Autoimmune Myelopathy Evaluation Algorithm-Spinal Fluid

The following tests are always performed:

- Immunoprecipitation Assay
  - Glutamic acid decarboxylase (GAD65) antibody assay

- Immunofluorescence Assay (IFA)
  - 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-type3 (PCA-Tr)
  - Amphiphysin antibody assay
  - Collapsin response-mediator protein-5 neuronal (CRMP-5-IgG)
  - Anti-glia/neuronal nuclear antibody-type1 (AGNA1)
  - Dipeptidyl-peptidase-like protein-6 (DPPX) antibody
  - Glial fibrillary acidic protein (GFAP)
  - Metabotropic glutamate receptor 1 (mGluR1) antibody

- Western Blot

- Fluorescence-Activated Cell Sorting (FACS)
  - Neuromyelitis optica (NMO)/aquaporin-4-IgG

If IFA pattern suggests ANNA-1, ANNA-2, PCA-1, PCA-2
- CRMP-5-IgG
- Amphiphysin antibody
- Western blot

If IFA pattern suggests CRMP-5 IgG
- Western blot
- Amphiphysin antibody
- Western blot
- CRMP-5-IgG

If IFA pattern suggests DPPX antibody
- Western blot
- DPPX antibody by cell-binding assay (CBA)
- DPPX antibody by immunofluorescence (IF) titer assay
- mGluR1 antibody by CBA
- mGluR1 antibody by IF titer assay

If IFA pattern suggests mGluR1 antibody
- Western blot
- mGluR1 antibody by IF titer assay
- AMPA-receptor antibody by IF titer assay
- AMPA-receptor antibody by IF titer assay

If IFA pattern suggests AMPA-receptor antibody
- Western blot
- AMPA-receptor antibody by IF titer assay
- GABA-B-receptor antibody by IF titer assay

If IFA pattern suggests AMPA-receptor antibody
- Western blot
- GABA-B-receptor antibody by IF titer assay
- GFAP alpha subunit antibody by IF titer assay

If IFA pattern suggests mGluR1 antibody
- Western blot
- mGluR1 antibody by IF titer assay
- AMPA-receptor antibody by IF titer assay
- AMPA-receptor antibody by IF titer assay

If IFA pattern suggests GFAP antibody
- Western blot
- GFAP alpha subunit antibody by IF titer assay
- GFAP alpha subunit antibody by IF titer assay

If IFA pattern suggests CRMP-5 IgG
- Western blot
- CRMP-5-IgG
- Amphiphysin antibody
- Western blot

If IFA pattern suggests ANNA-1, ANNA-2, PCA-1, PCA-2