

**COLLEGE OF MEDICINE
UNIVERSITY OF OKLAHOMA HEALTH SCIENCES CENTER**

CURRICULUM VITAE

**I. Deborah J. (Statters) Lockwood, B.M., B.Ch., M.A., M.R.C.P., F.A.C.C.,
F.H.R.S.**

Department of Medicine/Cardiovascular Section
Heart Rhythm Institute
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II. EDUCATION

1981-1987 University of Oxford Medical School, UK

1973-1980 Kingsbridge Comprehensive School
Kingsbridge, Devon, UK

III. PROFESSIONAL EXPERIENCE

07/09-present Associate Professor of Medicine
Cardiovascular Section
University of Oklahoma Health Sciences Center
Oklahoma City, Oklahoma

07/02-06/09 Assistant Professor of Medicine
Cardiovascular Section
University of Oklahoma Health Sciences Center
Oklahoma City, Oklahoma

07/00-6/02 Electrophysiology Fellow
Massachusetts General Hospital, Boston

01/99-6/00 Electrophysiology Fellow
Manchester Royal Infirmary, UK

4/97-12/98 Specialist Registrar-Cardiology/General Medicine
Good Hope Hospital, Birmingham UK

10/95-3/97 Cardiology Registrar
Queen Elizabeth Hospital, Birmingham UK

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|-------------|--|
| 11/92-10/95 | British Heart Foundation Junior Cardiology Research Fellow St. George's Hospital, London UK |
| 03/92-10/92 | Cardiothoracic SHO St. George's Hospital, London UK |
| 08/91-01/92 | Cardiology SHO Bristol Royal Infirmary, Bristol UK |
| 08/90-07/91 | General Medicine SHO Bristol General Hospital, Bristol UK |
| 02/90-07/90 | Infectious Diseases SHO Royal Free Hospital, London UK |
| 08/88-01/90 | General Medicine SHO Mansfield Hospital Group, Notts UK |
| 02/88-07/88 | House Surgeon Churchill Hospital, Oxford UK |
| 08/87-01/88 | House Physician Royal United Hospital, Bath UK |

IV. CERTIFICATION OR BOARD STATUS

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| Certificate of Completion of Specialist Training in Cardiology and General Internal Medicine (UK Board Certification equivalent) | 07/01/00 |
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| DEA | 07/02/02 |
| BNDD | 07/02/02 |

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|---|----------|
| B.M. B.Ch. Oxford University Medical School | 1987 |
| Honors B.A. Physiological Sciences, Oxford. | 1984 |
| Converted to M.A | 1987 |
| Membership Royal College of Physicians | 1992 |
| USMLE Basic Science | 10/21/98 |
| USMLE Clinical Science | 03/03/99 |
| Clinical skills assessment | 09/21/99 |
| USMLE Step 3 | 12/03/01 |
| NASPexam (IBHRE) | May 2001 |

V. LICENSES

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| 07/01/00 | Massachusetts (limited license) | inactive |
| 07/02/02 | Oklahoma | active |

VI. RESEARCH AND SCHOLARSHIP

1. **Thoracoscopically-Assisted Epicardial Bilateral Pulmonary Vein Isolation Using the AtriCure Bipolar System and Exclusion of the Left Atrial Appendage for the Treatment of Atrial Fibrillation. IRB#12421 IDE#G050028/S001**

Co-Principle Investigators: **Deborah J. Lockwood** and Marvin Peyton
Sponsor: **AtriCure, Inc.** Projected Grant Award: \$35,810
Start Date: 9/1/2005 End Date 9/30/2015

Study Objective: The objectives of this study are to: 1) refine the procedure of performing endoscopically assisted pulmonary vein isolation and LAA excision/exclusion through bilateral mini-thoracotomies; 2) assess the feasibility and safety of performing this surgical procedure in patients with AF of all classifications (paroxysmal, persistent, and permanent); and 3) assess the clinical outcomes in these patients through four months post procedure, with follow-up continuing through ten years after surgery.

2. **Localization of the anterograde and retrograde components of the reentrant circuit of AV nodal reentrant tachycardia. IRB#11255**

Principal Investigator: **Deborah J. Lockwood**
Collaborating Investigators: Sunny Po, Warren Jackman, Karen Beckman, Richard Wu
Sponsor: **Cardiac Arrhythmia Research Institute**
Start Date: 3/25/2004 End Date: Open

Study Objective: The purpose of this study is to identify the location of the components of the circuit, which allows AV nodal reentry tachycardia to occur. The most common location of one part of the circuit is known, and will provide the primary target of the planned ablation procedure if the diagnosis of AVNRT is confirmed. In some patients ablation at this site does not eliminate the abnormal rhythm and other targets are sought.

3. **Ablation of inappropriate sinus tachycardia syndrome by targeting cardiac neural input. IRB#11468**

Principal Investigator: **Deborah J. Lockwood**
Collaborating Investigators: Sunny Po, Warren Jackman, Karen Beckman, Richard Wu

Sponsor: **Cardiac Arrhythmia Research Institute**
Start Date: 6/7/2004 End Date: Open

Study Objective: The purpose of this study is to determine whether radiofrequency catheter ablation, targeting the nerve that stimulates the sinus node, can effectively and safely reduce the sinus node rate and reduce symptoms of palpitations.

