

Table S1 Times, causes, and approach of death/reintervention

Patient	Group	Years	Death/reintervention	Reintervention approach	Cause
1	ODA	3.88	Death	–	Diffuse large B-cell lymphoma
2	ODA	3.66	Death	–	Cerebral hemorrhage
3	ODA	1.73	Death	–	Cerebral infarction
4	ODA	0.01	Death	–	Circulatory failure
5	AAC	7.12	Death	–	Cerebral hemorrhage
6	AAC	4.66	Death	–	Aortic perivalvular leakage
7	AAC	0.06	Death	–	Infective endocarditis
8	ODA	6.36	Reintervention	Aortic valve replacement	Severe aortic regurgitation
9	ODA	0.77	Reintervention	TEVAR, EVAR	Thoracic and abdominal aortic aneurysm
10	AAC	2.11	Reintervention	Occluder implantation	Distal anastomotic leak
11	AAC	1.21	Reintervention	Dual-chamber pacemaker implantation	Second-degree atrioventricular block
12	AAC	2.93	Reintervention	Percutaneous coronary intervention	Right coronary artery stenosis
13	AAC	0.37	Reintervention	Right atrial thrombectomy	Right atrial thrombus

ODA, open distal anastomosis; AAC, aortic arch-clamping; TEVAR, thoracic endovascular aneurysm repair; EVAR, endovascular aneurysm repair.

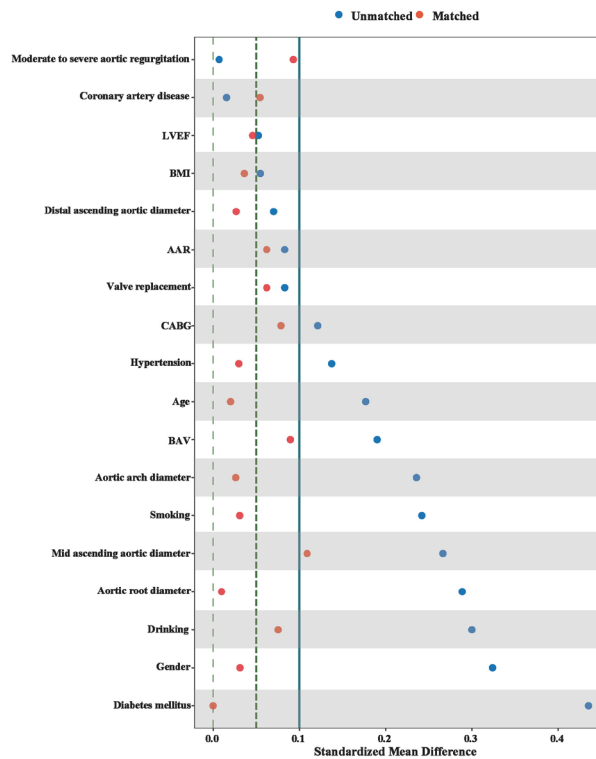


Figure S1 Love plot for the absolute differences between the ODA and AAC groups in the baseline covariates before and after the matching. ODA, open distal anastomosis; AAC, aortic arch-clamping; LVEF, left ventricle ejection fraction; BMI, body mass index; AAR, ascending aorta replacement; CABG, coronary artery bypass grafting; BAV, bicuspid aortic valve.

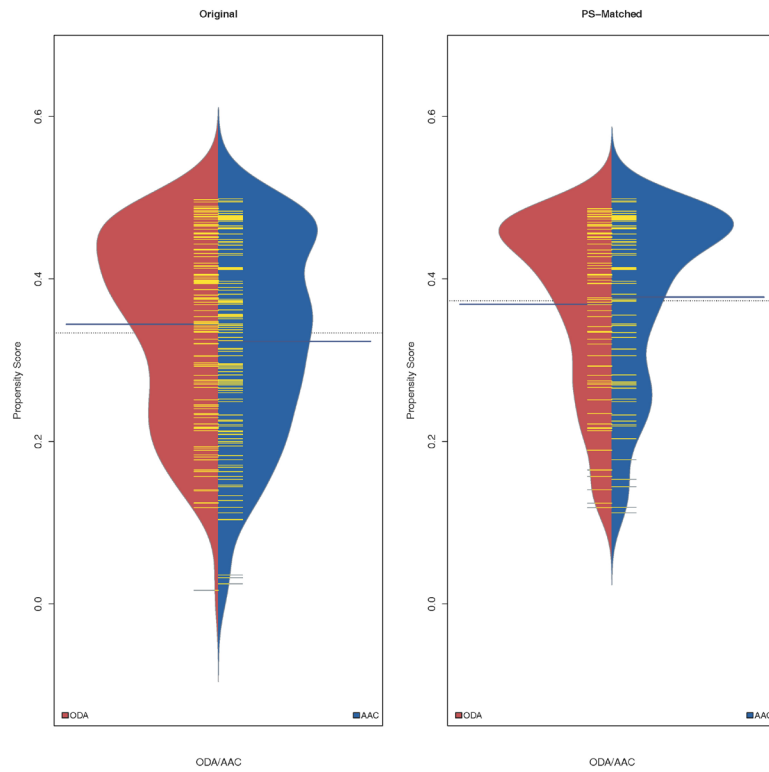


Figure S2 Bean plot to present the distribution of propensity scores before and after matching. ODA, open distal anastomosis; AAC, aortic arch-clamping.