

Supplemental Table I The brain regions where MD in the LMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	MD		P-value
X	Y	Z				LMTLE	Control	
-19	49	7	493	Left	forceps minor	1.02±0.17	0.76±0.06	0.015
18	53	6	679	Right	forceps minor	1.01±0.06	0.70±0.05	0.030
0	28	9	3564	—	forceps minor	0.99±0.03	0.82±0.13	0.029
0	-29	22	4119	—	forceps major	0.99±0.03	0.85±0.12	0.027
-37	-29	0	115	Left	inferior ronto-occipital fasciculus	1.01±0.06	0.79±0.07	0.020
32	-23	1	97	Right	inferior ronto-occipital fasciculus	0.99±0.05	0.90±0.05	0.019
-26	18	2	89	Left	uncinate fasciulus	1.06±0.06	0.93±0.06	0.027
-19	-57	43	224	Left	inferior longitudinal	1.09±0.04	0.95±0.05	0.037

					fasciculus			
23	-53	40	96	Right	inferior longitudinal	1.00±0.03	0.90±0.05	0.041
					fasciculus			
18	-44	25	88	Left	anterior thalamic radiation	0.10±0.05	0.76±0.06	0.020
23	-42	28	102	Right	anterior thalamic radiation	0.98±0.11	0.80±0.05	0.040

MD: mean diffusivity; LMTLE: left mesial temporal lobe epilepsy

Supplemental Table II The brain regions where MD in the RMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	MD		P-value
X	Y	Z				RMTLE	Control	
21	-23	41	2844	Right	corticospinal tract	0.99±0.05	0.77±0.05	0.017
44	-10	-22	1712	Right	inferior longitudinal fasciculus	1.06±0.06	0.73±0.07	0.018
20	-38	32	136	Right	cingulum	1.09±0.14	0.85±0.05	0.028
42	-14	-17	447	Right	uncinate fasciulus	1.06±0.05	0.90±0.10	0.022
38	-24	33	197	Right	superior longitudinal fasciculus	0.90±0.02	0.80±0.05	0.043
14	-42	14	128	Right	forceps major	0.10±0.05	0.76±0.06	0.019
39	-39	1	112	Right	inferior fronto-occipital fasciculus	0.94±0.10	0.80±0.11	0.030

MD: mean diffusivity; RMTLE: right mesial temporal lobe epilepsy

Supplemental Table III The brain regions where AD in the LMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	AD		P-value
X	Y	Z				LMTLE	Control	
-18	33	17	2993	Left	forceps minor	1.35±0.17	1.06±0.06	0.019
20	36	17	1479	Right	forceps minor	1.31±0.06	1.10±0.05	0.018
1	21	16	764	—	forceps minor	1.39±0.03	1.13±0.13	0.027
-26	24	15	119	Left	inferior fronto-occipital fasciculus	1.26±0.03	0.98±0.12	0.028
-16	33	15	667	Left	cingulum	1.27±0.06	1.03±0.06	0.020
-15	31	-10	198	Left	uncinate fasciculus	1.19±0.04	0.95±0.05	0.035
18	53	13	223	Right	anterior thalamic radiation	1.21±0.03	1.10±0.05	0.025

AD: axial diffusivity; LMTLE: left mesial temporal lobe epilepsy

Supplemental Table IV The brain regions where AD in the RMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	MD		P-value
X	Y	Z				RMTLE	Control	
25	-23	32	364	Right	corticospinal tract	1.33±0.03	1.10±0.11	0.045
41	-21	-10	212	Right	inferior longitudinal fasciculus	1.33±0.03	1.13±0.14	0.027
25	-50	29	126	Right	inferior fronto-occipital fasciculus	1.25±0.06	1.07±0.10	0.038
36	-17	32	177	Right	superior longitudinal fasciculus	1.24±0.05	1.01±0.12	0.027
35	0	-23	158	Right	uncinate fasciculus	1.18±0.06	1.01±0.07	0.024
15	-56	53	95	Right	anterior thalamic radiation	1.13±0.05	0.90±0.05	0.013

AD: axial diffusivity; RMTLE: right mesial temporal lobe epilepsy

Supplemental Table V The brain regions where RD in the LMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	RD		P-value
X	Y	Z				LMTLE	Control	
0	-35	17	1793	—	forceps major	0.92±0.13	0.66±0.03	0.010
0	20	17	3679	—	forceps minor	0.86±0.06	0.71±0.04	0.039
0	0	25	1564	—	corpus callosum body	0.92±0.02	0.72±0.03	0.028
-17	-35	34	98	Left	cingulum	0.99±0.04	0.60±0.05	0.019
18	-50	25	107	Right	cingulum	0.86±0.02	0.73±0.05	0.020
-34	-27	1	156	Left	inferior fronto-occipital fasciculus	0.96±0.15	0.66±0.11	0.025
28	-55	19	146	Right	inferior fronto-occipital fasciculus	0.90±0.06	0.71±0.05	0.029

