

Supplementary Table 2. Subgroup comparisons of perioperative quality of recovery-40 scores 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)	Median difference (95% CI)	p-value	SNB group (n=11)	Control group (n=16)	Median difference (95% CI)	p-value
Preoperatively	184.5 (167.3 to 195.8)	188.0 (169.8 to 190.5)	1.5 (-17.0 to 9.0)	0.803	188.0 (167.0 to 194.0)	185.0 (173.0 to 196.5)	-2.0 (-12.0 to 9.0)	0.610
Physical comfort	57.0 (54.3 to 59.0)	57.0 (55.5 to 57.5)	0.0 (-3.0 to 3.0)	1.000	57.0 (54.0 to 58.0)	56.5 (53.3 to 58.8)	0.0 (-2.0 to 2.0)	0.865
Emotional state	41.5 (38.0 to 42.8)	42.0 (36.0 to 43.5)	0.0 (-3.0 to 3.0)	0.718	43.0 (38.0 to 45.0)	42.0 (38.5 to 44.0)	0.0 (-2.0 to 3.0)	0.680
Physical independence	22.0 (17.3 to 25.0)	21.0 (18.5 to 24.5)	0.0 (-3.0 to 4.0)	0.934	22.0 (17.0 to 25.0)	22.0 (20.0 to 24.5)	0.0 (-4.0 to 2.0)	0.680
Psychological support	33.5 (28.5 to 35.0)	34.0 (29.3 to 34.5)	0.0 (-2.4 to 3.0)	1.000	34.0 (29.0 to 35.0)	32.0 (29.3 to 35.0)	0.0 (-2.0 to 4.0)	0.827
Pain	33.0 (27.5 to 34.8)	34.0 (29.0 to 34.0)	0.0 (-4.0 to 3.0)	0.934	32.0 (28.0 to 33.0)	34.0 (32.0 to 35.0)	-2.0 (-4.0 to 0.0)	0.110
1 day postoperatively	150.0 (138.0 to 164.3)	160.0 (134.0 to 170.0)	-3.0 (-22.0 to 18.0)	0.760	158.0 (142.0 to 177.0)	167.0 (145.5 to 184.0)	-2.5 (-19.0 to 18.0)	0.716
Physical comfort	44.5 (36.0 to 51.0)	45.0 (42.0 to 48.5)	0.0 (-9.0 to 7.0)	0.978	48.0 (43.0 to 54.0)	45.5 (41.3 to 52.8)	1.0 (-5.0 to 6.0)	0.865
Emotional state	32.5 (27.3 to 37.5)	35.0 (26.5 to 37.0)	-1.0 (-6.0 to 4.0)	0.803	31.0 (28.0 to 32.0)	34.0 (28.3 to 39.8)	-1.0 (-6.0 to 3.0)	0.577
Physical independence	16.0 (12.3 to 17.8)	17.0 (12.5 to 18.0)	-1.0 (-5.0 to 4.0)	0.677	19.0 (14.0 to 22.0)	18.0 (15.3 to 22.8)	-1.0 (-4.0 to 4.0)	0.790
Psychological support	29.0 (23.0 to 34.0)	29.0 (24.0 to 33.5)	0.0 (-5.0 to 4.0)	0.846	31.0 (28.0 to 32.0)	30.5 (27.0 to 34.8)	-0.5 (-3.0 to 3.0)	0.790
Pain	32.5 (28.0 to 35.0)	32.0 (29.0 to 34.0)	0.5 (-4.0 to 3.0)	0.760	33.0 (32.0 to 35.0)	34.0 (29.5 to 35.0)	0.0 (-2.0 to 2.0)	0.865
2 days postoperatively	156.0 (132.8 to 176.5)	172.0 (148.5 to 180.0)	-6.0 (-28.0 to 13.0)	0.419	165.0 (149.0 to 180.0)	177.0 (162.8 to 188.0)	-9.0 (-21.0 to 5.0)	0.368
Physical comfort	45.0 (37.3 to 51.8)	49.0 (45.5 to 52.0)	-3.5 (-10.0 to 3.0)	0.251	48.0 (43.0 to 53.0)	52.5 (45.5 to 56.0)	-3.0 (-8.0 to 1.0)	0.251
Emotional state	33.5 (28.5 to 38.0)	35.0 (31.0 to 39.0)	-1.5 (-7.0 to 3.0)	0.637	37.0 (32.0 to 39.0)	38.0 (33.8 to 41.0)	-2.0 (-5.0 to 2.0)	0.318
Physical independence	16.5 (13.0 to 20.8)	19.0 (12.5 to 22.0)	-1.0 (-5.0 to 4.0)	0.718	18.0 (16.0 to 23.0)	21.0 (18.0 to 23.8)	-2.0 (-5.0 to 2.0)	0.318
Psychological support	30.5 (27.5 to 34.0)	33.0 (23.5 to 35.0)	-1.0 (-5.0 to 5.0)	0.637	30.0 (28.0 to 35.0)	33.0 (30.0 to 35.0)	-1.0 (-5.0 to 2.0)	0.481
Pain	30.5 (28.0 to 34.3)	34.0 (30.5 to 35.0)	-2.5 (-5.0 to 1.0)	0.207	33.0 (31.0 to 34.0)	34.0 (32.0 to 35.0)	-1.0 (-2.0 to 1.0)	0.342
3 days postoperatively*	172.0 (148.8 to 183.8)	169.0 (153.0 to 184.5)	-1.0 (-17.9 to 16.0)	0.803	175.0 (157.0 to 193.0)	184.0 (174.0 to 193.0)	-6.0 (-25.0 to 8.0)	0.384
Physical comfort	52.0 (43.3 to 56.8)	52.0 (47.5 to 54.0)	0.0 (-7.0 to 5.0)	0.934	53.0 (42.0 to 56.0)	55.0 (52.0 to 58.0)	-2.0 (-8.0 to 2.0)	0.237
Emotional state	37.0 (34.0 to 40.8)	39.0 (31.5 to 41.0)	0.0 (-4.0 to 4.0)	0.890	40.0 (35.0 to 43.0)	40.0 (38.0 to 42.0)	-1.0 (-5.0 to 3.0)	0.799
Physical independence	20.5 (15.0 to 23.0)	18.0 (16.0 to 22.5)	0.0 (-4.0 to 4.5)	0.934	20.0 (18.0 to 24.0)	22.0 (19.5 to 24.0)	-2.0 (-5.0 to 1.0)	0.281
Psychological support	32.5 (26.5 to 34.8)	31.0 (27.5 to 35.0)	0.0 (-3.0 to 4.0)	0.803	34.0 (26.0 to 35.0)	33.0 (30.0 to 35.0)	0.0 (-5.0 to 2.0)	0.610
Pain	33.0 (29.5 to 35.0)	32.0 (29.5 to 33.5)	1.0 (-2.0 to 4.0)	0.301	33.0 (30.0 to 35.0)	34.0 (32.0 to 35.0)	0.0 (-3.0 to 1.0)	0.443
At hospital discharge [†]	173.0 (142.3 to 190.3)	158.0 (157.0 to 182.0)	1.5 (-19.0 to 20.0)	0.934	166.0 (146.0 to 179.0)	173.4 (167.0 to 192.5)	-10.0 (-27.0 to 6.0)	0.318
Physical comfort	51.0 (43.5 to 57.5)	51.5 (44.5 to 54.5)	0.5 (-7.0 to 7.0)	0.916	51.0 (43.5 to 54.5)	54.5 (48.8 to 57.3)	-4.0 (-9.0 to 2.0)	0.250
Emotional state	38.0 (33.0 to 44.0)	38.5 (34.8 to 40.0)	0.0 (-5.0 to 5.0)	0.972	36.0 (31.5 to 41.0)	40.3 (36.3 to 43.0)	-3.0 (-7.5 to 1.0)	0.141
Physical independence	20.0 (15.5 to 24.5)	20.0 (18.0 to 22.0)	0.0 (-5.0 to 4.0)	0.916	19.0 (14.5 to 22.5)	21.5 (19.3 to 25.0)	-3.0 (-6.0 to 0.0)	0.096
Psychological support	33.0 (24.5 to 35.0)	30.0 (27.3 to 34.0)	0.0 (-5.0 to 5.0)	1.000	27.0 (22.5 to 31.5)	33.1 (28.0 to 35.0)	-5.0 (-9.0 to 0.0)	0.083

