

00085      **Establishment of a Multidisciplinary Neuroimmunology Clinic Improves Care of Multiple Sclerosis Patients**

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**Aims:** To improve multiple sclerosis (MS) patient care through establishing a Multidisciplinary Neuroimmunology Clinic (MDNIC).

**Methodology:** To compare the level of MS care, using (with modifications) the American Academy of Neurology (AAN) MS quality measures, before and after MDNIC establishment.

Seven (out of 11) items from the AAN recommendation were selected as our quality measures. The percentages of patients (blinded consecutive recruitment) who achieved each measure before (n=40) and 1 year after (n=40) MDNIC establishment were calculated. New neuroimmunology case waiting time and total number of patients seen before and after MDNIC establishment were also compared. X<sup>2</sup> test (Fisher's Exact) was used to compare group proportions (p<0.05 taken as statistical significance).

**Result:** There was improvement across most measures: new MS diagnosis using 2010 McDonald criteria (0% to 80%, p=0.143), MS disability documentation (86.1% to 97.4%, p=0.099), fall screening (7.5% to 47.5%, p<0.001), fatigue screening (0.0% to 60.5%, p<0.001), depression screening (0.0% to 60.5%, p<0.001), performing comparison MRI within 24 months of diagnosis (92.3% to 100.0%, p=1.000), cognitive impairment testing (84.3% to 96.8%, p=0.196). The average new case waiting time reduced from 94.9 to 38.8 days and total patients seen per session increased from 12.0 to 14.1.

**Conclusion:** The MDNIC improved MS care across a majority of quality measures, without compromising new case waiting time and number of patients seen.