



Byron Lee

Professor of Medicine (Cardiovascular)
Medicine - Cardiovascular Medicine

CLINICAL OFFICE (PRIMARY)

- **Cardiovascular Medicine**

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Bio

BIO

Dr. Byron Lee is Professor of Medicine in the Stanford Division of Cardiovascular Medicine and Cardiac Electrophysiology Section. He has published over 150 peer reviewed articles and 10 book chapters. He has written two books to help students navigate the medical school admission process: Insider's Premed Guidebook and Insider's High School Premed Guidebook. His research team studies treatments to prevent sudden cardiac death, atrial fibrillation, and complications of cardiac device lead extraction. He has won numerous teaching awards for his work with medical students, residents, and fellows. He currently teaches ECG reading to medical students in the Stanford Medical School course INDE 205 Practice of Medicine. He also serves as Chief of Cardiac Electrophysiology at the Palo VA Medical Center and Head Cardiologist for University of California Athletics.

CLINICAL FOCUS

- Clinical Cardiac Electrophysiology
- Cardiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Medicine - Cardiovascular Medicine

HONORS AND AWARDS

- Joel Karliner Faculty Teaching Award, UCSF Division of Cardiology (2021)
- UCSF School of Medicine Clinical Teaching Excellence Award, UCSF (2011)
- Stanford Hewlett Packard Award for Clinical Excellence, Stanford Division of Cardiovascular Medicine (2000)
- Beckett Award for Outstanding Teaching by a Fellow, Stanford University Medical Center (1999)

PROFESSIONAL EDUCATION

- Masters, University of California, San Francisco, Clinical Research (2006)
- Board Certification: Clinical Cardiac Electrophysiology, American Board of Internal Medicine (2003)
- Fellowship: Stanford University Clinical Cardiac Electrophysiology Fellowship (2001) CA

- Board Certification: Cardiovascular Disease, American Board of Internal Medicine (2001)
- Fellowship: Stanford University Cardiovascular Medicine Fellowship Program (2000) CA
- Residency: Stanford University Internal Medicine Residency (1997) CA
- Medical Education: Harvard Medical School (1994) MA
- Undergraduate, University of California, Berkeley , BA (1989)

LINKS

- My book: <https://www.amazon.com/Insiders-Pre-Med-Guidebook-admissions-Americas/dp/B0988RCKKD>
- My book: <https://www.amazon.com/Insiders-High-School-Pre-Med-Guidebook/dp/B0BCRTGVF6>

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **The Value of Functional Fascicular Block in Patients With Atrioventricular Re-Entrant Tachycardia.** *JACC. Clinical electrophysiology*
Higuchi, S., Gerstenfeld, E. P., Lee, A. C., Lee, B. K., Morin, D. P., Marcus, G. M., Hsia, H. H., Moss, J. D., Lee, R. J., Dewland, T. A., Vedantham, V., Tseng, Z. H., Patel, et al
2025
- **Flecainide for the Treatment of Andersen-Tawil Syndrome.** *JACC. Clinical electrophysiology*
Mann, T. D., Yoruk, A., Neves, R. A., Bergman, A. T., Bos, M. J., van der Werf, C., Gollob, M. H., Roberts, J. D., Khan, H., Sanatani, S., Vedantham, V., Lee, B. K., Yesaulov, et al
2025
- **A Tale of 2 Troubling Tachycardias.** *JACC. Clinical electrophysiology*
Kataoka, S., Yogasundaram, H., Mann, T., Lee, B., Kumareswaran, R., Supple, G. E., Hsia, H. H., Callans, D. J., Scheinman, M. M.
2024
- **Acute alcohol exposure and electrocardiographic changes: Finding from the HOLIDAY trial** *JOURNAL OF ELECTROCARDIOLOGY*
Ciuffo, L., Tung, M., Dukes, J. W., Vittinghoff, E., Moss, J. D., Lee, R. J., Lee, B. K., Tseng, Z. H., Vedantham, V., Olgin, J. E., Scheinman, M. M., Hsia, H., Ramchandani, et al
2024; 83: 26-29
- **Palpitations and Recurrent Syncope in a Young Woman** *CIRCULATION*
Lee, S., Lee, B. K.
2024; 149 (5): 402-405
- **Comparison of non-laser and laser transvenous lead extraction: a systematic review and meta-analysis** *EUROPACE*
Akhtar, Z., Kontogiannis, C., Georgiopoulos, G., Starck, C. T., Leung, L. W. M., Lee, S. Y., Lee, B. K., Seshasai, S. R. K., Sohal, M., Gallagher, M. M.
2023; 25 (11)
- **A Randomized Trial of High vs Standard Power Radiofrequency Ablation for Pulmonary Vein Isolation SHORT-AF** *JACC-CLINICAL ELECTROPHYSIOLOGY*
Lee, A. C., Voskoboinik, A., Cheung, C. C., Yogi, S., Tseng, Z. H., Moss, J. D., Dewland, T. A., Lee, B. K., Lee, R. J., Hsia, H. H., Marcus, G. M., Vedantham, V., Chieng, et al
2023; 9 (7): 1038-1047

