



Anson M. Lee, MD

Associate Professor of Cardiothoracic Surgery (Adult Cardiac Surgery)

CLINICAL OFFICE (PRIMARY)

- **Cardiothoracic Surgery**

300 Pasteur Dr

Falk Bldg CVRB MC 5407

Stanford, CA 94305

Tel (650) 724-7500 **Fax** (650) 736-0901

Bio

BIO

Dr. Anson M. Lee is a board-certified, fellowship-trained cardiothoracic surgeon with Stanford Health Care. He is also an associate professor in the Department of Cardiothoracic Surgery, Division of Adult Cardiac Surgery at Stanford University School of Medicine.

Dr. Lee specializes in treating all types of heart disease, such as blocked arteries, structural and valve issues, and aortic conditions. He has a special interest in treating abnormal heart rhythms (arrhythmias) and performing advanced procedures, such as video-assisted thoracoscopic hybrid ablation for difficult-to-treat atrial fibrillation. He uses minimally invasive techniques whenever possible to reduce risk and ease recovery for his patients.

In addition to patient care, Dr. Lee is a dedicated heart researcher. His recent studies have focused on optimizing treatment for atrial fibrillation, heart and lung transplantation, and valve disease, as well as improving organ preservation for lung transplantation. He is one of only a few cardiothoracic surgeons in the world publishing research on hybrid ablation and has built a leading hybrid ablation center in collaboration with Stanford Medicine electrophysiologists.

Dr. Lee has published his findings in leading medical journals, such as *The Journal of Thoracic and Cardiovascular Surgery* and *The Annals of Thoracic Surgery*. He participates in drafting clinical guidelines and currently serves on the Cardiac Clinical Practice Standards Committee of the American Association for Thoracic Surgery (AATS). He has also written several book chapters on cardiac surgery techniques, complications, and innovations. He regularly shares his research and expertise around the world, from presenting at the American Heart Association (AHA) Scientific Sessions to speaking at the AATS Foundation programs and symposiums in Thailand and China.

Dr. Lee is a member of the prestigious AATS. He is also a member of the AHA and the Society of Thoracic Surgeons.

CLINICAL FOCUS

- Arrhythmia Surgery

- Atrial Fibrillation
- Arrhythmias, Cardiac
- Maze procedure
- Hybrid ablation
- Aortic Aneurysm
- Aortic Valve
- Mitral Valve
- Coronary Artery Bypass
- minimally invasive surgery
- Mitral Valve Repair
- Valve Replacement Surgery
- Heart Failure
- Heart Transplantation
- Lung Transplantation
- Reoperative Cardiac Surgery
- Transcatheter Aortic Valve Replacement
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Cardiothoracic Surgery
- Member, Bio-X
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Residency Teaching Appreciation, WashU Medicine
- Phi Beta Kappa, WashU Medicine
- Medical Student Teaching, WashU Medicine
- Dr. Harvey Butcher Prize in Surgery, WashU Medicine

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society of Thoracic Surgeons (2015 - present)
- Member, American Heart Association (2015 - present)
- Member, American Association for Thoracic Surgery (AATS) (2024 - present)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2016)
- Fellowship: Washington University School of Medicine Cardiothoracic Training (2015) MO
- Residency: Washington University General Surgery Residency (2013) MO
- Medical Education: Washington University School Of Medicine (2005) MO

LINKS

- Stanford Adult Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html>

- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-adult-cardiac-surgery>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Cardiac Surgical Arrhythmia Research Laboratory: <http://med.stanford.edu/ansonleelab.html>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

Research & Scholarship

CLINICAL TRIALS

- CTSN TR Trial, Recruiting
- HEAL-IST IDE Trial, Recruiting
- Botulinum toxin type A (AGN-151607) for the prevention of post-operative atrial fibrillation in pati, Not Recruiting

