Supplemental Figure 1: Flowchart of the study design

LAAO, Left Atrial Appendage Occlusion device; AF, Atrial Fibrillation; CA, Percutaneous Atrial Fibrillation Ablation. [a] Excluding patients with age < 18 years, missing age and mortality data, [b] All patients with AF as primary diagnosis for hospitalization; [c] Re-entry ventricular arrhythmia, supraventricular tachycardia, ventricular tachycardia, ventricular fibrillation, ventricular flutter, paroxysmal tachycardia, atrial and ventricular premature depolarization; [c] Propensity score matched using age, gender and CHA_2DS_2-Vasc score. All n are weighted estimates.

Supplemental Figure 2: Predictors of Major Adverse Cardiovascular Events by Comorbidities among LAAO+CA and LAAO only cohort

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation; MACE, Major Adverse Cardiovascular Events.

Supplemental Figure 3: Predictors of Major Adverse Cardiovascular Events by Comorbidities among LAAO+CA and CA only cohort

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation; MACE, Major Adverse Cardiovascular Events.

Supplemental Figure 4: Predictors of Major Adverse Cardiovascular Events by Hospital Demographics among LAAO+CA and LAAO only cohort

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation; MACE, Major Adverse Cardiovascular Events.

Supplemental Figure 5: Predictors of Major Adverse Cardiovascular Events by Hospital Demographics among LAAO+CA and CA only cohort

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation; MACE, Major Adverse Cardiovascular Events.

Supplemental Figure 6: Timing between LAAO and CA procedure performed in the United States

Supplemental Figure 7: Kernel Density Plot to Assess Propensity Score Match between LAAO+CA with LAAO only.

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation

Supplemental Figure 8: Kernel Density Plot to Assess Propensity Score Match between LAAO+CA with CA only.

LAAO, Left Atrial Appendage Occlusion device; CA, Percutaneous Atrial Fibrillation Ablation