4. **ATTRAC II Study: Arrhythmia Treatment with a Thermocouple Radiofrequency Ablation Catheter-Remote Protocol IRB#11949 IDE#G020129 C7028301**

Principal Investigator: **Karen Beckman and Hiroshi Nakagawa**
Collaborating Investigators: Sunny Po, Richard Wu, Deborah Lockwood and Warren Jackman
Sponsor: **Stereotaxis, Inc.** Projected Grant Award: \$65,630
Start Date: 6/2/2005 End Date: 6/1/2006

Study Objective: This is a clinical study to evaluate the safety and efficacy of the Hilio II, a 3-magnet Ablation Catheter, with the Cardiodrive Catheter Advancement System, to eliminate Accessory Atrioventricular pathways in patients with overt or concealed WPW, AV nodal re-entrant tachycardia, and creation of complete AV nodal block in patients with difficult to control ventricular response due to an atrial arrhythmia.

5. **Determinants of Catheter Ablation Failure IRB#09585 C3021501**

Principal Investigator: **Sunny S. Po**
Collaborating Investigators: Warren Jackman, Karen Beckman, Hiroshi Nakagawa, Richard Wu, Deborah Lockwood
Sponsor: **NIH** Projected Grant Aware: \$669,195
Start Date: 1/22/2004 End Date: 11/30/2007

Study Objective: The purpose of this study is to find out the factors causing unsuccessful catheter ablations in approximately 10% of the patients with paroxysmal supraventricular tachycardia.

6. **Mechanisms of Arrhythmias and Long-Term Follow-Up of Patients Undergoing Catheter Ablation. IRB#09343**

Co-Principal Investigators: **Warren Jackman and Karen Beckman**
Collaborating Investigators: Sunny Po, Richard Wu and Deborah Lockwood
Sponsor: **Cardiac Arrhythmia Research Institute**
Start Date: 2/25/2001 End Date: Open

Study Objective: The purpose of this study is to assess the long-term effects of catheter ablation procedures performed at this institution, including recurrence of the ablated arrhythmia and any late complications.

7. **NAVI-STAR® THERMO-COOL™ Catheter For Ablation of Atrial Fibrillation IRB#10971 IDE#G030138**

Co-Principal Investigators: **Warren M. Jackman and Hiroshi Nakagawa**

Collaborating Investigators: Karen J. Beckman, Sunny S. Po, Richard Wu and Deborah Lockwood

Sponsor: **Cardiac Arrhythmia Research Institute**

Start Date: 10/2003 End Date: Open

Study Objective: The purpose of this research study is to test the safety and effectiveness of an experimental catheter for ablation of atrial fibrillation. This experimental catheter uses a flow of saline through the catheter, which cools the tip, allowing the use of higher power for ablation. The higher power will increase the depth of the ablation and may increase the chance to eliminate the atrial fibrillation.

8. **VERITAS: Ventricular Electroanatomical mapping to assess the Risk of life Threatening Arrhythmias IRB#10969**

Co-Principal Investigators: **Warren Jackman and Hiroshi Nakagawa**

Collaborating Investigators: Karen Beckman, Sunny Po, Richard Wu, Deborah Lockwood, Jorge Saucedo, Thomas Hennebry

Sponsor: **Cardiac Arrhythmia Research Institute**

Start Date: 1/22/2004 End Date: Open

Study Objective: The long-term objectives of this study are to develop criteria, based on an initial LV endocardial map during sinus rhythm, to identify a large group of post MI patients with low LVEF who do not require ICD therapy, and determine whether LV endocardial mapping should be repeated and at which interval of time to identify arrhythmogenic remodeling.

9. **A Clinical Study for the Assessment of Safety and Efficacy of the High Intensity Focused Ultrasound (HIFU) System for Pulmonary Vein Isolation IRB#11126 IDE#G030184 C#7022101**

Principal Investigator: **Richard Wu (formerly Warren Jackman)**

Collaborating Investigators: Karen Beckman, Sunny Po, Warren Jackman and Deborah Lockwood

Sponsor: **ProRhythm, Inc.** Projected Grant Award: \$225,170

Start Date: 1/30/2004 End Date: 1/27/2006

Study Objective: The purpose of this investigation is to establish that the High Intensity Focused Ultrasound System for Pulmonary Vein isolation (HIFU System) is safe and effective as a cardiac ablation device for the electrical isolation of the pulmonary veins in the treatment of paroxysmal and persistent atrial fibrillation.

10. **Focused Circumferential UltraSound for the Treatment of Atrial Fibrillation IRB#12656 IDE#G030184**

C# not yet assigned.