Publications

PUBLICATIONS

- **Dual Epicardial and Endocardial Procedure (DEEP) for Persistent or Longstanding Persistent Atrial Fibrillation.** *Circulation. Arrhythmia and electrophysiology*
Ellenbogen, K. A., Khojenezhad, A., La Meir, M., de Asmundis, C., Koneru, J., Johnkoski, J., Rist, K., Mumtaz, M., Link, M. G., de Groot, J. R., Driessen, A. H., Lee, M. Y., Hoff, et al
2025: e013692
- **Heart-Liver Transplantation Utilizing the En Bloc Technique: A Single-Center Experience Over Two Decades.** *The Journal of thoracic and cardiovascular surgery*
Mullis, D. M., Garrison, A., Heng, E., Zhu, Y., Elde, S., Nilkant, R., Boyd, J., Hiesinger, W., Lee, A., Shudo, Y., Gallo, A., Bonham, C. A., Woo, et al
2024
- **Survival, Function, and Immune Profiling after Beating Heart Transplantation.** *The Journal of thoracic and cardiovascular surgery*
Krishnan, A., Elde, S., Ruaengsri, C., Guenthart, B. A., Zhu, Y., Fawad, M., Lee, A., Currie, M., Ma, M. R., Hiesinger, W., Shudo, Y., MacArthur, J. W., Woo, et al
2024
- **Electrophysiological mapping of the epicardium via 3D-printed flexible arrays.** *Bioengineering & translational medicine*
Pong, T., Cyr, K. J., Carlton, C., Aparicio-Valenzuela, J., Wang, H., Babakhanian, M., Maiuolo, A., Lucian, H., Wang, P. J., Woo, Y. J., Lee, A. M.
2023; 8 (6): e10575
- **A Modified 4Ts Score for Heparin-Induced Thrombocytopenia in the Mechanical Circulatory Support Population.** *Journal of cardiothoracic and vascular anesthesia*
Pong, T., Cyr, K., Aparicio-Valenzuela, J., Carlton, C., Lee, A. M.
2023
- **Atrial Fibrillation Occurring During Acute Hospitalization: A Scientific Statement From the American Heart Association** *CIRCULATION*
Chyou, J. Y., Barkoudah, E. W., Dukes, J. W. B., Goldstein, L. B. A., Joglar, J. A. M., Lee, A. M. A., Lubitz, S. A. A., Marill, K. A. B., Sneed, K. B. M., Streur, M. M. C., Wong, G. C., Gopinathannair, R.
2023; 147 (15): E676-E698
- **Atrial Fibrillation Ablation Outcome Prediction with a Machine Learning Fusion Framework Incorporating Cardiac Computed Tomography.** *Journal of cardiovascular electrophysiology*
Razeghi, O., Kapoor, R., Alhousseini, M. I., Fazal, M., Tang, S., Roney, C. H., Rogers, A. J., Lee, A., Wang, P. J., Clopton, P., Rubin, D. L., Narayan, S. M., Niederer, et al
2023
- **Phrenic Relocation by Endoscopy, Intentional Pneumothorax Using Carbon Dioxide, and Single Lung Ventilation (PHRENICS) Technique.** *JACC. Clinical electrophysiology*
Shah, R. L., Perino, A., Wang, P., Lee, A., Badhwar, N.
2023; 9 (5): 692-696

