1. **\***Specimen type? Biopsy  Autopsy

If this is an autopsy specimen, what is the approximate postmortem interval? *(please specify)*

1. \*Date of tissue collection: (m m/dd/yyyy)
2. \*Number of fragments collected: *(please specify)*
3. \*Size of fragments: ( ) X ( ) X ( ) cm
4. \*Name of Laboratory where pathology was performed: *(please specify)*
5. Name of Laboratory Director: *(please specify)*
6. \*Processing?

Frozen: Amount: (please specify)mg  Not known

Formalin-fixed/ Paraffin-embedded: Amount: (please specify) mg  Not known

Glutaraldehyde-fixed/ Epon-embedded: Amount: (please specify) mg  Not known

Glutaraldehyde-fixed/ Teased fibers: Amount: (please specify) mg  Not known

1. \*Was electron microscopy performed?  Yes  No
2. \*Was subsequent biochemical or genetic testing performed?  Yes No

If Yes, record results in table below:

Biochemical or Genetic testing Data Table

| \*Test Name | Results (including units) |
| --- | --- |
| (data to be entered by site) | (data to be entered by site) |

## Histological Findings in Nerve Biopsy or Autopsy specimens

1. \*Which standard histochemical stains were used? (choose all that apply)

H and E

Masson trichrome

Congo red

Myelin stain, specify:

Microorganism stains, specify:

1. \*Which of the following diagnostic abnormalities were noted on histochemical stains(Choose all that apply and provide details below)**?**

Decreased fiber density

Decreased myelination

Atherosclerosis

Amyloid deposits

Myelin ovoids

Abnormal storage material

Granulomas

Microorganisms

Thrombi in blood vessels

Lymphatic inflammation

Vasculitus

**\***Details of diagnostic abnormalities: *(please specify)*

1. If immunohistochemical stains were used, record results in below table  N/A

Immunohistochemical Stain Data table

| Stain Used | Results |
| --- | --- |
| (data to be entered by site) | (data to be entered by site) |

## Epon-Embedded Tissue/Electron Microscopy (Nerve Biopsy/Autopsy Specimens)

1. Abnormalities seen on:

Light microscopy (Toluidine blue staining)

Electron microscopy

Both – Light microscopy and Electron microscopy

1. Abnormalities noted in:Myelinated axon number, specify**:**

Mild decrease

Severe decrease

Myelinated axon clusters, possibly regenerative

Axonal degeneration (active)

Myelination, specify:

Abnormally thin myelin

Myelin absent from large diameter axons

Abnormal myelin architecture

Onion bulbs

Segmental demyelination/ remyelination in excess of age related change (teased fiber preparation)

Bands of Bungner (empty Schwann cells)

Mitochondria, specify:

Abnormal shape

Abnormal numbers

Abnormal location, specify:

Abnormal architecture

Abnormal storage material, specify:

## Overall Interpretation

1. Overall interpretation of specimen**:**

Myopathic

Dystrophic

Neuropathic

Storage Disease

Inflammatory

Normal

Inadequate

### General Instructions

This form contains data elements that are collected when performing various nerve biopsies.

Important note: The data elements included in this CRF module span the range of diagnostic abnormalities seen in both pediatric and adult neuromuscular biopsy specimens. While each of these specific elements does not need to be included in every clinical biopsy report, this checklist provides a list of potentially pertinent positive and negative findings that should be considered when reporting a nerve biopsy. While the usefulness of these specific findings will depend on the differential diagnosis on a clinical case, all of these findings can be clinically important in specific situations. In cases where a specific diagnosis is not clear, it is recommended to evaluate and report the presence or absence of these findings to facilitate subsequent attempts to select biopsies for genetic testing or enrollment in research studies.

### Specific Instructions

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

\*Element is classified as Core