Supplementary Table 1. LIFEware™ characteristics at baseline between those individuals who reported fatigue and those who did not.

| Characteristic | Fatigued, N=2,714 | Not Fatigued, N=2,714 | OR (95% CI) | Characteristic | Fatigued, N=2,714 | Not Fatigued, N=2,714 | OR (95% CI) |
|---|---|---|---|---|---|---|---|
| Get up | | | | Bladder | | | |
|   Lots of difficulties - Unable | 896 (33.2%) | 542 (20.0%) | |   Moderate - Severe | 875 (32.6%) | 316 (11.8%) | 5.4 (4.6-6.4)* |
|   No – Some difficulties | 1805 (66.8%) | 2165 (80.0%) | 2.6 (2.2-3.0)* 1.00 (Ref) |   Mild - Moderate | 714 (26.6%) | 625 (23.3%) | 2.0 (1.8-2.3)* |
| Stairs | | | |   No - Mild | 1098 (40.9%) | 1747 (65.0%) | 1.00 (Ref) |
|   Lots of difficulties - Unable | 1333 (49.4%) | 822 (30.3%) | | Vision | | | |
|   No – Some difficulties | 1365 (50.6%) | 1887 (69.7%) | 3.1 (2.7-3.6)* 1.00 (Ref) |   Moderate - Severe | 854 (31.6%) | 233 (8.6%) | 6.3 (5.3-7.5)* |
| Stand | | | |   Mild – Moderate | 759 (28.1%) | 653 (24.1%) | 2.0 (1.7-2.2)* |
|   Lots of difficulties- Unable | 1789 (66.4%) | 1069 (39.5%) | |   No - Mild | 1092 (40.4%) | 1822 (67.3%) | 1.00 (Ref) |
|   No – Some difficulties | 906 (33.6%) | 1639 (60.5%) | 4.5 (4.0-5.2)* 1.00 (Ref) | Loneliness | | | |
| Drive | | | |   Moderate - Extremely | 666 (24.7%) | 342 (12.0%) | 2.4 (2.1-2.8)* |
|   Lots of difficulties- Unable | 607 (22.5%) | 415 (15.3%) | 1.8 (1.6-2.2)* |   No - Mildly | 2033 (75.3%) | 2382 (88.0%) | 1.00 (Ref) |
|   No – Some difficulties | 1757 (65.1%) | 1991 (73.6%) | 1.00 (Ref) | Pessimism | | | |
|   Not applicable | 335 (12.4%) | 300 (11.1%) | 1.4 (1.1-1.6)* |   Moderate – Extremely | 1174 (43.5%) | 636 (23.6%) | 2.5 (2.2-2.8)* |
| Pain | | | |   No - Mildly | 1525 (56.5%) | 2061 (76.4%) | 1.00 (Ref) |
|   Pain | 1797 (66.4%) | 1127 (41.6%) | | Tense | | | |
|   No | 909 (33.6%) | 1584 (58.4%) | 2.8 (2.5-3.1)* 1.00 (Ref) |   Moderate – Extremely | 1534 (57.3%) | 881 (32.7%) | 2.8 (2.5-3.2)* |
| Pain extent | | | 2.4 (2.0-2.8)* |   No – Mildly | 1144 (42.7%) | 1812 (67.3%) | 1.00 (Ref) |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Discomforting-Excruciating | 1425 (79.2%) | 700 (62.4%) | 1.00 (Ref) | Panic | | | |
| Mild pain | 374 (20.8%) | 422 (37.6%) | | Moderate – Extremely | 453 (16.8%) | 188 (7.0%) | 2.7 (2.3-3.3)* |
| Upper Limbs | | | | No - Mildly | 2242 (83.2%) | 2515 (93.0%) | 1.00 (Ref) |
| Moderate - Severe | 434 (16.1%) | 157 (5.8%) | 4.6 (3.8-5.7)* | Annoyed | | | |
| Mild - Moderate | 668 (24.8%) | 336 (12.4%) | 3.0 (2.6-3.5)* | Moderate – Extremely | 1417 (52.7%) | 711 (26.4%) | 3.2 (2.8-3.6)* |
| No - Mild | 1596 (59.2%) | 2211 (81.8%) | 1.00 (Ref) | No – Mildly | 1274 (47.3%) | 1987 (73.6%) | 1.00 (Ref) |
| Lower Limbs | | | | Morbid Mood | | | |
| Moderate - Severe | 1013 (37.6%) | 580 (21.5%) | 6.4 (5.3-7.6)* | Moderate – Extremely | 667 (24.8%) | 316 (11.7%) | 2.5 (2.2-2.9)* |
| Mild - Moderate | 823 (30.6%) | 528 (19.6%) | 3.9 (3.4-4.6)* | No - Mildly | 2027 (75.2%) | 2385 (88.3%) | 1.00 (Ref) |
| No - Mild | 856 (31.8%) | 1588 (58.9%) | 1.00 (Ref) | Feelings of Guilt | | | |
| Bowel | | | | Moderate- Extremely | 671 (24.8%) | 323 (11.9%) | 2.5 (2.1-2.8)* |
| Moderate - Severe | 574 (21.3%) | 163 (6.0%) | 5.1 (4.2-6.1)* | No - Mildly | 2032 (75.2%) | 2381 (88.1%) | 1.00 (Ref) |
| Mild - Moderate | 490 (18.2%) | 386 (14.3%) | 1.8 (1.5-2.1)* | | | | |
| No - Mild | 1625 (60.4%) | 2148 (79.6%) | 1.00 (Ref) | | | | |

Ref=Reference; Odds ratios and confidence intervals are for logistic regression models comparing baseline patient-reported outcomes by fatigue status, and are adjusted for age at enrollment, disease duration, EDSS at enrollment, DMT use, and MS type at enrollment. P-values are also adjusted for multiple comparisons. *p<0.05.