Principal Investigator: **Richard Wu**

Collaborating Investigators: Karen Beckman, Sunny Po, Warren Jackman and Deborah Lockwood

Sponsor: **ProRhythm, Inc.** Projected Grant Award: \$154,806

Start Date: 6/1/2006 End Date: 2/27/07

Study Objective: This clinical study is a prospective, randomized, controlled, multicenter clinical trial to evaluate the safety and effectiveness of the HIFU PV Ablation system in Pulmonary Vein Isolation procedures for the treatment of atrial fibrillation. The primary endpoint will compare the rate of patient clinical success in the treatment group (using the HIFU system) against the control group (medical therapy with AADs). Secondly, chronic success and quality of life endpoints shall be evaluated separately.

11. **New Approaches for the Treatment of Supraventricular Tachycardias IRB#11097**

Principal Investigator: **Sunny Po**

Sponsor: **Cardiac Arrhythmia Research Institute**

Start Date: 10/14/2003 End Date:

Study Objective: The aim of this study is to evaluate success of ventricular rate control with medications in patients with decreased left ventricular function and hypotension.

12. **Implantable Cardioverter Defibrillator Registry for long QT Syndrome (ICD-LQTS): Observational Study IRB#12078**

Principal Investigator: **Karen Beckman**

Collaborating Investigator: Richard Wu, Deborah Lockwood and Sunny Po

Sponsor: **Cardiac Arrhythmia Research Institute**

Start Date: 3/2005 End Date: Open

Study Objective: To determine the life-saving effectiveness and safety of ICD therapy in people with LQTS, a registry bank will be formed to monitor the clinical experiences of people with PQTS who have an ICD. Information for the registry bank will be obtained via an enrollment questionnaire, and medical information.

13. **NaviStar ThermoCool Evaluation of the Catheter with the Stockert 70 Radiofrequency Generator for Endocardial Ablation in Patients with Typical Atrial Flutter, Condition of Approval Studyt, PMA #P030031**

Principal Investigator: **Richard Wu**

Collaborating Investigator: Deborah Lockwood, Sunny Po and Karen Beckman

Sponsor: Biosense Webster

Projected Grant Award: \$50,000

Start Date: 6/1/2006

End Date:

Study Objective; Subjects with symptomatic typical atrial flutter will be considered for this condition of approval study. The study will be conducted at up to 30 centers in a minimum of 221 evaluable subjects. The primary objective is to provide additional, corroborative safety and efficacy data for the NaviStar ThermoCool catheter for the treatment for subjects with typical atrial flutter.

VII. PUBLICATIONS

Refereed Journals:

1. Stavrakis S, Jackman WM, Nakagawa H, Sun Y, Xu Q, Beckman KJ, **Lockwood D**, Scherlag BJ, Lazzara R, Po SS. Risk of coronary artery injury with Radiofrequency Ablation and Cryoablation of Epicardial Posteroseptal Accessory Pathways within the Coronary Venous System. *Circulation: Arrhythmia and Electrophysiology*. February 2014, 7(1), 113-119.
2. **Lockwood D**, Nakagawa H, Peyton MD, Edgerton JR, Scherlag BJ, Sivaram CA, Po SS, Beckman KJ, Abedin M, Jackman WM. Linear left atrial lesions in minimally invasive surgical ablation of persistent atrial fibrillation: Techniques for assessing conduction block across surgical lesions. *Heart Rhythm* 2009; 6: S50-S63
3. Patterson E, Jackman WM, Beckman KJ, Lazzara R, **Lockwood D**, Scherlag BJ, Wu R, Po S. Spontaneous pulmonary vein firing in man: relationship to tachycardia – pause early afterdepolarizations and triggered arrhythmia in canine pulmonary veins in vitro. *J Cardiovasc Electrophysiol* 2007; 18(10): 1067-1075

4. Nakagawa H, Antz M, Wong T, Schmidt B, Ernst S, Ouyang F, Vogtmann T, Wu R, Yokoyama K, **Lockwood D**, Po SS, Beckman K, Davies DW, Kuck KH, Jackman WM. Initial experience using a forward directed, high-intensity focused ultrasound balloon catheter for pulmonary vein antrum isolation in patients with atrial fibrillation. *J Cardiovasc Electrophysiol* 2007;18(2):136-144.
5. Nakagawa H, Aoyama H, Beckman KJ, Po SS, Wu R, **Lockwood D**, Spector P, Calame J, Lustgarten DL, Herring L, Hasdemir C, Singh D, Lazzara R, Jackman WM. Relationship between pulmonary vein firing and extent of left atrial-pulmonary vein connection in patients with atrial fibrillation. *Circ* 2004; 109(12):1523-1529.
6. Padrini R, Butrous G, **Statters D**, Camm AJ, Malik M: Morphological algebraic models of the TU-wave patterns in idiopathic long QT syndrome. *Int J Cardiol* 2001;77(2-3):151-62.
7. Montgomery HE, Clarkson P, Dollery CM, **Statters DJ**, McEwan JR, McKenna WJ, Humphries S: Association of angiotensin-converting enzyme gene I/D polymorphism with change in left ventricular mass in response to physical training. *Circulation* 1997;96:741-747.
8. **Statters DJ**, Malik M, Redwood R, Hnatkova K, Staunton A, Camm AJ: The use of ventricular premature complexes for risk stratification after myocardial infarction in the thrombolytic era. *Am J Cardiol* 1996;77:133-138.
9. Lü F, Anderson MH, **Statters DJ**, Malik M, Camm AJ: Effects of passive tilt and submaximal exercise on spectral heart rate variability in ventricular fibrillation patients without significant structural heart disease. *Am Heart J* 1995;129:285-290.
10. **Statters DJ**. Electrocardiographic repolarization. *Am Heart J* 1995 June;129(6):1224-5.
11. Lei L, Anderson MH, **Statters DJ**, Malik M, Camm AJ. Effects of passive tilt and submaximal exercise on spectral heart rate variability in ventricular fibrillation patients without significant structural heart disease. *Am Heart J* 1995 Feb;129(2):285-90.
12. Lü F, **Statters DJ**, Anderson MH, Malik M, Camm AJ: Relationship of short- and long-term heart rate variability in patients at risk of sudden death. *PACE* 1994;17:2194-2200.

