**Supplementary material 1**

**Table 1.** NCS parameters in motor and sensory nerves

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Motor nerves** | **Baseline** | **PNP diag (6 m)** | | | **16 m** |
| **Right medianus**   * Latency distal [ms] N: 4.7 ms * Amplitude mean [mV] N: 3.8 mV * CV mean [m/s] N: 47 m/s * F-wave [ms] N: 25–32 ms | 3.6  7.1  55  27.9 | 4.2  5.4  51.1  30 | | | 3.9  4.8  54.2  30.9 |
| **Left medianus**   * Latency distal [ms] N: 4.7 ms * Amplitude mean [mV] N: 3.8 mV * CV mean [m/s] N: 47 m/s * F-wave [ms] N: 25–32 ms | 3.4  4.2  51.4  26.3 | 5.4  2.6  39.5  27.8 | | | 4.4  3.4  50.3  29.2 |
| **Right ulnaris**   * Latency distal [ms] N: 3.7 ms * Amplitude mean [mV] N: 7.9 mV * CV mean [m/s] N: 50 m/s * F-wave [ms] N: 25–32 ms | 3.3  6.3  53.8  30.7 | 3.3  5.7  49.3  30.7 | | | 3.2  4.8  46.7  29.7 |
| **Left ulnaris**   * Latency distal [ms] N: 3.7 ms * Amplitude mean [mV] N: 7.9 mV * CV mean [m/s] N: 50 m/s * F-wave [ms] N: 25–32 ms | 3.3  6.0  56.2  28.4 | 3.7  5.6  47.2  31.1 | | | 3.3  6.1  44.0  30.2 |
| **Right tibialis**   * Latency distal [ms] N: 6.1 ms * Amplitude mean [mV] N: 1.1 mV * CV mean [m/s] N: 34 m/s * F-wave [ms] N: 45–56 ms | 4.3  1.9  43.3  59.7 | 1.2  0.8  30.8  59.8 | | | 4.9  0.6  41.9  66 |
| **Left tibialis**   * Latency distal [ms] N: 6.1 ms * Amplitude mean [mV] N: 1.1 mV * CV mean [m/s] N: 34 m/s * F-wave [ms] N: 45–56 ms | 3.8  3.6  42.3  59.6 | 1.2  1.2  35.2  69.8 | | | 3.9  0.4  42.3  59.8 |
| **Right peroneus** | No response detected | | | | |
| **Left peroneus**   * Latency distal [ms] N: 6.5 ms * Amplitude mean [mV] N: 1.1 mV * CV mean [m/s] N: 36 m/s * F-wave [ms] N: 45–56 ms | 6.3  0.4  41.8  – | | 0.3  0.3  36.2  – | 8.9  –  – | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Sensory nerves** | **Baseline** | **PNP diag (6 m)** | **16 m** |
| **Right medianus**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 4.2  2.8  52.9 | 4.6  0.2  41.5 | –  –  – |
| **Left medianus**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 4.6  3.5  46.1 | –  –  – | –  –  – |
| **Right ulnaris**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 4.2  1.5  44.4 | 4.4  0.6  40.5 | –  –  – |
| **Left ulnaris**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 4.2  0.5  41.7 | –  –  – | –  –  – |
| **Right suralis**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 3.7  4.4  41.7 | –  –  – | –  –  – |
| **Left suralis**   * Latency [ms] * Amplitude [mV] * CV [m/s] | 4.6  1.7  38.2 | –  –  – | –  –  – |

CV — conduction velocity; PNP — polyneuropathy

**Table 2.** Laboratory findings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Baseline | PNP diag  6 m | 7 m | 9 m |
| Hcy [umol/L] N: 5–12 | 33.9 | > 50 | 20.4 | 15.9 |
| Folic acid [ng/mL] N: 3.1–17.5 | 4.91 | 2.83 | 17.1 | > 20 |
| B12 [pg/mL] N: 191–663 | 197 | 156 | 599 | 2289 |

B12 — vitamin B12l; Hcy — homocysteine; PNP — polyneuropathy

**Vitamin supplementation doses:**

Vitamin B12, intramuscular — primarily 1000 µg every second day (5 doses — 10 days), next 1000 µg once a week and finally 1000 µg once a month — for 9 months.

Vitamin B1 — primarily intravenous 200 mg/d for 10 days, next 100 mg/d for 4 weeks and finally 25 mg intramuscular twice a week — for 9 months.

Vitamin B6, intramuscular — primarily 100 mg/d for 10 days, next and finally 50 mg/d for 4 weeks

Folic acid, per os — 30 mg/d for 10 days, next 20 mg/d for 4 weeks and finally 5 mg/d for 9 months.