**Supplementary table 3: Clinical and biochemical characteristics present in patients with and without external ventricular catheter-associated infection - day 1.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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 (°C)** | 38.8  (38.6-39.5) | 38.4  (37.7-38.9) | 0.04 | 0.69 (0.54-0.83) | **≥ 38.0** | 13/14 (93) | 28/42 (67) |  |  | 0.082 |
| **CSF leukocyte count (x106/L)** | 529 (33-7430) | 180 (36-520) | 0.22 |  | **> 5** | 9/10 (90) | 36/39 (92) |  |  | >0.99 |
|  |  |  |  |  | **> 100** | 7/10 (70) | 26/39 (67) |  |  | >0.99 |
|  |  |  |  |  | **>1000** | 4/10 (40) | 7/39 (18) |  |  | 0.201 |
| **CSF lactate conc. (mmol/L)** | 3.7 (2.2-5.2) | 3 (2.1-3.5) | 0.19 |  | **≥ 4** | 4/8 (50) | 4/37 (11) | 50 (16-84) | 89 (75-97) | 0.024 |
| **Lactate ratio** | 3.6 (2.2-7.5) | 2.8 (2.3-3.9) | 0.3 |  |  |  |  |  |  |  |
| **CSF glucose conc. (mmol/L)** | 2.9 (2-4.9) | 3.7 (3-4.5) | 0.19 |  |  |  |  |  |  |  |
| **CSF to blood glucose ratio** | 0.4 (0.1-0.7) | 0.5 (0.5-0.6) | 0.25 |  | **< 0.6** | 5/8 (63) | 17/25 (68) |  |  | >0.99 |
|  |  |  |  |  | **< 0.4** | 3/8 (38) | 1/25 (4) | 38 (9-76) | 96 (80-100) | 0.036 |
| **CSF total protein conc. (g/L)** | 1.2 (0.2-2.2) | 0.6 (0.4-0.9) | 0.11 |  | **≥0.6** | 8/11 (73) | 19/39 (49) |  |  | 0.158 |
| **Percentage PMN** | 78 (69-94) | 69 (33-81) | 0.04 | 0.72 (0.55-0.88) |  |  |  |  |  |  |
| **Cell index** | 7.2 (2.2-195.5) | 1.9 (0.7-7.9) | 0.02 | 0.73 (0.52-0.93) |  |  |  |  |  |  |
| **\*Patients are only included if the drain is in situ on day 10**  **\*\* Calculated in case a significant difference between patients with and without external ventricular catheter-associated infection was found** | | | | | | | | | | |