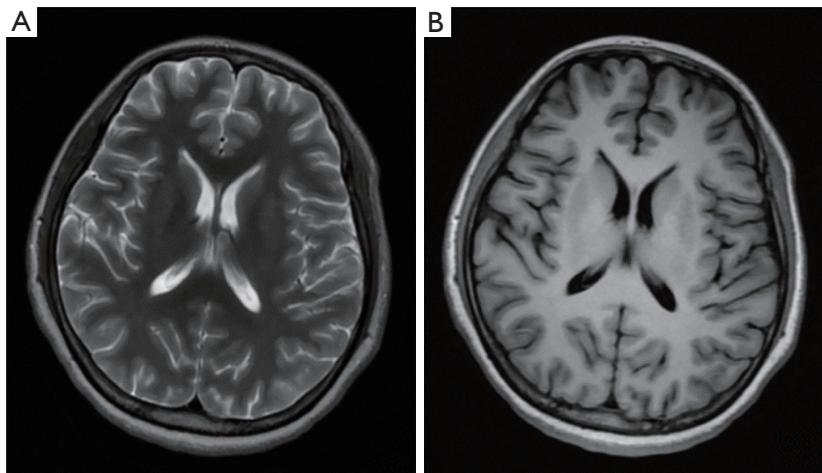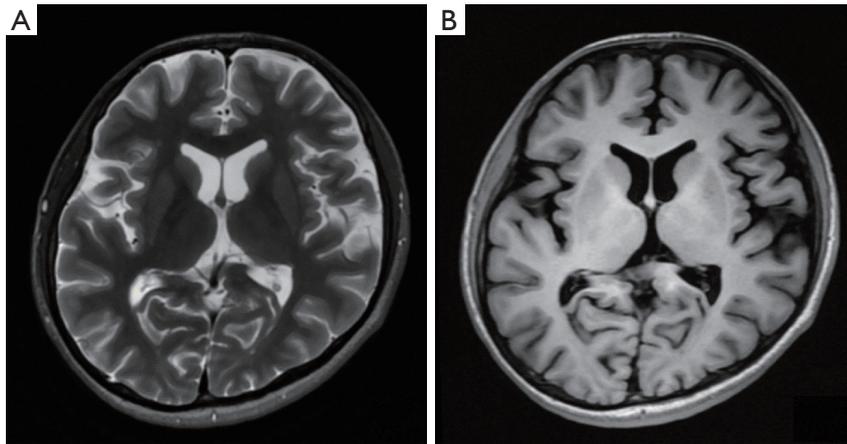**Figure S1** Structural brain MRI images of patient 32. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S2 Structural brain MRI images of patient 1. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
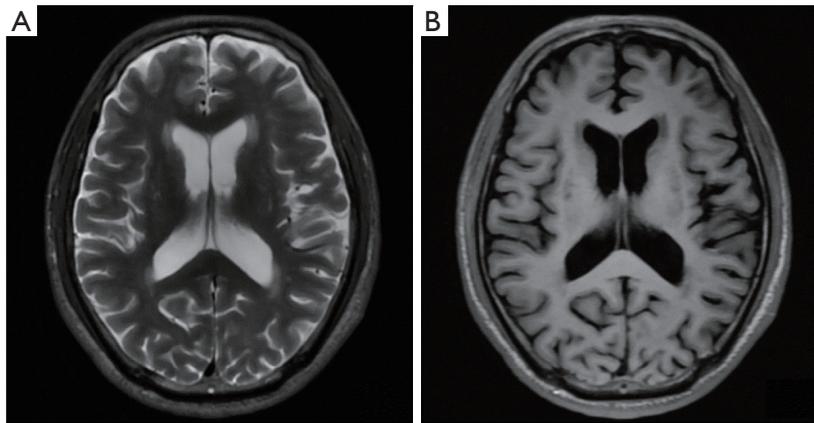
Figure S3 Structural brain MRI images of patient 2. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S4 Structural brain MRI images of patient 3. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

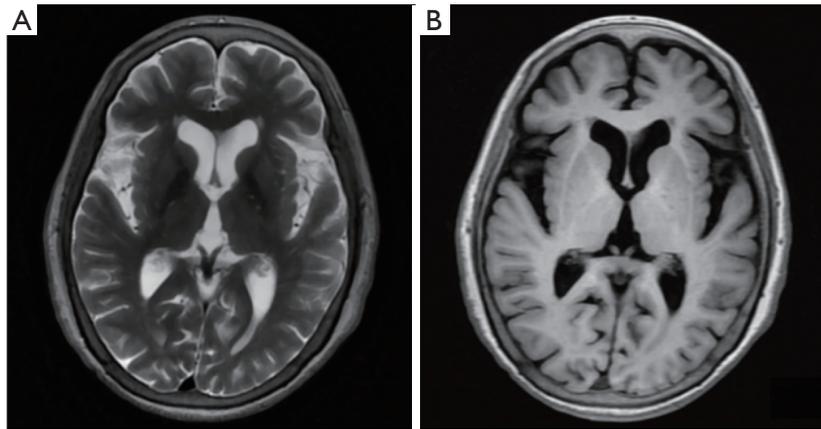**Figure S5** Structural brain MRI images of patient 4. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
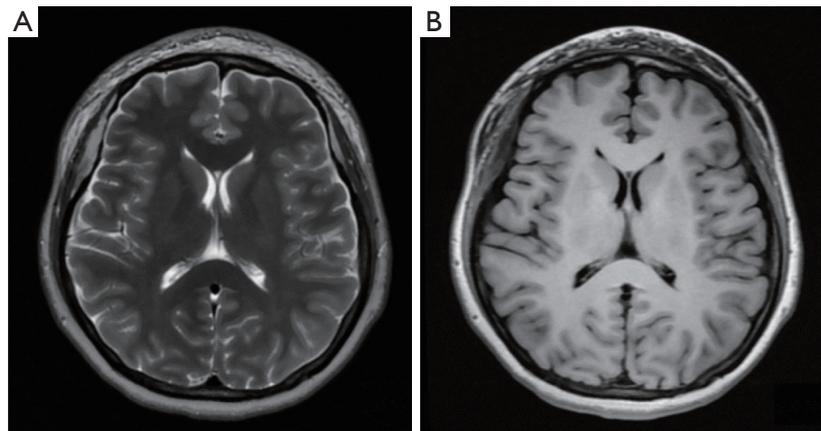

Figure S6 Structural brain MRI images of patient 5. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
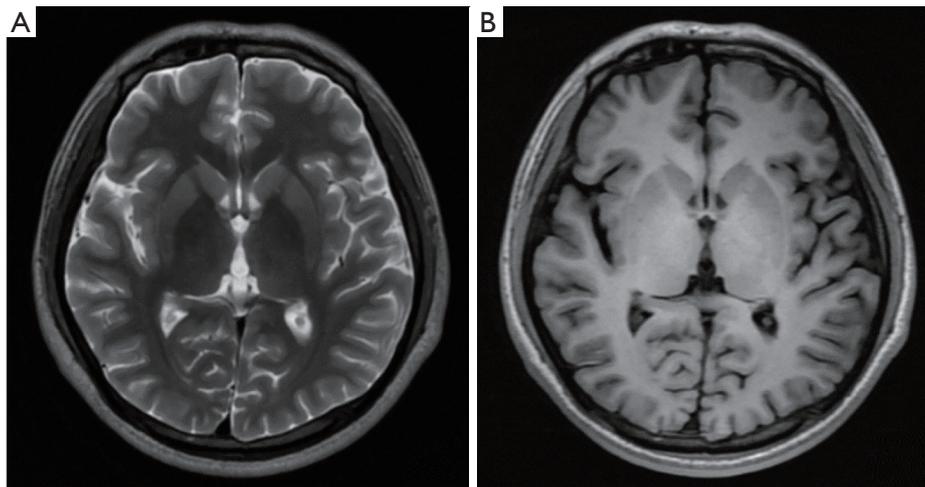
Figure S7 Structural brain MRI images of patient 6. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
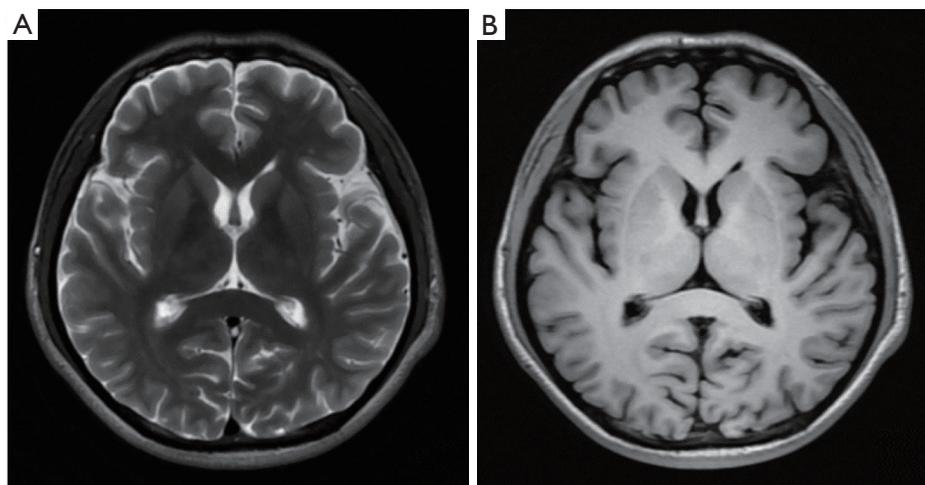

Figure S8 Structural brain MRI images of patient 7. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
