**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\* |
| Sexn (%) | FemaleMale | 46 (35.7)83 (64.3) | 17 (39.5)26 (50.5) | 0.648† |
| Precedent eventsn (%) | Immunization InfectionND | 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±505266 (53.2)58 (46.8) | 12480±563821 (52.5)19 (47.5) | 0.529\*0.936† |
| Platelets/mm3 (mean ±SD)<500.000>500.000 | 363±97110 (89.4)13 (10.6) | 351±10836 (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 | NormalHigh | 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 | YesNo | 27 (21.4)99 (78.6) | 21 (48.8)22 (51.2) | **0.001**† |
| Glasgow Coma Scale | <66-10>10 | 6 (4.7)14 (10.9)108 (83.7) | 6 (14)14 (32.6)22 (51.2) | **0.001**† |
| Treatment lag | 1 day2-7 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 | NegativePositiveND  | 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