

**Table S1** Subgroup analysis summarizing unadjusted rates of 30-day outcomes by approach and social vulnerability group

30-day outcome	RATS lobectomy (n=207)			RATS segmentectomy (n=51)			RATS wedge (n=62)		
	Low SVI (n=179)	High SVI (n=28)	P value	Low SVI (n=49)	High SVI (n=2)	P value	Low SVI (n=52)	High SVI (n=10)	P value
Superficial SSI	10 (5.6%)	4 (14.3%)	0.103	1 (2.0%)	1 (50.0%)	0.078	1 (1.9%)	0 (0.0%)	0.658
Deep SSI	0 (0.0%)	0 (0.0%)	–	1 (2.0%)	0 (0.0%)	1.000	0 (0.0%)	0 (0.0%)	–
Pneumothorax	9 (5.0%)	3 (10.7%)	0.210	2 (4.1%)	0 (0.0%)	1.000	1 (1.9%)	0 (0.0%)	1.000
Hemothorax	0 (0.0%)	2 (7.1%)	0.018*	0 (0.0%)	0 (0.0%)	–	0 (0.0%)	0 (0.0%)	–
Pleural effusion	1 (0.6%)	0 (0.0%)	1.000	1 (2.0%)	0 (0.0%)	1.000	1 (1.9%)	0 (0.0%)	1.000
Pneumonia	6 (3.4%)	1 (3.6%)	1.000	0 (0.0%)	0 (0.0%)	–	0 (0.0%)	0 (0.0%)	–
Therapeutic bronchoscopy	2 (1.1%)	1 (3.6%)	0.355	1 (2.0%)	0 (0.0%)	1.000	0 (0.0%)	0 (0.0%)	–
Prolonged air leak	23 (12.8%)	6 (21.4%)	0.224	0 (0.0%)	0 (0.0%)	1.000	1 (1.9%)	0 (0.0%)	1.000
ICU upgrade	7 (3.9%)	6 (21.4%)	<0.001*	4 (8.2%)	0 (0.0%)	1.000	2 (3.8%)	0 (0.0%)	1.000
Sepsis	2 (1.1%)	3 (10.7%)	0.019*	1 (2.0%)	1 (50.0%)	0.078	0 (0.0%)	0 (0.0%)	–
Septic shock	2 (1.1%)	1 (3.6%)	0.355	0 (0.0%)	0 (0.0%)	–	0 (0.0%)	0 (0.0%)	–
Arrythmia	5 (2.8%)	3 (10.7%)	0.078	4 (8.2%)	0 (0.0%)	1.000	2 (3.8%)	0 (0.0%)	1.000
Cardiac arrest	1 (0.6%)	0 (0.0%)	1.000	0 (0.0%)	0 (0.0%)	–	0 (0.0%)	0 (0.0%)	–
Conversion to open	4 (2.2%)	2 (7.1%)	0.188	0 (0.0%)	0 (0.0%)	–	0 (0.0%)	0 (0.0%)	–
Return to operating room	0 (0.0%)	2 (7.1%)	0.018*	1 (2.0%)	0 (0.0%)	1.000	0 (0.0%)	0 (0.0%)	–
Any complication	48 (26.8%)	16 (57.1%)	0.001*	14 (28.6%)	1 (50.0%)	0.506	7 (13.5%)	0 (0.0%)	0.586
ED presentation	16 (8.9%)	5 (17.9%)	0.146	0 (0.0%)	0 (0.0%)	1.000	0 (0.0%)	0 (0.0%)	–
Readmission	12 (6.7%)	3 (10.7%)	0.434	7 (14.3%)	0 (0.0%)	1.000	2 (3.8%)	0 (0.0%)	1.000

Data are presented as n (%). \*, significant P values. RATS, robotic-assisted thoracoscopic surgery; SVI, social vulnerability index; SSI, surgical site infection; ICU, intensive care unit; ED, emergency department.