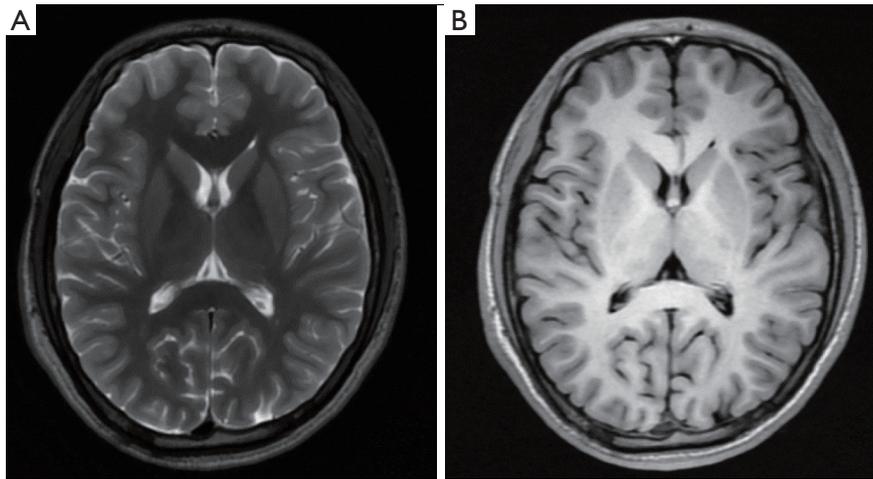
Figure S9 Structural brain MRI images of patient 8. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S10 Structural brain MRI images of patient 9. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
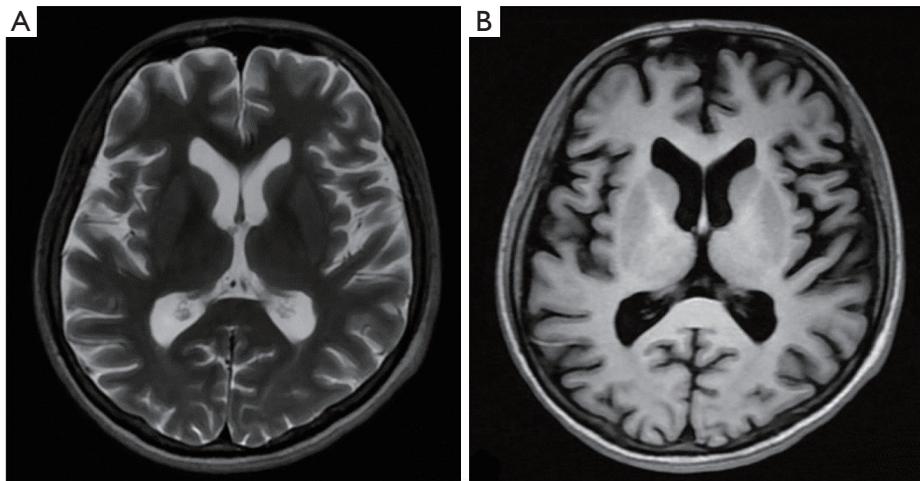
Figure S11 Structural brain MRI images of patient 10. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S12 Structural brain MRI images of patient 11. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
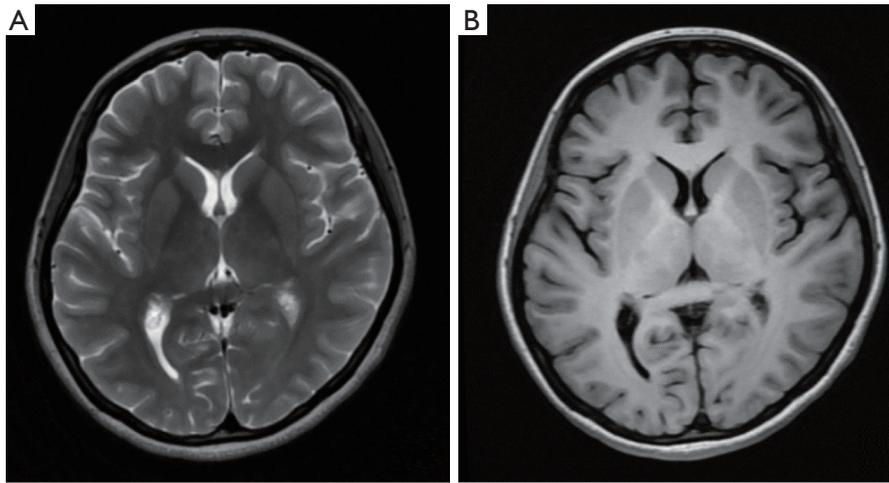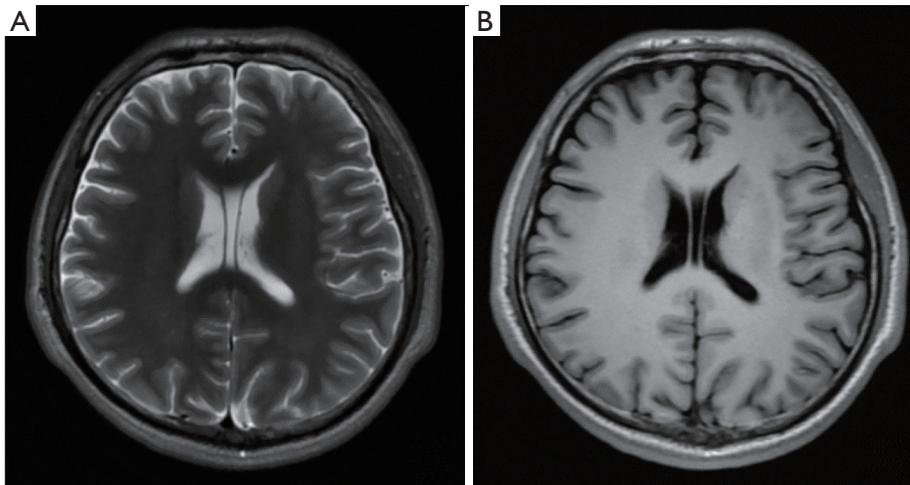
Figure S13 Structural brain MRI images of patient 12. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S14 Structural brain MRI images of patient 13. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
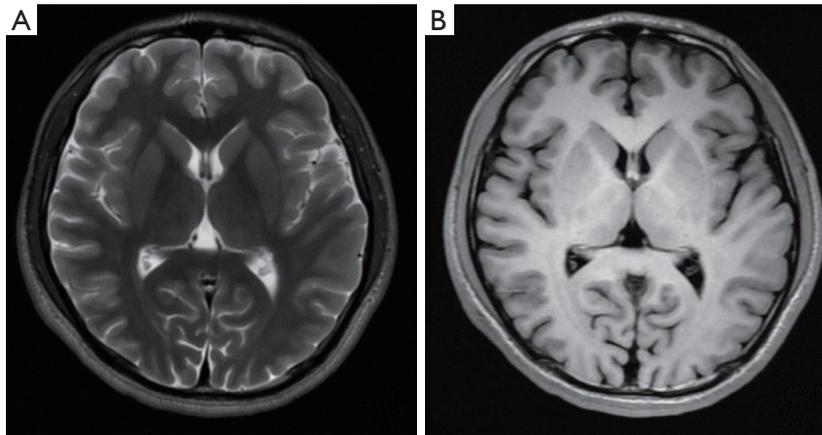
Figure S15 Structural brain MRI images of patient 14. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
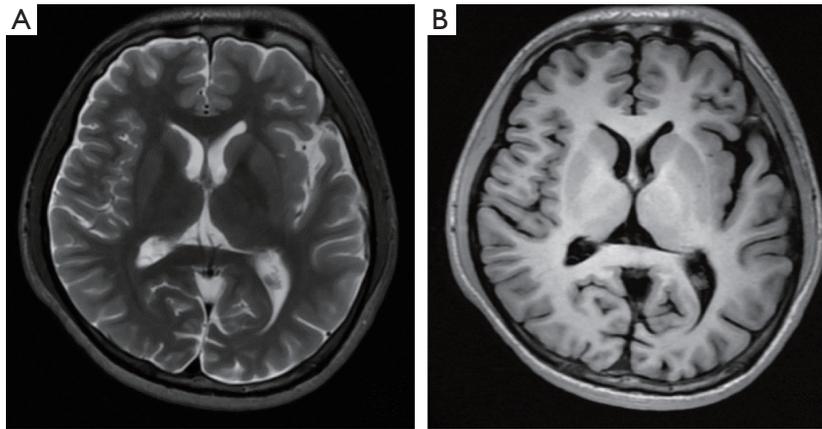

Figure S16 Structural brain MRI images of patient 15. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
