

SIRIN APIYASAWAT, MD



MEDICAL LICENSE

Thai Medical Council
23080

ADDRESS

Division of Cardiology,
Ramathibodi Hospital
270 Rama VI Road,
Ratchatewi,
Bangkok, Thailand 10400

EMAIL

Sirin.api@mahidol.ac.th

WEBSITE

heartRhythmBox.com

YOUTUBE

heartRhythmBox

ORCID

<https://orcid.org/0000-0002-8396-0511>

SCOPUS AUTHOR METRICS

Scopus author ID:
9939273500
Updated: June, 2025

h-index: 15

Citations: 596

CURRENT POSITION

ASSOCIATE PROFESSOR

Division of Cardiology, Department of Medicine, Faculty of Medicine, Ramathibodi Hospital, Bangkok, Thailand

ASSISTANT DEAN

International Relations and Research Collaboration, Faculty of Medicine, Ramathibodi Hospital, Bangkok, Thailand

ACADEMIC ACHIEVEMENT

Clinical Cardiac Electrophysiology Fellowship, Columbia University, New York, NY, USA – 2007

Cardiovascular Medicine Fellowship, Saint Vincent Hospital, University of Massachusetts, Worcester, MA, USA – 2006

Internal Medicine Residency, Albert Einstein Medical Center, Philadelphia, NY, USA – 2003

M.D. - Magna Cum Laude with Great Distinction, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Thailand – 1998

Highest Score (out of 200,000 students), National University Entrance Examination – 1992

BOARD CERTIFICATIONS

American Board of Clinical Cardiac Electrophysiology – 2007 & 2017

American Board of Cardiovascular Medicine – 2006 & 2016

Thai Board of Cardiovascular Medicine - 2008
Thai Board of Internal Medicine – 2008

National Board of Echocardiography in Adult Transthoracic and Transesophageal Echocardiography – 2005

American Board of Internal Medicine - 2003

SIRIN APIYASAWAT, MD

PUBLICATIONS I/IV

- Krittayaphong R, Apiyasawat S, Methavigul K, Komoltri C, Lip GYH. Prediction of ischemic stroke by the CHA₂DS₂-VA score in an Asian population: A report from the prospective nationwide COOL-AF registry. **Heart Rhythm**. 2025 May 3:S1547-5271(25)02410-5.
- Krittayaphong R, Winijkul A, Rungpradubvong V, Apiyasawat S, Phrommintikul A, Chantrarat T, Methavigul K, Chichareon P, Makarawate P, Wongtheptien W, Kaolawanich Y, Lip GYH. The COOL-AF Phase 2 Registry: COhort of Antithrombotic Use and Clinical Outcomes in Atrial Fibrillation Patients. **JACC Asia**. 2025 Jan 21;5(1):191-202. doi: 10.1016/j.jacasi.2024.10.027.
- Shimizu W, Kusumoto FM, Agbayani MF, Apiyasawat S, Chen M, Ching CK, Choi JI, Dan Do VB, Hanafy DA, Hurwitz JL, Johar S, Kalman JM, Khan AHH, Khmao P, Krahn AD, Ngarmukos T, Binh Nguyen ST, Nwe N, Oh S, Soejima K, Stiles MK, Tsao HM, Tseveendee S. Statement from the Asia Summit: Current state of arrhythmia care in Asia. **Heart Rhythm** **O2**. 2023 Sep 27;4(11):741-755.
- Apiyasawat S, Chandavimol M, Soontornmanokati N, Sirikhamkorn C. Ventricular pacing dependency after transcatheter aortic valve replacement: a prospective cohort. **Cardiovasc Diagn Ther**. 2023 Aug 31;13(4):628-637.
- Apiyasawat S, Thongsri T, Jongpiputvanich K for the COOL-AF Investigators, et al. Outcome disparities in patients with atrial fibrillation based on insurance plan and educational attainment: a nationwide, multicenter and prospective cohort trial. **BMJ Open** 2022;12:e053166.
- Apakuppakul, S, Methachittiphan, N, Apiyasawat, S. Effect of ElectroMagnetic interference from SmartPHONE on cardiac ImplaNtable electronic device (EMI-PHONE study). **J Arrhythmia**. 2022; 00: 1– 5.
- Soontornmanokati N, Sirikhamkorn C, Methachittiphan N, Chintanavilas K, Apakuppakul S, Ngarmukos T, Apiyasawat S, Lohawijarn W, Chandanamatttha P. Transvenous Lead Extraction (TLE) Procedure: Experience from a Tertiary Care Center in Thailand. **Indian Pacing Electrophysiol J**. 2022 May-Jun;22(3):123-128.
- Apiyasawat S, Kornbongkotmas S, Chichareon P, Krittayaphong R; COOL-AF Investigators. Mortality risk and temporal patterns of atrial fibrillation in the nationwide registry. **J Arrhythm**. 2021 Oct 6;37(6):1434-1442.
- Krittayaphong R, Winijkul A, Kunjara-Na-Ayudhya R, Apiyasawat S, Siri wattana K, Kanjanarutjawiwat W, Dutsadeevettakul S, Lip GYH; COOL-AF Investigators. Adherence to Anticoagulant Guideline for Atrial Fibrillation Improves Outcomes in Asian Population: The COOL-AF Registry. **Stroke**. 2020 Jun;51(6):1772-1780.