13. **Statters DJ**, Malik M, Camm AJ: QT dispersion: problems with methodology and clinical significance. *J Cardiovasc Electrophysiol* 1994;5(8):672-685.
14. Lü F, Anderson MH, Katritsis D, Sneddon J, **Statters DJ**, Malik M, Camm AJ: Decreased heart rate variability in survivors of sudden cardiac death not associated with coronary artery disease. *Br Heart J* 1994;71:16-21.
15. Lü F, **Statters DJ**, Gill JS, Katritsis D, Camm AJ: Alteration of the QT/RR relationship in patients with idiopathic ventricular tachycardia. *PACE* 1994;17:199-206.
16. Lü F, **Statters DJ**, Anderson MH, Katritsis D, Camm AJ: Is there a prolonged QT interval in sudden cardiac death survivors with a "normal" QTc? *Am Heart J* 1994;128:73-76.
17. Lü F, **Statters DJ**, Camm AJ: QT interval dispersion on 12 lead electrocardiogram in normal subjects. Its reproducibility and relation to the T wave. *Am Heart J* 1994;127:1654-1655.
18. Lü F, **Statters DJ**, Hnatkova K, Poloniecki J, Malik M, Camm AJ: Change of the autonomic influence on the heart immediately before the onset of spontaneous idiopathic ventricular tachycardia. *J Am Coll Cardiol* 1994;24:1515-1522.
19. Fei L, **Statters DJ**, Hnatkova K, Poloniecki J, Malik M, Camm AJ. Change of autonomic influence on the heart immediately before the onset of spontaneous idiopathic ventricular tachycardia. *J Am Coll cardiol* 1994 Nov 15;24(6):1515-22.
20. Fei L, **Statters DJ**, Anderson MH, Malik M, Camm AJ. Relationship between short-and long-term measurements of heart rate variability in patients at risk of sudden cardiac death. *Pacing Clin Electrophysiol* 1994 Nov;17(11 Pt 2):2194-200.
21. Fei L, **Statters DJ**, Anderson MH, Katritsis D, Camm AJ. Is there an abnormal QT interval in sudden cardiac death survivors with a "normal" QTc? *Am Heart J* 1994;128(1):73-6.
22. Fei L. **Statters DJ**, Camm AJ. QT-interval dispersion on 12-lead electrocardiogram in normal subjects: its reproducibility and relation to the T wave. *Am Heart J* 1994;127(6):1654-5.

23. Fei L, Keeling PJ, Gill JS, Bashir Y, **Statters DJ**, Poloniecki J, McKenna WJ, Camm AJ. Heart rate variability and its relation to ventricular arrhythmias in congestive heart failure. *Br Heart J* 1994;71(4):322-8.
24. Fei L, **Statters DJ**, Gill JS, Katritsis D, Camm AJ. Alteration of the QT/RR relationship in patients with idiopathic ventricular tachycardia. *Pacing Clin Electrophysiol* 1994;17(2):199-206.
25. Fei L, Anderson MH, Katritsis D, Sneddon J, **Statters DJ**, Malik M, Camm AJ. Decreased heart rate variability in survivors of sudden cardiac death not associated with coronary artery disease. *Br Heart J* 1994;71(1):16-21.
26. **Statters DJ**, Asokan VS, Littlewood SM, Snape J. Carcinoma of the caecum in a scorbutic patient. *Br J Clin Pract* 1990;44(12):738-40.

Chapters in Books:

