Pediatric Autoimmune Central Nervous System Disorders Evaluation Algorithm-Spinal Fluid

The following tests are always performed:

- Glutamic acid decarboxylase (GAD65) antibody assay
- Antineuronal nuclear antibody-type 1 (ANNA1)
- Purkinje cell cytoplasmic antibody-type Tr (PCA-Tr)
- Dipeptidyl-peptidase-like protein-6 (DPPX) antibody
- Glial fibrillary acidic protein (GFAP)
- Metabotropic glutamate receptor 1 (mGluR1) antibody
- NMDA-receptor antibody
- GABA-B-receptor antibody
- Contactin-associated protein-like-2 (CASPR2)-IgG
- Leucine-rich glioma inactivated protein-1 (LGI-1)-IgG
- Neuromyelitis optica (NMO)/aquaporin-4-IgG
- Autoimmune encephalitis associated with antibodies to GABA-B-A receptor

If IFA is indeterminate for ANNA-1,
- If IFA pattern suggests ANNA-2
  - ANNA-2 IFA
  - ANNA-2 immunoblot
  - ANNA-2 IFA

If IFA pattern suggests anti-glial/neuronal nuclear antibody (AGNA)
- AGNA-I FA
- AGNA-I immunoblot

If IFA pattern suggests ANNA-3
- AMPA-receptor antibody IFA
- AMPA-receptor antibody immunoblot

If IFA pattern suggests PCA-1
- AMPA-receptor antibody IFA
- AMPA-receptor antibody immunoblot
- PCA-1 IFA
- PCA-1 immunoblot

If IFA pattern suggests PCA-2
- AMPA-receptor antibody IFA
- AMPA-receptor antibody immunoblot
- PCA-2 IFA
- PCA-Tr immunoblot

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

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

If IFA pattern suggests NMDA-receptor antibody
- NMDA-receptor antibody IF titer assay

If IFA pattern suggests GABA-B-receptor antibody
- GABA-B-receptor antibody IF titer assay

If IFA pattern suggests GFAP antibody
- GFAP alpha subunit antibody CBA
- GFAP alpha subunit antibody IF titer assay