

Left Atrial Appendage Occlusion

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Abstract

Left Atrial Appendage: Complex structure with variable shape and size, Effective contractions during normal sinus rhythm. Ineffective contractions during AF, Morphologies: Cactus, Chicken Wing, Cauliflower, Windsack. Why LAAO? Frequent source of systemic emboli, 92% of LA thrombi are localized in LAA, Occlusion decreases the risk of systemic embolization, Alternative to OAC in those with contraindication or high bleeding risk. Types of Occluders: Watchmen, PLAATO, ACP, WaveCrest, Potential Indications. Secondary stroke prevention: Failed OAC: ischemic stroke in patients using OAC, Severe bleeding occurred during OAC treatment, Alternative to OAC in patients with high bleeding risk, On top of OAC to further decrease risk of stroke recurrence. Primary stroke prevention: High bleeding risk AND high risk of stroke, Published Evidence, PROTECT AF trial, PREVAIL trial, LAA Closure as an Alternative to Warfarin for Stroke Prevention in Atrial Fibrillation: Meta-Analysis., LAAO for stroke prevention in AF: a systematic review and network meta-analysis of randomized controlled trials, PINNACLE FLX. Perspective Trials, OPTION Trial, CHAMPION-AF, CATALYST Trial.

Speaker Publications:

1. "Long-Term Aerobic Exercise in Calsequestrin2 Knockout Mice Accentuates Vagal Antagonism During B-adrenergic Stimulation Which Restricts Heart Rate Acceleration and Paradoxically Increases Abnormal Ryanodine Receptor Calcium Leak in Ventricular Myocytes."

[3rd World Heart Rhythm Conference](#); Webinar- November 09-10, 2020.

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<https://heartrhythm.cardiologymeeting.com/>



Biography:

Dr. Senthil Thambidorai is a Cardiac Electrophysiologist at Cardiovascular Fellowship Medical City Fort Worth, USA. Dr. Senthil Thambidorai's primary expertise is in Cardiac Electrophysiology. He trained at the Cleveland Clinic, Ohio where he also served as the Chief Cardiac Electrophysiology Fellow after completing his training. Cleveland Clinic's heart program has ranked as the best in the nation (since 1994), earning the No.1 ranking in the U.S. News & World Report's Best Hospitals for Cardiac Services. He then moved to Texas and joined the University of Texas, Houston as an Assistant Professor in Cardiac Electrophysiology. He practiced at the Memorial Hermann, Texas Medical Center, Heart and Vascular Institute in Houston prior to his move to Fort Worth in 2014.