**Supplementary table 1: Summary of Pediatric Anti-NMDAR encephalitis data in three multicenter tertiary care hospitals**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Patient ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Medical settings | KCMH | KCMH | KCMH | KCMH | KCMH | KCMH | KCMH | CBH | CBH | CBH | CBH | CBH | PPK | PPK |
| age | 5 | 13 | 8 | 6 | 8 | 13 | 1 | 9 | 2 | 4 | 7 | 7 | 13 | 13 |
| sex | male | male | female | female | female | male | male | female | female | female | female | female | female | female |
| Hospitalize days | 4 | 150 | 149 | 38 | 80 | 34 | 60 | 22 | 31 | 78 | 96 | 9 | 21 | 28 |
| ICU admission | no | no | yes | no | yes | no | yes | yes | no | no | yes | no | yes | yes |
| First symptoms | Oropharyngeal disorder | Behavioral change | Sleep disturbance | Behavioral change | Seizure | Headache | Seizure  Post HSV | Behavioral change | Behavioural change | seizure | Seizure | Behavioural change | Behavioral change | Seizure |
| Prodromal symptom | no | yes | no | yes | yes | yes | yes | yes | no | no | yes | yes | yes | yes |
| Fever | no | yes | no | yes | yes | yes | yes | yes | no | no | yes | yes | yes | yes |
| Headache | no | no | no | no | no | yes | yes | no | no | no | no | no | yes | yes |
| Vomiting | no | no | no | no | no | no | yes | yes | no | no | no | no | yes | no |
| Behavioral symptoms | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| Sleep disturbance | yes | yes | yes | no | yes | no | no | yes | yes | yes | yes | yes | yes | yes |
| Memory deficit | no | no | no | no | no | no | no | no | yes | yes | yes | no | yes | yes |
| Speech disturbance | no | yes | yes | yes | no | yes | yes | no | yes | yes | yes | yes | yes | yes |
| Psychiatric symptom | no | no | no | no | no | no | no | no | yes | no | no | yes | yes | yes |
| Movement disorder | yes | no | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| Oropharyngeal disorder | yes | no | yes | yes | yes | yes | no | no | yes | yes | yes | yes | yes | yes |
| Chorea | no | no | yes | yes | yes | no | no | no | no | no | yes | no | yes | no |
| Dystonia | no | no | no | no | no | yes | yes | yes | yes | yes | no | no | no | no |
| Seizure | no | yes | yes | no | yes | yes | yes | yes | no | yes | yes | yes | yes | yes |
| Status epilepticus | no | no | yes | no | yes | no | no | no | no | no | yes | no | no | yes |
| Level of conscious change | no | no | yes | no | yes | no | yes | yes | yes | no | yes | no | yes | yes |
| GCS |  |  | E2V2M5 |  | E1V2M3 |  | E2V3M5 | E1M5V1 | E4V1M4 |  | E3V3M3 |  | E3M4V2 | E3M4V2 |
| Cardiac dysfunction | no | no | no | no | no | no | no | no | no | no | no | no | no | no |
| Autonomic disturbance | no | no | no | no | no | no | no | no | no | no | no | no | yes | yes |
| Central hypoventilation | no | no | yes | no | no | no | no | no | no | no | no | no | no | no |
| Ultrasound abdomen | normal | normal | normal | normal | normal | normal | normal | not done | normal | normal | normal | normal | not done | not done |
| CSF analysis |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WBC | 1 | 82 | 0 | 0 | 3 | 19 | 960 | 0 | 0 | 30 | 9 | 27 | 3 | 3 |
| N | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 5 | 0 | 75 |
| L | 100 | 100 | 0 | 0 | 100 | 100 | 92 | 0 | 0 | 0 | 100 | 95 | 100 | 25 |
| Blood Anti NMDAR | neg | pos | pos | neg | pos | neg | neg | pos | pos | pos | pos | pos | pos | pos |
| CT date | not done | 15 | not done | not done | 6 | not done | 11 | 1 | 9 | 5 | 2 | 10 | 10 | not done |
| CT finding |  | yes |  |  | no |  | yes | no | no | no | no | no | no |  |
| CT brain lesion |  | cerebral |  |  |  |  | temporal occipital |  |  |  |  |  |  |  |
| MRI date | 6 | 25 | 15 | 15 | not done | 3 | 12 | not done | not done | 12 | not done | not done | not done | not done |
| MRI finding | no | no | yes | no |  | yes | yes |  |  | no |  |  |  |  |
| MRI brain lesion |  |  | cerebral and cerebella leptomeningeal enhancement |  |  | cerebral | temporal occipital basal ganglion |  |  |  |  |  |  |  |
| EEG date | 7 | 120 | 7 | 26 | 12 | 14 | 26 | 42 | 38 | 13 | 4 | 17 | 5 | 2 |
| EEG finding | encephalopathy | Extreme delta brush , slow wave | Extreme delta brush , slow wave | Extreme delta brush | Extreme delta brush , slow wave | Extreme delta brush , slow wave | Slow wave | slow wave | Extreme delta brush , slow wave | no | no | Extreme delta brush , slow wave | Spike wave | Spike wave |
| mRS score |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pretreatment | 2 | 3 | 5 | 4 | 5 | 3 | 5 | 4 | 5 | 3 | 5 | 3 | 5 | 5 |
| Posttreatment 12 months | 1 | 1 | 5 | 3 | 3 | 1 |  | 1 | 1 | 3 | 3 | 0 | 2 | 2 |
| Posttreatment 24 months | 1 | 1 | 4 | 3 | 2 | 1 |  | 1 |  | 1 | 0 |  | 1 | 1 |
| Type of treatment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Methylprednisolone | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| Day of Methylprednisolone treatment | 10 | 18 | 8 | 26 | 15 | 12 | 16 | NA | 19 | 18 | 17 | 10 | 2 | 1 |
| IVIG | yes | yes | yes | yes | yes | yes | no | no | yes | yes | yes | no | yes | no |
| Day of IVIG treatment | 7 | 30 | 9 | 37 | 26 | 29 |  |  | 27 | 30 | 29 |  | 2 |  |
| Cyclophosphamide | no | yes | yes | yes | yes | yes | no | no | yes | yes | yes | no | no | no |
| Day of cyclophosphamide treatment |  | 75 | 38 | 85 | 47 | 43 |  |  | 42 | 78 | 55 |  |  |  |
| Plasma exchange | yes | no | no | yes | no | no |  | no | no | no | no | no | no | no |

\*KCMH = King Chulalongkorn Memorial hospital

CBH = Chonburi hospital

PPK = Phra Pok Klao hospital