Movement Disorder Autoimmune Evaluation Algorithm - Spinal Fluid

The following tests are always performed:

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

- **Radioimmunoprecipitation Assay (RIA)**
  - Glutamic acid decarboxylase (GAD65) antibody assay

- **Immunochemistry Assay (IFA)**
  - Antineuronal nuclear antibody-type 1 (ANNA-1)
  - Antineuronal nuclear antibody-type 2 (ANNA-2)
  - Antineuronal nuclear antibody-type 3 (ANNA-3)
  - Purkinje cell cytoplasmic antibody-type 1 (PCA-1)
  - Purkinje cell cytoplasmic antibody-type 2 (PCA-2)
  - Purkinje cell cytoplasmic antibody-type Tr (PCA-Tr)
  - Amphiphysin antibody assay
  - Collapsin response-mediator protein-5 neuronal (CRMP-5-IgG)
  - Anti-glia/neuronal nuclear antibody-type 1 (AGNA-1)
  - Dipeptidyl-peptidase-like protein-6 (DPPX) antibody
  - Metabotropic glutamate receptor 1 (mGluR1) antibody

- **Immunofluorescence Assay (Cell Binding: CBA)**
  - NMDA-receptor antibody
  - Contactin-associated protein-like-2 (CASPR2)-IgG
  - Leucine-rich glioma inactivated protein-1 IgG

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- If IFA suggests ANNA-1, ANNA-2, PCA-1, PCA-2, amphiphysin antibody, or CRMP-5 IgG or if IFA pattern is indeterminate:
  - Paraneoplastic autoantibody, Western blot confirmation

- If IFA pattern suggests DPPX antibody:
  - DPPX antibody by CBA
  - DPPX antibody by IF titer assay

- If IFA pattern suggests amphiphysin antibody:
  - Amphiphysin antibody Western blot

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

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

- If pattern suggests NMDA-receptor antibody and NMDA-receptor antibody, CBA are positive:
  - NMDA-receptor antibody IF titer assay

- If pattern suggests GABA-B-receptor antibody:
  - GABA-B-receptor antibody by CBA
  - GABA-B-receptor antibody by IF titer assay