**Supplementary Table 2: Standard HE Clinical Scales(for Patients Between 3 and 10 Years of Age)**

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| **Stage** | **Clinical** | **Asterixis/Reflexes** | **Neurological Signs** | **EEG changes** |
| 0 | None | None/normal | Psych testing only | Normal |
| I | Confused, mood changes, altered sleep habits, loss of spatial orientation, forgetful | None/normal | Tremor, apraxia, impaired handwriting | Normal or diffuse slowing to theta rhythm, triphasic waves |
| II | Drowsy, in appropriate behavior, decreased inhibitions | None/hyperreflexic  | Dysarthria, ataxia | Abnormal generalized slowing, triphasic waves |
| III | Stuporous, obeys simple commands | None/hyperrelfexia, up going toes (+ Babinski) | Rigidity | Abnormal generalized slowing, triphasic waves |
| IV | Comatose, arouses with painful stimuli (IVa), or no response (IVb) | Absent  | Decerebrate or decorticate  | Abnormal, very slow delta activity |