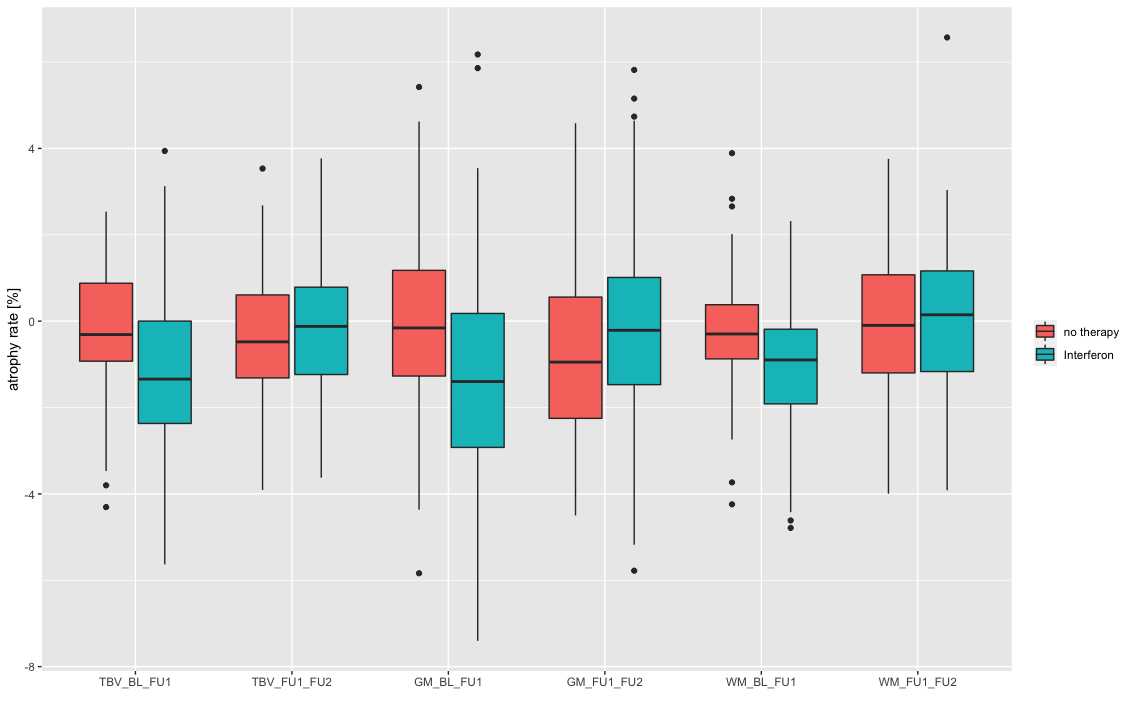
SUPPLEMENT



**Table S2** Annual percentage atrophy rates for total brain, grey matter and white matter volumes calculated from separate cross-sectional analysis (FSL-SIENAX) at two timepoints compared between untreated patients and patients treated with interferon-beta during the first and the second years.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Total brain volume** | | | | **Grey matter** | | | | **White matter** | | | |
|  | **BL to FU1** | | **FU1 to FU2** | | **BL to FU1** | | **FU1 to FU2** | | **BL to FU1** | | **FU1 to FU2** | |
| no therapy | Interferon | no therapy | Interferon | no therapy | Interferon | no therapy | Interferon | no therapy | Interferon | no therapy | Interferon |
| **Atrophy rate  [% / year]** | -0.31  (-0.93, 0.88) | -1.34  (-2.37, 0.00) | -0.48  (-1.31, 0.61) | -0.12  (-1.24, 0.79) | -0.16  (-1.27, 1.18) | -1.40  (-2.92, 0.18) | -0.95  (-2.25, 0.56) | -0.21  (-1.47, 1.01) | -0.30  (-0.87, 0.38) | -0.90  (-1.92, -0.19) | -0.10  (-1.20, 1.07) | 0.15  (-1.17, 1.16) |
| **p-value1** | 0.007 | | 0.14 | | 0.0558 | | 0.25 | | 0.002 | | 0.12 | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Median (IQR)  no therapy: N =42; Interferon: N = 79  1 comparison between “no therapy” and “interferon” groups by linear mixed-model analysis | | | | | | | | | | | | |



**Figure S1** Visualisation of atrophy rates for total brain (TBV), grey matter (GM) and white matter (WM) volumes calculated from cross-sectional analysis (FSL-SIENAX) compared between untreated patients and patients treated with interferon-beta during the first and the second years.