SIRIN APIYASAWAT, MD

PUBLICATIONS II/IV

- Krittayaphong R, Winijkul A, Pirapatdit A, Chiewvit P, Komoltri C, Boonyapisit W, Arunsiriwattana S, Bunyapipat T, Apiyasawat S, Rattanasumawong K, Yindeengam A; COOL-AF Investigators. SAME-TT2R2 score for prediction of suboptimal time in therapeutic range in a Thai population with atrial fibrillation. **Singapore Med J**. 2019 Nov 4.
- Apiyasawat S, Tangcharoen T, Wisaratapong T, Yamwong S, Wi boonpolprasert S, Sritara P. CHA2DS2-VASc scores predict mortality after hospitalization for atrial fibrillation. **Int J Cardiol**. 2015 Apr 15;185:29-6.
- Apiyasawat S, Sahasthas D, Ngarmukos T, Chandanamatttha P, Likittanasombat K. Fragmented QRS as a Predictor of Appropriate Implantable Cardioverter-defibrillator Therapy. **Indian Pacing Electrophysiol J**. 2014 Jan 1;14(1):4-11
- Nawathe A, Ariyaratjah V, Apiyasawat S, Barac I, Spodick DH. Correlation of echocardiographic left atrial abnormality with myocardial ischemia during myocardial perfusion assessment in the presence of known left ventricular hypertrophy. **Am J Cardiol**. 2013 Aug 1;112(3):416-9.
- Obiagwu C, Ariyaratjah V, Apiyasawat S, Spodick DH. Correlation of Echocardiographic Left Atrial Abnormality With Myocardial Ischemia During Myocardial Perfusion Assessment in Patients With Left Bundle Branch Block. **Am J Cardiol**. 2013 Sep 1;112(5):660-3.
- Apiyasawat S, Sritara P, Ngarmukos T, Sriratanasathavorn C, Kasemsuwan P. Association of statin therapy with ventricular arrhythmias among patients with acute coronary syndrome. **Heart Asia**. 2013 Mar 11;5(1):39-41.
- Vijayakrishnan R, Ariyaratjah V, Apiyasawat S, Spodick DH. Usefulness of Diastolic Time Measured on Electrocardiogram to Improve Sensitivity and Specificity of Exercise Tolerance Tests. **Am J Cardiol**. 2012 Jan 15;109(2):174-9.
- Thomas AJ, Apiyasawat S, Spodick DH. Electrocardiographic detection of emphysema. **Am J Cardiol**. 2011 Apr 1;107(7):1090-2.
- Apiyasawat S, Prasertwitayakij N, Ngarmukos T, Chandanamatttha P, Likittanasombat K. Feasibility, efficacy, and safety of radiofrequency catheter ablation for cardiac arrhythmias: a twelve-year experience in Thailand. **J Med Assoc Thai**. 2010 Mar;93(3):272-7.
- Ariyaratjah V, Apiyasawat S, Barac I, Spodick DH. Is the presence of mitral annular calcification associated with poor left atrial function? **Echocardiography**. 2009 Sep;26(8):877-84.
- Ariyaratjah V, Apiyasawat S, Spodick DH. Formulaic quantification of echocardiographic left atrial volume. **J Electrocardiol**. 2009 May-Jun;42(3):258-64.

