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Research Interests: (Key words)	Cardiac arrhythmia, ischemic heart disease, structural heart disease, heart failure			
Selected Publications (in recent 5 yr):	<ol style="list-style-type: none"> <li><b>Chang TY</b>, Chao TF, Lin CY, Lin YJ, Chang SL, Lo LW, Hu YF, Chung FP, Chen SA. (2022, Oct). Catheter Ablation of Atrial Fibrillation in Heart Failure with Impaired Systolic Function - An updated meta-analysis of randomized controlled trials. <i>Journal of the Chinese Medical Association</i>. 86(1):11-18.</li> <li>Lee DY, <b>Chang TY</b>, Chang SL, Lin YJ, Lo LW, Hu YF, Chung FP, Tuan TC, Chao TF, Liao JN, Lin CY, Kuo L, Liu CM, Chen SA (2022, Sep). Clinical outcomes and structural remodelling after ablation of atrial fibrillation in heart failure with mildly reduced or mid-range ejection fraction. <i>ESC heart failure</i>. 10(1):177-188.</li> <li><b>Chang TY</b>, Chen KW, Liu CM, Chang SL, Lin YJ, Lo LW, Hu YF, Chung FP, Lin CY, Kuo L, Chen SA. (2022, May). A High-Precision Deep Learning Algorithm to Localize Idiopathic Ventricular Arrhythmias. <i>Journal of Personalized Medicine</i>. 12(5):764.</li> <li><b>Chang TY</b>, Lin CY, Lin YJ, Wu CI, Chang SL, Lo LW, Hu YF, Chung FP, Tuan TC, Chao TF, Liao JN, Kuo L, Liu CM, Chen SA. (2022, Apr). Long-term outcome of patients with long-standing persistent atrial fibrillation undergoing ablation guided by a novel high-density panoramic mapping system: A propensity score matching study. <i>Heart Rhythm O2</i>. 3(3):269-278.</li> <li><b>Chang TY</b>, Lu CT, Huang HL, Chou RH, Chang CC, Liu CT, Huang PH, Lin SJ. (2022, Apr). Association of Sodium-Glucose Cotransporter 2 (SGLT2) Inhibitor Use with Cardiovascular and Renal Outcomes in Type 2 Diabetes Mellitus Patients With Stabilized Acute Myocardial Infarction: A Propensity Score Matching Study. <i>Frontiers in Cardiovascular Medicine</i>. 9:882181.</li> <li><b>Chang TY</b>, Lo LW, Te ALD, Ishigaki S, Maesato A, Lin YJ, Chang SL, Hu YF, Chung FP, Lin CY, Chao TF, Liao JN, Tuan TC, Kuo L, Wu CI, Liu CM, Jain A, Lugtu IC, Higa S, Chen SA. (2021, Jul). Deep Sedation with Intravenous Anesthesia Is Associated with Outcome in Patients Undergoing Cryoablation for Paroxysmal Atrial Fibrillation. <i>International Heart Journal</i>, 30;62(4):779-785.</li> </ol>			

7. Huang HL, Kuo CS, **Chang TY**, Chou RH, Chen IC, Yang FC, Chen NJ, Lin SJ, Wu CC, Huang PH. (2021, Jun). An oral absorbent, AST-120, restores vascular growth and blood flow in ischemic muscles in diabetic mice via modulation of macrophage transition. *Journal of Molecular and Cellular Cardiology*. 155:99-110.
8. **Chang TY**, Chan YH, Chiang CE, Lin YJ, Chang SL, Lo LW, Hu YF, Tuan TC, Liao JN, Chung FP, Chen TJ, Lip GYH, Chen SA, Chao TF. (2020, Oct). Risks and outcomes of gastrointestinal malignancies in anticoagulated atrial fibrillation patients experiencing gastrointestinal bleeding: A nationwide cohort study. *Heart Rhythm*, 17(10):1745-1751.
9. **Chang TY**, Hsiao YW, Guo SM, Chang SL, Lin YJ, Lo LW, Hu YF, Chung FP, Chao TF, Liao JN, Tuan TC, Lin CY, Higa S, Chen SA. (2020, May). Resistin as a Biomarker for the Prediction of Left Atrial Substrate and Recurrence in Patients with Drug-Refractory Atrial Fibrillation Undergoing Catheter Ablation. *International Heart Journal*, 30;61(3):517-523.
10. **Chang TY**, Lin CY, Chung FP, Lin YJ, Chang SL, Lo LW, Hu YF, Chen SA. (2019, Aug). Role of catheter ablation in patients with ischemic ventricular tachycardia: From basic to clinical practice. *Journal of the Chinese Medical Association*. 82(8):609-615.
11. **Chang TY**, Lip GYH, Chen SA, Chao TF. (2019, May). Importance of Risk Reassessment in Patients With Atrial Fibrillation in Guidelines: Assessing Risk as a Dynamic Process. *Canadian Journal of Cardiology*. 35(5):611-618.
12. **Chang TY**, Lo LW, Te ALD, Lin YJ, Chang SL, Hu YF, Chung FP, Chao TF, Liao JN, Tuan TC, Lin CY, Vicera JJ, Huang TC, Hoang MQ, Yamada S, Chen SA. (2019, Jan). The importance of extrapulmonary vein triggers and atypical atrial flutter in atrial fibrillation recurrence after cryoablation: Insights from repeat ablation procedures. *Journal of Cardiovascular Electrophysiology*. 30(1):16-24.
13. **Chang TY**, Liao JN, Chao TF, Vicera JJ, Lin CY, Tuan TC, Lin YJ, Chang SL, Lo LW, Hu YF, Chung FP, Chen SA. (2018, Aug). Oral anticoagulant use for stroke prevention in atrial fibrillation patients with difficult scenarios. *IJC Heart & Vasculature*. 20:56-62.
14. **Chang TY**, Lin CY, Chen SA. (2018, Aug). Vagal impact of cryoballoon ablation during pulmonary vein isolation. *International Journal of Cardiology*. 265:132-133.
15. Lee CW, Sung SH, Tsai YL, **Chang TY**, Hsu CP, Lu CC, Shih CC. (2018, Apr). Initial experience with percutaneous edge-to-edge transcatheter mitral valve repair in a tertiary medical center in Taiwan. *Journal of the Chinese Medical Association*. 81(4):305-310.

Names of Lab members:

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