Table 1. Newcastle-Ottawa scale for the included studies

Study	y Selection	Comparability*	Outcomes	Total
Eng 2021 ³¹	****	Unknown	***	7
Yoon 2019 ⁴	****	Unknown	**	6
McElhinney 2019 ³²	****	Unknown	**	6
Abdel-Wahab 201833	****	Unknown	***	7
Eng 2017 34	***	Unknown	**	5
Whisenant 2015 ³⁵	***	Unknown	**	5

^{*}No comparison between patients with and without anticoagulants was performed in any study.

Table 2. Characteristics of studies included

Study	Design	Regimen	No. of patients	Follow-up (days) ⁺	Procedure	
Eng 2021 ³¹	Observational study	OAC APT	67 14	511	Mitral ViV, ViR and ViMAC	
Yoon 2019 ⁴	Observational study	OAC APT Unknown	295 116 110	160	Mitral ViV, ViR and ViMAC	
McElhinney 2019 ³²	Observational study	OAC APT Combined	70 135 82	484#	Tricuspid ViV and ViR	
Abdel-Wahab 2018 ³³	Observational study	OAC APT None	97 195 4*	NR	Aortic ViV	
Eng 2017 ³⁴	Observational study	OAC APT	10 3	150	Mitral ViV and ViR	
Whisenant 2015 ³⁵	Case series	OAC APT	3 8	NR	Mitral ViV and ViR and tricuspid ViV	

Abbreviations: APT, antiplatelet treatment; NR, not reported; OAC, oral anticoagulation; ViV, valve-in-valve; ViR, valve-in-ring; ViMAC, valve-in-mitral annular calcification.

GRADE Summary Table

No. of participants (studies)	Study design	Risk of bias	Inconsistency	Imprecision	Indirectness	Publication bias	Certainty of evidence ¹	Effect estimate (OR [95% CI])
1082 (6 observational studies)	Observational	Serious	Not serious	Not serious	Not serious	Unclear	Moderate ***☆	0.18 (0.07– 0.42) 0.16 (0.07- 0.379

¹Certainty of evidence graded according to GRADE: ***

^{*}These patients were excluded from the analysis.

"It is mentioned that 56 patients had a follow-up of less than two years; however, no information is provided regarding actual loss to follow-up. No other study refers patients losing follow-up.

+ Follow-up is reported as mean for Eng 2017 and as median for the remaining studies.