Autoimmune Myelopathy Evaluation Algorithm - Spinal Fluid

The following tests are always performed:

Immunoprecipitation Assay
- Glutamic acid decarboxylase (GAD65) antibody assay
- Antineuronal nuclear antibody-type1 (ANNA1)
- Antineuronal nuclear antibody-type2 (ANNA2)
- Antineuronal nuclear antibody-type3 (ANNA3)
- Purkinje cell cytoplasmic antibody-type1 (PCA1)
- Purkinje cell cytoplasmic antibody-type2 (PCA2)
- Purkinje cell cytoplasmic antibody-type Tr (PCA-Tr)
- Amphi2yn antagonist antibody assay
- Collapsin response-mediated protein-5 neuronal (CRMP-5-IgG)
- Anti-glial/neuronal nuclear antibody-type1 (AGNA1)
- Dipetidyl-peptidase-like protein-6 (DPPX) antibody
- Gial fibrillary acidic protein (GFAP)
- Neuronal intermediate filament IgG (NIF)

Immunofluorescence Assay (IFA)
- mGluR1 antibody by CBA
- mGluR1 antibody by IF titer assay
- AMPA-receptor antibody by CBA
- AMPA-receptor antibody by IF titer assay
- NMDA-receptor antibody by CBA
- NMDA-receptor antibody by IF titer assay
- GABA-B-receptor antibody by CBA
- GABA-B-receptor antibody by IF titer assay
- GFAP alpha subunit antibody by CBA
- GFAP alpha subunit antibody by IF titer assay

Western Blot
- Alpha internexin antibody by CBA
- NF heavy chain antibody by CBA
- NF light chain antibody by CBA
- NIF antibody by IF titer assay

Fluorescence-Activated Cell Sorting (FACS)
- Neuromyelitis optica (NMO)/aquaporin-4-IgG
- If NMO/aquaporin-4-IgG is positive
- NMO/aquaporin-4-IgG FACS titer assay

If IFA pattern suggests ANNA-1
- ANNA-1 antibody by immunoblot

If IFA pattern suggests ANNA-2
- ANNA-2 antibody by immunoblot

If IFA pattern suggests PCA-1
- PCA-1 antibody by immunoblot

If IFA pattern suggests AGNA-1
- AGNA-1 antibody by immunoblot

If IFA pattern suggests amphip2yn antibody
- Amphip2yn antibody immunoblot

If IFA pattern suggests DPPX antibody
- DPPX antibody by cell-binding assay (CBA)
- DPPX antibody by immunofluorescence (IF) titer assay

If IFA pattern suggests mGluR1 antibody
- mGluR1 antibody by CBA
- mGluR1 antibody by IF titer assay

If IFA pattern suggests AMPA-receptor antibody
- AMPA-receptor antibody by CBA
- AMPA-receptor antibody by IF titer assay

If IFA pattern suggests PCA-Tr
- PCA-Tr antibody by immunoblot

If IFA pattern suggests NIF
- NIF antibody by IF titer assay

If IFA pattern suggests ANNA-1
- ANNA-1 antibody by immunoblot