

Supplementary File

Immunological effects of postoperative epidural analgesia versus oral opioids in Video-Assisted Thoracic Surgery

Participant flow

Excluded patients

Excluded (n = 187)

- Contraindications for use of trial medication (n = 73).
 - Stated drug allergy to acetaminophen, NSAID, morphine, or bupivacain (n = 22).
 - Symptoms rendering use of NSAID impossible (previous peptic ulcer, gastroesophageal reflux disease or elevated serum creatinine (n = 51).
- Chronic pain syndrome (n = 48).
- Reduced mental capacity (n = 5).
- Contraindications for use of epidural catheter due to anticoagulant treatment (n = 7).
- Concurrent cancers (n = 33).
- Other (n = 13).
- Placing epidural catheter not technically possible (n = 8).

Summary statistics

	n	Mean	Median	Minimum	P25	P75	Maximun
IL-6							
T0							
TE Group	27	2.04	1.12	0.40	0.82	1.55	22.51
OM Group	24	1.68	1.39	0.73	1.02	2.17	3.78
T1							
TE Group	28	10.37	5.82	0.41	1.99	13.76	40.94
OM Group	23	6.92	4.28	0.68	1.56	10.27	25.61
T2							
TE Group	28	27.28	23.83	5.33	14.53	35.91	86.48
OM Group	24	21.16	17.96	1.60	10.42	23.61	93.50
T3							
TE Group	28	20.00	10.05	3.44	6.07	21.08	194.95
OM Group	24	14.85	10.24	2.61	7.24	18.24	53.72
IL-12							
T0							
TE Group	14	0.11	0.06	0.05	0.06	0.11	0.45
OM Group	13	0.13	0.11	0.06	0.06	0.14	0.44
T1							
TE Group	19	0.11	0.06	0.05	0.05	0.11	0.46
OM Group	16	0.16	0.08	0.05	0.06	0.26	0.39
T2							
TE Group	16	0.14	0.06	0.05	0.06	0.19	0.60
OM Group	11	0.22	0.23	0.06	0.06	0.32	0.55
T3							
TE Group	21	0.18	0.11	0.05	0.06	0.14	1.11
OM Group	12	0.12	0.06	0.06	0.06	0.11	0.37
IFN-γ							
T0							
TE Group	27	7.14	5.75	1.80	3.60	9.21	30.03
OM Group	24	9.73	5.95	2.24	2.88	10.57	57.95
T1							
TE Group	28	7.22	4.32	1.32	2.31	8.12	31.56
OM Group	23	5.70	4.01	1.02	2.94	6.24	21.12
T2							
TE Group	28	6.51	4.75	1.23	2.30	8.23	28.08
OM Group	24	5.80	4.68	0.77	2.92	7.46	22.69
T3							
TE Group	28	6.27	4.14	1.14	3.08	5.38	56.25
OM Group	23	5.42	4.32	1.13	2.47	6.21	21.03
IL-10							
T0							
TE Group	23	0.29	0.19	0.04	0.14	0.40	1.42
OM Group	21	0.53	0.26	0.11	0.18	0.42	2.35
T1							
TE Group	26	0.59	0.39	0.14	0.29	0.62	2.44
OM Group	22	0.84	0.30	0.04	0.18	0.68	9.15
T2							

TE Group	28	1.78	0.68	0.04	0.46	0.88	18.37
OM Group	24	2.37	1.06	0.19	0.44	1.75	26.45
T3							
TE Group	28	0.80	0.61	0.18	0.42	0.82	2.45
OM Group	24	1.03	0.70	0.20	0.48	1.18	3.55

Table: Summary statistics for cytokine levels in blood for included patients (n = 56). T0: Preoperatively. T1: Peroperatively. T2: Postoperative Care Unit. T3: Surgical Ward. TE Group: Thoracic Epidural Group. OM Group: Oral Morphine Group.

Missing Values

	n (total)	n (with values)	n (missing)	Missing (%)
IL-6				
T0				
TE Group	30	27	3	10
OM Group	26	24	2	8
T1				
TE Group	30	28	2	7
OM Group	26	23	3	12
T2				
TE Group	30	28	2	7
OM Group	26	24	2	8
T3				
TE Group	30	28	2	7
OM Group	26	24	2	8
IL-12				
T0				
TE Group	30	14	16	53
OM Group	26	13	13	50
T1				
TE Group	30	19	11	37
OM Group	26	16	10	38
T2				
TE Group	30	16	14	47
OM Group	26	11	15	58
T3				
TE Group	30	21	9	30
OM Group	26	12	14	54
IFN-γ				
T0				
TE Group	30	27	3	10
OM Group	26	24	2	8
T1				
TE Group	30	28	2	7
OM Group	26	23	3	12
T2				
TE Group	30	28	2	7
OM Group	26	24	2	8
T3				
TE Group	30	28	2	7
OM Group	26	23	3	12
IL-10				
T0				
TE Group	30	23	7	23
OM Group	26	21	5	19
T1				
TE Group	30	26	4	13
OM Group	26	22	4	15
T2				

TE Group	30	28	2	7
OM Group	26	24	2	8
T3				
TE Group	30	28	2	7
OM Group	26	24	2	8

Table: Missing values for cytokine levels in blood for included patients (n = 56). T0: Preoperatively. T1: Peroperatively. T2: Postoperative Care Unit. T3: Surgical Ward. TE Group: Thoracic Epidural Group. OM Group: Oral Morphine Group.