- **Randomized Comparison of a Radiofrequency Wire Versus a Radiofrequency Needle System for Transseptal Puncture** *JACC-CLINICAL ELECTROPHYSIOLOGY*
Dewland, T. A., Gerstenfeld, E. P., Moss, J. D., Lee, A. C., Vedantham, V., Lee, R. J., Tseng, Z. H., Hsia, H. H., Lee, B. K., Wall, G. C., Chang, K. R., Yang, M. H., Marcus, et al
2023; 9 (5): 611-619
- **The Value of Programmed Ventricular Extrastimuli From the Right Ventricular Basal Septum During Supraventricular Tachycardia.** *JACC. Clinical electrophysiology*
Higuchi, S., Ito, H., Gerstenfeld, E. P., Lee, A. C., Lee, B. K., Marcus, G. M., Hsia, H. H., Moss, J. D., Lee, R. J., Dewland, T. A., Vedantham, V., Tseng, Z. H., Patel, et al
2023; 9 (2): 219-228
- **Risk Factors for Arrhythmic Death, Overall Mortality, and Ventricular Tachyarrhythmias Requiring Shock After Myocardial Infarction** *AMERICAN JOURNAL OF CARDIOLOGY*
Lai, M., Cheung, C. C., Olgin, J., Pletcher, M., Vittinghoff, E., Lin, F., Hue, T., Lee, B. K.
2023; 187: 9
- **From Improving Survival to Cost Savings for the Health System Remote Monitoring for All?** *CANADIAN JOURNAL OF CARDIOLOGY*
Cheung, C. C., Lee, B. K.
2022; 38 (6): 712-714
- **A peculiar case of palpitations and syncope** *HEART RHYTHM*
Cheung, C. C., Scheinman, M., Lee, B. K.
2022; 19 (3): 505-507
- **Acute Consumption of Alcohol and Discrete Atrial Fibrillation Events** *ANNALS OF INTERNAL MEDICINE*
Marcus, G. M., Vittinghoff, E., Whitman, I. R., Joyce, S., Yang, V., Nah, G., Gerstenfeld, E. P., Moss, J. D., Lee, R. J., Lee, B. K., Tseng, Z. H., Vedantham, V., Olgin, et al
2021; 174 (11): 1503-+
- **Incessant multiform ectopy in a young woman: What is the mechanism and treatment?** *HEART RHYTHM*
Rosenthal, D. G., Lee, B. K., Scheinman, M. M.
2021; 18 (9): 1615-1616
- **Wearable cardioverter-defibrillators: A review of evidence and indications * ,**** *TRENDS IN CARDIOVASCULAR MEDICINE*
Cheung, C. C., Olgin, J. E., Lee, B. K.
2021; 31 (3): 196-201
- **A Randomized, Double-Blind, Placebo-Controlled Trial of Intravenous Alcohol to Assess Changes in Atrial Electrophysiology.** *JACC. Clinical electrophysiology*
Marcus, G. M., Dukes, J. W., Vittinghoff, E. n., Nah, G. n., Badhwar, N. n., Moss, J. D., Lee, R. J., Lee, B. K., Tseng, Z. H., Walters, T. E., Vedantham, V. n., Gladstone, R. n., Fan, et al
2021
- **Predictors of adverse outcome in patients with frequent premature ventricular complexes: The ABC-VT risk score** *HEART RHYTHM*
Voskoboinik, A., Hadjis, A., Alhede, C., Im, S., Park, H., Moss, J., Marcus, G. M., Hsia, H., Lee, B., Tseng, Z., Lee, R., Scheinman, M., Vedantham, et al
2020; 17 (7): 1066-1074
- **Mortality during transvenous lead extraction: is there a difference between laser sheaths and rotating sheaths?-Authors' reply** *EUROPACE*
Lee, B. K., Diaz, C. L.
2020; 22 (6): 989-990
- **INTERACTION OF WIRELESS HEADPHONES, SMARTWATCHES, AND WIFI ROUTERS WITH ICDS**
Lee, B., An, N., Shi, E., Pokala, V., Chen, S.
ELSEVIER SCIENCE INC.2020: 499
- **Variable Presentations and Ablation Sites for Manifest Nodoventricular/Nodofascicular Fibers.** *Circulation. Arrhythmia and electrophysiology*
Nazer, B., Walters, T. E., Dewland, T. A., Naniwadekar, A., Koruth, J. S., Najeeb Osman, M., Intini, A., Chen, M., Biermann, J., Steinfurt, J., Kalman, J. M., Tanel, R. E., Lee, et al
2019; 12 (9): e007337

