**Supplementary Table: Summary of laboratory and imaging studies**

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| --- | --- |
| Test | Result |
| Blood studies |  |
| Vitamin E | 9.1 mg/dL (N: 6-23) |
| Vitamin B12 | 602 pg/mL (N; 232-1245) |
| Folate | 9.8 ng/mL (N>4.7) |
| Vitamin B1 | 65.6 nmol/L (84-213) |
| Copper | 107 ug/dL (N: 85-155) |
| Zinc | 70 ug/dL (N: 55-150) |
| Heavy metal screen | Negative |
| Anti-nuclear antigen | Negative |
| Anti-extractable nuclear antigens | Negative |
| Transglutaminase IgA and IgM | Normal |
| Endomysial IgA | Negative |
| Anti-aquaporin-4 antibodies  | Negative |
| Anti-myelin oligodendrocyte glycoprotein antibodies | Negative |
| Anti GM1, GM2, GD1a, GD1b, and GQ1b antibodies | Negative |
| Angiotensin converting enzyme  | 22 U/L (N<52) |
| Serum paraneoplastic panel (*NMDA-R, VGKC-complex, LGI1, Caspr2, GABA-B, AAMPA-R, ANNA-1, ANNA-2, ANNA-3, AGNA-1, PCA-1, PCA-2, PCA-Tr, Amphyphysin, N-type Ca Channel, P/Q Type Calcium Channel, Acetylcholine R binding, Acetylcholine Ganglionic Neuronal, and CRMP-5 antibodies, as well as glycine receptor alpha1-IgG binding antibody)* | Negative |
| Pyruvate | 0.06 mmol/L (N: 0.03-0.08) |
| Lactate | 1.2 mmol/L (N: 0.5 – 2.2) |
| Very long chain fatty acids | Normal |
| Whipple polymerase chain reaction | Negative |
| Cerebrospinal fluid studies |  |
| Red blood cells | 1/uL |
| White blood cells | 1/uL |
| Glucose | 58 mg/dL (N: 40-70) |
| Protein | 22 mg/dL (N: 15-45) |
| Cytology | Negative |
| IgG index | 0.87 (<0.61) |
| IgG synthesis rate | 6.4 mg/day (0-3.0) |
| Cerebrospinal fluid paraneoplastic panel: (*NMDA-R, VGKC-complex, LGI1, Caspr2, GABA-B, AAMPA-R, ANNA-1, ANNA-2, ANNA-3, AGNA-1, PCA-1, PCA-2, PCA-Tr, Amphyphysin, and CRMP-5 antibodies)* | Negative |
| Oligoclonal bands | Present |
| Bacterial culture | Negative |
| VDRL | Negative |
| Amino acids | Nonspecific abnormalities |
| Urine studies |  |
| Organic acids | Nonspecific abnormalities |
| Imaging  |  |
| Whole-body positron emission tomography | Normal |
| Computed tomography of the chest, abdomen, and pelvis with and without contrast | Normal |