**Supplemental Table 1:** Presence and age at onset of symptoms and timing of first and follow-up evaluations.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sex** | **NC onset** | **First evaluation** | **Follow-up** | **EDS** | **Cataplexy** | **SP** | **HH** | **DNS** |
| Female | 3.7 | 4.0 | 4.5 | 3.7 | 3.7 | / | 3.8 | 3.7 |
| Male | 5.0 | 7.8 | 9.4 | 5.0 | 5.0 | 5.0 | 5.0 | / |
| Male | 5.0 | 8.1 | 8.6 | 5.0 | 5.0 | / | / | / |
| Female | 6.0 | 7.9 | 10.8 | 6.0 | 6.0 | / | 6.0 | / |
| Male | 6.0 | 6.7 | 10.4 | 6.0 | 6.5 | / | / | / |
| Female | 6.0 | 7.2 | 7.9 | 6.0 | 6.0 | / | 6.0 | 6.0 |
| Male | 7.5 | 7.9\* | 8.9\* | 7.5 | 7.5 | / | 9.0 | 5.0 |
| Male | 8.0 | 8.9 | 12.7 | 8.0 | 8.0 | / | 11.0 | 8.0 |
| Male | 8.0 | 9.1 | 13.9 | 8.0 | 8.0 | 8.0 | 8.0 | 11.0 |
| Male | 8.0 | 8.1 | 9.4 | 8.0 | 8.0 | / | 9.0 | 8.0 |
| Female | 9.0 | 9.7 | 14.2 | 9.0 | 9.0 | 12.0 | 9.0 | 9.0 |
| Male | 9.0 | 10.1\* | 11.0\* | 9.0 | 9.0 | / | / | / |
| Male | 10.0 | 10.6 | 11.2 | 10.0 | 11.0 | / | / | / |
| Male | 10.0 | 10.8 | 11.3 | 10.0 | 10.0 | / | 7.0 | 12.0 |
| Male | 10.0 | 10.0 | 12.9 | 10.0 | 10.0 | / | / | 10.0 |
| Male | 10.0 | 10.4 | 12.0 | 10.0 | 10.0 | / | 10.0 | / |
| Male | 10.5 | 11.4 | 12.0 | 10.5 | 10.5 | / | / | / |
| Male | 12.0 | 16.7 | 18.8 | 12.0 | 13.0 | 12.0 | 12.0 | 12.0 |
| Female | 13.0 | 13.5 | 17.8 | 13.0 | 13.0 | / | 13.0 | 13.0 |
| Female | 14.0 | 14.8 | 15.3 | 14.0 | 14.0 | / | 14.0 | 14.0 |
| Male | 15.0 | 16.3 | 21.5 | 16.0 | 15.0 | / | / | 18.0 |

Table legend: NC, Narcolepsy with Cataplexy; EDS, Excessive Daytime Sleepiness; SP, Sleep Paralyses; HH, Hypnagogic Hallucinations; DNS, Disturbed Nocturnal Sleep; /, not reported; \* repeated hypocretin-1 assessment.

