**Supplementary Table 2.** Clusters showing significant regional rates of cortical atrophy. Corresponding cluster-wise *p*-values (CWP), cluster size (mm2) and Talairach (Tal X, Y, Z) coordinates.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Cluster**a **No** | **CWP** | **Size (mm2)** | **Tal X** | **Tal Y** | **Tal Z** | **Cortical area** |
| **DMF group** |
| Left hemisphere |
| **1****2****3****4****5** | 0.00070.0007 0.00470.02400.0472  | 933.74 944.19 731.20583.34 527.19  | -11.4 -20.2-20.4-54.4-33.5  | -72.0 -93.5-35.8-6.2 -66.5  | 21.1 8.356.9 9.0 -9.5  | cuneuslateral occipital postcentralprecentralfusiform |
| Right hemisphere |
| **1****2****3****4** | 0.00010.00010.00010.0091 | 2817.95 1712.02 2285.93699.53  | 6.345.842.661.4 | 25.8 30.8 -32.4 -12.5  | 18.8 -3.8 24.1 2.2  | anterior cingulatepars triangularissupramarginalsuperior temporal |
| **NAT group** |
| Left hemisphere |
| **1** | 0.0024 | 802.40  | -52.2  | -34.0  | -13.6  | inferior temporal |
| Right hemisphere |
| **1****2****3** | 0.00280.01190.0235 | 774.24 657.86 593.49  | 39.2 30.3 45.8  | -59.2 52.0 8.7  | 45.4 -8.4 -19.6  | inferior parietal rostral middle frontalsuperior temporal |
| **DMF group vs NAT group** |
| Left hemisphere |
| **1****2****3****4** | 0.00000.00070.02140.0247 | 1177.15 879.06 585.87575.48  | -46.8 -36.8 -12.8 -52.7  | 32.4 6.132.6 -24.2  | -6.6 -26.317.2 -10.3  | pars triangularistemporal polepars triangularismiddle temporal |
| Right hemisphere |
| **1****2** | 0.00010.0276 | 2009.11581.47 | 35.028.2 | -7.4-59.0 | -4.2-8.5 | insulafusiform |
| **DMFR subgroup vs DMFNR subgroup** |
| Left hemisphere |
| **1****2****3****4****5****6** | 0.00010.00010.00010.00010.00010.0042 | 3342.16 7524.045305.817605.12 2131.45 748.66  | -14.2-29.4 -55.0 -30.0 -10.1 -30.5  | -47.5 45.6-11.0 -61.3 31.0 9.9  | 36.0 5.5 -18.2 40.4 26.5 50.1  | precuneusrostral middle frontalmiddle temporalinferior parietalsuperior frontalcaudal middle frontal |
| Right hemisphere |
| **1****2****3****4** | 0.00010.00010.01110.0223 | 25497.871273.47679.28 608.52  | 40.7 26.010.5 5.5  | -61.254.7 -52.6 36.8  | 10.4 -12.438.2 -18.6  | inferior parietal rostral middle frontalprecuneusmedial orbitofrontal |
| **DMFR subgroup vs NAT group** |
| Left hemisphere |
| **1****2** | 0.00010.0024 | 1154.51 799.41  | -19.5 -11.2  | -83.2 -52.3  | -3.5 45.3  | lingualprecuneus |
| Right hemisphere |
| **1****2** | 0.00010.0001 | 1939.97979.14  | 25.9 40.5  | -41.5 -64.7  | 60.4 14.6  | superior parietalinferior parietal |
| aClusters corrected for multiple comparison using family-wise error correction with Monte Carlo Z simulation at *p*<0.05 (Z=1.3).Abbreviations:DMF =dimethyl fumarate; NAT =natalizumab; DMFR = DMF responders;DMFNR **=** DMF non-responders. |