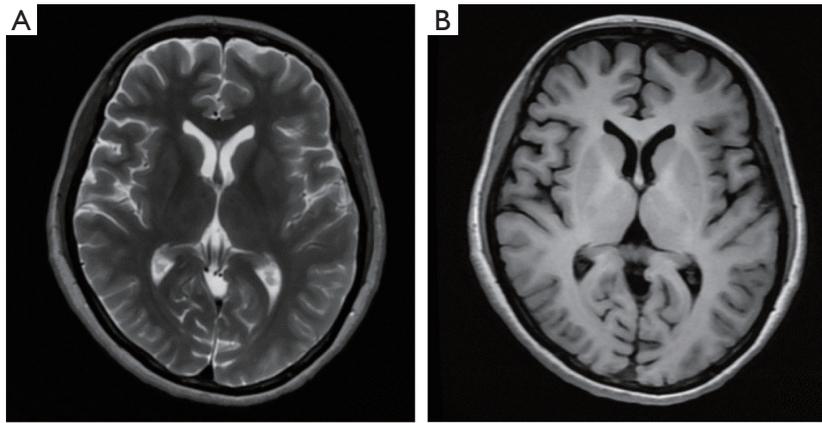
Figure S17 Structural brain MRI images of patient 16. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S18 Structural brain MRI images of patient 17. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
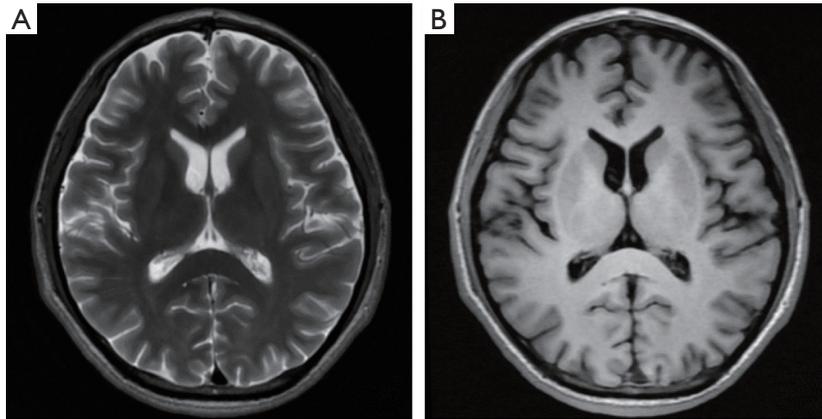
Figure S19 Structural brain MRI images of patient 18. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S20 Structural brain MRI images of patient 19. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
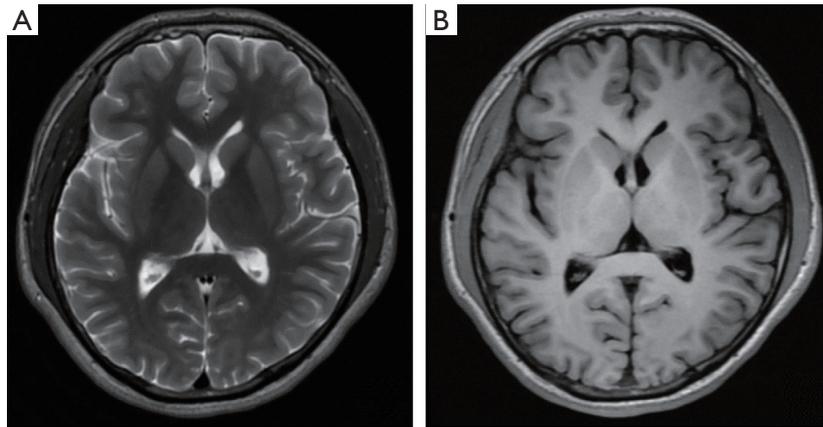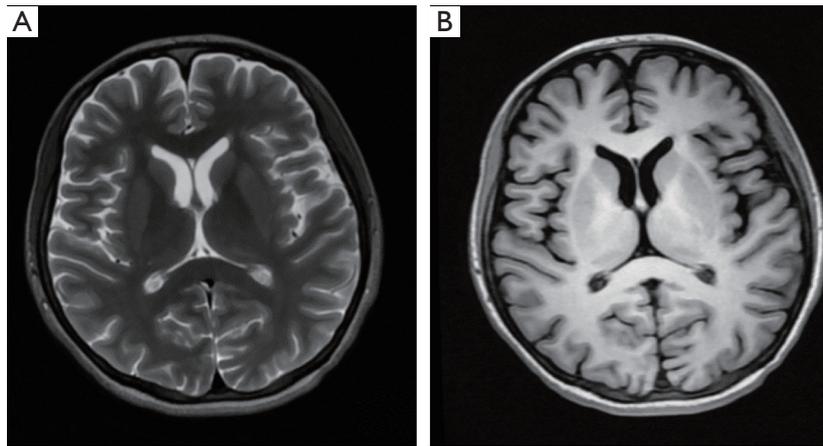
Figure S21 Structural brain MRI images of patient 20. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S22 Structural brain MRI images of patient 21. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
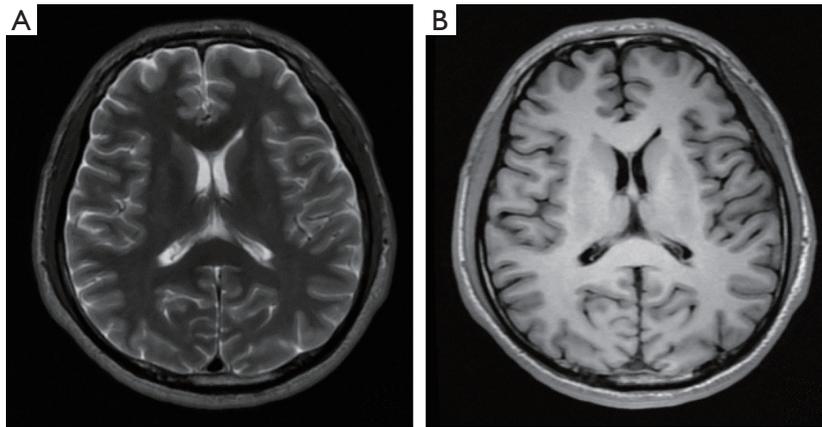
Figure S23 Structural brain MRI images of patient 22. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Figure S24 Structural brain MRI images of patient 23. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
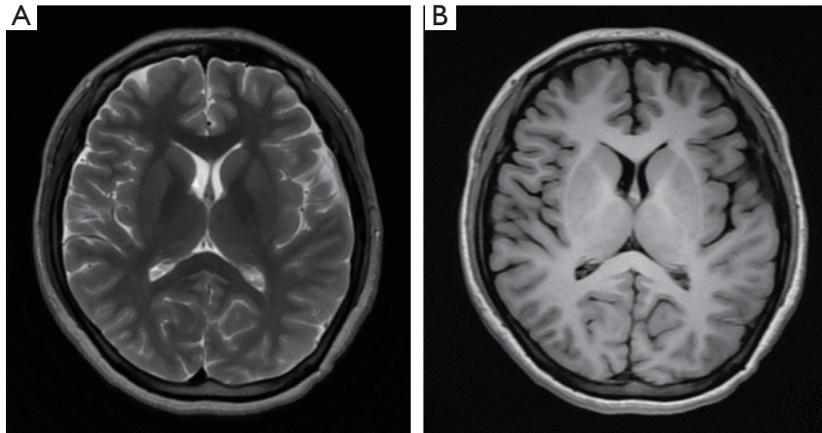
