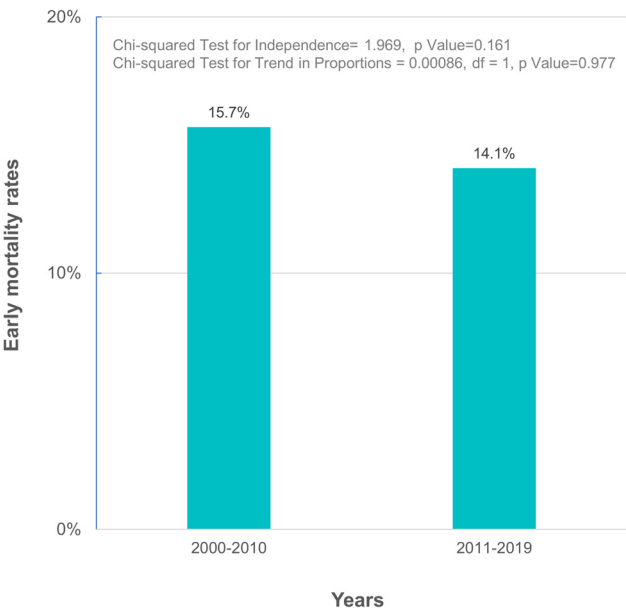
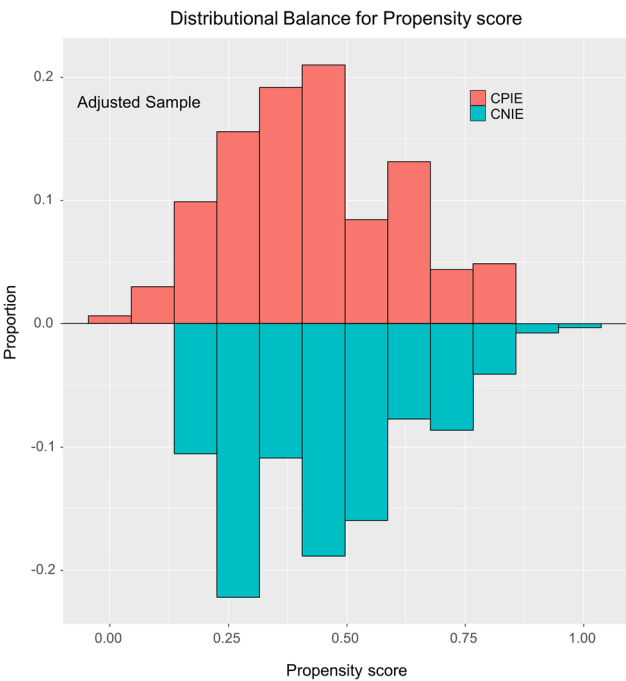


