

J. Jason West, M.D.

Summary – I am a clinical cardiac electrophysiologist with extensive experience caring for patients with complex arrhythmias. I am passionate about quality improvement and systems-based approaches to care delivery. I am a proven physician leader within multiple practice settings with considerable knowledge of cost-savings strategies and strategic planning.

1. Education:

1991-1995 Bachelor of Science in Biological Sciences, Stanford University Stanford, CA
1996-2000 Doctor of Medicine, Vanderbilt University School of Medicine, Nashville, TN
2019-2022 Masters of Business Administration, Oregon Health & Science University/Portland State University, Portland, OR (anticipated graduation June 2022)

2. Postgraduate Training:

2000-2003 Internal Medicine Residency Program, University of Washington, Seattle, WA
2004-2007 Fellow in Cardiology, University of Virginia, Charlottesville, VA
2007-2008 Fellow in Cardiac Electrophysiology, University of Virginia, Charlottesville, VA

3. Professional Experience:

2003-2004 Acting Instructor/Attending, Emergency Department, Harborview Medical Center, University of Washington Seattle, WA
2003-2004 Medical Officer of the Day/Attending Emergency Department VA Puget Sound Health Care System American Lake, WA
2006-2008 Staff Physician Cardiology, Halifax Regional Hospital, South Boston, VA
2008-2010 Assistant Professor, Cardiac Electrophysiology, Division of Cardiology, Department of Internal Medicine, University of Texas Medical School at Houston, Houston, TX
2008-2010 Assistant Professor, Cardiac Electrophysiology, Department of Cardiology, Division of Internal Medicine, University of Texas MD Anderson Cancer Center Houston, TX
2010-2015 Staff Cardiologist/Partner, Bend Memorial Clinic, Bend, OR
2015-2019 Staff Cardiologist/Partner, Southern Oregon Cardiology, Medford, OR
2020-Present Assistant Professor, Cardiac Electrophysiology, Division of Cardiology, Department of Internal Medicine, University of Colorado, Denver, CO

4. Licensure:

2000-2004 State of Washington Medical License, License MD00041725
2004-2008 State of Virginia Medical License, License 0101240101

2008-2010 State of Texas Medical License, License N0546
2010-2020 State of Oregon Medical License, License 150736
2020-Present State of Colorado Medical License, License DR0063095

5. Board Certification:

2003 Diplomate of the American Board of Internal Medicine (ABIM), Internal Medicine
2007 Diplomate of the ABIM, Cardiovascular Disease
2009 Diplomate of the ABIM, Clinical Cardiac Electrophysiology

6. Leadership Positions:

2008-2010 Director, University of Texas Cardiovascular Imaging and Arrhythmia Diagnostic Center Houston, TX
2010-2015 Councilor, Oregon Chapter American College of Cardiology, Portland, OR
2012-2015 Chairman, Professional Practice Evaluation Committee, St. Charles Medical Center Bend, OR
2014-2015 Member, Board of Directors, Bend Memorial Clinic, Bend, OR
2018-2019 Member, Board of Directors, Southern Oregon Cardiology, Medford, OR
2019-Present Director, Cardiac Electrophysiology, Denver Health & Hospital Authority, Denver, CO

7. Honors:

1991-2000 Frank H. & Eva B. Buck Foundation Scholar, Buck Foundation, Vacaville, CA, Provided full educational funding at Stanford University and Vanderbilt University
2002 Huesbey Award for Clinical Excellence, Swedish Medical Center-Providence Campus, University of Washington, Seattle, WA

8. Professional Memberships:

2000-2003 American College of Physicians
2004-Present American College of Cardiology
2007-2008 American Heart Association
2007-Present Heart Rhythm Society

9. Administrative/Organizational Activities:

1996-2000 Curriculum Committee, Vanderbilt University Medical School, Nashville, TN
2000-2003 Housestaff Committee, University of Washington, Seattle, WA
2005-2008 Therapeutic Hypothermia Protocol & Registry, University of Virginia, Charlottesville, VA
2008-2010 Medical Staff Quality Review Committee, Memorial Hermann Hospital, Houston, TX

- 2008-2010 Heart & Vascular Institute Operations Committee, Memorial Hermann Hospital, Houston, TX
- 2008-2010 Cardiovascular Disease Research Steering Committee, University of Texas Health Science Center, Houston, TX
- 2010 Panelist, Medical Peer Review, Texas Medical Board, Austin, TX
- 2012-2015 Professional Practice Evaluation Committee, St. Charles Medical Center, Bend, OR