SIRIN APIYASAWAT, MD

PUBLICATIONS III/IV

- Ariyarah V, Steiner I, Hájková P, Khadem A, Kvasnicka J, Apiyasawat S, Spodick DH. The Association of Atrial Tachyarrhythmias with Isolated Atrial Amyloid Disease: Preliminary Observations in Autopsied Heart Specimens. **Cardiology**. 2009;113(2):132-7.
- Raja A, Ariyarah V, Fernandes J, Apiyasawat S, Khadem A, Barac I, Spodick DH. Differences in treadmill exercise tolerance parameters between patients with partial and advanced interatrial depolarization abnormality. **Am J Cardiol**. 2008 Oct 1;102(7):866-70.
- Fernandes J, Ariyarah V, Apiyasawat S, Spodick DH. Prospective assessment of cardiovascular events in patients with partial and advanced interatrial conduction delay: A preliminary observation. **Int J Cardiol**. 2009 Jun 12;135(1):124-5.
- Ariyarah V, Fernandes J, Apiyasawat S, Spodick DH. Differences in echocardiographic indices between patients with partial and advanced interatrial conduction delay. **Am Heart Hosp J**. 2008 Winter;6(1):42-7.
- Spodick DH, Ariyarah V, Apiyasawat S. Higher prevalence of cardiovascular events among patients with abnormal atrial depolarization and coronary artery disease at 18 months' post-exercise tolerance testing. **Am Heart Hosp J**. 2007 Fall;5(4):236-40.
- Ariyarah V, Prajapat L, Kumar KK, Barac I, Apiyasawat S, Spodick DH. Quantitative estimation of left atrial linear dimension on a transthoracic echocardiogram using an electrocardiographic formulaic assessment. **Am J Cardiol**. 2007 Sep 1;100(5):894-8.
- Prajapat L, Ariyarah V, Frisella ME, Apiyasawat S, Spodick DH. Association of P-wave duration, dispersion, and terminal force in relation to P-wave axis among outpatients. **Ann Noninvasive Electrocardiol**. 2007 Jul;12(3):210-5.
- Loo RM, Ariyarah V, O'Brien D, Apiyasawat S, Silbert D, Katz S, Spodick DH. High prevalence of widened P waves among pediatric patients in 2 separate hospitals. **J Electrocardiol**. 2008 Jan-Feb;41(1):63-7.
- Ariyarah V, Kranis M, Apiyasawat S, Spodick DH. Association of myocardial ischemia and coronary angiographic lesions with increased left atrial dimension during exercise tolerance tests among patients without known coronary heart disease. **Am J Cardiol**. 2007 May 1;99(9):1187-92.
- Ariyarah V, Kranis M, Apiyasawat S, Spodick DH. Potential factors that affect electrocardiographic progression of interatrial block. **Ann Noninvasive Electrocardiol**. 2007 Jan;12(1):21-6.
- Ariyarah V, Puri P, Apiyasawat S, Spodick DH. Interatrial block: a novel risk factor for embolic stroke? **Ann Noninvasive Electrocardiol**. 2007 Jan;12(1):15-20.
- Ariyarah V, Apiyasawat S, Fernandes J, Kranis M, Spodick DH. Association of atrial fibrillation in patients with interatrial block over prospectively followed controls with comparable echocardiographic parameters. **Am J Cardiol**. 2007;99(3):390-2.