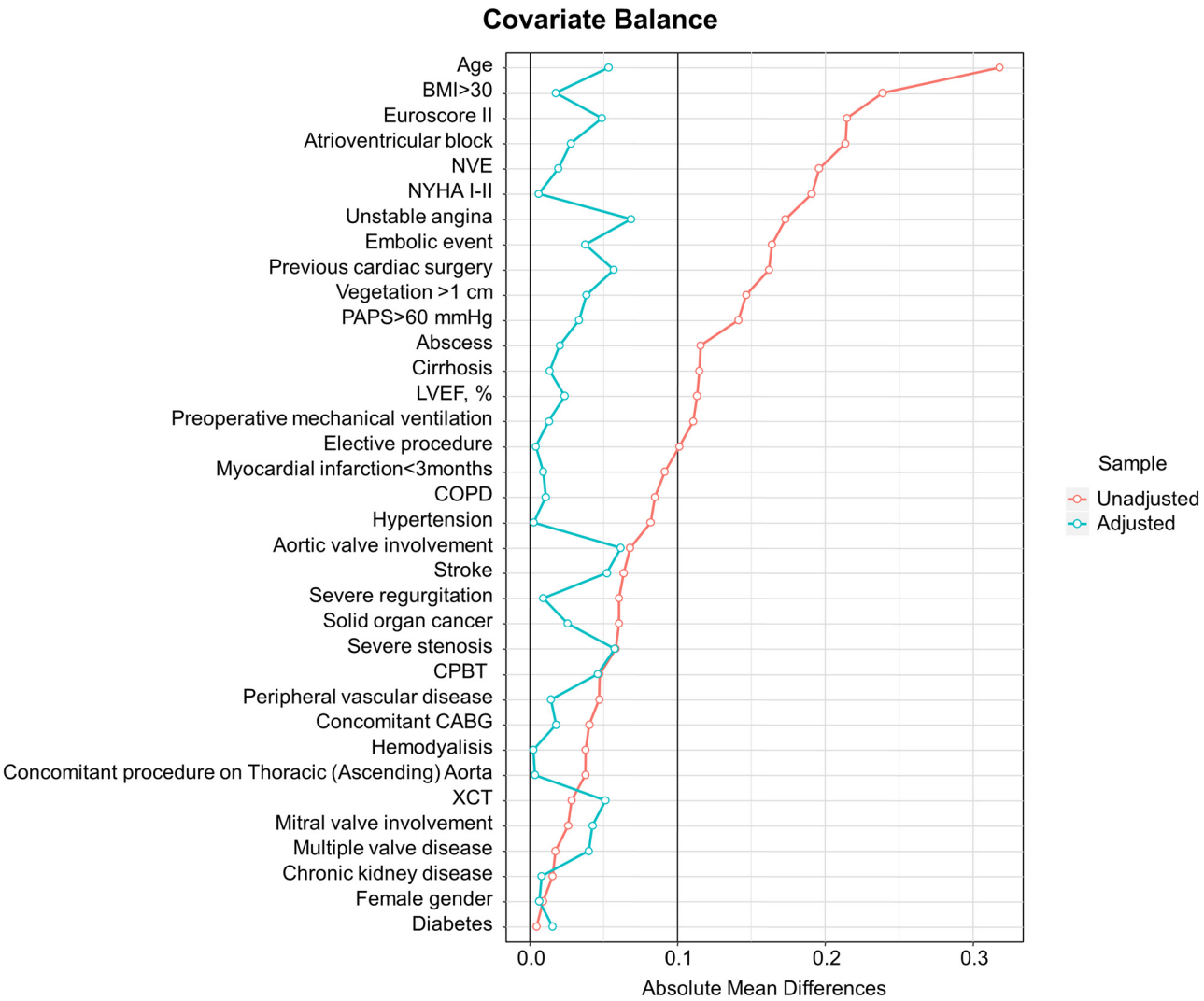
Supplementary material



Supplementary Figure S1: Early mortality rate variations during the study period.



Supplementary Figure S2: Mirror histogram of the propensity score with distribution balance for CPIE and CNIE patients.



Supplementary Figure S3: Love plot summarizing covariate balance before and after conditioning for CPIE and CNIE patients.

Supplementary Table S1: Covariate balance analyses in weighted samples for CPIE and CNIE patients

Variable	Type	Unadjusted sample				Adjusted sample				Balance measures			
		CPIE 191 pts		CNIE 136 pts		Peripheral VA-ECMO 164.728 pts		Central VA-ECMO 113.46 pts		Balance measures		Balance measures	
		Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation	Mean difference	Variance ratio	Mean difference	Variance ratio
Euroscore II	Continuous	6.367	9.546	8.798	12.851	0.215	1.813	0.147	0.138	0.318	0.752	0.065	1.087
Elective procedure	Binary	0.560	0.498	0.610	0.490	0.102		0.603	0.491	0.583		−0.042	
Age	Continuous	59.398	16.080	64.184	13.943	0.318	0.752	61.168	15.817	62.153	14.176	0.065	0.803
Female gender	Binary	0.246	0.432	0.250	0.435	0.009		0.260	0.440	0.262	0.441	0.003	
Embolic event	Binary	0.042	0.201	0.015	0.121	−0.164		0.031	0.173	0.016	0.127	−0.089	
NVE	Binary	0.848	0.360	0.912	0.285	0.196		0.856	0.352	0.871	0.336	0.047	
Severe stenosis	Binary	0.052	0.223	0.066	0.250	0.058		0.059	0.237	0.067	0.250	0.031	
Severe regurgitation	Binary	0.974	0.160	0.963	0.189	−0.061		0.975	0.157	0.971	0.170	−0.025	
Aortic valve involvement	Binary	0.571	0.496	0.537	0.501	−0.068		0.568	0.497	0.577	0.496	0.017	
Mitral valve involvement	Binary	0.513	0.501	0.500	0.502	−0.026		0.503	0.502	0.488	0.502	−0.029	
Concomitant CABG	Binary	0.037	0.188	0.029	0.170	−0.040		0.032	0.176	0.041	0.200	0.053	
Concomitant procedure on thoracic (ascending) aorta	Binary	0.068	0.253	0.059	0.236	−0.038		0.068	0.252	0.074	0.262	0.023	
Hypertension	Binary	0.445	0.498	0.404	0.493	−0.082		0.437	0.498	0.416	0.495	−0.042	
Diabetes	Binary	0.141	0.349	0.140	0.348	−0.005		0.134	0.341	0.137	0.346	0.010	
BMI > 30	Binary	0.136	0.344	0.228	0.421	0.239		0.176	0.382	0.214	0.412	0.099	
COPD	Binary	0.079	0.270	0.103	0.305	0.085		0.083	0.277	0.092	0.290	0.031	