Figure S25 Structural brain MRI images of patient 24. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
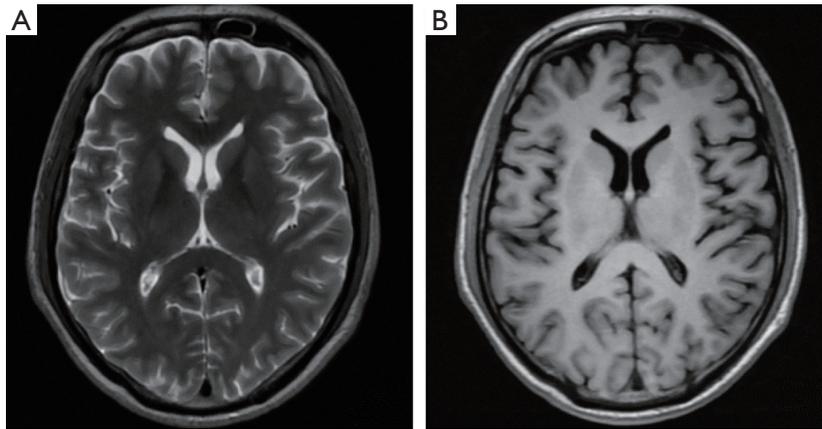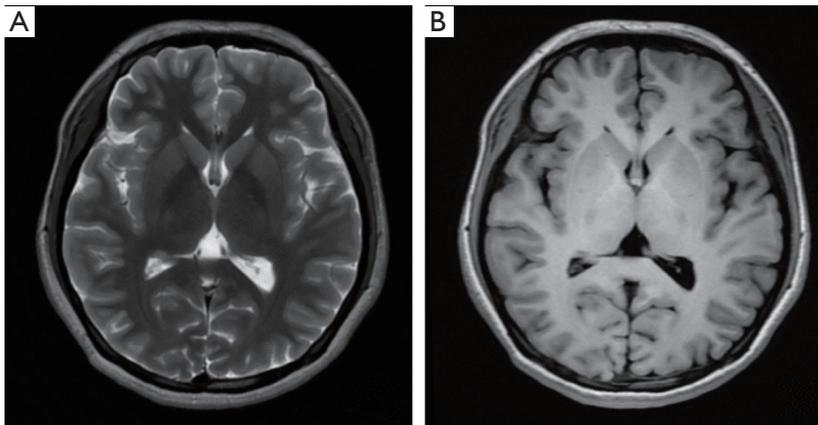

Figure S26 Structural brain MRI images of patient 25. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
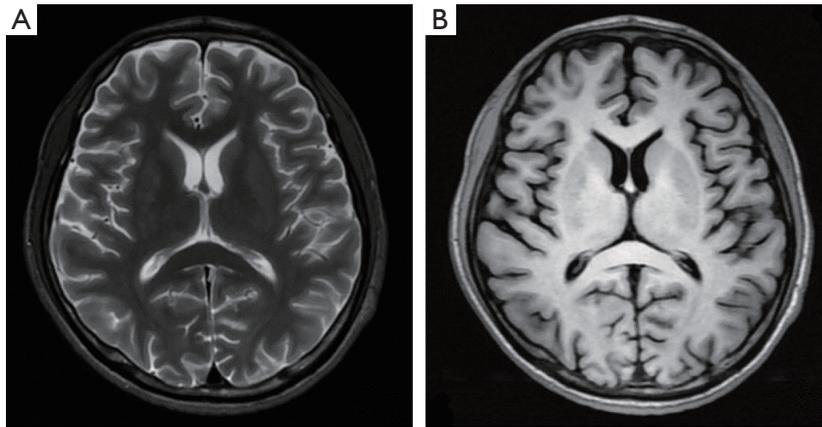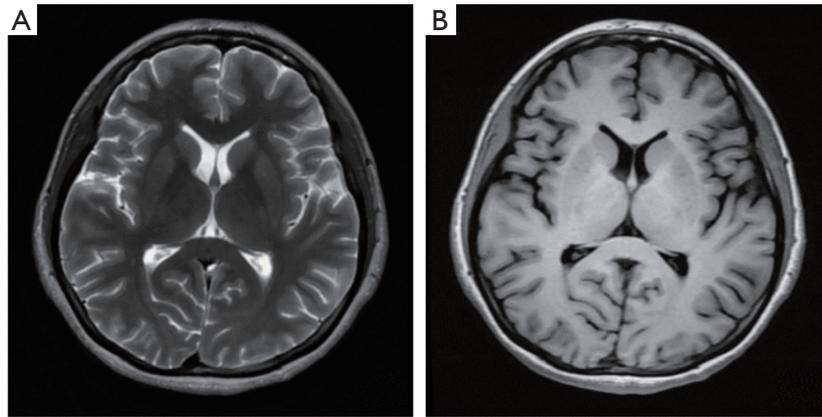
Figure S27 Structural brain MRI images of patient 26. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
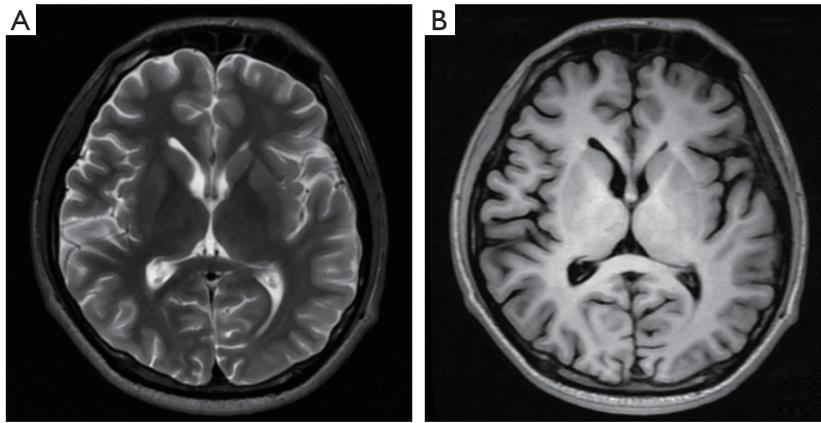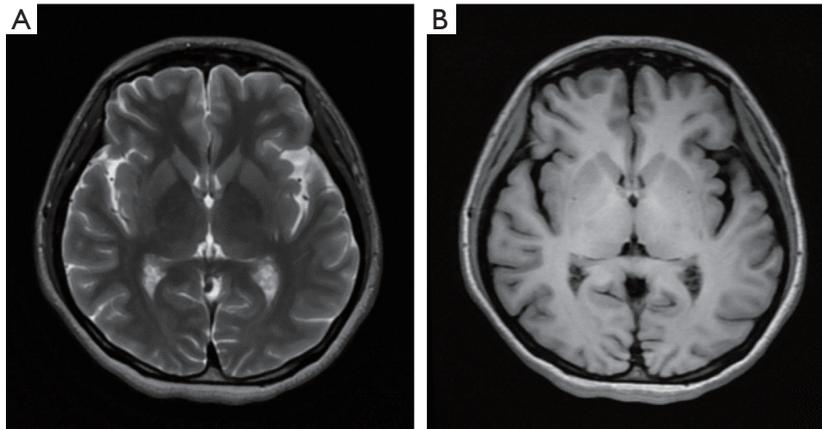

Figure S28 Structural brain MRI images of patient 27. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
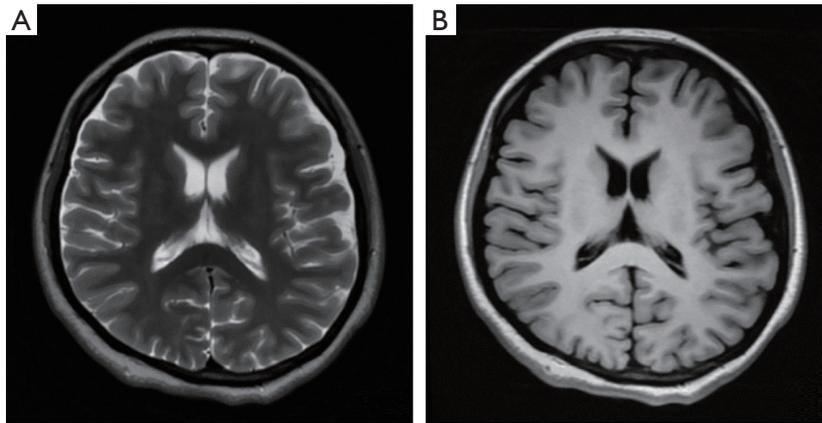
Figure S29 Structural brain MRI images of patient 28. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
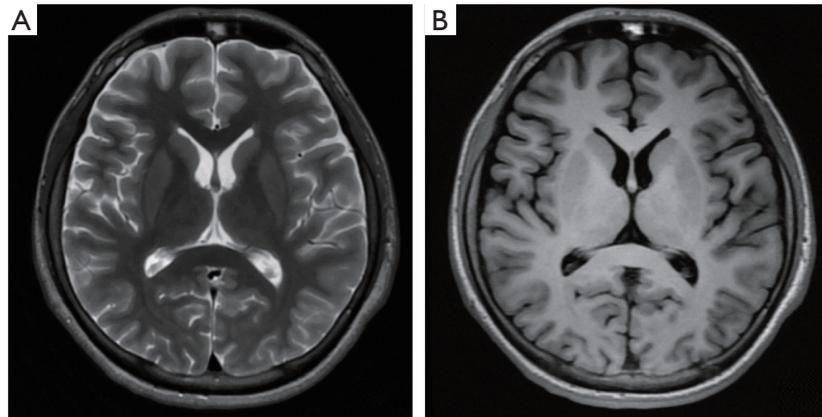
Figure S30 Structural brain MRI images of patient 29. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
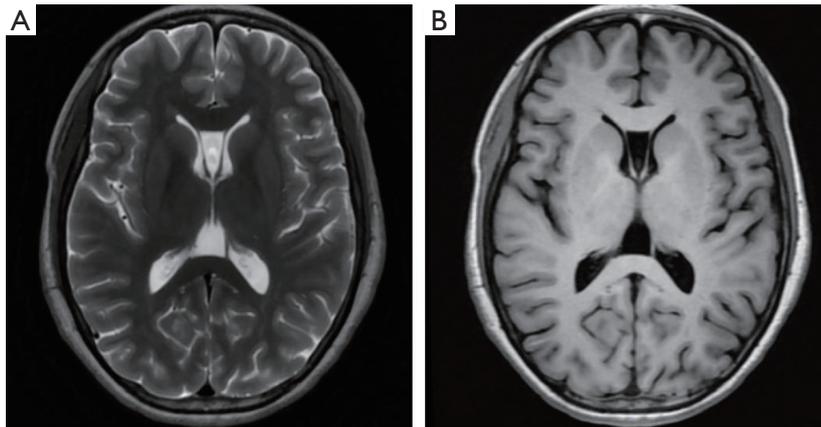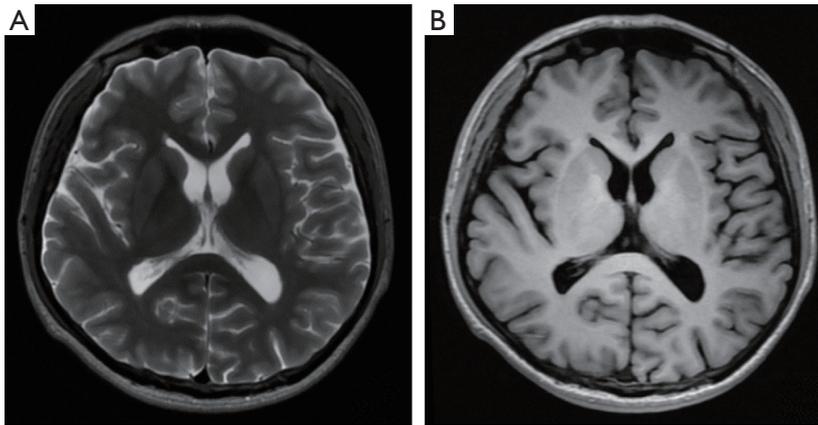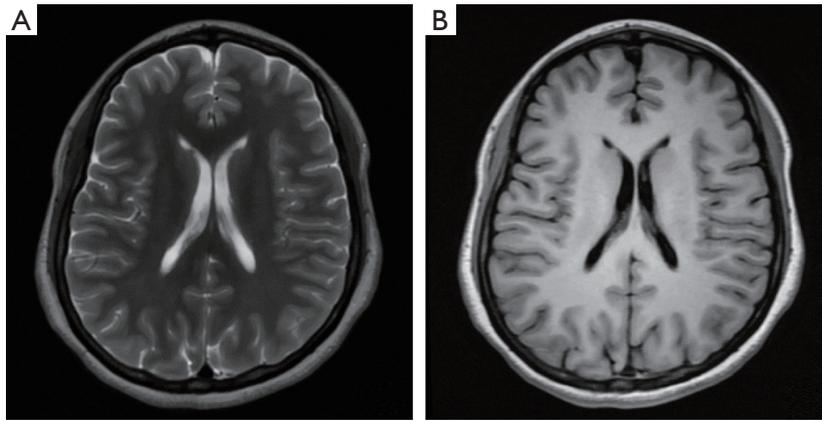
Figure S31 Structural brain MRI images of patient 30. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.
