Movement Disorder Evaluation Algorithm—Spinal Fluid

Western Blot
- Collapsin response-mediator protein-5-IgG (CRMP-5-IgG)
- Western blot

Radioimmunoprecipitation Assay (RIA)
- Glutamic Acid Decarboxylase (GAD65) Antibody Assay, Spinal Fluid
- Neuronal Voltage-Gated Potassium Channel-Complex (VGKC) Autoantibody, Spinal Fluid

Immunofluorescence Assay (tissue IFA)
- Dipeptidyl-Peptidase-Like Protein-6 (DPPX) Antibody by Immunofluorescence, Serum
- Metabotropic Glutamate Receptor 1 (mGluR1) Antibody by Immunofluorescence, Serum
- Collapsin Response-Mediator Protein-5 Neuronal (CRMP-5-IgG), Serum
- Antineuronal Nuclear Antibody-Type 1 (ANNA-1), Spinal Fluid
- Antineuronal Nuclear Antibody-Type 2 (ANNA-2), Spinal Fluid
- Antineuronal Nuclear Antibody-Type 3 (ANNA-3), Spinal Fluid
- Anti-Glia/Neuronal Nuclear Antibody-Type 1 (AGNA-1), Spinal Fluid
- Purkinje Cell Cytoplasmic Antibody-Type 1 (PCA-1), Spinal Fluid
- Purkinje Cell Cytoplasmic Antibody-Type 2 (PCA-2), Spinal Fluid
- Purkinje Cell Cytoplasmic Antibody-Type Tr (PCA-Tr), Spinal Fluid
- Amphiphysin Antibody Assay, Spinal Fluid

Immunofluorescence Assay (cell binding; CBA)
- NMDA-Receptor Antibody by CBA, Spinal Fluid
- Contactin-Associated Protein-Like-2 (CASPR2)-IgG, Spinal Fluid
- Leucine-Rich Glioma Inactivated Protein-1 IgG, Spinal Fluid

The following tests are always performed:

- Collapsin response-mediator protein-5-IgG (CRMP-5-IgG)
- Western blot
- Glutamic Acid Decarboxylase (GAD65) Antibody Assay, Spinal Fluid
- Neuronal Voltage-Gated Potassium Channel-Complex (VGKC) Autoantibody, Spinal Fluid

IFA patterns:
- If IFA suggests ANNA-1, ANNA-2, PCA-1, PCA-2, or CRMP-5 IgG or if IFA pattern is indeterminate:
  - Paraneoplastic autoantibody, Western blot confirmation
  - Dipeptidyl-peptidase-like protein-6 (DPPX) antibody by cell binding assay
  - Dipeptidylpeptidase-like protein-6 (DPPX) antibody by immunofluorescence titer assay
- If IFA pattern suggests DPXP antibody:
  - Amphiphysin antibody Western blot
- If IFA pattern suggests AMMA antibody:
  - Neuromyelitis optica (NMO)/aquaporin-4-IgG fluorescence-activated cell sorting (FACS) assay
- If IFA pattern suggests AMPA-receptor antibody:
  - Metabotropic glutamate receptor 1 (mGluR1) antibody by cell binding assay
  - Metabotropic glutamate receptor 1 (mGluR1) antibody by immunofluorescence titer assay
- If pattern suggests NMDA-receptor antibody and NMDA-receptor antibody, CBA are positive:
  - AMPA-receptor antibody IF titer assay and CBA
- If pattern suggests GABA-B-receptor antibody:
  - NMDA-receptor antibody IF titer assay and CBA