Autoimmune/Paraneoplastic Dementia Evaluation Algorithm-Serum

Radioimmunoprecipitation Assay (RIA)

Immunofluorescence Assay (IFA)

Immunofluorescence Assay (Cell Binding: CBA)

Glutamic acid decarboxylase (GAD65) antibody assay

If IFA pattern suggests ANNA-1
- Acetylcholine receptor (muscle AChR) binding antibody
- CRMP-5-IgG

If IFA pattern suggests ANNA-2 antibody
- Acetylcholine receptor (muscle AChR) binding antibody
- CRMP-5-IgG Western blot

If IFA pattern suggests AGNA-1 antibody
- Acetylcholine receptor (muscle AChR) binding antibody
- CRMP-5-IgG Western blot

If IFA pattern suggests DPPX antibody
- Amylophilin antibody
- Immunofluorescence assay

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

If IFA pattern suggests PCA-1
- IgLON5 antibody by CBA
- IgLON5 antibody by IFA titer assay

If IFA pattern suggests IgLON5 antibody
- AMPA-receptor antibody and AMPA-receptor antibody, CBA are positive

If IFA pattern suggests AMPA-receptor antibody and AMPA-receptor antibody, CBA are positive
- GABA-B receptor antibody and GABA-B receptor antibody, CBA are positive

If pattern suggests AMPA-receptor antibody and AMPA-receptor antibody, CBA are positive
- Alpha internexin antibody by CBA
- NIF heavy chain antibody by CBA
- NIF light chain antibody by CBA
- NIF antibody by IFA titer assay

If pattern suggests GABA-B receptor antibody and GABA-B receptor antibody, CBA are positive
- Glutamic acid decarboxylase (GAD65) antibody assay
- Alpha internexin antibody by CBA
- NIF heavy chain antibody by CBA
- NIF light chain antibody by CBA
- NIF antibody by IFA titer assay

If pattern suggests NMDA-receptor antibody and NMDA-receptor antibody, CBA are positive
- NMDA-receptor antibody
- AMPA-receptor antibody
- GABA-B receptor antibody
- Contactin-associated protein-like-2 (CASPR2)-IgG
- Leucine-rich glioma inactivated protein-1 IgG

If AMPA-receptor antibody by CBA and/or CASPR2-IgG are positive
- Alpha internexin antibody by CBA
- NIF heavy chain antibody by CBA
- NIF light chain antibody by CBA
- NIF antibody by IFA titer assay

If pattern suggests NMDA-receptor antibody and NMDA-receptor antibody, CBA are positive
- Acetylcholine receptor (muscle AChR) binding antibody
- CRMP-5-IgG Western blot

If pattern suggests NMDA-receptor antibody and NMDA-receptor antibody, CBA are positive
- Acetylcholine receptor (muscle AChR) binding antibody
- CRMP-5-IgG Western blot