1. **Lockwood D**, Nakagawa H, Dyer, J, Jackman WM. Electrophysiologic characteristics of atrioventricular nodal reentrant tachycardia: implication of the reentrant circuits. Zipes DP, Jalife J, eds, Cardiac Electrophysiology: From Cell to Bedside, 6th Ed. Sanders Elsevier Publishing. 2014. 767-787
2. **Lockwood D**, Nakagawa H, Jackman WM. Electrophysiologic characteristics of atrioventricular nodal reentrant tachycardia: Zipes DP, Jalife J, eds, Cardiac Electrophysiology: From Cell to Bedside, 5th Ed. Sanders Elsevier Publishing. 2009. 615-646
3. Jackman WM, **Lockwood D**, Nakagawa H, Po SS, Beckman KJ, Wu R, Wang Z, Scherlag BJ, Becker A, Lazzara R. Catheter ablation of atrioventricular nodal reentrant tachycardia. In Wilber DJ, Packer DL, Stevenson WG, eds, *Catheter ablation of cardiac arrhythmias: Basic concepts and clinical applications, 3rd Ed.* Blackwell Futura. 2008: 120-148
4. Nakagawa H, Jackman WM, Yokoyama K, Wu R, Beckman KJ, Po SS, **Lockwood D**, Oza S, Shukla H, Herring L, Lazzara R. Catheter ablation of macroreentrant right and left atrial tachycardias. In Wilber DJ, Packer DL, Stevenson WG, eds, *Catheter ablation of cardiac arrhythmias: Basic concepts and clinical applications, 3rd Ed.* Blackwell Futura. 2008: 193-217

5. **Lockwood DJ:** Sudden Cardiac Death and Risk Stratification. Fei L, Benditt D, eds. Cardiac Pacing and Defibrillation. Peoples Medical Publishing House. 2008: 296-312
6. **Lockwood D,** Otomo K, Wang Z, Nakagawa H, Beckman K, Scherlag BJ, Patterson E, Lazzara R, Jackman WJ. Electrophysiologic characteristics of atrioventricular nodal reentrant tachycardia: Implications for the reentrant circuits. Zipes DP, Jalife J, eds, Cardiac Electrophysiology: From Cell to Bedside, 4th Ed. Sanders Elsevier Publishing. 2004:537-557.

Reviews, Abstracts, Editorials:

1. **Lockwood D,** Sivaram CA, Peyton MD, Jackman WM. Does excision of the left atrial appendage during minimally invasive surgical ablation for atrial fibrillation remove the need for long term anticoagulation: The potential role of left atrial size. Stroke: Journal of the American Heart Association: International Stroke Conference Poster Presentations. Feb 22, 2010; e37-e38 (P139)
2. **Lockwood DJ,** Po S, Beckman K, Nakagawa H, Karim R, Herring L, Abedin M, Patterson E, Scherlag B, Jackman WM. Late extrastimuli (after atrial activation) captures rightward inferior extension of AV node (slow pathway) resetting Slow/Fast AV nodal reentrant tachycardia in 5 patients. Heart Rhythm 5(5S);PO2-18, 2008.
3. Nakagawa H, Katari V, **Lockwood D,** Karim R, Ikeda A, Jackman WM. Integration of left ventricular cine angiogram into magnetic maneuvering system for robotic left ventricular mapping in patients with prior myocardial infarction. Heart Rhythm 5(5S);PO3-39, 2008.
4. Nakagawa H, Katsauki Y, Katari V, Ikeda A, **Lockwood D,** Karim R, Jackman WM. High resolution robotic left atrial mapping with minimal fluoroscopy by integrating angiographic images into magnetic maneuvering system. Heart Rhythm 5(5S);PO4-41, 2008.
5. Patterson E, Jackman WM, Beckman KJ, **Lockwood DJ,** Lazzara R, Scherlag BJ, Wu R, Po SS. Spontaneous pulmonary vein firing in man-relationship to tachycardia-pause early afterdepolarizations (EADS) and triggered arrhythmia in canine pulmonary veins (PVS) Heart Rhythm 4(5);AB9-1, 2007.
6. Nakagawa H, Seres KA, Yokoyama K, Collier J, Katari V, **Lockwood D,** Po SS, Slobodova A, Herring L, Olsen J, Lazzara R, Harty RF, Beckman KJ, Jackman WM. High incidence of

asymptomatic esophageal ulceration after pulmonary vein antrum isolation in patients with atrial fibrillation. *Heart Rhythm* 4(5);AB29-1, 2007.

7. Nakagawa H, Yokoyama K, Hayam G, Katari V, Collier J, Zhang Y, Po SS, Beckman KJ, **Lockwood DJ**, Slobodova A, Herring L, Olsen J, Scherlag BJ, Lazzara R, Jackman WM. Effective localization of left atrial autonomic ganglionated plexi using a computer algorithm during mapping in atrial fibrillation. *Heart Rhythm* 4(5);AB33-6, 2007.
8. **Lockwood DJ**, Po SS, Beckman KJ, Patterson E, Scherlag BJ, Nakagawa H, Herring L, Olsen J, Lazzara R, Jackman WM. Selective capture of rightward inferior extension of AV node in slow/fast AV nodal reentrant tachycardia: evidence against the role of atrial myocardium in the triangle of Koch. *Heart Rhythm* 4(5);AB46-1, 2007.
9. Zhang Y, Nakagawa H, Collier J, Slobodova A, Katari V, Beckman KJ, Po SS, **Lockwood DJ**, Lazzara R, Jackman WM. Characteristics of left-sided Mahaim A-V pathways: report in 5 patients. *Heart Rhythm* 4(5);PO1-90, 2007.
10. Zhang Y, Nakagawa H, Po SS, Scherlag BJ, Beckman KJ, **Lockwood DJ**, Slobodova A, Katari V, Collier J, Lazzara R, Jackman WM. Effects of sequential ablation of autonomic ganglionated plexi: evidence for GP innervating multiple pulmonary veins. *Heart Rhythm* 4(5);PO5-19, 2007.
11. Nakagawa H, Yokoyama K, Katari V, Beckman KJ, **Lockwood DJ**, Po SS, Collier J, Slobodova A, Olsen J, Herring L, Scherlag BJ, Lazzara R, Jackman WM. Characterization of left atrial tachycardia after ganglionated plexi ablation plus pulmonary vein antrum isolation. *Heart Rhythm* 4(5);PO5-29, 2007.
12. Zhang Y, Nakagawa H, Po SS, Scherlag BJ, Wu R, Beckman KJ, **Lockwood D**, Kantipudi C, Goya G, Lazzara R, Jackman WM. Autonomic ganglionated plexi stimulation induces fractionated atrial potentials in contralateral pulmonary veins in patients with atrial fibrillation. *Circ* 114: Suppl II-454, 2006.
13. Nakagawa H, Yokoyama K, Wu R, Po SS, **Lockwood D**, Beckman KJ, Herring L, Lazzara R, Scherlag BJ, Jackman WM. Comparison of areas of fractionated atrial potentials and location of autonomic ganglionated plexi between patients with paroxysmal, persistent and permanent atrial fibrillation. *Heart Rhythm* 3(5):AB3-5, 2006.