- **High-resolution spatiotemporal changes in dominant frequency and structural organization during persistent atrial fibrillation.** *PLoS one*
Pong, T., Aparicio-Valenzuela, J., Obafemi, O., Cyr, K., Carlton, C., Taylor, C., Lee, A.
2023; 18 (2): e0271846
- **Mapping Atrial Fibrillation After Surgical Therapy to Guide Endocardial Ablation.** *Circulation. Arrhythmia and electrophysiology*
Bhatia, N. K., Shah, R. L., Deb, B., Pong, T., Kapoor, R., Rogers, A., Badhwar, N., Brodt, C., Wang, P. J., Narayan, S. M., Lee, A. M.
2022: 101161CIRCEP121010502
- **Hybrid Ablation for Atrial Fibrillation: Safety & Efficacy of Unilateral Epicardial Access.** *Seminars in thoracic and cardiovascular surgery*
Pong, T., Shah, R. L., Carlton, C., Truong, A., Fann, B., Cyr, K., Aparicio-Valenzuela, J., Brodt, C., Wang, P. J., Lee, A. M.
2022
- **Characteristics of Integrated Thoracic Surgery Residency Matriculants: A Survey of Program Directors.** *The Annals of thoracic surgery*
Obafemi, O. O., Mullis, D. M., Rogers, A. B., Lee, A. M.
2022
- **Electrophysiologic Conservation of Epicardial Conduction Dynamics After Myocardial Infarction and Natural Heart Regeneration in Newborn Piglets.** *Frontiers in cardiovascular medicine*
Wang, H., Pong, T., Obafemi, O. O., Lucian, H. J., Aparicio-Valenzuela, J., Tran, N. A., Mullis, D. M., Elde, S., Tada, Y., Baker, S. W., Wang, C. Y., Cyr, K. J., Paulsen, et al
2022; 9: 829546
- **Post-Transplant Extracorporeal Membrane Oxygenation for Severe Primary Graft Dysfunction to Support the Use of Marginal Donor Hearts.** *Transplant international : official journal of the European Society for Organ Transplantation*
Shudo, Y., Alassar, A., Wang, H., Lingala, B., He, H., Zhu, Y., Hiesinger, W., MacArthur, J. W., Boyd, J. H., Lee, A. M., Currie, M., Woo, Y. J.
2022; 35: 10176
- **Graft Type and Routing for Repair of Aorto-esophageal Fistula** *ANNALS OF THORACIC SURGERY*
Zhu, Y., Lee, A. M.
2021; 112 (3): 1033-1034
- **Sinus node sparing novel hybrid approach for treatment of inappropriate sinus tachycardia/postural sinus tachycardia: multicenter experience.** *Journal of interventional cardiac electrophysiology : an international journal of arrhythmias and pacing*
de Asmundis, C., Chierchia, G., Lakkireddy, D., Romeya, A., Okum, E., Gandhi, G., Sieira, J., Vloka, M., Jones, S. D., Shah, H., Winner, M., Patel, D., Whalen, et al
2021
- **Computational fluid dynamics simulations to predict false lumen enlargement after surgical repair of Type-A aortic dissection.** *Seminars in thoracic and cardiovascular surgery*
Shad, R., Kong, S., Fong, R., Quach, N., Kasinpila, P., Bowles, C., Lee, A., Hiesinger, W.
2021
- **INTRAOPERATIVE INDUCIBILITY OF ATRIAL FIBRILLATION IMPROVES RISK STRATIFICATION AND REDUCES POST-OPERATIVE ATRIAL FIBRILLATION**
Pong, T., Cyr, K., Carlton, C., Niesen, J., Aparicio-Valenzuela, J., Fischbein, M., Woo, Y., Boyd, J., Lee, A.
ELSEVIER SCIENCE INC.2021: 1592
- **CTA pulmonary artery enlargement in patients with severe aortic stenosis: Prognostic impact after TAVR.** *Journal of cardiovascular computed tomography*
Turner, V. L., Jubran, A., Kim, J. B., Maret, E., Moneghetti, K. J., Haddad, F., Amsallem, M., Codari, M., Hinostroza, V., Mastrodicasa, D., Sailer, A. M., Kobayashi, Y., Nishi, et al
2021
- **Graft Type and Routing for Repair of Aorto-esophageal Fistula.** *The Annals of thoracic surgery*
Zhu, Y., Lee, A. M.
2021
- **Complete transmural epicardial ablation reduces organized areas in atrial fibrillation**
Rogers, A., Ravi, N., Bhatia, N. K., Shah, R. L., Pong, T., Tung, J. S., Purewal, S., Baykaner, T., Rappel, W. J., Brodt, C. R., Wang, P. J., Lee, A., Narayan, et al
OXFORD UNIV PRESS.2020: 623

