

Table S1. Characteristics of persons with multiple sclerosis before and after propensity score weighting

| Characteristic | Before propensity score weighting | | | After propensity score weighting | | |
|--------------------------------------|-----------------------------------|----------------------------|------|----------------------------------|----------------------------|------|
| | MSADP group (n = 199) | Comparison group (n = 301) | ASD | MSADP group (n = 178) | Comparison group (n = 286) | ASD |
| Female sex, % | 72.4 | 77.4 | 0.11 | 74.7 | 74.2 | 0.01 |
| Age, mean | 58.4 | 59.0 | 0.05 | 59.6 | 58.8 | 0.09 |
| Minority race, % | 23.6 | 10.0 | 0.32 | 18.5 | 22.2 | 0.09 |
| Bachelor's degree or higher, % | 46.0 | 66.1 | 0.40 | 51.4 | 50.3 | 0.02 |
| Married, % | 47.2 | 59.8 | 0.25 | 51.7 | 51.0 | 0.01 |
| Lives alone, % | 30.7 | 27.9 | 0.06 | 29.2 | 28.2 | 0.02 |
| Income <\$20,000/y, % | 28.0 | 15.5 | 0.28 | 22.2 | 24.5 | 0.05 |
| Income \$20,000-\$49,999/y, % | 33.0 | 29.2 | 0.08 | 34.6 | 36.8 | 0.05 |
| Income \$50,000-\$74,999/y, % | 18.7 | 21.3 | 0.07 | 20.4 | 18.0 | 0.06 |
| Income >\$75,000/y, % | 18.7 | 21.3 | 0.34 | 22.8 | 20.7 | 0.05 |
| Public insurance, % | 82.4 | 70.8 | 0.31 | 80.9 | 79.9 | 0.03 |
| Assisted living/nursing home, % | 16.6 | 8.3 | 0.22 | 12.4 | 14.0 | 0.04 |
| Years since diagnosis, mean | 20.4 | 19.8 | 0.06 | 20.7 | 20.5 | 0.02 |
| RRMS, % | 44.4 | 44.3 | 0.00 | 40.6 | 42.0 | 0.03 |
| PDDS scale score, mean | 6.4 | 5.9 | 0.26 | 6.3 | 6.2 | 0.07 |
| SF-12 PCS score, mean | 33.0 | 31.3 | 0.21 | 32.5 | 32.8 | 0.05 |
| SF-12 MCS score, mean | 51.4 | 51.4 | 0.00 | 51.6 | 51.4 | 0.02 |
| Fatigue (MFIS-5 score, mean) | 10.5 | 11.3 | 0.19 | 10.7 | 10.5 | 0.04 |
| Pain (PES score, mean) | 15.5 | 15.7 | 0.04 | 15.5 | 15.6 | 0.00 |
| Social support (MOS-SSS score, mean) | 75.4 | 75.8 | 0.02 | 75.3 | 75.5 | 0.01 |
| Depression (CESD score, mean) | 11.5 | 11.0 | 0.08 | 11.2 | 11.4 | 0.03 |
| Fall, % | 64.3 | 67.4 | 0.06 | 65.7 | 63.7 | 0.04 |
| Broken bone, % | 9.5 | 5.6 | 0.13 | 9.6 | 7.5 | 0.07 |
| UTI, % | 39.7 | 33.4 | 0.13 | 38.2 | 38.9 | 0.01 |
| Pressure ulcer, % | 11.2 | 8.3 | 0.09 | 10.2 | 10.8 | 0.02 |
| No. of inpatient days, mean | 1.3 | 0.9 | 0.09 | 1.2 | 1.1 | 0.01 |
| No. of ED visits, mean | 0.8 | 0.6 | 0.14 | 0.6 | 0.7 | 0.07 |
| Propensity score (probability) | 0.493 | 0.335 | 0.76 | 0.452 | 0.468 | 0.08 |

Abbreviations: ASD, absolute standardized difference; CESD, Center for Epidemiologic Studies Depression Scale; ED, emergency department; MCS, Mental Component Summary; MFIS-5, five-item Modified Fatigue Impact Scale; MOS-SSS, Medical Outcomes Study–Social Support Survey; MSADP, multiple sclerosis adult day program; PCS, Physical Component Summary; PDDS, Patient-Determined Disease Steps; PES, Pain Effects Scale; RRMS, relapse-remitting multiple sclerosis; SF-12, 12-Item Short Form Health Survey; UTI, urinary tract infection.

