**Supplementary Table S4. Predictors of the first DMT switch according to univariable logistic regression model in patients with MS**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **OR** | **95% CI** | **p** |
| **Educational level (Ref.: A level)** |  |  |  |
| NSCE | 1.45 | 0.61–3.51 | 0.402 |
| CSE/NCSE | 1.31 | 1.07–1.60 | ***0.009*** |
| Advanced technical college entrance qualification | 1.41 | 1.02–1.98 | ***0.038*** |
| **Partnership (Ref.: single)** |  |  |  |
| Any partnership | 0.85 | 0.71–1.03 | 0.103 |
| **Employment status (Ref.: employed – full time)** |  |  |  |
| In training | 0.98 | 0.69–1.39 | 0.931 |
| Employed – part time | 1.05 | 0.83–1.32 | 0.710 |
| Retired – disability | 1.21 | 0.87–1.70 | 0.254 |
| Retired – old age | 0.66 | 0.33–1.27 | 0.216 |
| Other | 1.08 | 0.80–1.48 | 0.606 |
| **EDSS at 1st DMT start (Ref.: mild [0.0–2.5])** |  |  |  |
| Moderate/Severe [≥3.0] | 1.05 | 0.77–1.45 | 0.745 |
| **ARR at 1st DMT start** | 1.24 | 1.07–1.44 | ***0.005*** |
| **Disease duration until 1st DMT start [years]** | 1.00 | 0.99–1.02 | 0.861 |
| **1st DMT class (Ref.: High efficacy)** |  |  |  |
| Mild to moderate efficacy | 3.22 | 2.65–3.91 | ***<0.001*** |
| **Calendar period of 1st DMT start (Ref.: 2014–2017)** |  |  |  |
| 2018–2021 | 0.81 | 0.68–0.95 | ***0.010*** |
| **Time on 1st DMT [years]** | 0.38 | 0.36–0.41 | ***<0.001*** |

ARR – annualized relapse rate

CI – confidence interval

CSE/GCSE – certificate of secondary education/ general CSE

DMT – disease-modifying therapy

EDSS – expanded disability status scale

MS – multiple sclerosis

NSCE – no school-leaving certificate

OR – odds ratio

p – p-value

Ref – reference