

**Randomized controlled trial comparing cerebral perfusion pressure (CPP) targeted therapy versus intracranial pressure (ICP) targeted therapy for raised ICP due to acute central nervous system infections in children**

**Appendix-4**

**Appendix-4: Clinical and laboratory parameters during 72 hours after enrollment of study in the two study groups (values are given mean  $\pm$  SEM of all the recorded values during 72 hours)**

Sr.No	Parameters	ICP-Group (n=55)	CPP-Group (n=55)	p value <sup>a</sup>
1	Temperature (°C)	37.2 $\pm$ 0.04	37.2 $\pm$ 0.04	0.909
2	End tidal Carbon dioxide (EtCO <sub>2</sub> ) (torr) [kPa]	34 $\pm$ 0.5 [4.5 $\pm$ 0.1]	35 $\pm$ 0.44 [4.7 $\pm$ 0.1]	0.537
3	Central Venous Pressure (CVP) (cm H <sub>2</sub> O)	11 $\pm$ 0.13	10 $\pm$ 0.13	0.006
4	Urine Output (ml/kg/hr)	2.3 $\pm$ 0.13	2.3 $\pm$ 0.13	0.866
5	Random Blood Sugar (RBS) (mg/dl)	131 $\pm$ 3.2	130 $\pm$ 3.2	0.797
6	pH	7.38 $\pm$ 0.01	7.39 $\pm$ 0.01	0.135
7	PaO <sub>2</sub> (torr) [kPa]	117 $\pm$ 3.8 [15.6 $\pm$ 0.5]	130 $\pm$ 3.8 [17.3 $\pm$ 0.5]	0.020
8	PaCO <sub>2</sub> (torr) [kPa]	37 $\pm$ 0.58 [4.9 $\pm$ 0.1]	38 $\pm$ 0.58 [5.1 $\pm$ 0.1]	0.770
9	Urea (mg %)	28 $\pm$ 2.3	25 $\pm$ 2.2	0.315
10	Blood Urea Nitrogen (BUN)	12 $\pm$ 0.94	10 $\pm$ 0.93	0.315
11	Serum Creatinine (mg/dl)	0.62 $\pm$ 0.04	0.62 $\pm$ 0.04	0.965
12	Serum Sodium (mEq/L)	143 $\pm$ 0.9	141 $\pm$ 0.8	0.051
13	Serum Potassium (mEq/L)	4.3 $\pm$ 0.05	4.1 $\pm$ 0.05	0.138
14	Serum Osmolarity (mOsmol/L)	302 $\pm$ 2	294 $\pm$ 2	0.002
15	Calculated Osmolarity (mOsmol/L)	292 $\pm$ 2	287 $\pm$ 2	0.046
16	Osmolar gap (OG)	13 $\pm$ 1	10 $\pm$ 1	0.054
17	e-GFR (ml/min/1.73m <sup>2</sup> )	84 $\pm$ 3.6	83 $\pm$ 3.6	0.866

All data presented as Mean  $\pm$  SEM unless otherwise indicated.

**Abbreviations:** SEM-Standard error of mean; PaO<sub>2</sub>-Partial pressure of oxygen in the arterial blood; PaCO<sub>2</sub>-Partial pressure of carbon dioxide in the arterial blood; Osmolar gap (OG) = Measured serum osmolarity – calculated osmolarity; e-GFR-estimated Glomerular Filtration Rate.

<sup>a</sup> Repeated Measures ANOVA