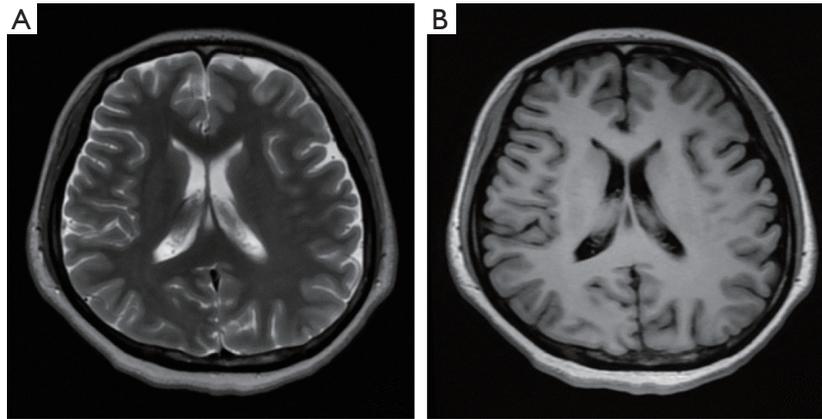
Figure S32 Structural brain MRI images of patient 31. (A) T2-weighted image. (B) T1-FLAIR image. MRI, magnetic resonance imaging; T1-FLAIR, T1-weighted fluid-attenuated inversion recovery.

Table S1 Subscores of MMSE and MoCA of study participants

Demographics		EMTB	HC	P value
MMSE	Time orientation	4.81±0.59	4.97±0.18	0.169
	Place orientation	4.22±0.79	4.77±0.43	0.001*
	Immediate memory	2.97±0.65	3.00±0.00	0.792
	Attention and calculation	4.53±1.11	4.87±0.35	0.117
	Recall	2.38±0.87	2.57±0.82	0.376
	Language	7.88±0.42	7.97±0.18	0.276
	Copying (structure)	0.97±0.18	1.00±0.00	0.337
MoCA	Visuospatial abilities	4.19±0.97	4.43±0.90	0.304
	Naming	2.59±0.84	2.83±0.38	0.156
	Attention and calculation	5.69±0.78	5.97±0.18	0.061
	Language	2.13±0.75	2.07±0.69	0.752
	Abstraction	1.28±0.77	1.63±0.62	0.053
	Recall	2.97±1.56	3.00±1.64	0.939
	Orientation	5.84±0.72	5.97±0.18	0.370

*, $P<0.05$. EMTB, extracranial multi-organ tuberculosis; HC, healthy control; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment.