Table S2. Characteristics of caregivers before and after propensity score weighting

| Characteristic | Before propensity score weighting | | | After propensity score weighting | | |
|--------------------------------|-----------------------------------|----------------------------|------|----------------------------------|----------------------------|------|
| | MSADP group (n = 82) | Comparison group (n = 125) | ASD | MSADP group (n = 76) | Comparison group (n = 123) | ASD |
| Female sex, % | 57.3 | 44.8 | 0.25 | 55.3 | 47.4 | 0.16 |
| Age, mean | 61.7 | 60.7 | 0.08 | 61.3 | 61.6 | 0.03 |
| Minority race, % | 23.5 | 12.9 | 0.25 | 20.0 | 24.5 | 0.11 |
| Bachelor's degree or higher, % | 56.1 | 56.8 | 0.01 | 56.6 | 58.3 | 0.03 |
| Married, % | 75.3 | 87.2 | 0.27 | 78.9 | 79.5 | 0.01 |
| Spouse of person with MS, % | 59.8 | 76.8 | 0.35 | 64.5 | 65.6 | 0.02 |
| Income <\$20,000/y, % | 3.9 | 11.6 | 0.39 | 4.2 | 12.9 | 0.45 |
| Income \$20,000-\$49,999/y, % | 28.6 | 25.6 | 0.06 | 28.2 | 24.6 | 0.08 |
| Income \$50,000-\$74,999/y, % | 26.0 | 22.3 | 0.08 | 23.9 | 21.1 | 0.06 |
| Income >\$75,000/y, % | 41.6 | 40.5 | 0.02 | 43.7 | 41.4 | 0.05 |
| Years caring, mean | 7.9 | 7.5 | 0.13 | 7.8 | 7.8 | 0.00 |
| Employed, % | 50.0 | 50.4 | 0.01 | 50.0 | 55.9 | 0.12 |
| Help from family or friends, % | 30.5 | 32.8 | 0.05 | 30.3 | 30.5 | 0.01 |
| Use of paid help, % | 51.2 | 25.8 | 0.51 | 47.4 | 52.6 | 0.10 |
| SF-12 PCS score, mean | 47.2 | 47.1 | 0.01 | 47.4 | 47.7 | 0.02 |
| SF-12 MCS score, mean | 48.9 | 50.4 | 0.13 | 49.0 | 48.8 | 0.02 |
| Role overload score, mean | 7.6 | 8.0 | 0.19 | 7.7 | 7.6 | 0.07 |
| Role captivity score, mean | 9.7 | 10.2 | 0.22 | 9.8 | 9.7 | 0.06 |
| Anxiety score, mean | 5.7 | 5.2 | 0.20 | 5.6 | 5.8 | 0.09 |
| Depression score, mean | 7.9 | 7.2 | 0.26 | 7.8 | 8.1 | 0.10 |
| Anger score, mean | 6.9 | 6.5 | 0.18 | 6.9 | 7.1 | 0.08 |
| Positive affect score, mean | 31.5 | 32.5 | 0.17 | 31.7 | 31.0 | 0.11 |
| Propensity score (probability) | 0.491 | 0.334 | 0.78 | 0.463 | 0.478 | 0.08 |

Abbreviations: ASD, absolute standardized difference; MCS, Mental Component Summary; MS, multiple sclerosis; MSADP, multiple sclerosis adult day program; PCS, Physical Component Summary; SF-12, 12-Item Short Form Health Survey.