

Supplementary Table 3. Subgroup comparisons of postoperative outcomes between patients with and with scalp nerve block according to type of minicraniotomy

Variable	Minicraniotomy with muscle incision			Minicraniotomy without muscle incision		
	SNB group (n=16)	Control group (n=9)	p-value	SNB group (n=11)	Control group (n=16)	p-value
Severity of PCH*						
3 hours postoperatively	4.0 (2.3–6.0)	4.0 (3.0–6.0)	0.637	2.0 (1.0–4.0)	5.0 (4.0–5.0)	0.007
6 hours postoperatively	3.0 (2.0–5.0)	3.0 (3.0–5.0)	0.598	2.0 (1.0–3.0)	4.0 (2.3–5.0)	0.030
9 hours postoperatively	3.0 (2.0–4.0)	3.0 (2.0–5.0)	0.637	2.0 (1.0–4.0)	4.0 (3.0–5.8)	0.050
12 hours postoperatively	3.0 (2.0–4.0)	4.0 (2.5–5.5)	0.251	2.0 (2.0–4.0)	4.0 (3.0–5.0)	0.080
1 day postoperatively	3.1 (2.5–4.0)	3.2 (2.7–3.8)	0.934	3.0 (2.4–3.7)	3.5 (2.9–4.0)	0.178
2 days postoperatively	3.1 (2.6–3.9)	2.9 (2.3–3.3)	0.301	2.9 (2.5–3.6)	3.0 (2.6–4.1)	0.394
3 days postoperatively	2.5 (2.0–3.9)	2.8 (2.3–3.2)	0.760	2.9 (2.5–3.4)	2.8 (2.3–3.0)	0.512
Total amount of IV-PCA consumed (mL)						
3 hours postoperatively	3.0 (2.0–4.8)	2.0 (1.5–5.0)	0.846	1.0 (0.0–3.0)	4.5 (3.0–5.8)	0.007
6 hours postoperatively	5.0 (3.0–7.8)	3.0 (2.0–5.0)	0.187	1.0 (1.0–3.0)	6.0 (4.0–7.0)	0.003
9 hours postoperatively	5.5 (3.0–9.5)	5.0 (2.5–5.5)	0.276	2.0 (1.0–3.0)	7.0 (4.5–9.5)	0.003
12 hours postoperatively	7.0 (3.3–9.8)	5.0 (3.0–6.5)	0.301	3.0 (1.0–6.0)	8.0 (4.8–10.3)	0.006
1 day postoperatively	13.0 (4.0–17.0)	8.0 (3.5–11.0)	0.187	5.0 (4.0–7.0)	11.5 (5.0–15.5)	0.110
2 days postoperatively	16.5 (5.5–26.5)	11.0 (4.0–20.0)	0.276	9.0 (6.0–21.0)	17.5 (6.0–24.8)	0.342
3 days postoperatively	20.0 (8.3–34.3)	11.0 (4.0–22.5)	0.108	10.0 (7.0–22.0)	19.0 (6.0–33.8)	0.422
Total number of rescue analgesics administered						
3 hours postoperatively	0.0 (0.0–0.0)	0.0 (0.0–0.0)	0.846	0.0 (0.0–1.0)	0.0 (0.0–0.0)	0.368
6 hours postoperatively	0.0 (0.0–0.0)	0.0 (0.0–1.0)	0.419	0.0 (0.0–1.0)	0.0 (0.0–0.0)	0.544
9 hours postoperatively	0.0 (0.0–0.8)	0.0 (0.0–1.0)	0.803	0.0 (0.0–1.0)	0.0 (0.0–0.0)	0.318
12 hours postoperatively	1.0 (0.0–1.0)	0.0 (0.0–1.5)	0.803	0.0 (0.0–1.0)	0.0 (0.0–0.0)	0.231
1 day postoperatively	1.0 (0.3–1.0)	0.0 (0.0–2.0)	0.452	1.0 (0.0–3.0)	0.0 (0.0–1.0)	0.272
2 days postoperatively	1.0 (0.3–1.0)	0.0 (0.0–2.5)	0.718	1.0 (0.0–3.0)	1.0 (0.0–1.8)	0.368
3 days postoperatively	1.0 (0.3–1.8)	0.0 (0.0–2.5)	0.677	1.0 (0.0–3.0)	1.0 (0.0–2.0)	0.368
Time to first administration of rescue analgesics (hours)	12.2 (8.3–14.5)	4.5 (3.0–9.7)	0.058	6.9 (1.3–12.6)	22.8 (7.5–40.2)	0.071
PONV						
3 hours postoperatively	6 (37.5)	1 (11.1)	0.355	4 (36.4)	2 (12.5)	0.187
Mild	4 (25.0)	0 (0.0)	0.260	1 (9.1)	1 (6.3)	1.000
Moderate	2 (12.5)	1 (11.1)	1.000	3 (27.3)	1 (6.3)	0.273
6 hours postoperatively	5 (31.3)	2 (22.2)	1.000	4 (36.4)	0 (0.0)	0.039
Mild	3 (18.8)	2 (22.2)	1.000	4 (36.4)	0 (0.0)	0.039
Moderate	2 (12.5)	0 (0.0)	0.520	0 (0.0)	0 (0.0)	NA
9 hours postoperatively	3 (18.8)	2 (22.2)	1.000	1 (9.1)	2 (12.5)	1.000
Mild	2 (12.5)	1 (11.1)	1.000	1 (9.1)	1 (6.3)	1.000
Moderate	1 (6.3)	1 (11.1)	1.000	0 (0.0)	1 (6.3)	1.000
12 hours postoperatively	3 (18.8)	1 (11.1)	1.000	1 (9.1)	1 (6.3)	1.000
Mild	1 (6.3)	1 (11.1)	1.000	1 (9.1)	0 (0.0)	0.407
Moderate	2 (12.5)	0 (0.0)	0.520	0 (0.0)	1 (6.3)	1.000

