Wang, P. J., Goldenberg, I., Kutiyifa, et al  
2017; 22 (3)
- **Two Independent Mapping Techniques Identify Rotational Activity Patterns at Sites of Local Termination during Persistent Atrial Fibrillation.** *Journal of cardiovascular electrophysiology*  
Alhousseini, M., Vidmar, D., Meckler, G. L., Kowalewski, C., Shenasa, F., Wang, P. J., Narayan, S. M., Rappel, W.  
2017
- **Electrocardiographic spatial loops indicate organization of atrial fibrillation minutes before ablation-related transitions to atrial tachycardia.** *Journal of electrocardiology*  
Baykaner, T., Trikha, R., Zaman, J. A., Krummen, D. E., Wang, P. J., Narayan, S. M.  
2017
- **Sex Differences in Inappropriate ICD Device Therapies: MADIT-II and MADIT-CRT.** *Journal of cardiovascular electrophysiology*  
Tompkins, C. M., McNitt, S., Polonsky, B., Daubert, J. P., Wang, P. J., Moss, A. J., Zareba, W., Kutiyifa, V.  
2017; 28 (1): 94–102
- **Myocardial bridging is associated with exercise-induced ventricular arrhythmia and increases in QT dispersion.** *Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocardiology, Inc*  
Nishikii-Tachibana, M., Pargaonkar, V. S., Schnittger, I., Haddad, F., Rogers, I. S., Tremmel, J. A., Wang, P. J.  
2017
- **Spatial relationship of sites for atrial fibrillation drivers and atrial tachycardia in patients with both arrhythmias.** *International journal of cardiology*  
Baykaner, T., Zaman, J. A., Rogers, A. J., Navara, R., AlHusseini, M., Borne, R. T., Park, S., Wang, P. J., Krummen, D. E., Sauer, W. H., Narayan, S. M.  
2017; 248: 188–95
- **Effect of Significant Weight Change on Inappropriate Implantable Cardioverter-Defibrillator Therapy** *PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY*  
Daimee, U. A., Biton, Y., Aktas, M. K., Zannad, F., Klein, H., Szepletowska, B., McNitt, S., Polonsky, B., Wang, P. J., Zareba, W., Moss, A. J., Kutiyifa, V.  
2017; 40 (1): 9–16
- **Recurrent Post-Ablation Paroxysmal Atrial Fibrillation Shares Substrates With Persistent Atrial Fibrillation : An 11-Center Study.** *JACC. Clinical electrophysiology*  
Zaman, J. A., Baykaner, T., Clopton, P., Swarup, V., Kowal, R. C., Daubert, J. P., Day, J. D., Hummel, J., Schricker, A. A., Krummen, D. E., Mansour, M., Tomassoni, G. F., Wheelan, et al  
2017; 3 (4): 393–402
- **Safety and Clinical Outcomes of Catheter Ablation of Atrial Fibrillation in Patients With Chronic Kidney Disease** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*  
Ullal, A. J., Kaiser, D. W., Fan, J., Schmitt, S. K., Than, C. T., Winkelmayer, W. C., Heidenreich, P. A., Piccini, J. P., Perez, M. V., Wang, P. J., Turakhia, M. P.  
2017; 28 (1): 39–48
- **Sex Differences in Inappropriate ICD Device Therapies: MADIT-II and MADIT-CRT** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*  
Tompkins, C. M., McNitt, S., Polonsky, B., Daubert, J. P., Wang, P. J., Moss, A. J., Zareba, W., Kutiyifa, V.  
2017; 28 (1): 94–102
- **Regional Longitudinal Deformation Improves Prediction of Ventricular Tachyarrhythmias in Patients With Heart Failure With Reduced Ejection Fraction: A MADIT-CRT Substudy (Multicenter Automatic Defibrillator Implantation Trial-Cardiac Resynchronization Therapy)** *CIRCULATION-CARDIOVASCULAR IMAGING*  
Biering-Sorensen, T., Knappe, D., Pouleur, A., Claggett, B., Wang, P. J., Moss, A. J., Solomon, S. D., Kutiyifa, V.  
2017; 10 (1)

- **Effect of cardiac resynchronization therapy on the risk of ventricular tachyarrhythmias in patients with chronic kidney disease.** *Annals of noninvasive electrocardiology : the official journal of the International Society for Holter and Noninvasive Electrocardiology, Inc*  
Daimee, U. A., Biton, Y., Moss, A. J., Zareba, W., Cannom, D., Klein, H., Solomon, S., Ruwald, M. H., McNitt, S., Polonsky, B., Wang, P. J., Goldenberg, I., Kutiyifa, et al  
2017; 22 (3)
- **Overview of Balloon Approaches to AF Ablation Some Like it Hot?** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Wang, P. J.  
2016; 68 (25): 2758–60
- **Effectiveness and Safety of an Independently Run Nurse Practitioner Outpatient Cardioversion Program (2009 to 2014)** *AMERICAN JOURNAL OF CARDIOLOGY*  
Norton, L., Tsiperfal, A., Cook, K., Bagdasarian, A., Varady, J., Shah, M., Wang, P.  
2016; 118 (12): 1842-1846
- **Safety and Clinical Outcomes of Catheter Ablation of Atrial Fibrillation in Patients with Chronic Kidney Disease.** *Journal of cardiovascular electrophysiology*  
Ullal, A. J., Kaiser, D. W., Fan, J., Schmitt, S., Than, C. T., Winkelmayr, W. C., Heidenreich, P. A., Piccini, J. P., Perez, M. V., Wang, P. J., Turakhia, M. P.  
2016
- **Novel usage of the cryoballoon catheter to achieve large area atrial substrate modification in persistent and long-standing persistent atrial fibrillation** *JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY*  
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