10. Teaching Experience:

- 2003-2004 Attending Physician, Internal Medicine, Emergency Department Harborview Medical Center, University of Washington, Seattle, WA
- 2003-2004 MedicOne Foundation, Paramedic Training Program, Harborview Medical Center, University of Washington Seattle, WA
- 2008-2010 Attending Physician, Cardiac Electrophysiology Consult Service, University of Texas Health Science Center, Houston, TX
- 2010 Course Co-Director & Moderator, Electrophysiology and Heart Failure Concepts in Contemporary Cardiovascular Medicine, Houston, TX
- 2019-Present Attending Physician, Denver Health Coronary Care Unit, Denver Health and Hospital Authority, Denver, CO
- 2020-Present Attending Physician, University of Colorado Electrophysiology Consultation Service, Denver CO

11. Invited Lectures & Presentations:

- 10/2003 ACP-ASIM Washington Chapter Scientific Meeting, "Myocardial Infarction Resulting from Inhalational Amphetamine Use" Seattle, WA
- 5/2007 Cardiology Grand Rounds University of Virginia, "Identifying Athletes at Risk for Sudden Cardiac Arrest: Balancing Cost and Risk" Charlottesville, VA
- 3/2008 Cardiology Research Conference University of Colorado, "Protecting Athletes from Sudden Cardiac Death: Assessing Risk, Cost, and New Frontiers" Denver, CO
- 11/2007 AHA Scientific Sessions, "Characterization of the Mitral Isthmus for Atrial Fibrillation Ablation Using Intracardiac Ultrasound from Within the Coronary Sinus." Orlando, FL
- 1/2009 Cardiology Grand Rounds University of Texas at Houston, "Protecting Athletes from Sudden Cardiac Death: Assessing Risk, Cost, and New Frontiers" Houston, TX
- 2/2009 Preventive Cardiology Forum XIX, "Prevention of Sudden Cardiac Death: Assuring the Calm Before and After the Electrical Storm" Houston, TX
- 4/2009 Internal Medicine Grand Rounds University of Texas at Houston, "Electrical Management of the Failing Heart: Keeping Pace" Houston, TX
- 4/2009 Cardiology Grand Rounds University of Texas at Houston, "Preventing Sudden Cardiac Death: Surviving the Electrical Storm" Houston, TX

5/2009	ACSM Scientific Sessions “Temporal Electrocardiographic Changes In Athletes Undergoing Pre-participation Screening” Seattle, WA
5/2009	ACSM Scientific Sessions “Aborted Sudden Cardiac Death During Sport Participation Resulting From Non-obstructive Hypertrophic Cardiomyopathy” Seattle, WA
8/2009	Department of Surgery Grand Rounds University of Texas at Houston, “Perioperative Arrhythmias: How Electrical Instability Complicates Recovery” Houston, TX
12/2009	Department of Cardiology Grand Rounds M.D. Anderson Cancer Center, “A Year at M.D. Anderson: An Electrical Journey” Houston, TX
4/2010	Concepts in Contemporary Cardiovascular Medicine “Appropriate Patient Selection and Timing of ICD Implantation In STEMI Patients Who are Status Post Cardiac Arrest” Houston, TX
4/2010	Concepts in Contemporary Cardiovascular Medicine “Ablation Smation! With LAA Occlusion We Don’t Need EP For AFib Anymore!” Houston, TX
11/2013	Harney District Hospital, “An EP Perspective on AFib,” Burns, OR
2/2015	Osteopathic Physicians & Surgeons of Oregon Winter Conference, “Management of AFib: Soup to Nuts,” Sunriver, OR
10/2018	Cardiology Day: Asante Rogue Regional Medical Center, “Rhythm Management for Atrial Fibrillation – So Many Options!” Medford, OR
12/2021	University of Colorado Cardiology Fellow Academic Day, “The Left Atrial Appendage”, Aurora, CO

12. Abstracts/Posters:

1. Hoppe E, Alvarnas J, **West J**, Negrin R. Upregulation of a 46 Kda Collagen Binding Protein Correlates with Protection of HUVEC Cells in vitro Against Cytolysis by CD3+56+ CTL and IL-2 Stimulated Natural Killer Cells. Abstract. Blood 1995;86(10):322a (Abstract1277).
2. Alvarnas J, Hoppe E, **West J**, Negrin R. Mechanistics Studies of the Lysis of Human Umbilical Vein Endothelial Cells (HUVECs) by Cytokine-Induced Killer (CIK) Cells Expanded from Peripheral Blood Mononuclear Cells and Cord Blood. Abstract. Blood 1996;88(10):39b (Abstract 2882)
3. **West JJ**, Norton PT, Kramer CM, Mounsey JP, Moorman JR, Mahapatra S, DiMarco JP, Mangrum JM, Ferguson JD. Characterization of the Mitral Isthmus for Atrial Fibrillation Ablation Using Intracardiac Ultrasound from Within the Coronary Sinus. Abstract. Circulation. 2007;116:II_393.
4. Olson E, **West JJ**, Patel AR, Goodman NC, Rangavajhala V, Kramer CM, Ferguson JD. Evaluation of CT / NavX Registration Accuracy in a Swine Model. Abstract. Boston Atrial Fibrillation Symposium 2008.
5. **West JJ**, MacKnight JM, Saliba EN, Rose BS, Ferguson JC, DiMarco JP, Mahapatra S, Mounsey JP, Mistry DJ. Electrocardiographic Abnormalities Are Common Among Pre-participation ECGs in a Population of Elite US College Athletes. Abstract. J Am Coll Cardiol.2008; 51: A1-A34.