SIRIN APIYASAWAT, MD

PUBLICATIONS IV / IV

- Ariyarajah V, Fernandes J, Apiyasawat S, Spodick DH. Angiographic Localization of Potential Culprit Coronary Arteries in Patients With Interatrial Block Following a Positive Exercise Tolerance Test. **Am J Cardiol.** 2007;99(1):58-61.
- Ariyarajah V, Apiyasawat S, Najjar H, Mercado K, Puri P, Spodick DH. Frequency of Interatrial Block in Patients With Sinus Rhythm Hospitalized for Stroke and Comparison to Those Without Interatrial Block. **Am J Cardiol.** 2007;99(1):49-52.
- Ariyarajah V, Spodick DH, Fernandes J, Apiyasawat S. Limited utility of interatrial block in predicting ischemia on coronary angiography in patients with suboptimal exercise performance. **Int J Cardiol.** 2007;119(3):334-8.
- Ariyarajah V, Fernandes J, Kranis M, Apiyasawat S, Mercado K, Spodick DH. Prospective evaluation of atrial tachyarrhythmias in patients with interatrial block. **Int J Cardiol.** 2007;118(3):332-7.
- Ariyarajah V, Apiyasawat S, Spodick DH. Association of Duke prognostic treadmill scores with change in P-wave duration during exercise tolerance tests in patients with interatrial block and coronary heart disease. **Am J Cardiol.** 2006;98(6):786-8.
- Ariyarajah V, Apiyasawat S, Puri P, Spodick DH. Specific electrocardiographic markers of P-wave morphology in interatrial block. **J Electrocardiol.** 2006;39(4):380-4.
- Ariyarajah V, Apiyasawat S, Spodick DH. Optimal P-wave duration for bedside diagnosis of interatrial block. **Ann Noninvasive Electrocardiol.** 2006;11(3):259-62.
- Ariyarajah V, Apiyasawat S, Moorthi R, Spodick DH. Potential Clinical Correlates and Risk Factors for Interatrial Block. **Cardiology.** 2006;105(4):213-218.
- Kothari S, Apiyasawat S, Asad N, Spodick DH. Evidence Supporting a New Rate Threshold for Multifocal Atrial Tachycardia. **Clin Cardiol.** 2005;28(12):561-563.
- Ariyarajah V, Mercado K, Apiyasawat S, Puri P, Spodick DH. Correlation of left atrial size with p-wave duration in interatrial block. **Chest.** 2005; 128(4): 2615-2618.
- Apiyasawat S, Thomas AJ, Spodick DH. Interatrial block during exercise treadmill test predicts ischemic heart disease. **J Electrocardiol.** 2005; 38(4S): 150-153.
- Wongpraparut N, Apiyasawat S, Maraj S, Jacobs LE, Kotler MN. The correlation of left ventricular hypertrophy with the severity of atherosclerosis and embolic events. **J Med Assoc Thai.** 2005;88(2):156-61
- Apiyasawat S, Wongpraparut N, Jacobson L, Berkowitz H, Jacobs LE, Kotler MN. Cisplatin induced aortic thrombus. **Echocardiography.** 2003; 20(2): 199-200.
- Wongpraparut N, Apiyasawat S, Crespo G, Yazdani K, Jacobs LE, Kotler MN. Determinants of progression of aortic stenosis. **Am J Cardiol.** 2002; 89: 350-352.
- Wongpraparut N, Apiyasawat S, Jacobs LE, Kotler MN. Biventricular thrombi. **Echocardiography.** 2001; 18 (7): 619-620.

BOOKS & BOOK CHAPTERS

- Ngarmukos T, Krittayaphong R, Pumprueg S, Apiyasawat S, et al. **2025 Thai guideline for the diagnosis and management of atrial fibrillation**. Phanyamit Printing Co., Ltd; 2025.
- Apiyasawat S. **"Update in Cardiac Rhythm Devices"**. Emerging Knowledge in Internal Medicine, Volume 2. Ed. Ratanasit N. Bangkok, The Royal College of Physicians of Thailand, 2022, 190-211.
- Apiyasawat S. **"Arrhythmias"**. Emergency in Internal Medicine. Ed. Kiatburanakul S. Bangkok, The Royal College of Physicians of Thailand, 2014. 201-210.
- Apiyasawat S. **"Patient with Atrial Fibrillation"**. Medical Problems in Clinical Practices. Ed. Sumethkul V. Bangkok, Ramathibodi Hospital, 2010. 153-159.