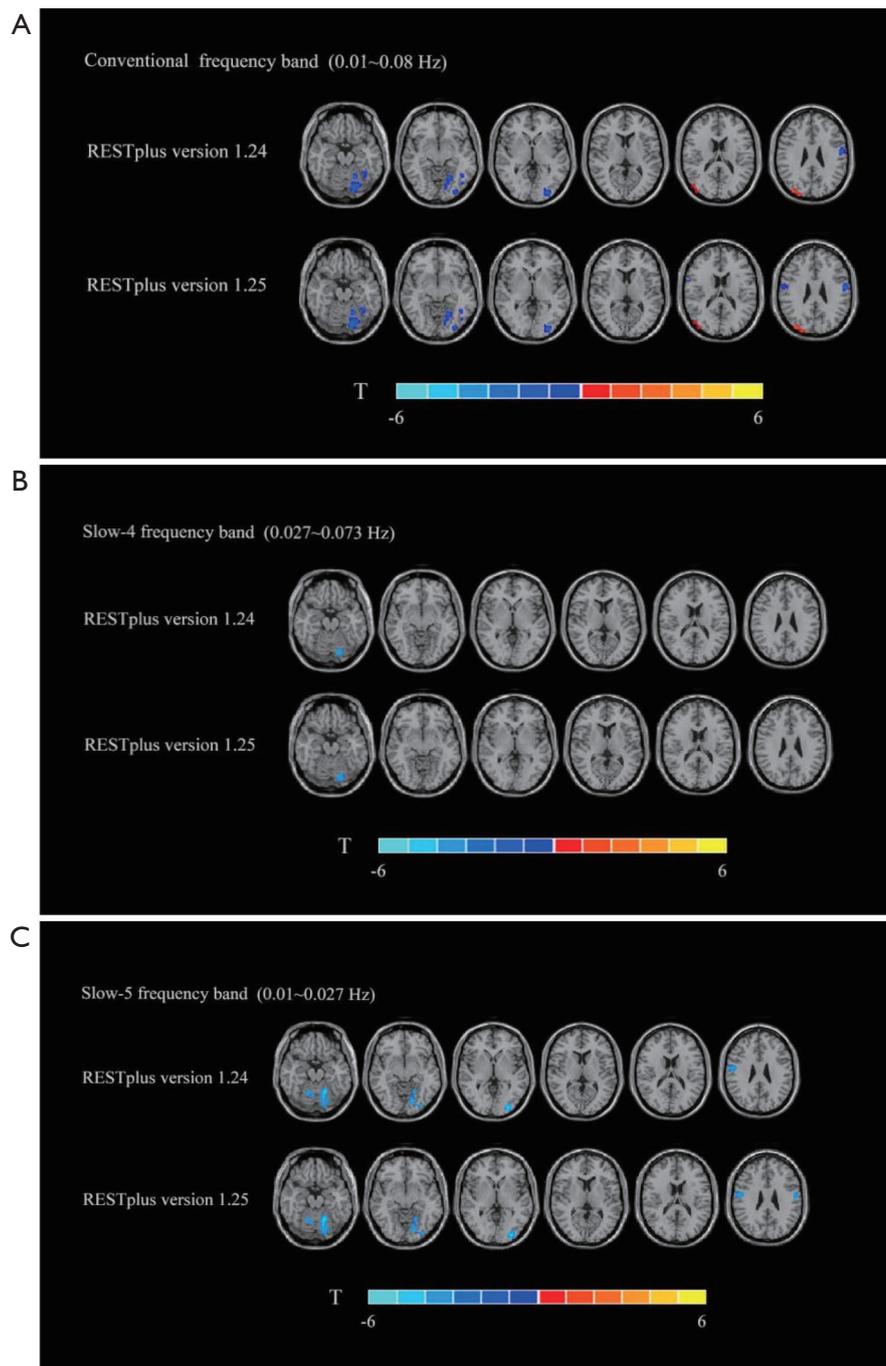
Figure S33 The comparison of ReHo maps between RESTplus (version 1.24) and RESTplus (version 1.25) in the 3 frequency bands. The comparison of ReHo maps between RESTplus (version 1.24) and RESTplus (version 1.25) in the conventional frequency band. (B) The comparison of ReHo maps between RESTplus (version 1.24) and RESTplus (version 1.25) in the slow-4 frequency band. (C) The comparison of ReHo maps between RESTplus (version 1.24) and RESTplus (version 1.25) in the slow-5 frequency band.

Table S2 Correlation analysis between differential brain region ReHo values and neuropsychological test scores in patients with extracranial multi-organ TB and healthy controls

| Brain region	MMSE		MoCA		TMT-A		TMT-B		CDT		VFT		DST forward		DST backward		RAVLT		RAVLT-I		RAVLT-II		SDMT	
	r	P	r	P	r	P	r	P	r	P	r	P	r	P	r	P	r	P	r	P	r	P	r	P
Conventional band (0.01–0.08 Hz)																								
Cerebellum_Crus1_L	0.211	0.245	0.073	0.692	−0.281	0.119	−0.251	0.166	−0.106	0.563	0.307	0.087	0.025	0.892	−0.07	0.702	0.186	0.308	0.166	0.364	0.228	0.21	0.147	0.423
Occipital_Mid_R	0.172	0.347	−0.134	0.464	−0.094	0.608	0.022	0.903	−0.199	0.275	0.056	0.759	−0.24	0.185	0.05	0.786	0.011	0.954	0.029	0.876	−0.045	0.805	0.054	0.77
Postcentral_L	0.029	0.875	0.323	0.071	−0.112	0.541	−0.306	0.089	0.202	0.267	0.284	0.115	0.536*	0.002	0.404*	0.022	0.406*	0.021	0.393*	0.026	0.402*	0.023	0.425*	0.015
Slow-4 (0.027–0.073 Hz)																								
Cerebellum_Crus1_L	0.235	0.195	0.142	0.439	-0.264	0.144	-0.29	0.108	0.052	0.777	0.199	0.276	0.16	0.383	-0.02	0.912	0.172	0.346	0.148	0.418	0.227	0.212	0.098	0.593
Slow-5 (0.01–0.027 Hz)																								
Cerebellum_6_L	−0.174	0.341	−0.234	0.197	0.149	0.417	0.222	0.222	−0.339	0.058	−0.118	0.522	−0.028	0.88	0.166	0.364	−0.197	0.279	−0.178	0.329	−0.234	0.197	−0.166	0.364
Postcentral_R	0.136	0.459	0.187	0.305	−0.167	0.36	−0.253	0.162	0.066	0.72	0.047	0.796	0.447*	0.01	0.370*	0.037	0.138	0.45	0.161	0.377	0.055	0.764	0.328	0.066

*, P<0.05. Cerebellum_Crus1_L, left superior cerebellum; Occipital_Mid_R, right middle occipital gyrus; Postcentral_L, left postcentral gyrus; Cerebellum_6_L, left superior cerebellum; Postcentral_R, right postcentral gyrus; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; s, second; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; DST, Digital Span Test; RAVLT-I, Rey Auditory Verbal Learning Test (total immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); SDMT, Symbol-Digit Modalities Test; TB, tuberculosis.
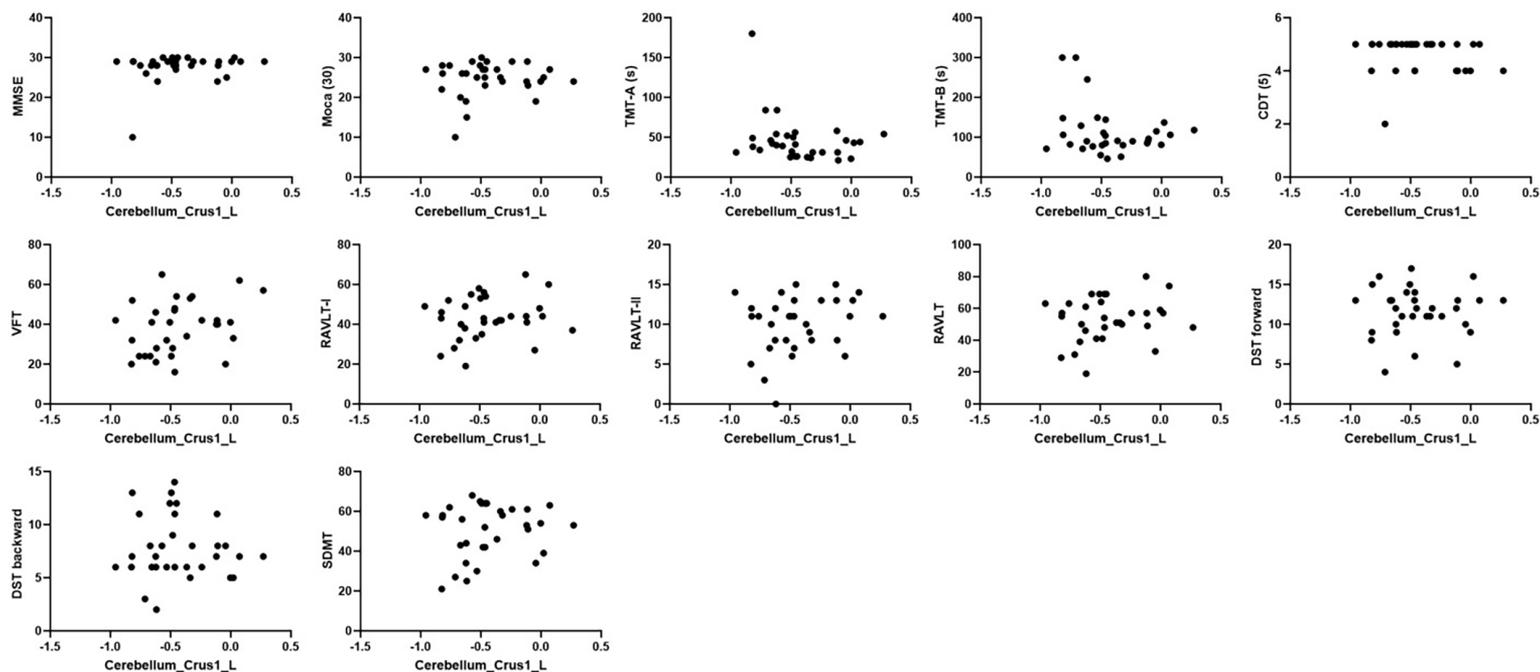
Figure S34 The correlation between the ReHo value of the left superior cerebellum in patients with EMTB in the conventional band and neuropsychological test scores. Cerebellum_Crus1_L, left superior cerebellum; DST, Digital Span Test; EMTB, extracranial multi-organ tuberculosis; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; RAVLT-I, Rey Auditory Verbal Learning Test (immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); ReHo, regional homogeneity; SDMT, Symbol-Digit Modalities Test.
