**Supplementary Table S3. Characterization of 261 MS patients who completely discontinued DMT until the end of the observation period**

|  |  |
| --- | --- |
| **Sex**, N (%) |  |
| Female | 192 (74.6) |
| Male | 69 (26.4) |
| **Age at MS symptom onset [years]**, mean (SD)\* | 33.6 (10.1) |
| **Age at first DMT start [years]**, mean (SD) | 36.6 (10.4) |
| **Time from diagnosis to first DMT [years]**, mean (SD) | 1.0 (1.6) |
| **Partnership status**, N (%)\* |  |
| Single | 62 (31.2) |
| Any partnership | 137 (68.8) |
| **Employment status**, N (%)\* |  |
| In training | 10 (5.2) |
| Employed – full time | 103 (53.6) |
| Employed – part time | 45 (23.4) |
| Retired – disability | 13 (6.7) |
| Retired – old age | 4 (2.1) |
| Other | 17 (8.9) |
| **Educational level**, N (%)\* |  |
| NSCE | 1 (0.5) |
| CSE/GCSE | 102 (53.7) |
| Advanced technical college entrance qualification | 23 (12.1) |
| A level | 64 (33.7) |
| **Observation period since first DMT start [years]**, mean (SD) | 3.73 (1.8) |
| **Calendar period of first DMT start**, N (%) |  |
| 2014–2017 | 135 (51.7) |
| 2018–2021 | 126 (48.3) |
| **First DMT class**, N (%) |  |
| Mild to moderate efficacy | 236 (90.4) |
| High efficacy | 25 (9.6) |
| **Time on first DMT [years]**, mean (SD) | 2.5 (1.8) |
| **EDSS at first DMT start**, N (%)\* |  |
| Mild [0.0–2.5] | 91 (86.7) |
| Moderate/Severe [≥3.0] | 14 (13.3) |
| **EDSS worsening within 6 months before first DMT cessation/last follow-up**, N (%)\* | 0 (0.0) |
| **ARR at first DMT start** (95% CI) | 0.21 (0.15–0.27) |
| **Relapses within 6 months after first DMT start**, N (%) | 14 (5.3) |
| **ARR at first DMT cessation/last follow-up** (95% CI) | 0.21 (0.15–0.27) |
| **MRI results at first DMT start**, N (%)\* |  |
| Stable | 9 (32.1) |
| Unstable | 19 (67.9) |
| **MRI results within 6 months after first DMT start**, N (%)\* |  |
| Stable | 22 (48.9) |
| Unstable | 23 (41.1) |
| **MRI results at first DMT cessation/last follow-up**, N (%)\* |  |
| Stable | 64 (70.9) |
| Unstable | 27 (29.7) |

ARR – annualized relapse rate

CI – confidence interval

CSE/GCSE – certificate of secondary education/ general CSE

DMT – disease-modifying therapy

EDSS – expanded disability status scale

MRI - magnetic resonance imaging

MS – multiple sclerosis

NSCE – no school-leaving certificate

SD – standard deviation

\* – denominators may differ due to missing values