**Table 1.** Final diagnoses of the relapsing ADEM patients according to anti-MOG serology

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Serum anti-MOG Ab Status** | | |
| **Final Diagnosis** | Positive  (MOG-AD) (n) | Negative (n) | Unavailable (n) |
| Multiphasic ADEM (n=9) | 3 | 2 | 4 |
| Multiple sclerosis\* (n=8) | 0 | 6 | 2 |
| ADEM-ON (n=3) | 1 | 0 | 2 |
| Unclassified (n=3) | 3 | - | - |

\*Recieved the diagnosis of MS within 10-60 months.

**Table 2.** The relation between clinical and laboratory findings and first-year outcome

\* Student’s t-test, †McNemar’s Chi Square/Fisher’s exact test, p<0.05 significance level

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | **Complete recovery**  n (%), 129 (75) | **Incomplete recovery**  n (%), 43 (25) | **p-value** |
| Age (mean ±SD) | | 6.5±3.8 | 6.4±3.7 | 0.891\* |
| Sex  n (%) | Female  Male | 46 (35.7)  83 (64.3) | 17 (39.5)  26 (50.5) | 0.648† |
| Precedent events  n (%) | Immunization  Infection  ND | 3 (2.3)  98 (76)  28 (21.7) | 1 (2.3)  38 (88.4)  4 (9.3) | 0.313† |
| White blood cells/mm3 (mean ±SD)  <12.000  >12.000 | | 12205±5052  66 (53.2)  58 (46.8) | 12480±5638  21 (52.5)  19 (47.5) | 0.529\*  0.936† |
| Platelets/mm3 (mean ±SD)  <500.000  >500.000 | | 363±97  110 (89.4)  13 (10.6) | 351±108  36 (90)  4 (10) | 0.780\*  0.999† |
| RBC sedimentation rate | Normal  High | 36 (55.4)  29 (44.6) | 9 (36)  16 (64) | 0.099† |
| CSF protein | Normal  High | 81 (76.4)  25 (23.6) | 25 (67.6)  12 (32.4.) | 0.290† |
| CSF/blood glucose | <2/3  >2/3 | 52 (61.2)  33 (38.8) | 16 (51.6)  15 (48.4) | 0.355† |
| CSF/blood IgG Index | Normal  High | 31 (62)  19 (38) | 9 (75)  3(25) | 0.512† |
| Seizure at onset | Yes  No | 27 (21.4)  99 (78.6) | 21 (48.8)  22 (51.2) | **0.001**† |
| Glasgow Coma Scale | <6  6-10  >10 | 6 (4.7)  14 (10.9)  108 (83.7) | 6 (14)  14 (32.6)  22 (51.2) | **0.001**† |
| Treatment lag | 1 day  2-7 day  >7 day | 34 (27.2)  68 (54.4)  23 (18.4) | 11 (25.6)  30 (69.8)  2 (4.7) | 0.068† |
| Treatment | Steroid | 121 (93.8) | 41 (95.3) | 0.999† |
| IVIG | 49 (38) | 20 (46.5) | 0.323† |
| Plasmapheresis | 9 (7) | 9 (20.9) | **0.010**† |
| Need for ICU | Yes  No | 37 (29.4)  89 (70.6) | 24 (55.8)  19 (44.2) | **0.003**† |
| Duration of ICU (mean ±SD) | | 10 (7-16) | 17.5 (5-60) | 0.084\* |
| Need for MV | Yes  No | 7 (5.5)  121 (94.5) | 8 (19)  34 (81) | **0.012**† |
| Duration of MV median (min-max) | | 5.5 (1-10) | 9.5 (4-20) | 0.052 |
| mRS on admission | 0  ≥1 | 5 (4.1)  118 (95.9) | -  38 (100) | 0.207† |
| Relapse | Yes  No | 12 (9.3)  117 (90.7) | 6 (14)  37 (86) | 0.388† |
| Anti-MOG Ab status | Negative  Positive  ND | 28 (65.1)  15 (34.9)  86 | 11 (78.6)  3 (21.4)  29 | 0.511† |

ND: not defined, CSF: Cerebrospinal fluid, ICU: Intensive care unit, IVIG: Intravenous immunoglobulin, MV: Mechanical ventilation, mRS: Modified Rankin Scale