14. Nakagawa H, Yokoyama K, Kantipudi C, Wu R, Lockwood D, Beckman KJ, Po SS, Herring L, Lazzara R, Scherlag BJ, Jackman WM. Feasibility of ablation of ganglionated plexi with pulmonary vein antrum isolation for ablation of paroxysmal atrial fibrillation. *Circ* 114(18) Suppl II:3504, 2006.
15. Nakagawa H, Yokoyama K, Wu R, Po SS, **Lockwood DJ**, Beckman KJ, Herring L, Lazzara R, Jackman WM. Increased inducibility of macroreentrant left atrial tachycardia with addition of autonomic ganglionated plexi ablation to pulmonary vein antrum isolation. *Heart Rhythm* 3(5):AB18-3, 2006.
16. **Lockwood DJ**, Nakagawa H, Scherlag BJ, Peyton M, Lazzara R, Po SS, Wu R, Patterson E, Jackman WM. Ablation of epicardial autonomic ganglionated plexi during minimally invasive surgical ablation of atrial fibrillation. *Heart Rhythm* 3(5):AB44-6, 2006.
17. **Lockwood DJ**, Nakagawa H, Scherlag BJ, Wolf R, Peyton M, Jackman WM. Ablation of epicardial autonomic ganglionated plexi during minimally invasive surgical ablation of atrial fibrillation. *Heart* 91 (Suppl I):A9-A10, 2005.
18. Nakagawa H, Jackman WM, Yokoyama K, Wu R, Beckman KJ, Po SS, **Lockwood D**, Oza S, Shukla H, Herring L, Lazzara R: Catheter ablation of macroreentrant right and left atrial tachycardia. *Heart View* 2005;9:P88-93.
19. Nakagawa H, Jackman WM, Scherlag BJ, Yokoyama K, Wu R, Oza SA, Shukla H, Beckman KJ, Po SS, **Lockwood D**, Herring L, Lazzara R. Relationship of complex fractionated atrial electrograms during atrial fibrillation to the location of cardiac autonomic ganglionated plexi in patients with atrial fibrillation. *Circ* 2005;112:II746.
20. Nakagawa H, Scherlag BJ, **Lockwood D**, Wolf R, Peyton M, Wu R, Yokoyama K, Po SS, Herring L, Lazzara R, Jackman WM, Armour A. Localization of left atrial autonomic ganglionated plexuses using endocardial and epicardial high frequency stimulation in patients with atrial fibrillation. *Heart Rhythm* 2005;2:S10.
21. Nakagawa H, Scherlag BJ, Wu R, Po S, **Lockwood D**, Yokoyama K, Herring L, Lazzara R, Jackman WM. Addition of selective ablation of autonomic ganglia to pulmonary vein antrum isolation for treatment of paroxysmal and persistent atrial fibrillation. *Circ* 2004;110:III-543.

