

Supplementary Table 1. Results of univariable and multivariable ordered logistic regression analysis for predicting higher numbers of subcortical white matter lesions. Multivariable corrections were applied for age and sex.

Variable	Univariable Ordered Logistic Regression		Multivariable Ordered Logistic Regression	
	OR (95% CI)	p-value	OR (95% CI)	p-value
LVEDV (per 5 mL)	0.98 (0.94-1.02)	0.318	1.0 (0.96-1.05)	0.984
LVESV (per 5 mL)	0.99 (0.94-1.05)	0.785	1.02 (0.96-1.09)	0.466
LVEF (per 5%)	1.04 (0.82-1.33)	0.729	0.95 (0.73-1.22)	0.677
RVEDV (per 5 mL)	0.97 (0.93-1.02)	0.220	1.00 (0.95-1.06)	0.869
RVESV (per 5 mL)	0.96 (0.88-1.04)	0.329	1.02 (0.92-1.12)	0.718
RVEF (per 5%)	1.16 (0.84-1.60)	0.378	1.01 (0.73-1.40)	0.960
T2 Signal Ratio	1.36 (0.57-3.23)	0.486	0.96 (0.39-2.36)	0.935
EGE (%)	0.99 (0.89-1.09)	0.832	0.98 (0.89-1.09)	0.727
LGE (%)	1.06 (0.96-1.18)	0.216	1.07 (0.96-1.18)	0.238
Native T1-Mapping (per 10 ms)	1.02 (0.97-1.07)	0.437	0.97 (0.92-1.03)	0.313
Post-contrast T1-Mapping (per 10 ms)	0.94 (0.88-1.00)	0.057	0.94 (0.88-1.01)	0.113
ECV (%)	1.09 (0.99-1.20)	0.081	1.06 (0.97-1.16)	0.206
T2-Mapping (ms)	1.02 (0.97-1.08)	0.332	0.99 (0.94-1.05)	0.764
ARD patients (compared with controls)	6.25 (2.46-15.90)	<0.001*	5.02 (1.82-13.84)	0.002*

ARD autoimmune rheumatic disease; LV- / RV left/right ventricular; EDV/ESV end-diastolic/-systolic volume; EF ejection fraction; EGE/LGE early/late gadolinium enhancement; ECV extracellular volume fraction

Supplementary Table 2. Results of univariable and multivariable ordered logistic regression analysis for predicting higher numbers of deep white matter lesions. Multivariable corrections were applied for age and sex.

Variable	Univariable Ordered Logistic Regression		Multivariable Ordered Logistic Regression	
	OR (95% CI)	p-value	OR (95% CI)	p-value
LVEDV (per 5 mL)	1.01 (0.97-1.05)	0.720	1.03 (0.99-1.08)	0.135
LVESV (per 5 mL)	1.02 (0.96-1.08)	0.511	1.05 (0.99-1.12)	0.101
LVEF (per 5%)	0.90 (0.71-1.14)	0.395	0.83 (0.64-1.06)	0.135
RVEDV (per 5 mL)	0.99 (0.94-1.03)	0.553	1.01 (0.96-1.07)	0.622
RVESV (per 5 mL)	0.98 (0.90-1.08)	0.693	1.03 (0.93-1.14)	0.553
RVEF (per 5%)	1.05 (0.77-1.43)	0.768	0.97 (0.71-1.33)	0.843
T2 Signal Ratio	1.08 (0.43-2.68)	0.871	0.79 (0.29-2.15)	0.643
EGE (%)	0.92 (0.78-1.08)	0.300	0.92 (0.78-1.08)	0.297
LGE (%)	1.09 (0.99-1.20)	0.067	1.09 (0.99-1.21)	0.091
Native T1-Mapping (per 10 ms)	1.02 (0.97-1.07)	0.407	0.98 (0.93-1.04)	0.608
Post-contrast T1-Mapping (per 10 ms)	0.93 (0.87-0.99)	0.046*	0.94 (0.87-1.01)	0.073
ECV (%)	1.19 (1.04-1.35)	0.007*	1.16 (1.01-1.33)	0.031*
T2-Mapping (ms)	1.03 (0.98-1.08)	0.310	1.00 (0.95-1.06)	0.916
ARD patients (compared with controls)	4.90 (1.76-13.67)	0.002*	4.69 (1.49-14.74)	0.008*

ARD autoimmune rheumatic disease; LV- / RV left/right ventricular; EDV/ESV end-diastolic/-systolic volume; EF ejection fraction; EGE/LGE early/late gadolinium enhancement; ECV extracellular volume fraction

Supplementary Table 3. Results of univariable and multivariable ordered logistic regression analysis for predicting higher numbers of periventricular white matter lesions. Multivariable corrections were applied for age and sex.

