**Supplementary table 4: Clinical and biochemical characteristics present in patients with and without external ventricular catheter-associated infection - day 3.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Median patients with infection (IQR) | Median patients without infection\* (IQR) | P-value | **AUC (95% CI)** | **Cut off** | **Patients with infection**  **n/N (%)** | **Patients without infection\*  n/N (%)** | **Sensitivity\*\***  **% (95% CI)** | **Specificity**  **% (95% CI)** | **p-value** |
| **Temperature** | 38.8  (37.6-38.8) | 38.2  (37.6-38.7) | 0.3 |  | **≥ 38.0 °C** | 7/11 (64) | 22/35 (63) |  |  | >0.99 |
| **CSF leukocyte count** | 609 (307-1484) | 37 (22-126) | <0.01 | 0.85 (0.68->1.00) | **> 5 x106/L** | 8/8 (100) | 29/32 (91) |  |  | >0.99 |
|  |  |  |  |  | **> 100 x106/L** | 7/8 (88) | 10/32 (31) | 88 (47-100) | 69 (50-84) | 0.006 |
|  |  |  |  |  | **>1000 x106/L** | 3/8 (38) | 2/32 (6) | 38 (9-76) | 94 (79-99) | 0.046 |
| **CSF lactate conc. (mmol/L)** | 2.9 (2.6-5) | 2.7 (2.1-3.6) | 0.67 |  | **≥ 4** | 3/7 (43) | 5/29 (17) |  |  | 0.167 |
| **Lactate ratio** | 3.5 (2-5.8) | 2.5 (1.8-3.6) | 0.44 |  |  |  |  |  |  |  |
| **CSF glucose conc. (mmol/L)** | 2.5 (1.8-4.3) | 3.8 (3.4-5.0) | 0.02 | 0.76 (0.57-0.96) |  |  |  |  |  |  |
| **CSF to blood glucose ratio** | 0.3 (0.1-0.6) | 0.6 (0.5-0.6) | 0.03 | 0.81 (0.54- 1.00) | **< 0.6** | 4/5 (80) | 14/22 (64) |  |  | 0.636 |
|  |  |  |  |  | **< 0.4** | 3/5 (60) | 2/22 (9) | 60 (15-95) | 91 (71-100) | 0.030 |
| **CSF total protein conc. (g/L)** | 0.95 (0.63-1.76) | 0.41 (0.27-0.79) | 0.02 | 0.76 (0.58-0.94) | **≥0.6 g/L** | 7/9 (78) | 9/32 (28) | 78 (40-97) | 72 (53-86) | 0.017 |
| **Percentage PMN** | 64 (32-90) | 61 (45-74) | 0.73 |  |  |  |  |  |  |  |
| **Cell index** | 11.1 (9.3-67.5) | 1.5 (0.4-5.8) | 0.02 | 0.82 (0.67-0.98) |  |  |  |  |  |  |
| **\*Patients are only included if the drain is in situ on day 12**  **\*\* Calculated in case a significant difference between patients with and without external ventricular catheter-associated infection was found** | | | | | | | | | | |