22. Nakagawa H, Aoyama H, Foresti S, Holden M, Pitha JV, Wittkamp F, Wu R, Beckman KJ, Po SS, **Lockwood D**, Lazzara R, Jackman WM. Testing target navigation in magnetic maneuvering system for pulmonary vein isolation and left atrial linear lesions in a canine model catheter. *Heart Rhythm* 2004;1:S203.
23. Foresti S, **Lockwood D**, Po SS, Wu R, Nakagawa H, Beckman KJ, Aoyama H, Herring L, Oza S, Lazzara R, Scherlag BJ, Jackman WM. Two distinct retrograde slow pathways are consistent with rightward and leftward posterior extensions of the AV node. *Heart Rhythm* 2004;1:S45.
24. Nakagawa H, Singh D, Beckman KJ, **Lockwood D**, Po SS, Wu R, Aoyama H, Foresti S, Oza S, Herring L, Calame JD, Lazzara R, Jackman WM. Ablation of unmappable post-MI ventricular tachycardia using substrate mapping during sinus rhythm: predictors for a recurrence. *Heart Rhythm* 2004;1:S36.
25. Wu R, Po SS, Beckman KJ, Nakagawa H, **Lockwood D**, Foresti S, Oza S, Aoyama H, Lazzara R, Jackman WM. Isolated diastolic potentials recorded at sites distant from earliest ventricular activation in idiopathic left ventricular outflow tract tachycardia. *Heart Rhythm* 2004;1:S7.
26. Jackman WM, **Lockwood D**, Foresti S, Beckman KJ, Po SS, Nakagawa H, Wu R, Scherlag BJ, Aoyama H, Oza S, Herring L, Lazzara R: Double atrial potentials in the His bundle electrograms during slow/fast pathway AV nodal reentrant tachycardia suggest block at tendon of Todaro. *Heart Rhythm* 2004;1:S47.
27. Po SS, Beckman KJ, **Lockwood D**, Nakagawa H, Otomo K, Wu R, Singh D, Calame JD, Herring L, Ashar M,, Lazzara R, Jackman WM. AV nodal reentrant tachycardia requiring ablation from mitral annulus: selection of effective ablation site. *PACE* 2003;26:979A.
28. Nakagawa H, Aoyama H, Beckman KJ, Po SS, **Lockwood D**, Wu R, Ashar M, Singh D, Calame JD, Herring L, Lazzara R, Jackman WM. Safety and efficacy of cryo-ablation of epicardial posteroseptal accessory pathways within the middle cardiac vein close (<2mm) to a coronary artery. *PACE* 2003;26:978A.
29. Nakagawa H, Aoyama H, Beckman KJ, Wu R, **Lockwood D**, Po SS, Ashar M, Singh D, Calame JD, Herring L, Lazzara R, Jackman WM. Incidence and location of the reentrant circuit in macro

reentrant left atrial tachycardia following pulmonary vein isolation. PACE 2003;26:970A.

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40. Lü F, **Statters DJ**, Slade AK, Malik M, Camm AJ: Change in autonomic influence on the heart immediately before the onset of spontaneous idiopathic ventricular tachycardia. *J Am Coll Cardiol* 1994;23:322A. *Presented at the 43rd Annual Scientific Sessions of the American College of Cardiology.*
41. **Statters DJ**, Ward D, Camm AJ: Units QTc. *Lancet* 1993;341:629
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43. **Statters DJ**, Asokan VS, Littlewood SM, and Snape J: Carcinoma of the caecum in a scorbutic patient. *Br J Clin Practice* 1990;44:738-740.

VIII. TEACHING ACTIVITIES

Coronary Care Unit attending physician teaching residents - 2002-present

Attending for Cardiology Fellows Arrhythmia Clinic - 2002-present

Teaching of electrophysiology and ablation procedures to EP fellows – 2002-present

PCM II modular session: Principles of Clinical Examination II

Chest and Abdominal Exam, Oct 24, 03

Standardized Physical Exam Jan 28, 04

Respiratory, cardiovascular and abdomen October 2006

Comprehensive examination February 2008 and February 2009

PCM II (individual). Six groups of 6 x 2-hour sessions weekly with two 2nd year medical students on each occasion: tutorials on History & Physical – February-April 2004, 2005, 2007, 2009, 2010, 2013

Internal Medicine Core conference – Arrhythmias – April 6, 2004

Pacing lecture to Fellows Heart Failure group:

Cardiovascular Grand Rounds, OUHSC, January 10, 2003: Accessory pathways, the danger of certainty.

Cardiovascular Grand Rounds, OUHSC, August 20, 2004: The role of diverse technology in ablation

Cardiovascular Grand Rounds, OUHSC, 2006: New approaches to AF ablation.

Cardiovascular Grand Rounds, OUHSC, October 2006: A new approach to Risk Stratification for Sudden Cardiac Death

Cardiovascular Grand Rounds, OUHSC, December 2009: Minimally Invasive Surgical Ablation for Atrial Fibrillation

Medicine Grand Rounds – Debate: Should ablation be first line therapy for atrial fibrillation?

Anesthesiology Residents lecture on pacemakers and defibrillators – annually since 2010

Cardiology Fellows Core Curriculum lecture on cardioversion and temporary pacing 2011, 2012

Instructor of “Advanced Cardiac Life Support” since November 2003 and “Advanced Cardiac Life Support for experienced providers” since August 2005 (Physician Director of the ACLS for EP course at OU)

Invited and Special Lectures (representing OU Health sciences Center at other facilities / meetings)

Invited Lecture - Core Curriculum. Heart Rhythm Society Annual Scientific Sessions - San Francisco, CA. May 8, 2014. Ganglionated Plexi Ablation to Treat AF, Inappropriate Sinus Tachycardia, and Vasovagal Syncope.