Supplementary Table 3. Continued

Variable	Minicraniotomy with muscle incision			Minicraniotomy without muscle incision		
	SNB group (n=16)	Control group (n=9)	p-value	SNB group (n=11)	Control group (n=16)	p-value
1 day postoperatively	7 (43.8)	5 (55.6)	0.688	3 (27.3)	6 (37.5)	0.692
Mild	3 (18.8)	4 (44.4)	0.205	1 (9.1)	5 (31.3)	0.350
Moderate	4 (25.0)	1 (11.1)	0.621	2 (18.2)	1 (6.3)	0.549
2 days postoperatively	7 (43.8)	5 (55.6)	0.688	3 (27.3)	9 (56.3)	0.239
Mild	2 (12.5)	3 (33.3)	0.312	2 (18.2)	6 (37.5)	0.405
Moderate	5 (31.3)	2 (22.2)	1.000	1 (9.1)	3 (18.8)	0.624
3 days postoperatively	4 (25.0)	4 (44.4)	0.394	3 (27.3)	5 (31.3)	1.000
Mild	3 (18.8)	4 (44.4)	0.205	2 (18.2)	5 (31.3)	0.662
Moderate	1 (6.3)	0 (0.0)	1.000	1 (9.1)	0 (0.0)	0.407
Length of hospital stay (days)	6.0 (6.0–7.0)	7.0 (6.0–7.0)	0.890	7.0 (6.0–7.8)	7.0 (6.0–7.5)	0.645

Values are presented as median (interquartile range) or number (proportion). *Was assessed using a numeric rating scale (NRS; 0, no pain; 10, worst pain imaginable). SNB : scalp nerve block, PCH : postcraniotomy headache, IV-PCA : intravenous patient-controlled analgesia, PONV : postoperative nausea and vomiting, NA : not applicable