**Supplemental table 2:** video assessment of NC patients with and without elevated (i.e. > 400 UI/mL) anti-streptolysin-O titers at baseline and follow up.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Baseline** | | | | | **Follow-up** | | | | |
|  | *ASO<400 (n=14)* | | *ASO>400 (n=7)* | |  | *ASO<400 (n=13)* | | *ASO>400 (n=8)* | |  |
|  | Mean | SD | Mean | SD | P-value | Mean | SD | Mean | SD | P-value |
| **Negative Motor Phenomena** | | | | | | | | | | |
| Head Drops B | 0.43 | 0.85 | 0.86 | 1.21 | n.s. | 0.00 | 0.00 | 0.00 | 0.00 | n.s. |
| Head Drops T | 1.62 | 0.77 | 2.00 | 0.82 | n.s. | 1.08 | 0.67 | 1.00 | 0.53 | n.s. |
| Eyelids & Tongue B | 1.07 | 0.83 | 1.71 | 0.76 | n.s. | 0.25 | 0.45 | 0.50 | 0.93 | n.s. |
| Eyelids & Tongue T | 2.00 | 0.58 | 2.43 | 0.79 | n.s. | 1.25 | 0.87 | 1.75 | 1.04 | n.s. |
| Facial Hypotonia B | 0.93 | 0.92 | 1.57 | 1.27 | n.s. | 0.25 | 0.45 | 0.25 | 0.46 | n.s. |
| Facial Hypotonia T | 1.69 | 0.85 | 2.14 | 0.90 | n.s. | 0.75 | 0.75 | 0.88 | 0.83 | n.s. |
| Generalized Hypotonia B | 0.71 | 0.91 | 1.29 | 1.38 | n.s. | 0.00 | 0.00 | 0.00 | 0.00 | n.s. |
| Generalized Hypotonia T | 1.31 | 0.95 | 1.71 | 1.11 | n.s. | 0.42 | 0.51 | 0.38 | 0.52 | n.s. |
| **Active Motor Phenomena** | | | | | | | | | | |
| Eyebrows Raising B | 0.36 | 0.50 | 0.71 | 0.76 | n.s. | 0.33 | 0.49 | 0.13 | 0.35 | n.s. |
| Eyebrows Raising T | 1.31 | 0.63 | 1.86 | 0.90 | n.s. | 1.08 | 0.67 | 1.00 | 0.53 | n.s. |
| Perioral & Tongue B | 0.43 | 0.51 | 1.14 | 1.07 | n.s. | 0.17 | 0.39 | 0.63 | 0.74 | n.s. |
| Perioral & Tongue T | 1.54 | 0.52 | 2.00 | 0.82 | n.s. | 1.33 | 0.65 | 1.63 | 1.06 | n.s. |
| Facial Grimaces B | 0.14 | 0.36 | 0.57 | 1.13 | n.s. | 0.08 | 0.29 | 0.50 | 0.76 | n.s. |
| Facial Grimaces T | 1.08 | 0.49 | 1.86 | 0.90 | 0.035 | 0.75 | 0.62 | 1.25 | 0.89 | n.s. |
| Head/Trunk Swaying B | 0.43 | 0.51 | 0.71 | 0.76 | n.s. | 0.25 | 0.45 | 0.38 | 0.52 | n.s. |
| Head/Trunk Swaying T | 1.54 | 0.66 | 1.71 | 0.76 | n.s. | 1.08 | 0.79 | 1.25 | 0.71 | n.s. |
| Stereotyped Behavior B | 0.14 | 0.36 | 0.71 | 0.76 | 0.038 | 0.42 | 0.51 | 0.63 | 0.74 | n.s. |
| Stereotyped Behavior T | 0.77 | 0.60 | 1.86 | 0.90 | 0.010 | 1.08 | 0.90 | 1.38 | 1.19 | n.s. |
| Dyskinetic Dystonic B | 0.14 | 0.36 | 0.43 | 0.53 | n.s. | 0.08 | 0.29 | 0.25 | 0.46 | n.s. |
| Dyskinetic Dystonic T | 0.69 | 0.85 | 1.14 | 0.90 | n.s. | 0.75 | 0.75 | 1.00 | 0.93 | n.s. |
| **Consistent Motor Pattern** | | | | | | | | | | |
| Neck Extension Viewing | 0.43 | 0.51 | 0.29 | 0.49 | n.s. | 0.33 | 0.49 | 0.25 | 0.46 | n.s. |
| Puppet-like Movements | 0.21 | 0.43 | 0.29 | 0.49 | n.s. | 0.17 | 0.39 | 0.00 | 0.00 | n.s. |
| **Negative and Active Phenomena Composite Scores** | | | | | | | | | | |
| NEGATIVE Composite B | 3.14 | 3.28 | 5.43 | 4.39 | n.s. | 0.50 | 0.80 | 0.75 | 1.39 | n.s. |
| NEGATIVE Composite T | 6.62 | 2.63 | 8.29 | 3.15 | n.s. | 3.50 | 2.07 | 4.00 | 2.45 | n.s. |
| ACTIVE Composite B | 1.64 | 1.34 | 4.29 | 4.23 | n.s. | 1.33 | 1.61 | 2.50 | 2.51 | n.s. |
| ACTIVE Composite T | 5.62 | 2.02 | 8.57 | 3.60 | n.s. | 6.08 | 3.40 | 7.50 | 4.44 | n.s. |

Table legend: ASO, anti-streptolysin-O titers; B, “without stimulation” condition; T, “under stimulation” condition