- **The wearable cardioverter-defibrillator vest: Indications and ongoing questions** *PROGRESS IN CARDIOVASCULAR DISEASES*
Sandhu, U., Rajyaguru, C., Cheung, C. C., Morin, D. P., Lee, B. K.
2019; 62 (3): 256-264
- **Wearable Cardioverter-Defibrillator after Myocardial Infarction** *REPLY NEW ENGLAND JOURNAL OF MEDICINE*
Lee, B. K., Pletcher, M. J., Olgin, J. E.
2019; 380 (6): 600-601
- **Wearable Cardioverter-Defibrillator after Myocardial Infarction.** *The New England journal of medicine*
Lee, B. K., Pletcher, M. J., Olgin, J. E.
2019; 380 (6): 600-601
- **Surface ECG and intracardiac spectral measures predict atrial fibrillation recurrence after catheter ablation.** *Journal of cardiovascular electrophysiology*
Szilágyi, J., Walters, T. E., Marcus, G. M., Vedantham, V., Moss, J. D., Badhwar, N., Lee, B., Lee, R., Tseng, Z. H., Gerstenfeld, E. P.
2018; 29 (10): 1371-1378
- **Wearable Cardioverter-Defibrillator after Myocardial Infarction** *NEW ENGLAND JOURNAL OF MEDICINE*
Olgin, J. E., Pletcher, M. J., Vittinghoff, E., Wranicz, J., Malik, R., Morin, D. P., Zweibel, S., Buxton, A. E., Elayi, C. S., Chung, E. H., Rashba, E., Borggrefe, M., Hue, et al
2018; 379 (13): 1205-15
- **Effect of a single dose of i.v. ondansetron on QTc interval in emergency department patients** *AMERICAN JOURNAL OF HEALTH-SYSTEM PHARMACY*
Li, K., Vo, K., Lee, B. K., Addo, N., Coralic, Z.
2018; 75 (5): 276-282
- **For cryoballoon ablation, time to effect is time well spent** *HEART RHYTHM*
Lee, B. K., Marcus, G. M.
2017; 14 (9): 1326-1327
- **Primary Prevention of Sudden Cardiac Death Early Post-Myocardial Infarction Root Cause Analysis for Implantable Cardioverter-Defibrillator Failure and Currently Available Options** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*
Elayi, C. S., Charnigo, R. J., Heron, P. M., Lee, B. K., Olgin, J. E.
2017; 10 (6)
- **Brain Emboli After Left Ventricular Endocardial Ablation** *CIRCULATION*
Whitman, I. R., Gladstone, R. A., Badhwar, N., Hsia, H. H., Lee, B. K., Josephson, S., Meisel, K. M., Dillon, W. P., Hess, C. P., Gerstenfeld, E. P., Marcus, G. M.
2017; 135 (9): 867-877
- **The Wearable Cardioverter-Defibrillator Is It Now the Standard of Care?** *CIRCULATION*
Lee, B. K., Olgin, J. E.
2016; 134 (9): 644-646
- **Predicting Persistent Left Ventricular Dysfunction Following Myocardial Infarction The PREDICTS Study** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Brooks, G. C., Lee, B. K., Rao, R., Lin, F., Morin, D. P., Zweibel, S. L., Buxton, A. E., Pletcher, M. J., Vittinghoff, E., Olgin, J. E., PREDICTS Investigators
2016; 67 (10): 1186-1196
- **Variable Clinical Features and Ablation of Manifest Nodofascicular/Ventricular Pathways** *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*
Hoffmayer, K. S., Lee, B. K., Vedantham, V., Bhimani, A. A., Cakulev, I. T., Mackall, J. A., Sahadevan, J., Rho, R. W., Scheinman, M. M.
2015; 8 (1): 117-U185
- **Funding source and author affiliation in TASER research are strongly associated with a conclusion of device safety** *AMERICAN HEART JOURNAL*
Azadani, P. N., Tseng, Z. H., Ermakov, S., Marcus, G. M., Lee, B. K.
2011; 162 (3): 533-537

