

	Presentation	Neurological Examination Findings	CSF Studies	Other Laboratory Studies	Treatment	Outcome
Case 1	Rapidly ascending numbness, gait instability, and fecal incontinence	Sensory ataxia with preserved strength, hyperreflexia, and decreased vibration sense in length dependent pattern	Cell count: 49 uL (Range: 0 - 5 /uL); Protein: 54 mg/dL (14 - 45 mg/dL); Normal glucose	Normal vitamin B12, methylmalonic acid, vitamin E, and copper levels Negative Epstein-Barr and Coxsackie virus antibodies GM1 Abs: 160 IV (Range: 0 - 50 IV) Westergren sedimentation rate: 40 mm/hr (Range: 0 - 20 mm/hr) C-reactive protein: 1.0 mg/dL (Range: 0.0 - 0.8 mg/dL)	Oral prednisone taper. 5 sessions of plasma exchange therapy	Near complete resolution of symptoms 3 months later
Case 2	Lower extremity weakness and constipation	Lower extremity weakness, increased tone, reduced vibration and proprioception in a length dependent pattern	Normal cell count, protein, and glucose levels	Normal vitamin B12, methylmalonic acid, vitamin E, and copper levels Westergren sedimentation rate: 13 mm/hr (Range: 0 - 10 mm/hr) C-reactive protein: 1.4 mg/dL (Range: 0.0 - 0.8 mg/dL) MTHFR Mutation: Heterozygous for C665T and A1286C	5 days of intravenous immunoglobulin followed by 5 sessions of plasma exchange therapy	Minimal improvement after inpatient rehabilitation
Case 3	Lower extremity weakness, low back pain, and constipation	Lower extremity weakness and hyperreflexia	Normal cell count, protein and glucose levels 11 unique oligoclonal bands	Normal vitamin B12 and copper levels Westergren sedimentation rate: 131 mm/hr (0 - 20 mm/hr) C-reactive protein: Normal range	3 days of high dose intravenous methylprednisolone	Worsening symptoms over several months with new spinal cord lesions
Case 4	Back pain, fever, and cough	Mild upper extremity weakness	No CSF studies obtained	Normal vitamin B12 level	None	Unknown
Case 5	Gait instability and sensory changes	Sensory ataxia with preserved strength, hyperreflexia, and decreased vibration and proprioception sense in length dependent pattern	No CSF studies obtained	Normal B12 level Undetectable copper level	Copper supplementation	No improvement in symptoms after copper repletion