**Supplementary table 1:** Laboratory results

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| **Lab results** | **Result** | **Reference range** |
| **Serum** |   |   |
| Erythrocyte sedimentation rate | **21 mm/hr** | 0 - 20 mm/hr |
| C-Reactive Protein | **17.3 mg/L** | 0.0 - 9.0 mg/L |
| ANA | <1:80 | <1:80 |
| Anti Jo-1 IgG | <1.0 Negative | <1.0 Negative |
| Rheumatoid factor quantitative | <10 | <=13 |
| ANCA screen | Negative |   |
| ACE | 43 U/L | 6 - 67 U/L |
| Aquaporin-4 IgG | Negative | Negative |
| **MOG antibody (twice)** | **1:80** | <1:10 |
| **MOG antibody (third check, 18 months after Rituxan)** | **1:10** | <1:10 |
| Lyme disease IgG/IgM Total | <0.90 | <0.90 |
| HIV 1&2 antibody screen | Non-reactive | Non-reactive |
| Coccidiodes antibody, TP antigen | Negative | Negative |
| Coccidiodes F antigen | Negative | Negative |
| West Nile Virus IgG | <1.30 | <1.30 |
| West Nile Virus IgM | <0.90 | <0.90 |
| CMV DNA Quantititave | <200 IU/mL | <200 IU/mL |
| CMV DNA QN PCR | <2.30 (Log\_IU)/mL | <2.30 (Log\_IU)/mL |
| RPR | Non-reactive | Non-reactive |
| Crytococcus Antigen | Negative |   |
| Tuberculosis Quantiferon Gold | Negative | Negative |
| MuSK | Negative | Negative |
| Acetylcholine receptor blocking antibody | <15% inhibition | <15% inhibition |
| Acetylcholine modulating antibody | 9% inhibition | <32% inhibition |
|   |   |   |
| **CSF** |   |   |
| Opening pressure | **25 cm H20** |   |
| White blood cell count | **24 / cumm** | 0-5 /cumm |
| Red blood cell count | 1 / cumm | 0 / cumm |
| IgG Index | 0.58 | <0.66 |
| Oligoclonal bands | **One unique band** | No bands |
| Myelin basic protein | <2.0 ug/L | 2.0 - 4.0 ug/L |
| E.Coli K1 | Not detected | Not detected |
| Haernophilus Influenza | Not detected | Not detected |
| Listeria Monocytogenes | Not detected | Not detected |
| Neisseria meningitidis | Not detected  | Not detected |
| Streptococcus agalaxtiae | Not detected | Not detected |
| Cytomegalovirus | Not detected | Not detected |
| Enterovirus | Not detected | Not detected |
| Herpes Simplex I | Not detected | Not detected |
| Herpes Simplex 2 | Not detected | Not detected |
| Human Herpes Virus 6 | Not detected | Not detected |
| Human Parechovirus | Not detected | Not detected |
| Cryptococcus neoformans gatti | Not detected | Not detected |
| Coccidiodes antibody | Negative | Negative |
| West Nile Virus IgG | <1.30 |   |
| West Nile Virus IgM | <0.90 |   |
| Mycobacterium Tuberculosis PCR | Negative |   |
| Bacterial gram stain and culture | Negative / No growth | Negative / No growth |
| Fungal culture | No growth | No growth |
| Cytology | Mixed inflammatory cells, no malignancy identified |   |