- **Impact of cognitive behavioral therapy on depression symptoms after transcatheter aortic valve replacement: A randomized controlled trial.** *International journal of cardiology*
Edwards, K. S., Chow, E. K., Dao, C., Hossepien, D., Johnson, A. G., Desai, M., Shah, S., Lee, A., Yeung, A. C., Fischbein, M., Fearon, W. F.
2020
- **Relation of Length of Survival After Orthotopic Heart Transplantation to Age of the Donor.** *The American journal of cardiology*
Shudo, Y., Guenther, S. P., Lingala, B., He, H., Hiesinger, W., MacArthur, J. W., Currie, M. E., Lee, A. M., Boyd, J. H., Woo, Y. J.
2020
- **Screening and Prophylactic Amiodarone Reduces Post-Operative Atrial Fibrillation in At-Risk Patients** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Pong, T., Cyr, K., Niesen, J., Aparicio-Valenzuela, J., Carlton, C., Fischbein, M. P., Woo, Y., Boyd, J. H., Lee, A. M.
2020; 75 (11): 1361–63
- **Type A Aortic Dissection-Experience Over 5 Decades: JACC Historical Breakthroughs in Perspective.** *Journal of the American College of Cardiology*
Zhu, Y. n., Lingala, B. n., Baiocchi, M. n., Tao, J. J., Toro Arana, V. n., Khoo, J. W., Williams, K. M., Traboulsi, A. A., Hammond, H. C., Lee, A. M., Hiesinger, W. n., Boyd, J. n., Oyer, et al
2020; 76 (14): 1703–13
- **Commentary: Arrhythmia surgery at the time of left ventricular assist device implant-use of caution.** *JTCVS techniques*
Maeda, K., Lee, A. M.
2020; 1: 60-61
- **Intrinsically stretchable electrode array enabled in vivo electrophysiological mapping of atrial fibrillation at cellular resolution.** *Proceedings of the National Academy of Sciences of the United States of America*
Liu, J. n., Zhang, X. n., Liu, Y. n., Rodrigo, M. n., Loftus, P. D., Aparicio-Valenzuela, J. n., Zheng, J. n., Pong, T. n., Cyr, K. J., Babakhanian, M. n., Hasi, J. n., Li, J. n., Jiang, et al
2020
- **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy vs Clamshell Thoracotomy.** *Transplantation proceedings*
Shudo, Y. n., Rinewalt, D. n., Lingala, B. n., Kim, F. Y., He, H. n., Boyd, J. H., Lee, A. M., Hiesinger, W. n., Currie, M. E., MacArthur, J. W., Woo, Y. J.
2020
- **Acute type A dissection causing impending rupture of abdominal aortic aneurysm previously treated with EVAR.** *Annals of vascular surgery*
Ogawa, Y., Watkins, A. C., Lee, A., Iwakoshi, S., Dua, A., Pedroza, A. J., Dake, M. D., Lee, J. T.
2019
- **"Cheese Wire" Fenestration of Dissection Intimal Flap to Facilitate Thoracic Endovascular Aortic Repair in Chronic Dissection.** *Journal of vascular and interventional radiology : JVIR*
Iwakoshi, S., Watkins, C. A., Ogawa, Y., Fischbein, M., Lee, A., Lee, J. T., Hiesinger, W., Dake, M. D.
2019
- **Comprehensive Analysis of Differential Expressed Genes Related with Myocardial Reverse Remodeling Following HeartWare Ventricular Assist Device Implantation**
Shudo, Y., Jaatinen, K. J., Nishiga, M., Chen, I. Y., Greene, C. L., Koyano, T. K., Fong, R. W., Boyd, J. H., Lee, A. M., Hiesinger, W., Woo, J.
ELSEVIER SCIENCE INC.2019: S244
- **Successful heart-lung-kidney and domino heart transplantation following veno-venous extracorporeal membrane oxygenation support** *INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY*
Zhu, Y., Shudo, Y., Lee, A. M., Woo, Y.
2019; 28 (2): 316–17
- **Intentional pneumothorax avoids collateral damage: Dynamic phrenic nerve mobilization through intrathoracic insufflation of carbon dioxide.** *HeartRhythm case reports*
Shah, R. L., Perino, A. n., Obafemi, O. n., Lee, A. n., Badhwar, N. n.
2019; 5 (9): 480–84
- **Incremental Value of Aortomitral Continuity Calcification for Risk Assessment after Transcatheter Aortic Valve Replacement.** *Radiology. Cardiothoracic imaging*