Supplementary Table 2. Continued

Variable	Minicraniotomy with muscle incision			Minicraniotomy without muscle incision				
	SNB group (n=16)	Control group (n=9)	Median difference (95% CI)	p-value	SNB group (n=11)	Control group (n=16)	Median difference (95% CI)	p-value
Pain	34.0 (29.0 to 35.0)	32.5 (29.3 to 34.8)	0.0 (-2.0 to 4.0)	0.645	32.0 (27.5 to 34.0)	34.0 (32.5 to 35.0)	-2.0 (-5.0 to 0.0)	0.109
1 month postoperatively [†]	178.0 (165.0 to 188.0)	178.1 (144.0 to 192.3)	-0.6 (-18.1 to 18.0)	0.877	183.5 (168.0 to 194.5)	178.6 (165.0 to 194.1)	1.0 (-12.0 to 19.0)	0.856
Physical comfort	54.0 (51.5 to 57.5)	53.0 (48.0 to 58.0)	0.0 (-4.0 to 6.0)	0.757	57.0 (52.0 to 59.0)	55.5 (49.3 to 59.5)	1.0 (-3.0 to 7.0)	0.698
Emotional state	40.0 (36.0 to 42.0)	41.0 (33.0 to 42.0)	0.0 (-5.0 to 4.0)	0.757	42.0 (38.3 to 43.5)	41.5 (37.5 to 44.0)	0.0 (-3.0 to 4.0)	0.897
Physical independence	21.0 (16.0 to 23.0)	19.0 (14.0 to 24.0)	0.0 (-6.0 to 4.0)	0.877	21.0 (18.8 to 23.5)	21.5 (17.3 to 25.0)	0.0 (-3.0 to 3.0)	0.979
Psychological support	32.0 (29.0 to 33.0)	30.1 (29.0 to 34.3)	0.0 (-3.1 to 3.5)	0.817	32.5 (30.0 to 34.3)	30.6 (27.3 to 35.0)	1.0 (-2.0 to 5.0)	0.583
Pain	32.0 (30.0 to 33.5)	32.0 (29.0 to 34.0)	0.0 (-3.0 to 3.0)	0.877	32.5 (30.8 to 35.0)	34.0 (31.3 to 35.0)	0.0 (-3.0 to 1.0)	0.660

Values are presented as median (interquartile range) unless otherwise indicated. [†]Sixteen, 9, 11, and 15 patients in SNB group with muscle incision, control group with muscle incision, SNB group without muscle incision, and control group without muscle incision, respectively. [‡]Thirteen, 8, 9, and 14 patients in SNB group with muscle incision, control group with muscle incision, SNB group without muscle incision, and control group without muscle incision, respectively. [§]Thirteen, 7, 10, and 16 patients in SNB group with muscle incision, control group with muscle incision, SNB group without muscle incision, and control group without muscle incision, respectively. SNB :scalp nerve block, CI : confidence interval