- **Frequency of Atrial Flutter After Adult Lung Transplantation** *AMERICAN JOURNAL OF CARDIOLOGY*
Azadani, P. N., Kumar, U. N., Yang, Y., Scheinman, M. M., Hoopes, C. W., Marcus, G. M., Rifkin, C., Olgin, J. E., Lee, B. K.
2011; 107 (6): 922-926
- **Approach to Cardiac Device Malfunction.** *Cardiac electrophysiology clinics*
Lee, B. K.
2010; 2 (2): 267
- **Intracardiac and extracardiac markers of inflammation during atrial fibrillation** *HEART RHYTHM*
Marcus, G. M., Smith, L. M., Ordovas, K., Scheinman, M. M., Kim, A. M., Badhwar, N., Lee, R. J., Tseng, Z. H., Lee, B. K., Olgin, J. E.
2010; 7 (2): 149-154
- **Role of wearable and automatic external defibrillators in improving survival in patients at risk for sudden cardiac death.** *Current treatment options in cardiovascular medicine*
Lee, B. K., Olgin, J. E.
2009; 11 (5): 360-5
- **Impact of advanced age on survival in patients with implantable cardioverter defibrillators** *EUROPACE*
Pellegrini, C. N., Lee, K., Olgin, J. E., Turakhia, M. P., Tseng, Z. H., Lee, R., Badhwar, N., Lee, B., Varosy, P. D.
2008; 10 (11): 1296-1301
- **QT Dispersion Is Not associated with Sudden Cardiac Death or Mortality in Heart Transplant Recipients** *HEART SURGERY FORUM*
Marcus, G. M., Hoang, K. L., Hunt, S. A., Chun, S. H., Lee, B. K.
2008; 11 (5): E281-E284
- **Episodic ventricular pacing with intact atrioventricular nodal function in a DDDR device: What is the rhythm and how can it be prevented?** *HEART RHYTHM*
Pellegrini, C. N., Yeh, R. W., Olgin, J., Lee, B. K.
2008; 5 (6): 897-898
- **A first-degree family history in lone atrial fibrillation patients** *HEART RHYTHM*
Marcus, G. M., Smith, L. M., Vittinghoff, E., Tseng, Z. H., Badhwar, N., Lee, B. K., Lee, R. J., Scheinman, M. M., Olgin, J. E.
2008; 5 (6): 826-830
- **Alcohol intake is significantly associated with atrial flutter in patients under 60 years of age and a shorter right atrial effective refractory period** *PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY*
Marcus, G. M., Smith, L. M., Whiteman, D., Tseng, Z. H., Badhwar, N., Lee, B. K., Lee, R. J., Scheinman, M. M., Olgin, J. E.
2008; 31 (3): 266-272
- **Alcohol intake is significantly associated with atrial flutter in patients under 60 years of age and a shorter right atrial effective refractory period.** *Pacing and clinical electrophysiology : PACE*
Marcus, G. M., Smith, L. M., Whiteman, D., Tseng, Z. H., Badhwar, N., Lee, B. K., Lee, R. J., Scheinman, M. M., Olgin, J. E.
2008; 31 (3): 266-72
- **Markers of inflammation before and after curative ablation of atrial flutter** *HEART RHYTHM*
Marcus, G. M., Smith, L. M., Glidden, D. V., Wilson, E., McCabe, J. M., Whiteman, D., Tseng, Z. H., Badhwar, N., Lee, B. K., Lee, R. J., Scheinman, M. M., Olgin, J. E.
2008; 5 (2): 215-221
- **Inductionless or limited shock testing is possible in most patients with implantable cardioverter-defibrillators/cardiac resynchronization therapy defibrillators - Results of the multicenter ASSURE Study (Arrhythmia Single Shock Defibrillation Threshold Testing Versus Upper Limit of Vulnerability: Risk Reduction Evaluation with Implantable Cardioverter-Defibrillator Implantations)** *CIRCULATION*
Day, J. D., Doshi, R. N., Belott, P., Birgersdotter-Green, U., Behboodikhah, M., Ott, P., Glatzer, K. A., Tobias, S., Frumin, H., Lee, B. K., Merillat, J., Wiener, I., Wang, et al
2007; 115 (18): 2382-2389
- **Screening for coronary artery disease after mediastinal irradiation for Hodgkin's disease** *JOURNAL OF CLINICAL ONCOLOGY*
Heidenreich, P. A., Schnittger, I., Strauss, H. W., Vagelos, R. H., Lee, B. K., Mariscal, C. S., Tate, D. J., Horning, S. J., Hoppe, R. T., Hancock, S. L.
2007; 25 (1): 43-49
- **Repeat transseptal catheterization after ablation for atrial fibrillation** *JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY*