- Willeminck, M. J., Maret, E. n., Moneghetti, K. J., Kim, J. B., Haddad, F. n., Kobayashi, Y. n., Nishi, T. n., Nieman, K. n., Cauwenberghs, N. n., Kuznetsova, T. n., Higashigaito, K. n., Sailer, A. M., Yeung, et al
2019; 1 (5): e190067
- **Surgical Management for Aorto-esophageal Fistula After Endovascular Aortic Repair.** *The Annals of thoracic surgery*
Zhu, Y. n., MacArthur, J. W., Lui, N. n., Lee, A. M.
2019
 - **Evaluation of Risk Factors for Heart-Lung Transplant Recipient Outcome: An Analysis of the United Network for Organ Sharing Database.** *Circulation*
Shudo, Y. n., Wang, H. n., Lingala, B. n., He, H. n., Kim, F. Y., Hiesinger, W. n., Lee, A. M., Boyd, J. H., Currie, M. n., Woo, Y. J.
2019; 140 (15): 1261–72
 - **Diagnosing Epithelioid Hemangioendothelioma With Pericardial Involvement** *ANNALS OF THORACIC SURGERY*
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2018; 106 (4): E173–E175
 - **Outcomes of Transcatheter Aortic Valve Replacement compared to Surgical Aortic Valve Replacement in patients with prior Chest Radiation**
Chacko, Y., Zhang, X., Jaluba, K., Lee, A., Miller, D., Yeung, A. C., Kim, B., Fearon, W.
ELSEVIER SCIENCE INC.2018: B244–B245
 - **Ambulating femoral venoarterial extracorporeal membrane oxygenation bridge to heart-lung transplant** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Shudo, Y., Kasinpila, P., Lee, A. M., Rao, V. K., Woo, Y.
2018; 156 (3): E135–E137
 - **Successful heart-lung-kidney and domino heart transplantation following veno-venous extracorporeal membrane oxygenation support.** *Interactive cardiovascular and thoracic surgery*
Zhu, Y., Shudo, Y., Lee, A. M., Woo, Y. J.
2018
 - **Emergency valve-sparing aortic root replacement and coronary artery bypass grafting for giant left sinus of Valsalva aneurysm presenting as acute coronary syndrome** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Pedroza, A. J., Brewer, Z. E., Lee, A. M.
2018; 156 (2): E81–E84
 - **Diagnosing Epithelioid Hemangioendothelioma with Pericardial Involvement.** *The Annals of thoracic surgery*
Balansay, B. E., Zhang, X., Loftus, P. D., Valenzuela, J. A., Zambrano, E., Lee, A. M.
2018
 - **Emergency valve-sparing aortic root replacement and coronary artery bypass grafting for giant left sinus of Valsalva aneurysm presenting as acute coronary syndrome.** *The Journal of thoracic and cardiovascular surgery*
Pedroza, A. J., Brewer, Z. E., Lee, A. M.
2018
 - **Ambulating femoral venoarterial extracorporeal membrane oxygenation bridge to heart-lung transplant.** *The Journal of thoracic and cardiovascular surgery*
Shudo, Y., Kasinpila, P., Lee, A. M., Rao, V. K., Woo, Y. J.
2018
 - **Video-assisted thoracoscopic surgery to displace the phrenic nerve during endocardial ablation of right atrial tachycardia.** *HeartRhythm case reports*
Mesquita, J. n., Bisla, J. n., Lee, A. n., Perez, M. n.
2018; 4 (7): 304–6
 - **Acute Right Ventricular Failure After Successful Opening of Chronic Total Occlusion in Right Coronary Artery Caused by a Large Intramural Hematoma.** *Circulation. Cardiovascular interventions*
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- **Successful Minimally Invasive Surgical Ablation of Atrial Fibrillation: A Call to Do Better.** *Circulation. Arrhythmia and electrophysiology*
Lee, A. M.
2017; 10 (11)
- **Maze permutations during minimally invasive mitral valve surgery.** *Annals of cardiothoracic surgery*
Lee, A. M.
2015; 4 (5): 463-468
- **Proteomic Profiling of Early Chronic Pulmonary Hypertension: Evidence for Both Adaptive and Maladaptive Pathology.** *Journal of pulmonary & respiratory medicine*
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2015; 5 (1)