6. **West JJ**, Patel A, Goodman NC, Olson E, Rangavajhala V, Kramer CM, Ferguson JD. Validation of Image Integration in a Swine Model: The Accuracy of Catheter Navigation After Integration of Three-Dimensional Computed Tomography Images With a Catheter Geometry. Abstract. *J Am Coll Cardiol*.2008;51: A1-A34.
7. **West JJ**, Higgins JP, McPherson DD, Mistry DJ, MacKnight JM, Saliba EN, Damani R, Rose BS, Mahapatra S. Rates of Abnormal Screening Electrocardiograms Differ Greatly Between US Collegiate Cohorts. Abstract. *J Am Coll Cardiol*.2009;53:A139.
8. Malhotra R, Mistry D, Ferguson JD, **West JJ**, Mahapatra S. The yield and Cost of Preparticipation EKG Screening of Elite Collegiate Athletes. Abstract. *Heart Rhythm*. 2009;6:S434.
9. **West JJ**, Higgins JP. Temporal Electrocardiographic Changes In Athletes Undergoing Pre-participation Screening. Abstract. *Med Sci Sport Exer*.2009;41:A796.
10. **West JJ**, Higgins JP. Aborted Sudden Cardiac Death During Sport Participation Resulting From Non-obstructive Hypertrophic Cardiomyopathy. Abstract. *Med Sci Sport Exer*.2009;41:A1180.
11. Damani R, Ananaba I, **West JJ**, Higgins JP. Prevalence of LVH in Athletes Classified By Race and Gender. Abstract. *Med Sci Sport Exer*.2009;41:A2885.
12. Damani R, Ananaba I, **West JJ**, Higgins JP. Diagnosis of Left Ventricular Hypertrophy By Lead Criteria in the Analysis of ECGs Over Time in Young Athletes. Abstract. *Med Sci Sport Exer*.2009;41:A2894.
13. Kantharia BK, Ho T, Sharma S, Lenihan D, **West J**, Dougherty A, Durand J Safety and Efficacy of Permanent Pacemaker Therapy in Cancer Patients Do Not Differ From General Population. Abstract *Journal of Cardiovascular Electrophysiology*. 2009;20:S20.
14. Higgins JP, Laing ST, **West JJ**, Biliciler-Denktaş G, Samuels J, Rajmane A, Holste JT, Patel M, Reyes MM, Cordova FJ, Yoho JA, McKee WJ, McPherson DD. Feasibility of a Four-Point Test to Screen for Cardiac Abnormalities in Asymptomatic At-Risk Children (Houston Early Age Risk Testing and Screening---HEARTS). *Circulation*. 2009;120:S410.
15. Tumolo AZ, Butcher E, Hyson P, Charlton A, Trujillo T, Shakowski C, Page R, Fleeman BE, Mantini N, Miller BE, Chang SC, Aleong RG, Borne RT, Nguyen DT, Rosenberg MA, Sandhu A, Sanchez JM, Sauer WH, Schuller J, Tompkins C, Tzou WS, Varosy PD, **West J**, Zipse MM. Development Of A Heparin Dosing Algorithm Through Machine Learning To Match Heparin Requirements For Uninterrupted Apixaban During Catheter Ablation Of Atrial Fibrillation (ID 1069). *Heart Rhythm*. 2020
16. Mantini N, Chang SC, Miller BE, Sandhu A, Varosy PD, Sanchez JM, **West JJ**, Tumolo AZ, Borne RT, Nguyen DT, Sauer WH, Zipse MM, Tzou WS. The Shoehorn Transseptal: Catheter Use Facilitates Challenging Transseptal Punctures (ID 300). *Heart Rhythm*. 2020.
17. Sabzwari SRA, Mann JA, Cerbin L, Barrett C, **West JJ**, Tumolo AZ, Garg L, Rosenberg MA, Aleong RG, Varosy PD, Tzou WS, Sandhu A, Zipse MM. A Fixed Valve but a Damaged Lead. *J Am Coll Cardiol*. 2022 Mar, 79 (9_Supplement) 2526.
18. Barrett C, Aftab M, Aleong R, Tumolo AZ, Tzou WS, Rosenberg MA, **West JJ**, Cerbin L, Mann JA, Sabzwari SRA, Sandhu A, Zipse MM,. THE LEAD IS SHOT: AN UNLIKELY CAUSE OF ICD LEAD FRACTURE AND DEVICE MALFUNCTION. *J Am Coll Cardiol*. 2022 Mar, 79 (9_Supplement) 2546.[https://doi.org/10.1016/S0735-1097\(22\)03537-9](https://doi.org/10.1016/S0735-1097(22)03537-9)

