

Table 2 The procedure-related indexes of concomitant ablation and LAAC

First author (year)	Watchman Devices (%)	Procedural strategies	Ablation strategies	Procedure time (min)	Fluoroscopy time (min)	Post-procedural antithrombotic regimen	
						Watchman	Amplatzer Cardiac Plug
Fassini (2019)	20.4	First CBA then LAAC	PVI	148.0±31.0	30.0±6.0	Aspitin+Warfarin/NOAC/LMWH for at least 8W; then dual anti- platelet therapy (aspirin and clopidogrel) for 6M; then life-long 100mg aspirin	VKA/NOAC/LMWH or dual antiplatelet therapy (aspirin and clopidogrel) for at least 8W; then 100mg aspirin at least 3M
Wintgens (2018)	100.0	First RFA then LAAC	PVI+	154.0±61.0	28.0±12.0	Dual anti-platelet therapy (aspirin and clopidogrel) for 6M; then aspirin indefinitely	/
Phillips (2020)	100.0	First RFA/CBA then LAAC	PVI+	NA	NA	Anticoagulation (NOAC/Warfarin) 6W; then dual antiplatelet therapy (aspirin and clopidogrel) 6M	/
Du (2019)	68.0	First RFA then LAAC	PVI+	116.7±30.8	6.0±3.7	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin for life	Same to Watchman
Liu (2019)	96.0	First RFA/CBA then LAAC	PVI	185.0±25.1	28.3±4.7	Anticoagulation (NOAC/Warfarin) 8W; then dual antiplatelet therapy (aspirin and clopidogrel) 6M; then aspirin for life	Anticoagulation (NOAC/Warfarin) 8W; then aspirin for life
Alipour (2015)	100.0	First RFA then	PVI+	98.6±24.0	17.3±10.5	Anticoagulation (Warfarin) INR	/

		LAAC				between 2-3 (low-molecular weight heparin at least 3 weeks if necessary); then dual antiplatelet therapy (aspirin and clopidogrel) 6M; then aspirin for life	
Liu (2020)	74.1	First CBA then LAAC	PVI	NA	NA	Anticoagulation (Warfarin) 3M; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin or clopidogrel indefinitely	Same to Watchman
Calvo (2015)	82.9	First RFA then LAAC	PVI+	160.5±33.8	NA	Anticoagulation (NOAC/Warfarin+aspirin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 6M; then aspirin for life	Anticoagulation (NOAC/Warfarin+aspirin) 8W; then aspirin for life
Du (2018)★	100.0	First LAAC then RFA	PVI+	NA	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin for life	/
Du (2018)▲	100.0	First RFA then LAAC	PVI+	NA	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin for life	/
Mo (2020)	100.0	First RFA then LAAC	PVI+	NA	NA	Anticoagulation (Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then	/

						aspirin for life	
Ren (2020)	17.1	First CBA then LAAC	PVI	NA	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 6M; then aspirin or clopidogrel for life. If CHA2DS2-VASc \geq 2 in male or \geq 3 in female, anticoagulation were recommended for long-term anticoagulation	Same to Watchman
Chen (2020)	100.0	First RFA then LAAC	PVI+	NA	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin or clopidogrel for life	/
Li (2020)	100.0	First RFA then LAAC	PVI+	NA	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin or clopidogrel for life. If TEE at 45d, Anticoagulation were recommended for 24W	/
Swaans (2012)	100.0	First RFA then LAAC	PVI+	97.3(75.0-115.0)	15.5(13.0-19.0)	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 6M; then aspirin or clopidogrel for life	/
Li (2018)	100.0	First RFA then LAAC	PVI+	185.6(123.0-295.0)	NA	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy	/

						(aspirin and clopidogrel) 6M; then aspirin or clopidogrel for life
Phillips (2016)	100.0	First RFA then LAAC	PVI+	213.0±40.0	36.0±11.0	Anticoagulation (NOAC/Warfarin) 12W; then dual antiplatelet therapy (aspirin and clopidogrel) 3M; then aspirin or clopidogrel for life /

CBA: cryoballoon ablation; RFA: radiofrequency ablation; LAAC: left atrial appendage closure; PVI: pulmonary vein isolation; PVI+: PVI plus linear and/or fractionated atrial electrogram ablations; VKA: vitamin K antagonist; NOAC: non-VKA oral anticoagulant; LMWH: low-molecular weight heparin; M: months; W: weeks; NA: not available.