- **Quantification of the functional consequences of atrial fibrillation and surgical ablation on the left atrium using cardiac magnetic resonance imaging** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Robertson, J. O., Lee, A. M., Voeller, R. K., Damiano, M. S., Schuessler, R. B., Damiano, R. J.
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- **Importance of atrial surface area and refractory period in sustaining atrial fibrillation: Testing the critical mass hypothesis** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Lee, A. M., Aziz, A., Didesch, J., Clark, K. L., Schuessler, R. B., Damiano, R. J.
2013; 146 (3): 593-598
- **Differential calcium handling in two canine models of right ventricular pressure overload** *JOURNAL OF SURGICAL RESEARCH*
Moon, M. R., Aziz, A., Lee, A. M., Moon, C. J., Okada, S., Kanter, E. M., Yamada, K. A.
2012; 178 (2): 554-562
- **Congenital fistula from the left main coronary artery to the left atrium presenting with an acute myocardial infarction** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Anastacio, M. M., Lee, A. M., Lawton, J. S.
2012; 144 (6): E147-E148
- **Evaluation of a novel cryoablation system: in vivo testing in a chronic porcine model.** *Innovations (Philadelphia, Pa.)*
Weimar, T., Lee, A. M., Ray, S., Schuessler, R. B., Damiano, R. J.
2012; 7 (6): 410-416
- **Evaluation of a novel cryoablation system: in vitro testing of heat capacity and freezing temperatures.** *Innovations (Philadelphia, Pa.)*
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2012; 7 (6): 403-409
- **Chronic performance of a novel radiofrequency ablation device on the beating heart: Limitations of conduction delay to assess transmuralty** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
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2012; 144 (4): 859-865
- **Cardiac Surgery** *The Washington Manual™ of Surgery*
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edited by Aziz, A., Bharat, A., Fox, A., Porembka, M.
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Elsevier, Philadelphia.2011; 2nd: 1415–1424
- **A minimally invasive cox-maze procedure: operative technique and results.** *Innovations (Philadelphia, Pa.)*
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- **Vagal denervation and reinnervation after ablation of ganglionated plexi** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*

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2010; 139 (2): 444-452

- **Complications after Atrial Fibrillation Surgery** *Complications in Cardiothoracic Surgery: Avoidance and Treatment*
Lee, A., Damiano, Jr, R.
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Wiley-Blackwell, London.2010; 2nd: 404–418
- **Animal studies of epicardial atrial ablation** *HEART RHYTHM*
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Lee, A., Melby, S., Damiano, Jr, R.
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- **Efficacy and safety of right and left atrial ablations on the beating heart with irrigated bipolar radiofrequency energy: A long-term animal study** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
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2006; 132 (4): 853-860
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Gaynor, S. L., Byrd, G. D., Diodato, M. D., Ishii, Y., Lee, A. M., Prasad, S. M., Gopal, J., Schuessler, R. B., Damiano, R. J.
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Gaynor, S. L., Byrd, G. D., Diodato, M. D., Ishii, Y., Lee, A. M., Prasad, S. M., Gopal, J., Berube, D., Schuessler, R. B., Damiano, R. J.
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Blackwell Publishing, Malden, Massachusetts.2005: 233–241