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| --- | --- |
|  | N=25 (%) |
| DemographicsAge (mean)EthnicityMalayChineseOthers Gender MaleFemalePresenting symptomsFeverRunny noseCough VomitDiarrhoeaRashEncephalopathyAbnormal postureSeizuresSeizures & Encephalopathy | 7mths-14y (mean 4y)14 (56)3 (12)8 (32)11 (44)14 (56)25 (100)12 (48)14 (56)15 (60)14 (56)1 (4)20 (80)5 (20)24 (96)19 (76) |
| Physical SignsShockHyperpyrexia \* Impaired GCS on admission Abnormal postureUpper motor neuron signsPupillary abnormality Abnormal brainstem signsANE severity scoreHigh riskMedium risk | 16 (64)20 (80)21 (84)6 (24)22 (88)6 (24)11 (44)22 (88)3 (12) |
| ImmunotherapyMTP aloneMTP + IVIGMTP + TocilizumabMTP+IVIG+TocilizumabFirst immunotherapy givenMTPBoth MTP &IVIGTime to first immunotherapyWithin 24 hours from onset of illnessWithin 24 hours from admission  | 2 (8)13 (52)4 (16)6 (24)20 (80%)7(28%)3 (12)10 (40) |

|  |  |
| --- | --- |
|  | Median (Min,Max) |
| Laboratory findings(on admission) Platelets (109 /L) AST (U/L)ALT (U/L)Sodium (mmol/L)Albumin (g/L)Protein (g/L)Globulin (g/L)LDH (U/L)CRP(mg/L)ESR (mm/hr)Prothrombin time Partial Thrombin TimeCSF protein ( g/L) (N=15)CSF cell count (/mm) (N=13) | 204(96,320)718(20,4565)560 (14,6404) 138 (131,151) 35 (22,46)59 (43,81) 25 (19,37) 1370(35,7845) 17.25(0.3,57.5) 7 (1-25)18.8(11.9-32.4) 55.1(25-140.8) 1.6 (0-8.55) 0-11  |
| Imaging Abnormalities- Thalamus only- Without brainstem lesion- With brainstem lesionDuration of hospitalization (days)Duration of intubation (days)mRS at dischargeDeath Severe DisabilityModerate DisabilityMildmRS at 3 months (N=12)SevereModerateMild | 2 (12%)3 (8%)20 (80%)26 (14,180)5 (0,14)N=25(%)9 (36)10 (40)5 (20)1 (4)5 (45.4)2 (18.2)5 (45.4) |

Table 1 Clinical features, ANE severity scores, laboratory and neuroimaging findings of the patients

Note: GCS, Glasgow coma scale; NSAID, non-steroidal anti- inflammatory drugs; ANE, acute necrotizing encephalopathy; AST, aspartate transaminase; ALT, alanine transaminase; LDH, lactate dehydrogenase; CRP, C-reactive protein; ESR, erythrocyte sedimentation rate; CSF cerebrospinal fluid. mRS, modified Rankin score (score <2: mild; 3-4: moderate; 5:severe;6:death)