

Results

MS-TN Cohort Demographics

Age (years, mean \pm SD)	55 \pm 10
Sex (M : F)	20 : 28
Duration of MS (years, mean \pm SD)	15 \pm 9
Duration of TN pain (years, mean \pm SD)	5 \pm 3
Surgical response rate (responder : non-responder)	32 : 16

Healthy controls were age and sex matched.

Myelin Map External Validity

Two-one-sided t-tests (TOST) demonstrated equivalence between MMs of local and external HCs (all regions $p < 0.05$), confirming cross-scanner generalizability.

TOST:

Determines whether the means of two populations are equivalent based on two independent samples from these populations.

Myelin Map Internal Validity

MM differences between MS-TN patients and healthy controls ($p < 0.0001$) in the 29/48 JHU regions, predominantly demonstrating demyelination in MS-TN.

Figure 2:

Univariate analysis identified regional white matter differences between MS-TN and HCs in 29/48 JHU regions ($p < 0.0001$).