**Table e-1**: Demographic and MS Disease Characteristics for immunophenotyping analysis

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|  | **Treatment naïve**N=30 | **Glatiramer acetate**N=12 | **Dimethyl fumarate**N=26 |
| Age | 36.47± 11.07 | 44.1 ± 9.76 | 41.3 ± 10.48 |
| Female | 14 (46.7%) | 8 (66.7%) | 12 (46.2%) |
| BMI | 26.2± 5.44 | 24.9 ± 3.55 | 26.3 ± 5.07 |
| Disease Duration  | 2.46 ± 3.5 | 12.4 ± 8.2 | 10.4 ± 8.1 |
| Treatment Duration | N/A | 4.9 ± 4.3 | 1.4 ± 0.7 |
| EDSSMedian | 1.0 | 1.5 | 1.0 |

All values are expressed as mean ± standard deviation (except EDSS where both mean and median are provided). BMI= body mass index. Disease duration is expressed in years, calculated from the time of first symptom onset to the time of stool sample collection. Treatment duration is expressed in years. EDSS= Expanded Disability Status Scale.