

## Supplementary

**Table S1** The worst pain (VNRS) at rest, and with coughing, cumulative IV-PCA use, use of opioid in patients who underwent only VATS without conversion to open thoracotomy

Variables	Nefopam		P-value
	No (n=18)	Yes (n=17)	
Length of hospital stay, day	7.50 (6.00–9.75)	8.00 (6.00–9.00)	0.73
Pain at rest, VNRS			
0 h	8.00 (5.25–9.75)	3.00 (2.00–6.00)	0.009*
0–1 h	5.00 (5.00–7.75)	3.00 (2.00–5.00)	<0.001*
1–6 h	2.50 (2.00–4.00)	3.00 (2.00–4.00)	0.83
6–12 h	2.00 (1.25–4.00)	2.00 (1.00–2.00)	0.15
12–24 h	2.00 (2.00–4.00)	1.00 (1.00–2.00)	0.01*
Pain with coughing			
0 h	9.00 (6.00–10.00)	4.00 (2.00–7.00)	0.01*
0–1 h	6.00 (6.00–8.00)	4.00 (2.00–6.00)	<0.001*
1–6 h	5.00 (4.00–7.75)	5.00 (4.00–6.00)	0.45
6–12 h	5.00 (4.00–7.00)	4.00 (3.00–6.00)	0.12
12–24 h	4.50 (3.25–7.00)	3.00 (1.00–4.00)	0.04*
IV-PCA use ~24 h, mL	36.50 (26.25–45.00)	30.00 (20.00–45.00)	0.30
Opioid			
0–1 h	4 (22.2)	1 (5.9)	0.37
1–6 h	1 (5.6)	1 (5.9)	>0.99
6–12 h	3 (16.7)	1 (5.9)	0.64
12–24 h	6 (33.3)	1 (5.9)	0.11

Data are presented as median (interquartile range) or numbers (%). \*,  $P < 0.05$ . VNRS, verbal numerical rating scale; VATS, video-assisted thoracoscopic surgery; IV-PCA, intravenous-patient controlled analgesia.

**Table S2** Postoperative QoR-15 score in patients who underwent only VATS without conversion to open thoracotomy.

Variables	Nefopam		P-value
	No (n=18)	Yes (n=17)	
1. Able to breath easily	7.50 (5.50–8.00)	8.00 (8.00–10.00)	0.01*
2. Been able to enjoy food	7.50 (5.25–9.00)	10.00 (7.00–10.00)	0.050
3. Feeling rested	8.00 (6.25–9.00)	9.00 (8.00–10.00)	0.31
4. Have had a good sleep	7.50 (3.00–8.75)	8.00 (7.00–9.00)	0.30
5. Able to look after personal toilet and hygiene unaided	8.00 (7.00–10.00)	8.00 (7.00–10.00)	0.72
6. Able to communicate with family or friends	10.00 (9.25–10.00)	10.00 (9.00–10.00)	0.59
7. Getting support from hospital doctors and nurses	10.00 (10.00–10.00)	10.00 (9.00–10.00)	0.51
8. Able to return to work or usual home activities	5.00 (3.25–7.75)	6.00 (4.00–8.00)	0.43
9. Feeling comfortable and in control	9.00 (8.00–10.00)	8.00 (8.00–10.00)	0.85
10. Having a feeling of general well-being	7.00 (5.00–8.00)	8.00 (7.00–10.00)	0.23
11. Moderate pain	5.00 (3.50–8.75)	6.00 (4.00–7.00)	0.92
12. Severe pain	8.00 (4.00–10.00)	8.00 (6.00–10.00)	0.64
13. Nausea or vomiting	9.00 (4.25–10.00)	10.00 (9.00–10.00)	0.10
14. Feeling worried or anxious	8.00 (5.00–10.00)	9.00 (6.00–10.00)	0.92
15. Feeling sad or depressed	9.00 (8.00–10.00)	10.00 (6.00–10.00)	0.96
Global QoR-15	110.50 (100.25–121.75)	120.00 (111.00–129.00)	0.20

Data are presented as median (interquartile range). \*,  $P < 0.05$ . QoR, quality of recovery; VATS, video-assisted thoracoscopic surgery.