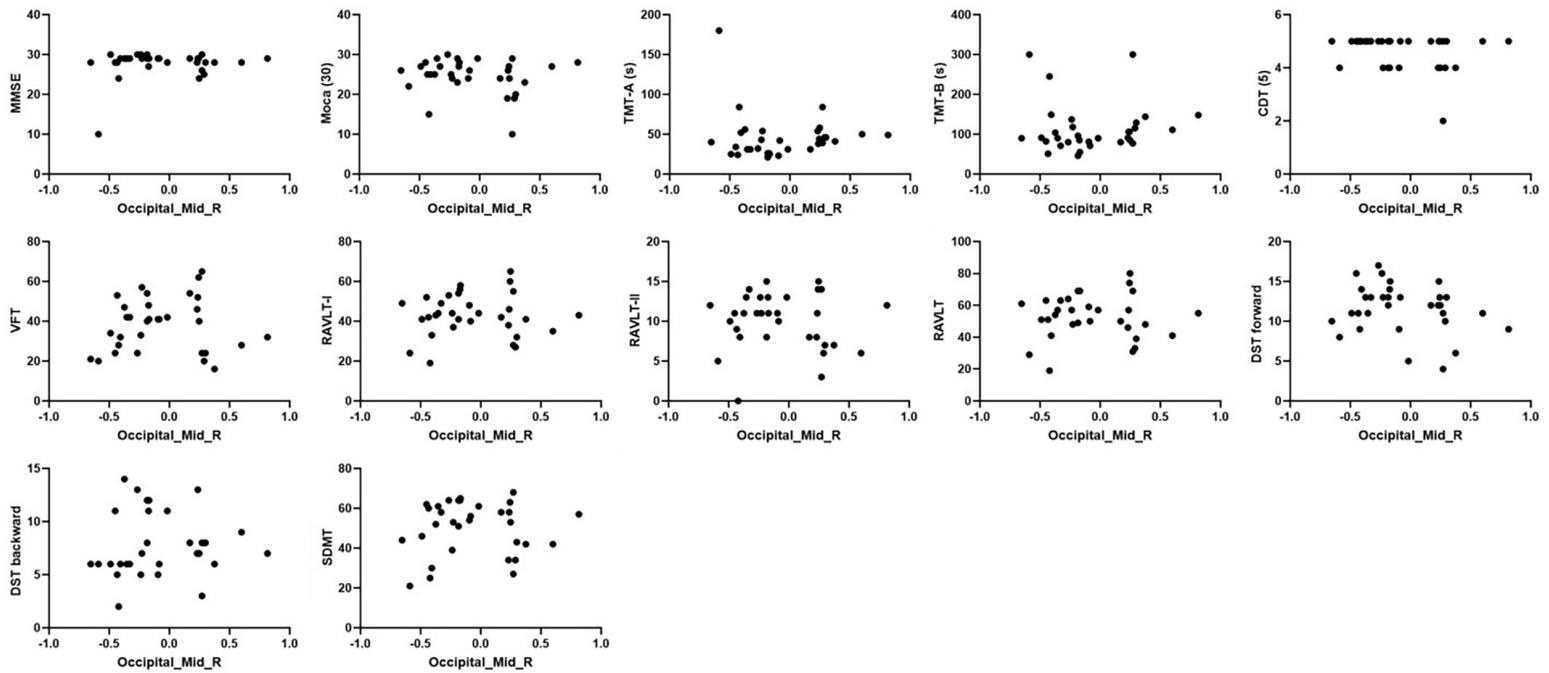
Figure S35 The correlation between the ReHo value of the right middle occipital gyrus in patients with EMTB in the conventional band and neuropsychological test scores. Occipital_Mid_R, right middle occipital gyrus; DST, Digital Span Test; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; RAVLT-I, Rey Auditory Verbal Learning Test (immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); SDMT, Symbol-Digit Modalities Test; ReHo, regional homogeneity.
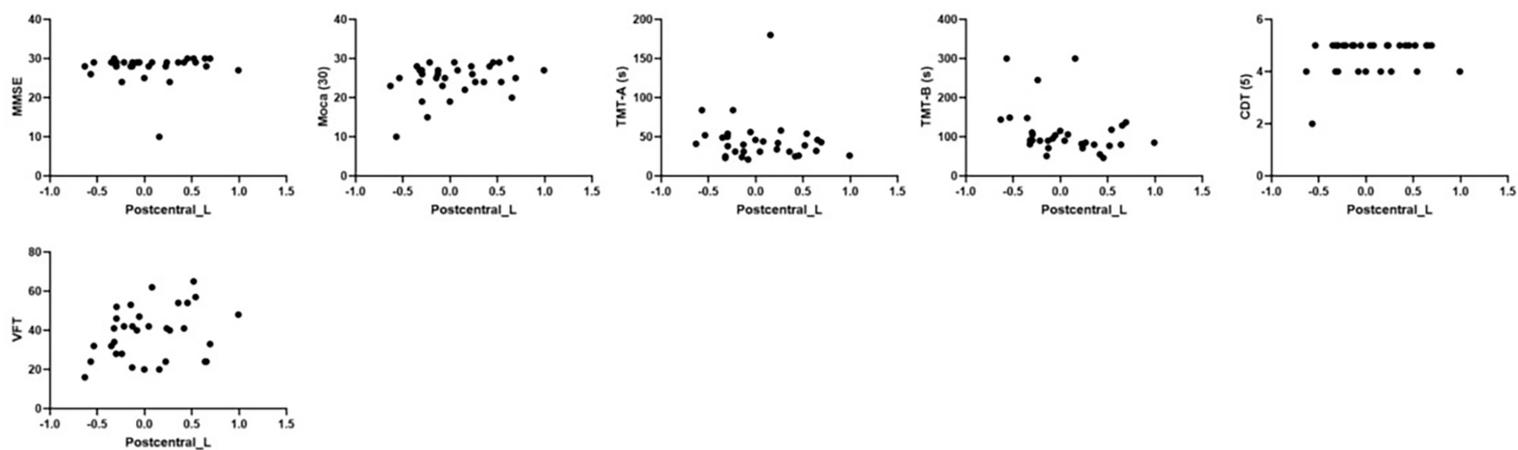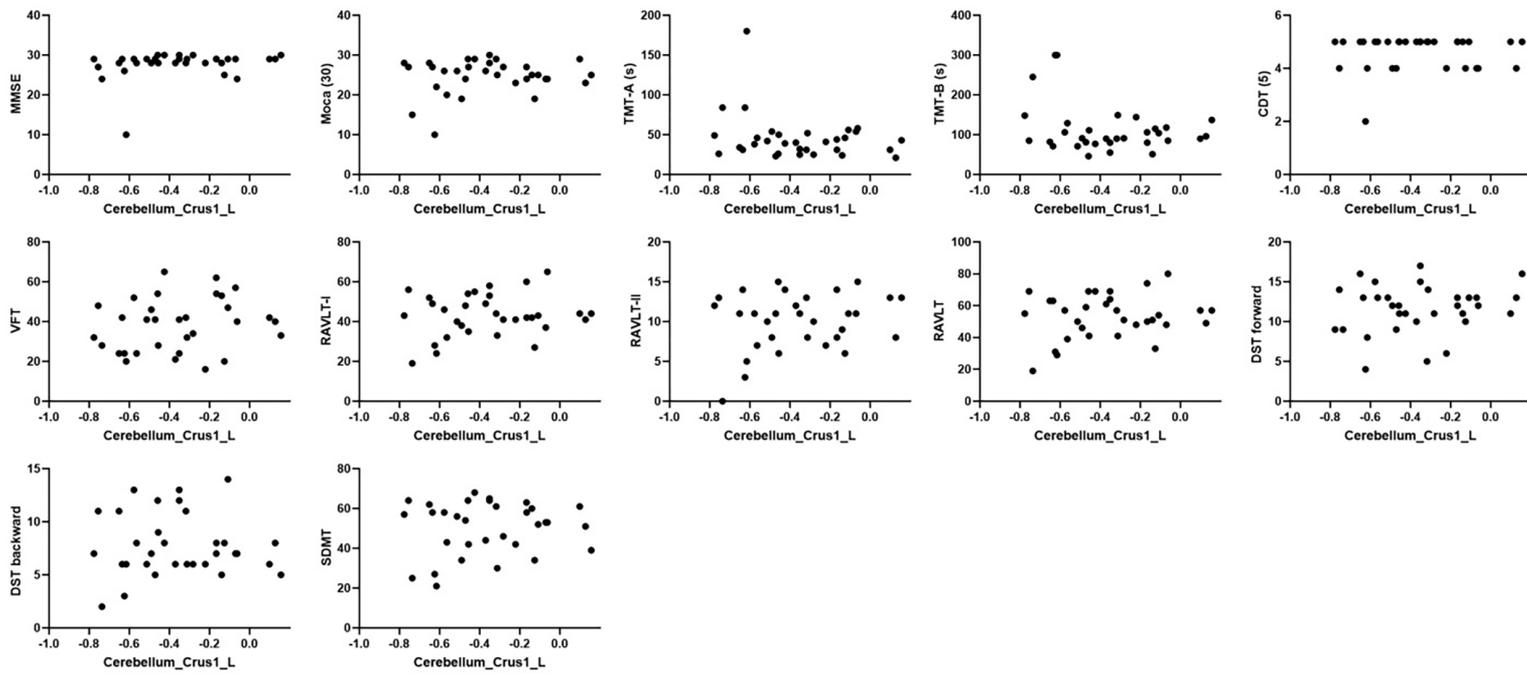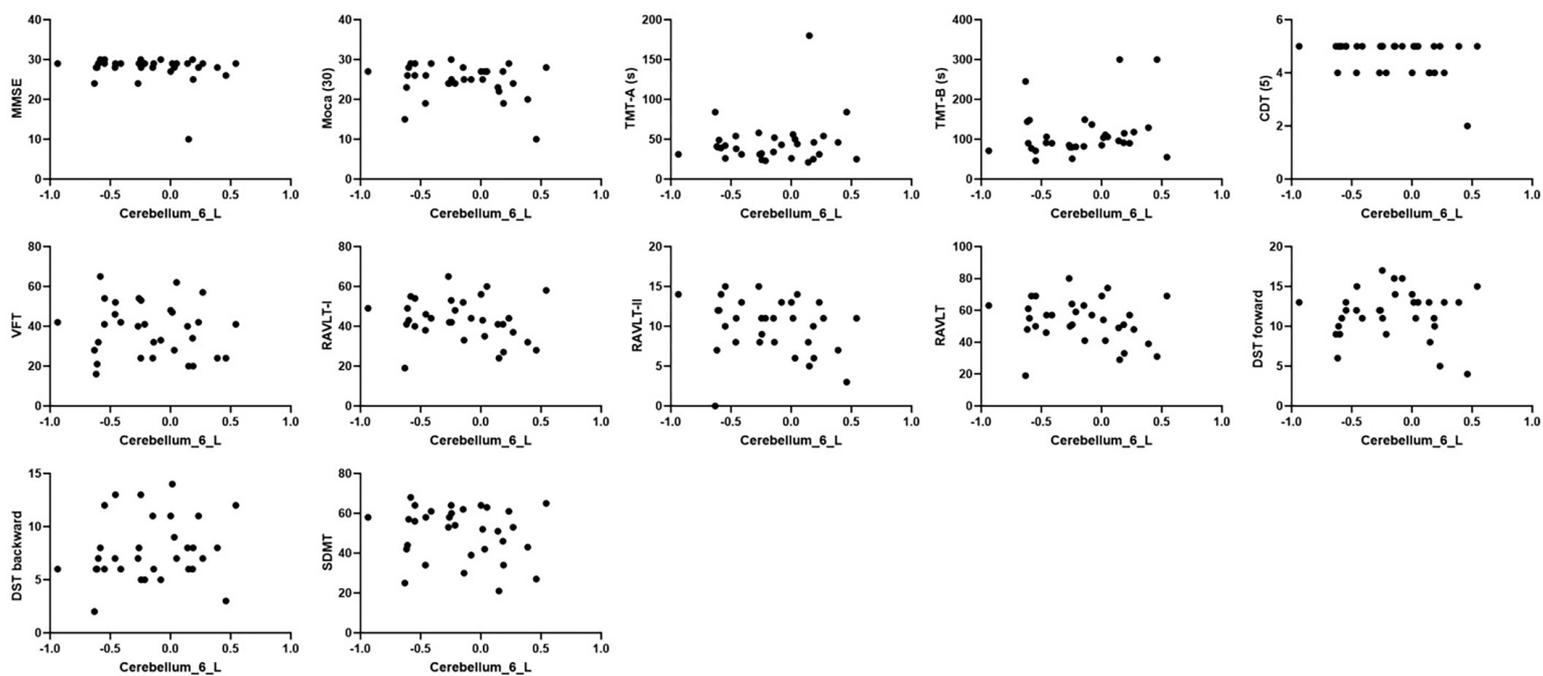
Figure S36 The correlation between the ReHo value of the left postcentral gyrus in patients with EMTB in the conventional band and neuropsychological test scores. Postcentral_L, left postcentral gyrus; EMTB, extracranial multi-organ tuberculosis; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; ReHo, regional homogeneity.

Figure S37 The correlation between the ReHo value of the superior cerebellum in patients with EMTB in the slow-4 band and neuropsychological test scores. Cerebellum_Crus1_L, left superior cerebellum; DST, Digital Span Test; EMTB, extracranial multi-organ tuberculosis; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; RAVLT-I, Rey Auditory Verbal Learning Test (immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); ReHo, regional homogeneity; SDMT, Symbol-Digit Modalities Test.
