Each study table is to be used for one muscle nerve/site. If testing is done on multiple nerves/sites, copies should be made of the page needed to record all data.

1. Motor Nerve Conduction Studies

Date of Test:

Nerve/Side/Muscle: Temperature**:**  0C

Table 1 Segment /Stimulation site

| Segment/Stimulation site | Latency  (normal limit) | Segment Length | Amplitude  (normal limit) | Dispersed? |
| --- | --- | --- | --- | --- |
| TBD | ms | cm | mV | TBD |
| TBD | ms | cm | mV | TBD |
| F-wave, minimum latency | ms | N stimulations | Persistency (%) | TBD |

1. Sensory Nerve Conduction Studies

Date of Test:

Nerve/Side: Temperature: 0C

Impulse Direction:  Orthodromic  Antidromic

Table 2 Segment/Stimulation/Recording site

| Segment/Stimulation/Recording site | Segment Length | Onset or Peak Latency | Velocity  (normal limit) | Amplitude  (normal limit) |
| --- | --- | --- | --- | --- |
| TBD | cm | ms | m/s | mV |

1. H-reflex Study

Date of Test:

Table 3 Nerve Segment

| Nerve Segment | Latency, left | Latency, right |
| --- | --- | --- |
| TBD | ms | ms |

1. Needle Electromyography

Date of Test:

Electrode Type**:**  Concentric  Monopolar

Table 4 Electrode Type

| This cell is intentionally blank | Left | Right |
| --- | --- | --- |
| Muscle  Name: | TBD | TBD |
| Spontaneous Activity (SA) | Fibrillation potentials  Positive sharp waves  Fasciculation potentials | Fibrillation potentials  Positive sharp waves  Fasciculation potentials |
| Spontaneous Activity (SA) Other | TBD | TBD |
| MUAP: Amplitude | uV | uV |
| MUAP: Area | uVms | uVms |
| MUAP: Duration | ms | Ms |
| MUAP: Complexity | % | % |
| MUAPs: Stable | Yes  No | Yes  No |
| MUAP: Recruitment | Normal  Increased/Early  Decreased | Normal  Increased/Early  Decreased |
| MUAP: Activation | Normal  Decreased | Normal  Decreased |
| Interference Pattern Analysis Technique | TBD | TBD |
| Interference Pattern Analysis Result | TBD | TBD |

## General Instructions

Important note: Nerve conduction studies (Nos 1 and 2 of the data elements) included on this CRF Module are classified as highly recommended (i.e., strongly recommended for SCI clinical studies to collect). Nos 3 and 4 (H-reflex and EMG data elements) are classified as Supplemental (i.e., non Core) and should only be collected if the research team considers them appropriate for their study. Please see the Data Dictionary for element classifications.

SCI-Pediatric Specific Instructions:

Testing may be uncomfortable and not tolerated well by children if sensation is present. It may be beneficial to do a shortened exam (i.e. one UE and one LE only) as in reference below.

In general, this test should be performed only when there is clinical cause, not as part of studies.

Kang, P. B. (2007). Pediatric nerve conduction studies and EMG. In A. S. Blum & S. B. Rutlove (Eds.) The Clinical Neurophysiology Primer 2007th Edition (pp. 369-389). New York: Humana Press.

## Specific Instructions

Please see the Data Dictionary for definitions for each of the data elements included in this CRF Module.