- Marcus, G. M., Ren, X., Tseng, Z. H., Badhwar, N., Lee, B. K., Lee, R. J., Foster, E., Olgin, J. E.
2007; 18 (1): 55-59
- **Prevalence, patterns of development, and prognosis of right bundle branch block in heart transplant recipients** *AMERICAN JOURNAL OF CARDIOLOGY*
Marcus, G. M., Hoang, K. L., Hunt, S. A., Chun, S. H., Lee, B. K.
2006; 98 (9): 1288-1290
 - **Initiation of antidromic reciprocating tachycardia: What is the mechanism?** *HEART RHYTHM*
Marcus, G. M., Lee, B. K., Scheinman, M. M.
2006; 3 (7): 865
 - **Diastolic dysfunction after mediastinal irradiation** *AMERICAN HEART JOURNAL*
Heidenreich, P. A., Hancock, S. L., Vagelos, R. H., Lee, B. K., Schnittger, I.
2005; 150 (5): 977-982
 - **A unique method by which to quantitate synchrony with equilibrium radionuclide angiography** *JOURNAL OF NUCLEAR CARDIOLOGY*
O'Connell, J. W., Schreck, C., Moles, M., Badwar, N., DeMarco, T., Olgin, J., Lee, B., Tseng, Z., Kumar, U., Botvinick, E. H.
2005; 12 (4): 441-450
 - **Asymptomatic cardiac disease following mediastinal irradiation** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*
Heidenreich, P. A., Hancock, S. L., Lee, B. K., Mariscal, C. S., Schnittger, I.
2003; 42 (4): 743-749
 - **Cost-effectiveness of radiofrequency ablation for supraventricular tachycardia** *ANNALS OF INTERNAL MEDICINE*
Cheng, C. H., Sanders, G. D., Hlatky, M. A., Heidenreich, P., McDonald, K. M., Lee, B. K., Larson, M. S., Owens, D. K.
2000; 133 (11): 864-876
 - **Meta-analysis of trials comparing beta-blockers, calcium antagonists, and nitrates for stable angina** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Heidenreich, P. A., McDonald, K. M., Hastie, T., Fadel, B., Hagan, V., Lee, B. K., Hlatky, M. A.
1999; 281 (20): 1927-1936
 - **Lemierre's syndrome** *SOUTHERN MEDICAL JOURNAL*
Lee, B. K., LOPEZ, F., Genovese, M., Loutit, J. S.
1997; 90 (6): 640-643