SUPPLEMENTARY MATERIAL

Drugs – Real World Outcomes

Retrospective Claims Analysis of Treatment Patterns, Relapse, Utilization, and Cost Among Patients With Multiple Sclerosis Initiating Second-line Disease-modifying Therapy

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Figure S1. Index Medication

| Medication                  | Patients (%) |
|-----------------------------|--------------|
| Dimethyl fumarate (n=471)  | 30.3         |
| Fingolimod (n=209)         | 13.5         |
| Teriflunomide (n=198)      | 12.7         |
| Glatiramer acetate (n=223) | 14.4         |
| Interferon beta-1a (n=117) | 7.5          |
| Interferon beta-1b (n=32)  | 2.1          |
| Peginterferon beta-1a (n=22)| 1.4          |
| Natalizumab (n=201)        | 12.9         |
| Ocrelizumab (n=63)         | 4.1          |
| Alemtuzumab (n=17)         | 1.1          |
| Mitoxantrone (n=1)         | 0.1          |

Legend:
- Oral (n=876)
- Injectable (n=394)
- Infusion (n=282)
Figure S2. Patient Adherence (A) and Patient Persistence (B) on DMT

DMT, disease-modifying therapy.
Figure S3. Proportion of Patients Experiencing Relapses Pre-Index and Post-Index

DMT, disease-modifying therapy.
Table S1. Post-Index Relapses by Number of Pre-Index Relapses

| Post-Index Relapse | All patients N=1554 | All oral DMTs n=878 | All injectable DMTs n=394 | All infusion DMTs n=282 |
|--------------------|----------------------|----------------------|---------------------------|-------------------------|
| 0 Pre-Index Relapses, n (%) |                     |                      |                           |                         |
| 0                  | 892 (85)             | 530 (85)             | 214 (82)                  | 148 (87)                |
| 1                  | 128 (12)             | 73 (12)              | 38 (15)                   | 17 (10)                 |
| 2                  | 24 (2.3)             | 13 (2.1)             | 8 (3.1)                   | 3 (1.8)                 |
| 3+                 | 7 (0.7)              | 4 (0.7)              | 1 (0.4)                   | 2 (1.2)                 |
| 1 Pre-Index Relapse, n (%) |                     |                      |                           |                         |
| 0                  | 255 (73)             | 136 (72)             | 69 (71)                   | 50 (78)                 |
| 1                  | 69 (20)              | 38 (20)              | 19 (20)                   | 12 (19)                 |
| 2                  | 18 (5.1)             | 11 (5.8)             | 5 (5.2)                   | 2 (3.1)                 |
| 3+                 | 9 (2.6)              | 5 (2.6)              | 4 (4.1)                   |                         |
| 2 Pre-Index Relapses, n (%) |                     |                      |                           |                         |
| 0                  | 54 (50)              | 25 (52)              | 12 (48)                   | 17 (50)                 |
| 1                  | 29 (27)              | 10 (21)              | 8 (32)                    | 11 (32)                 |
| 2                  | 19 (18)              | 10 (21)              | 4 (16)                    | 5 (15)                  |
| 3+                 | 5 (4.7)              | 3 (6.3)              | 1 (4)                     | 1 (2.9)                 |
| 3 Pre-Index Relapses, n (%) |                     |                      |                           |                         |
| 0                  | 19 (42)              | 9 (45)               | 4 (36)                    | 6 (43)                  |
| 1                  | 13 (29)              | 5 (25)               | 5 (45)                    | 3 (21)                  |
| 2                  | 9 (20)               | 2 (10)               | 2 (18)                    | 5 (36)                  |
| 3+                 | 4 (8.9)              | 4 (20)               |                           |                         |

All values are means.

DMT, disease-modifying therapy.