

| Sensory nerve              | Amplitude $\mu\text{V}$ |
|----------------------------|-------------------------|
| Right median               | Absent                  |
| Right ulnar                | Absent                  |
| Right radial               | Absent                  |
| Right sural                | Absent                  |
| Right superficial peroneal | Absent                  |
| Left sural                 | Absent                  |

| Motor nerve                 | DML ms | CV m/s | MAP mV | F wave latency/ms |
|-----------------------------|--------|--------|--------|-------------------|
| Right median                | 6.2    | 37     | 2.4    | 42.5              |
| Right ulnar (ADM)           | 4.1    | 42     | 8.3    | 33.5              |
| Right common peroneal (EDB) | NR     | NR     | NR     | NR                |
| Right posterior             | 7.0    | -      | 0.4    | 61.7              |

Supplementary table 1. The nerve conduction parameters of a patient with autosomal recessive spastic ataxia of Charlevoix Saguenay (ARSACS). DML = distal motor latency; CV = conduction velocity; MAP = motor action potential; ADM = abductor digiti minimi, EDB = extensor digitorum brevis.

| Sensory nerve              | Amplitude $\mu\text{V}$ |
|----------------------------|-------------------------|
| Right median               | Absent                  |
| Right ulnar                | Absent                  |
| Right radial               | Absent                  |
| Right sural                | Absent                  |
| Right superficial peroneal | Absent                  |

| Motor nerve                 | DML ms | CV m/s | MAP mV | F wave latency/ms |
|-----------------------------|--------|--------|--------|-------------------|
| Right median                | 6.8    | 37     | 5.7    | 43                |
| Right ulnar (ADM)           | 6.6    | 32     | 4.4    | 53                |
| Right common peroneal (EDB) | 13.4   | 32     | 1.8    | -                 |
| Right posterior tibial      | 7.3    | 26     | 1.4    | 77                |

Supplementary table 2. The nerve conduction parameters of a patient with a demyelinating neuropathy that is sometimes seen with familial amyloid polyneuropathy due to autosomal dominant mutations in *TTR*. DML = distal motor latency; CV = conduction velocity; MAP = motor action potential; ADM = abductor digiti minimi, EDB = extensor digitorum brevis.

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