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| **Characteristic** | **Period 1:****January 1, 2005 – July 31, 2014** | **Period 2:** **August 1, 2014 – December 31, 2014** |
|  | **N=29** | **N=15** |
| Spinal cord MRI |  |  |
| Location of spinal cord involvement\* |  |  |
|  Cervical cord  | 20/24 (83%) | 12/14 (86%)  |
|  Thoracic cord | 15/27 (56%) |  9/13 (69%) |
|  Conus |  8/26 (31%) |  4/12 (33%) |
|  Cervical cord only  | 11/29 (38%) |  6/15 (40%) |
|  Thoracic cord only  |  3/29 (10%) |  2/15 (13%) |
|  Conus only  |  3/29 (12%) |  0/15 (0%) |
|  Cervical, thoracic and conus |  2/29 (7%) |  3/15 (20%) |
|  Cervical and thoracic only |  7/29 (24%) |  3/15 (20%) |
|  Thoracic and conus only |  3/29 (10%) |  1/15 (6%) |
| More than 1 discrete lesion† |  5/29 (17%) |  1/15 (13%) |
| Any spinal cord abnormality ≥3 segments in length‡ | 20/26 (77%) | 14/15 (93%) |
| Maximal involvement on axial images§  |  |  |
|  Limited to anterior horn cells‖ |  10/28 (36%) |  4/15 (27%) |
|  All central gray +/- some white matter  |  16/28 (57%) |  11/15 (73%) |
| Any spinal nerve root enhancement |  3/28 (11%)¶ |  3/15 (20%)¶ |
| Any spinal lesion with GAD enhancement |  6/29 (21%) |  3/15 (20%) |
| Brain MRI |  |  |
| No brain MRI within 30 days of first spinal MRI |  2/29 (7%) |  2/15 (13%) |
| Had brain MRI within 30 days and imaged with GAD | 24/29 (83%) | 13/15 (87%) |
|  No T2 hyperintensity  |  14/24 (58%) |  8/13 (61%) |
|  T2 hyperintensity in:  |  |  |
|  only brainstem  |  1/24 (4%) |  2/13 (15%) |
|  only brainstem and contiguous upper cord  |  3/24(12%) |  2/13(15%) |
|  central deep gray nuclei |  4/24(17%) |  0/13(0%) |
|  supratentorial white matter  |  2/24 (8%) |  1/13 (8%) |
|  cerebellum |  3/24(12%) |  1/13(8%) |
| Had brain MRI within 30 days and imaged without GAD |  3/29 (10%) |  0/15 (0%) |
|  No T2 hyperintensity |  3/3 (100%) |  |

\*Spinal levels with abnormal cord T2 weighted signal, assessed in sagittal plane. For first 3 rows listed, denominator is number of patients with the specific level imaged. For the remaining 6 rows in this section, denominator is total number of patients.

†Discrete lesions were those separated by ≥2mm of normal-appearing spinal cord signal on sagittal images ‡ T2 weighted signal abnormality. Excludes patients with only conus involved §At location of area of maximal cross-sectional involvement. Excludes 1 case from period 1 with indeterminate involvement. ‖2 remaining cases from period 1 with anterior horn cell and some white matter involvement ¶Period 1: 3=ventral root at cervical or thoracic level; 1 indeterminate. Period 2: 1=ventral root at cervical level; 2=cauda equina.