

Figure S1 ASD plot before and after propensity score matching. An ASD <0.25 implies a good balance between the two groups. ASD, absolute standardized difference; CKD, chronic kidney disease; NYHA, New York Heart Association.

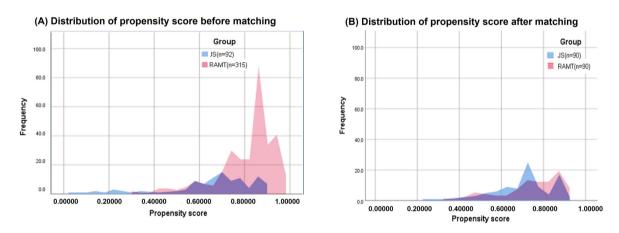


Figure S2 Distribution of propensity score before (A) and after (B) 1:1 matching. JS, J-sternotomy; RAMT, right anterior mini-thoracotomy.

Table S1	Postoperative	outcomes with	IPTW P value
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Variables	JS (n=92)	RAMT (n=315)	P value	IPTW P value
Mortality	12 (13.0)	16 (5.1)	0.008 [§]	0.0499 ^{&}
30-day mortality	1 (1.1)	1 (0.3)	0.401 [¶]	0.221 ^{&}
Acute renal failure	3 (3.3)	3 (1.0)	0.132 ¹	0.190 ^{&}
On-table extubation	28 (30.4)	220 (69.8)	<0.001 [§]	<0.001*
Prolonged ventilation	4 (4.3)	2 (0.6)	0.026 ¹	0.106 ^{&}
Pneumonia	3 (3.3)	2 (0.6)	0.079 [¶]	0.627 ^{&}
Stroke	2 (2.2)	0	0.051 ¹	0.112 [∥]
Mechanical support	0	0	-	-
LCOS	14 (15.2)	35 (11.1)	0.287 [§]	0.100 ^{&}
Atrioventricular block	3 (3.3)	14 (4.4)	0.773 ¹	0.284 ^{&}
Pacemaker insertion	3 (3.3)	5 (1.6)	0.388 ¹	0.609 ^{&}
Bleeding reoperation	0	11 (3.5)	0.134 [¶]	0.178 [∥]
Chest tube drain 2 h (mL)	368.4±311.3	304.3±248.5	0.050 [‡]	0.087#
	279.5 (187.8–419.8)	240.0 (157.0–355.0)		
Need for transfusion	54 (58.7)	88 (27.9)	<0.001 [§]	<0.001*
ICU stay (h)	40.7±85.3	31.3±65.9	0.574 [‡]	0.822#
	25.0 (23.0–27.0)	24.0 (2.0–26.0)		
Hospital stay (days)	7.3±3.8	6.2±3.3	< 0.001 [‡]	0.020#
	6.0 (5.0-7.0)	5.0 (4.0-7.0)		

Values are either frequency with percentage in parentheses, mean \pm standard deviation or median (IQR). Shapiro-Wilk's test was employed for test of normality assumption. [‡], P values were derived from Mann-Whitney's *U* test; [§], P values were derived by Chi-squared test; [¶], P values were derived from IPTW-weighted linear regression analysis; [∥], P values were derived from IPTW-weighted logistic regression analysis with Firth's penalized maximum likelihood bias reduction method. IPTW, inverse probability of treatment weighting; LCOS, low cardiac output syndrome; ICU, intensive care unit; IQR, interquartile range; JS, J-sternotomy; RAMT, right anterior mini-thoracotomy.

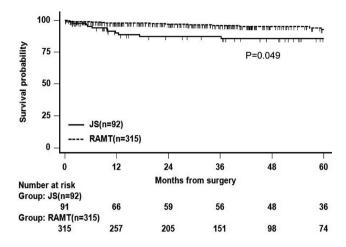


Figure S3 Kaplan-Meier curve with IPTW-adjusted data. Kaplan-Meier survival curves with IPTW-adjusted data also show significantly higher rates of survival probability for the RAMT group compared with the JS group (P=0.049). JS, J-sternotomy; RAMT, right anterior mini-thoracotomy; IPTW, inverse probability of treatment weighting.