Chair-Tutorial: Heart Rhythm Society Annual Scientific Sessions – Denver. May 9, 2013 Developing concepts in Device Therapy for CHF

Chair-Tutorial: Heart Rhythm Society Annual Scientific Sessions -, Denver. May 12, 2007: “My Worst Device Nightmare”

Presenter – Lecture: ACC Oklahoma Chapter meeting. Oklahoma City. April 21, 2007: “New Surgical Treatments for Atrial Fibrillation.”

Presenter – Lecture: Hackensack University Symposium of Minimally Invasive Treatment of Heart Valve Disease and Atrial Fibrillation. Nov 4, 2006: “Role of Electrophysiologist in Surgical Treatment of Atrial Fibrillation”.

Presenter-Tutorial: Heart Rhythm Society annual meeting, Boston. May 19, 2006: “Is there still a role for EP testing in ischemic heart disease for secondary prevention”.

Presenter-Tutorial: Heart Rhythm Society annual meeting-May 4-7, 2005 New Orleans. May 9, 2005: Treatment of AF in the Elderly.

Presenter-Tutorial: Heart Rhythm Society annual meeting-May 4-7, 2005 New Orleans. May 7, 2005: “EP jeopardy and interesting cases”

Presenter – Lecture: Memphis Louisiana ACC Chapter. April 12, 2005: Targeting the Autonomic Ganglionated Plexi in the Treatment of Atrial Fibrillation

Presenter – Lecture: San Francisco AATS meeting: April 10, 2005: The Basis for Surgical Treatment of AF

Invited Lecture: San Francisco. January 5, 2005: Targeting the Autonomic Ganglionated Plexi in the Treatment of Atrial Fibrillation

Symposium faculty - Lecture. Northwestern Memorial Hospital, Chicago. Curing Atrial Fibrillation and Preventing Stroke. December 10, 2004: Catheter ablation for A-Fib

Presenter – Lecture: ACC Louisiana Chapter meeting. New Orleans. December 3, 2004: New Treatments for Atrial Fibrillation.

Invited Lecture: St. Charles Hospital, Bend OR. CME – Cardiology Grand Rounds. November 16, 2004: Current treatments for Atrial Fibrillation.

Invited Lecture: Mercy Clinical Society, OKC. CME. October 7, 2004: Supra-Ventricular Tachycardia – other than Atrial Fibrillation.

Invited Lecture: Spokane, WA. Cardiology Conference September 24, 2004: – Catheter-based and surgical-based approaches to the treatment of atrial fibrillation

Invited Lecture: Stillwater Hospital CME – Cardiology Grand Rounds:
Sept 9, 2003 – The Role of New Technology in the treatment of
arrhythmias

IX. PROFESSIONAL SERVICE

Clinical

OU Physicians Clinic (2 sessions per week, one at OU Physicians
Heart & Lung Center, one at OU Physicians in Edmond)

CCU attending (approximately 1 month per year)

Attending for radiofrequency catheter ablation procedures, average of
2 full days per week.

Implantation and follow-up of pacemakers and defibrillators

X. ADMINISTRATION (COLLEGE AND UNIVERSITY SERVICE)

Member of Harrassment Committee since 2004 (representing the
College of Medicine)

Elected to Faculty Senate 2008 – present

Elected Chair of Faculty Senate July 2011- June 2012

Member of Faculty Senate Executive Committee July 2010 –June
2013

Chair of the Committee on Committees July 2009-July 2010

Member of Green Initiative Committee 2009 to present

VPR Research Review Committee 2011 and 2012

XI. MEMBERSHIPS, HONORS, AWARDS, AND SPECIAL RECOGNITION

Scholarly, Professional and Scientific Memberships

British Cardiovascular Society - Member

Heart Rhythm Society (Fellow and faculty at annual scientific
sessions)

Invited Expert Scientific Reviewer and Chair for Center for Disease
Control KO1 review panel June & August 2004

American College of Cardiology - Fellow
American Heart Association - Professional member.
Affiliated member of Madison "Who's Who" 2009/2010
Faculty Governance Award Spring 2013

XII. PROFESSIONAL GROWTH AND DEVELOPMENT

Medical Grand Rounds 2002-present
Cardiovascular Grand Rounds 2002-present
American College of Cardiology annual meeting
American Heart Association annual meeting
Heart Rhythm Society annual meeting
British Cardiovascular Society annual Scientific Sessions
Advanced Course in Catheter Ablation of Arrhythmias OUHSC
(participant at courses 3 x yearly from 2002 to present)
Stereotaxis Training – St. Louis, July 26, 2006
Atrial Fibrillation Symposium, Boston Jan 2003, 2005, 2006, 2007
Controversies in Treatment of Cardiovascular Disease, Oct 2005
SCD HeFT symposium, March 2004
IntraCardiac Echo Peer Training, Cleveland Clinic 12-13 Sept 2003
NASPE Board Review Course - September 22-25, 1999
Medtronic Defibrillator Course April 12-14, 1999
Advanced Life Support 3 day course 1998
Royal Brompton Hospital Nuclear Cardiology 5 day course 1998
Keele University Management for Specialist Registrars 1997
AICD study day at the Royal Society of Medicine 1997
London Chest Hospital TEE 2 day course 1996
Sheffield Angioplasty 3 day course 1996