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| Supplementary Table 5. Between-group analysis of primary and secondary outcome |
| 　 | Placebo vs. Mannitol 0.7 | Placebo vs. Mannitol 1.0 | Placebo vs. Mannitol 1.4 | Mannitol 0.7 vs. Mannitol 1.0 | Mannitol 0.7 vs. Mannitol 1.4 | Mannitol 1.0 vs. Mannitol 1.4 | Cochran Armitage test P value |
|
| **Primary outcome** |
| Brain relaxation | 1.00 (0.56-1.79) | 1.95 (1.26-3.02)‡ | 2.00 (1.30-3.08) ‡ | 1.95 (1.26-3.02) ‡ | 2.00 (1.30-3.08) ‡ | 1.02 (0.84-1.29) | <0.0001 |
| **Secondary outcome** |
| Relaxed dural tension | 1.25 (0.62-2.50) | 2.13 (1.18-3.82) ‡ | 2.00 (1.10-3.63) ‡ | 1.70 (1.02-2.83) ‡ | 1.60 (0.95-2.70) | 0.94 (0.65-1.36) | <0.0001 |
| Surgical exposure | 1.18 (0.69-2.03) | 2.00 (1.30-3.08) ‡ | 2.0 (1.30-3.08) ‡ | 1.69 (1.163-2.46) ‡ | 1.69 (1.16-2.46) | 1.00 (0.83-1.21) | <0.0001 |
| Additional treatment | 0.88 (0.66-1.17) | 0.78 (0.57-1.08) | 0.61 (0.41-0.91) ‡ | 0.89 (0.62-1.27) | 0.69 (0.45-1.07) | 0.78 (0.50-1.23) | 0.0005 |
| Complications¶ | 0.58 (0.29-1.17) | 0.67 (0.35-1.28) | 1.17 (0.71-1.92) | 1.14 (0.52-2.52) | 2.00 (1.03-3.90) ‡ | 1.75 (0.94-3.26) | 0.368 |
| Cerebral edema | 0.96(0.57-1.62) | 1.00(0.60-1.67) | 1.46(0.97-2.21) | 1.04(0.62-1.76) | 1.53(0.99-2.36) ‡ | 1.46(0.97-2.21) | 0.018 |
| Incidences of the primary outcome and secondary outcomes are presented as the n (%). Results of the between-groups analyses were presented as the risk ratios (RRs) and 99% confidence intervals (CIs). Additional treatment included hyperventilation and extra mannitol rescue. ¶Post-operative complications included hematoma, status epilepticus, infection, cerebral edema and death. No patients died within one week postoperatively. ‡ indicates a between-group p value<0.0083 with Bonferroni correction. |