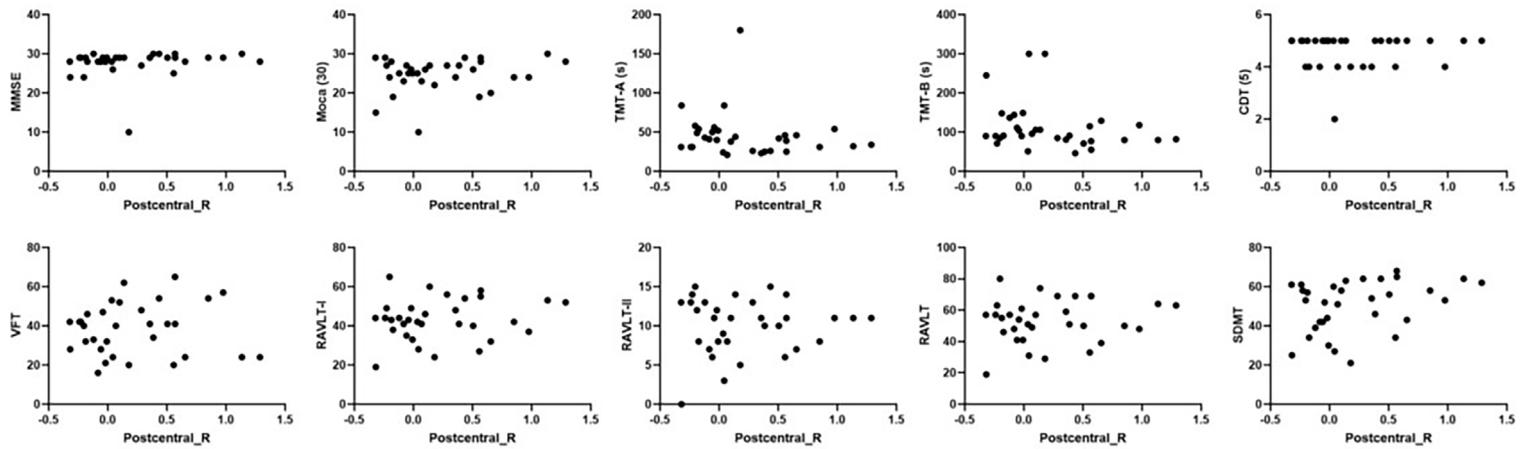
Figure S38 The correlation between the ReHo value of the left superior cerebellum in patients with EMTB in the slow-5 band and neuropsychological test scores. Cerebellum_6_L, left superior cerebellum; DST, Digital Span Test; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; RAVLT-I, Rey Auditory Verbal Learning Test (immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); SDMT, Symbol-Digit Modalities Test; ReHo, regional homogeneity.

Figure S39 The correlation between the ReHo value of the right postcentral gyrus in patients with EMTB in the slow-5 band and neuropsychological test scores. Postcentral_R, right postcentral gyrus; EMTB, extracranial multi-organ tuberculosis; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; TMT, Trail Making Test; CDT, Clock Drawing Test; VFT, Verbal Fluency Test; RAVLT-I, Rey Auditory Verbal Learning Test (immediate recall); RAVLT-II, Rey Auditory Verbal Learning Test (delayed recall); RAVLT, Rey Auditory Verbal Learning Test (total score); SDMT, Symbol-Digit Modalities Test; ReHo, regional homogeneity.