19. Park D, Sabzwari SRA, Mann JA, Cerbin L, Barrett C, **West JJ**, Sandhu A, Varosy PD, Tumolo AZ, Aleong RG, Rosenberg MA, Garg L, Zipse MM, Tzou WS. Electrocardiographic Discordance to Predict Left Ventricular Summit Ventricular Arrhythmia Origin. *Heart Rhythm* 2022.

13. Publications:

1. **West JJ**, Norton PT, Kramer CM, Mounsey JP, Moorman JR, Mahapatra S, DiMarco JP, Mangrum JM, Ferguson JD. Characterization of the Mitral Isthmus for Atrial Fibrillation Ablation Using Intracardiac Ultrasound from Within the Coronary Sinus. *Heart Rhythm Journal*. 2008;5:19–27.
2. **West JJ**, Mounsey JP. Wolff-Parkinson-White Syndrome and Asymptomatic Ventricular Pre-excitation: Implications in Sports Cardiology. *Current Sports Medicine Reports*. 2008;7:86-92.
3. **West JJ**, Simpson AG. What are the Limitations of the ECG in Clinical Practice. In Brady WJ, Truitt JD (Ed.), *Critical Issues in Electrocardiography: Implications in Emergency and Critical Care*. Pages 19 - 23. Blackwell Publishing Ltd. Copyright © 2009
4. Patel AR, Fatemi O, Norton PT, **West JJ**, Helms A, Kramer CK, Ferguson JD. Cardiac Magnetic Resonance Imaging of the Left Atrium for Atrial Fibrillation Ablation: Volume and Morphology Changes During the Cardiac Cycle. *Heart Rhythm Journal*. 2008;5:787- 793.
5. Helms AS, **West JJ**, Patel AR, Mason PK, Mahapatra S, Bilchick KC, Mounsey JP, DiMarco JP, Mangrum JM, Ferguson JD. Real-time Rotational ICE Imaging of the Relationship of the Ablation Catheter Tip and the Esophagus During Atrial Fibrillation Ablation. *Journal of Cardiovascular Electrophysiology*. 2009;20:130-137.
6. Helms AS, **West JJ**, Patel AR, Lipinski MJ, Mangrum JM, Mounsey JP, DiMarco JP, Ferguson JD. Relation of Left Atrial Volume from 3-Dimensional Computed Tomography to Atrial Fibrillation Recurrence Following Ablation. *Am J Cardio*. 2009;103:989-993.
7. **West JJ**, Patel AR, Kramer CM, Helms AS, Olson ES, Rangavajhala V, Ferguson JD. Dynamic Registration of Pre-Ablation Imaging with a Catheter Geometry to Guide Ablation in a Swine Model: Validation of Image Integration and Assessment of Catheter Navigation Accuracy. *Journal of Cardiovascular Electrophysiology*. 2010;21:81–87.
8. Malhotra R, **West JJ**, Dent J, Luna M, Kramer CM, Mounsey JP, Battle R, Saliba EN, Rose BS, Mistry DJ, MacKnight JM, DiMarco JP, Mahapatra S. Cost and yield of adding electrocardiography to history and physical in screening Division I intercollegiate athletes: A 5-year experience. *Heart Rhythm Journal*. 2011;8:721-727.
9. Sanchez JM, Farasat M, Levy AE, Douglas IS, Stauffer BL, Tzou WS, **West JJ**. A Novel Approach to Electrocardiography in the Prone Patient. *Heart Rhythm O2*, Vol 2, No 1, Feb 2021. <https://doi.org/10.1016/j.hroo.2020.10.001>
10. Kim R, Simon S, Powers B, Sandhu A, Sanchez J, Borne R, Tumolo A, Zipse M, **West J**, Aleong R, Tzou W, Rosenberg M. Machine Learning Methodologies for Prediction of Rhythm-Control Strategy in Patients Diagnosed With Atrial Fibrillation: Observational, Retrospective, Case-Control Study. *JMIR Med Inform* 2021;9(12):e29225. URL:<https://medinform.jmir.org/2021/12/e29225>. DOI: 10.2196/29225