Variable	Univariable Ordered Logistic Regression		Multivariable Ordered Logistic Regression	
	OR (95% CI)	p-value	OR (95% CI)	p-value
LVEDV (per 5 mL)	1.00 (0.96-1.05)	0.895	1.01 (0.96-1.06)	0.708
LVESV (per 5 mL)	1.01 (0.95-1.07)	0.770	1.02 (0.96-1.08)	0.608
LVEF (per 5%)	1.03 (0.78-1.35)	0.844	0.99 (0.75-1.31)	0.962
RVEDV (per 5 mL)	0.99 (0.94-1.04)	0.675	0.99 (0.93-1.05)	0.766
RVESV (per 5 mL)	0.97 (0.87-1.07)	0.522	0.97 (0.86-1.09)	0.611
RVEF (per 5%)	1.30 (0.88-1.91)	0.193	1.23 (0.83-1.82)	0.298
T2 Signal Ratio	0.47 (0.15-1.42)	0.180	0.35 (0.10-1.20)	0.095
EGE (%)	0.90 (0.72-1.13)	0.355	0.90 (0.72-1.13)	0.371
LGE (%)	1.06 (0.95-1.19)	0.290	1.06 (0.95-1.19)	0.320
Native T1-Mapping (per 10 ms)	0.98 (0.92-1.05)	0.580	0.96 (0.90-1.04)	0.305
Post-contrast T1-Mapping (per 10 ms)	1.02 (0.94-1.11)	0.579	1.03 (0.95-1.12)	0.455
ECV (%)	1.08 (0.95-1.23)	0.251	1.08 (0.94-1.25)	0.277
T2-Mapping (ms)	0.99 (0.93-1.06)	0.738	0.98 (0.91-1.05)	0.476
ARD patients (compared with controls)	3.63 (1.12-11.86)	0.032*	4.82 (1.28-18.1)	0.020*

ARD autoimmune rheumatic disease; LV- / RV left/right ventricular; EDV/ESV end-diastolic/-systolic volume; EF ejection fraction; EGE/LGE early/late gadolinium enhancement; ECV extracellular volume fraction

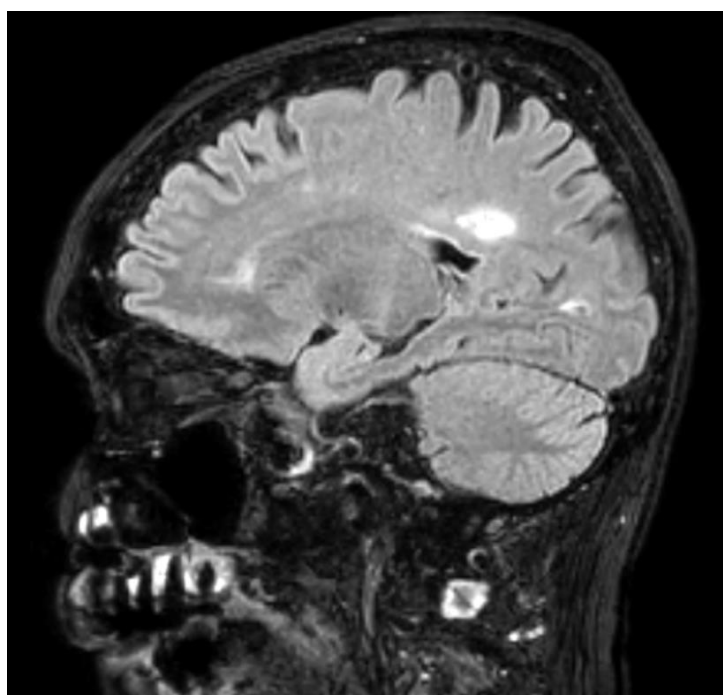


Figure 1. A fluid attenuation inversion recovery (FLAIR) image from a patient with sarcoidosis showing silent white matter hyperintensities.