**Supplementary table 2: Clinical and biochemical characteristics present in patients with and without external ventricular catheter-associated infection - day 0.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 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)** | 38.7  (37.8-39.3) | 38.3  (37.6-39.1) | 0.32 |  | ≥ 38.0 | 11/15 (73) | 31/50 (62) |  |  | 0.544 |
| **CSF leukocyte count (x106/L)** | 129 (42-1174) | 175 (48-565) | 0.9 |  | > 5 | 13/15 (87) | 36/40 (90) |  |  |  |
|  |  |  |  |  | > 100 | 9/15 (60) | 27/40 (68) |  |  | 0.660 |
|  |  |  |  |  | >1000 | 4/15 (27) | 7/40 (18) |  |  | 0.602 |
| **CSF lactate conc. (mmol/L)** | 3.1 (2.3-4.1) | 3 (2.1-3.8) | 0.22 |  | ≥ 4 | 2/10 (20) | 8/39 (21) |  |  | >0.99 |
| **Lactate ratio** | 2.9 (1.8-3.8) | 2.9 (2.2-4.1) | 0.63 |  |  |  |  |  |  |  |
| **CSF glucose conc. (mmol/L)** | 4.2 (3.6-5.2) | 3.8 (3.2-4.8) | 0.46 |  |  |  |  |  |  |  |
| **CSF to blood glucose ratio** | 0.6 (0.5-0.6) | 0.5 (0.5-0.6) | 0.63 |  | < 0.6 | 5/7 (71) | 28/33 (85) |  |  |  |
|  |  |  |  |  | < 0.4 | 1/7 (14) | 3/33 (9) |  |  | 0.584 |
| **CSF total protein conc. (g/L)** | 0.8 (0.4-1.1) | 0.6 (0.3-0.9) | 0.38 |  | ≥ 0.6 | 8/15 (53) | 21/41 (51) |  |  | >0.99 |
| **Percentage PMN** | 74 (54-94) | 67 (47-75) | 0.13 |  |  |  |  |  |  |  |
| **Cell index** | 1.0 (0.4-6.6) | 1.3 (0.6-4.8) | 0.65 |  |  |  |  |  |  |  |
| **\*Patients are only included if the drain is in situ on day 9**  **\*\* Calculated in case a significant difference between patients with and without external ventricular catheter-associated infection was found** | | | | | | | | | | |