

**Supplemental Table 1: Inclusion and Exclusion criteria with
pertinent International Classification of Disease, Tenth
Revision, Clinical Modification and Procedure Codes.**

Inclusion criteria

ICD-10-PCS

Occlusion of left atrial appendage with intraluminal device, percutaneous approach	02L73DK
Restoration of Cardiac Rhythm, Single (Cardioversion)	5A2204Z

Atrial fibrillation Ablation

Destruction of left atrium, percutaneous	02573ZZ
Destruction of conduction mechanism, percutaneous	02583ZZ
Destruction of left pulmonary vein, percutaneous	025S3ZZ
Destruction of right pulmonary vein, percutaneous	025T3ZZ

ICD-10-CM

Atrial fibrillation

Paroxysmal atrial fibrillation	I480 or I48
Persistent atrial fibrillation	I481
Longstanding persistent atrial fibrillation	I4811
Other persistent atrial fibrillation	I4819
Chronic atrial fibrillation	I482
Chronic atrial fibrillation, unspecified	I4820
Permanent atrial fibrillation	I4821
Unspecified atrial fibrillation	I4891 or I489

Exclusion Criteria

Other Rhythms

Ventricular fibrillation	I4901 or I490
Ventricular flutter	I4902
Atrial premature depolarization	I491
Junctional premature depolarization	I492
Ventricular premature depolarization	I493
Supraventricular tachycardia	I471
Ventricular tachycardia	I472
Re-entry ventricular arrhythmia	I470
Paroxysmal tachycardia, unspecified	I479

Supplemental Table 2: Hospital characteristics from where the study population has been identified.

Covariates	Total (n = 1189)	LAO and CA (n = 375)	LAO only (n = 407)	CA only (n = 406)	p-value
Hospital bed size					
Small	72 (6.0%)	10 (2.6%)	30 (7.4%)	32 (7.9%)	0.3778
Medium	310 (26.1%)	99 (26.4%)	91 (22.4%)	120 (29.5%)	
Large	807 (67.9%)	267 (71.0%)	286 (70.3%)	255 (62.7%)	
Hospital Control					
Government, nonfederal	72 (6.1%)	33 (8.9%)	17 (4.2%)	21 (5.2%)	0.3771
Private, not-profit	978 (82.3%)	308 (82.1%)	343 (84.3%)	327 (80.4%)	
Private, invest-own	139 (11.7%)	34 (9.0%)	47 (11.4%)	59 (14.4%)	
Hospital Teaching Status					
Metropolitan non-teaching	116 (9.8%)	28 (7.5%)	37 (9.1%)	51 (12.5%)	0.5324
Metropolitan teaching	1055 (88.8%)	345 (91.8%)	363 (89.1%)	348 (85.7%)	
Non-metropolitan hospital	17 (1.5%)	< 10	< 10	< 10	
Hospital location					
Large metropolitan areas	724 (60.9%)	233 (62.0%)	231 (56.8%)	260 (64.0%)	0.7492
Small metropolitan areas	447 (37.6%)	140 (37.3%)	168 (41.4%)	139 (34.2%)	
Micro-politan areas	17 (1.5%)	< 10	< 10	< 10	

Supplemental Table 3: Reason for All-cause 30-day Readmission Among the Study Population

Description of the ICD-10 diagnosis code	ICD-10-CM diagnosis code	n%
LAAO & CA		
Hypertensive heart disease with heart failure	I110	12.3%
Hypertensive heart & chronic kidney disease with heart failure and stage 1-4/ unspecified chronic kidney disease	I130	12.2%
Paroxysmal atrial fibrillation	I480	7.1%
LAAO only		
Paroxysmal atrial fibrillation	I480	20.1%
Acute on chronic diastolic (congestive) heart failure	I5033	12.1%
Hypertensive heart & chronic kidney disease with heart failure and stage 1-4/ unspecified chronic kidney disease	I130	9.9%
Hypertensive heart disease with heart failure	I110	9.5%
CA only		
Paroxysmal atrial fibrillation	I480	17.7%
Chronic obstructive pulmonary disease with (acute) exacerbation	J441	10.9%
Unspecified atrial fibrillation	I4891	7.1%
Pneumonia, unspecified organism	J189	7.1%
Pericardial effusion (noninflammatory)	I313	5.1%
Acute on chronic systolic (congestive) heart failure	I5023	5.1%

LAAO: Left atrial appendage occlusion procedure, CA: Ablation of atrial fibrillation. Only frequency proportion more than 5% have been presented.

Supplemental Table 4: Standardized mean difference before and after propensity score match among patients with LAAO and CA versus LAAO only

	Standardized differences		Variance ratio	
	Raw	Matched	Raw	Matched
Age	-0.2084615	0.0095882	1.311978	1.01543
Gender	0.0583993	-0.007904	1.023264	.997011
Age_sq	-0.2053546	0.0106729	1.144583	1.019504
CHA2DS2-VASc	-0.1125494	-0.040637	1.081352	.9086459
CHA2DS2-VASc_sq	-0.1009894	-0.05629	.9540228	.8294879

Supplemental Table 5: Standardized mean difference before and after propensity score match among patients with LAAO and CA versus CA only

	Standardized difference		Variance ratio	
	Raw	Matched	Raw	Matched
Age	0.6310426	-0.006667	.6626473	1.008522
Gender	0.083132	-0.063651	1.020903	.9777074
Age_sq	0.6373637	-0.006245	.7270784	.9429199
CHA2DS2-VASc	0.4663139	-0.041249	.6790636	.9551445
CHA2DS2-VASc_sq	0.3800201	-0.050886	.8733269	.8673705