Table S1: continued

Variable	Type	Unadjusted sample					Adjusted sample								
		CPIE 191 pts		CNIE 136 pts		Balance measures		Peripheral VA-ECMO		Central VA-ECMO		Balance measures			
		Mean	Standard deviation	Mean	Standard deviation	Mean difference	Variance ratio	Mean difference	Standard deviation	Mean	Standard deviation	Mean difference	Variance ratio		
ΔVEF, %	Continuous	53.963	8.237	52.956	9.503	-0.113	1.331	0.150	53.877	8.266	53.459	9.649	-0.047	1.363	0.129
Previous cardiac surgery	Binary	0.183	0.388	0.250	0.435	0.162			0.207	0.406	0.225	0.420	0.046		
Peripheral vascular disease	Binary	0.094	0.293	0.081	0.274	-0.047			0.083	0.277	0.083	0.277	-0.001		
Solid organ cancer	Binary	0.026	0.160	0.037	0.189	0.061			0.036	0.187	0.029	0.168	-0.042		
Stroke	Binary	0.115	0.320	0.096	0.295	-0.064			0.100	0.301	0.079	0.271	-0.069		
Unstable angina	Binary	0.011	0.102	0.037	0.189	0.173			0.020	0.140	0.031	0.175	0.076		
NYHA I-II	Binary	0.749	0.435	0.662	0.475	-0.191			0.729	0.446	0.715	0.453	-0.030		
Myocardial infarction < 3 months	Binary	0.011	0.102	0.022	0.147	0.091			0.022	0.146	0.012	0.110	-0.075		
Preoperative mechanical ventilation	Binary	0.047	0.213	0.074	0.262	0.111			0.061	0.240	0.067	0.251	0.026		
CPBT	Continuous	127.215	58.704	130.669	84.671	0.047	2.080	0.064	125.235	58.923	127.197	67.907	0.027	1.328	0.083
AKT	Continuous	88.476	36.868	87.390	39.405	-0.029	1.142	0.074	86.412	35.769	87.249	34.232	0.022	0.916	0.095
MAPS > 60 mmHg	Binary	0.094	0.293	0.140	0.348	0.141			0.094	0.293	0.110	0.314	0.049		
Cirrhosis	Binary	0.021	0.144	0.007	0.086	-0.115			0.016	0.127	0.010	0.099	-0.055		
Chronic kidney disease	Binary	0.168	0.374	0.162	0.370	-0.016			0.164	0.372	0.153	0.362	-0.029		
End-stage renal disease	Binary	0.037	0.188	0.044	0.206	0.038			0.036	0.187	0.042	0.201	0.030		

Table S1: continued

Variable	Type	Unadjusted sample			Adjusted sample								
		CPIE 191 pts		CNIE 136 pts	Balance measures			Peripheral VA-ECMO 164.728 pts		Central VA-ECMO 113.46 pts		Balance measures	
		Mean	Standard deviation	Mean	Standard deviation	Mean difference	Variance ratio	KS	Mean	Standard deviation	Mean difference	Variance ratio	KS
Atrioventricular block	Binary	0.037	0.188	0.088	0.285	0.214			0.060	0.238	0.058	0.234	−0.008
Multiple valve disease	Binary	0.183	0.388	0.177	0.383	−0.018			0.181	0.386	0.172	0.379	−0.023
Abscess	Binary	0.052	0.223	0.029	0.170	−0.116			0.048	0.214	0.034	0.182	−0.069
Vegetation >1 cm	Binary	0.152	0.360	0.103	0.305	−0.147			0.145	0.353	0.108	0.312	−0.100

BMI, body mass index; CABG, coronary artery bypass grafting; COPD, chronic obstructive pulmonary disease; CPBT, cardiopulmonary bypass time; KS, Kolmogorov–Smirnov statistics; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association (class); NVE: native valve endocarditis; PAP, pulmonary artery pressure; PVE: prosthetic valve endocarditis; XCT: aortic cross-clamp time.