-17	-21	-5	95	Left	corticospinal tract	0.89±0.05	0.68±0.14	0.028
12	-21	1	80	Right	corticospinal tract	0.79±0.02	0.52±0.13	0.020
-38	-7	-19	169	Left	uncinate fasciulus	0.91±0.04	0.60±0.12	0.018
-35	0	-30	288	Left	inferior longitudinal fasciculus	0.91±0.09	0.69±0.06	0.019
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RD: radial diffusivity; LMTLE: left mesial temporal lobe epilepsy

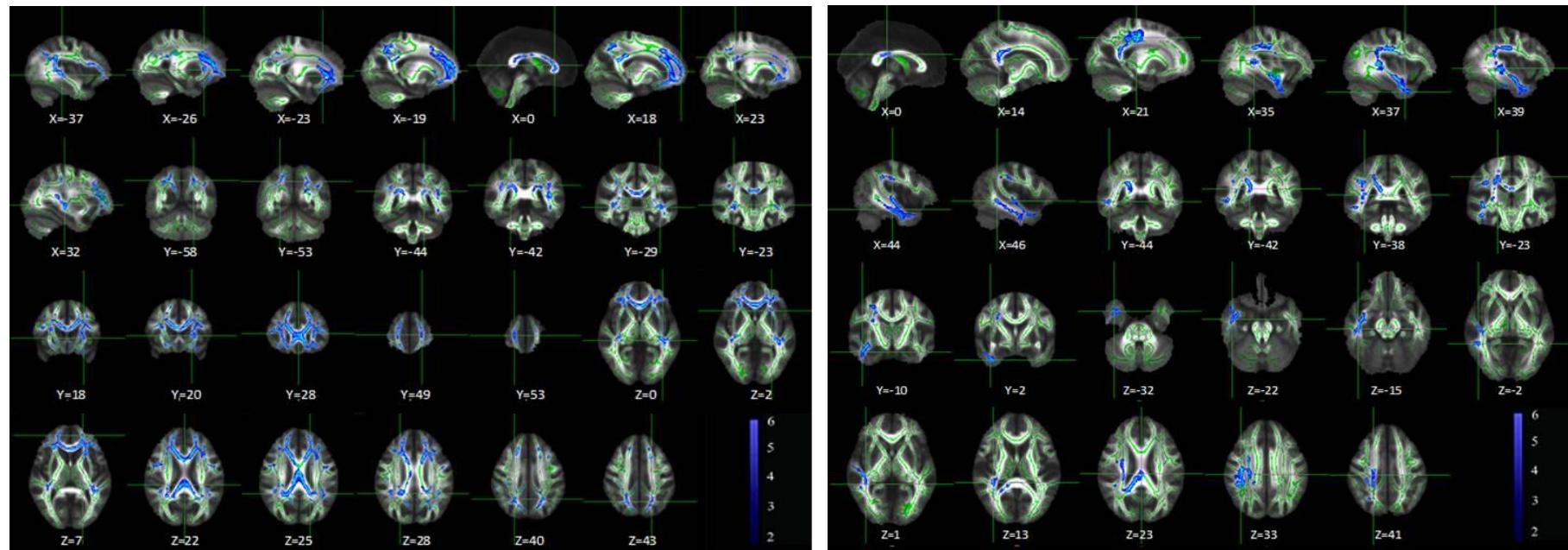
Supplemental Table VI The brain regions where RD in the RMTLE group was different from the control group

MNI Coordinate			Volume (mm ³)	Hemi-sphere	white matter fibro tracts	RD		P-value
X	Y	Z				RMTLE	Control	
-25	-57	16	245	Left	forceps major	0.86±0.04	0.71±0.06	0.035
25	-52	16	235	Right	forceps major	0.92±0.11	0.72±0.10	0.026
-15	-44	11	288	Left	forceps minor	0.87±0.15	0.66±0.09	0.015
15	34	-3	332	Right	forceps minor	0.89±0.04	0.60±0.10	0.043
-15	-9	-8	79	Left	superior longitudinal fasciculus	0.91±0.05	0.69±0.07	0.044
18	-57	48	1355	Right	superior longitudinal fasciculus	0.92±0.18	0.66±0.08	0.014
-12	-31	28	168	Left	cingulum	0.86±0.12	0.51±0.10	0.018

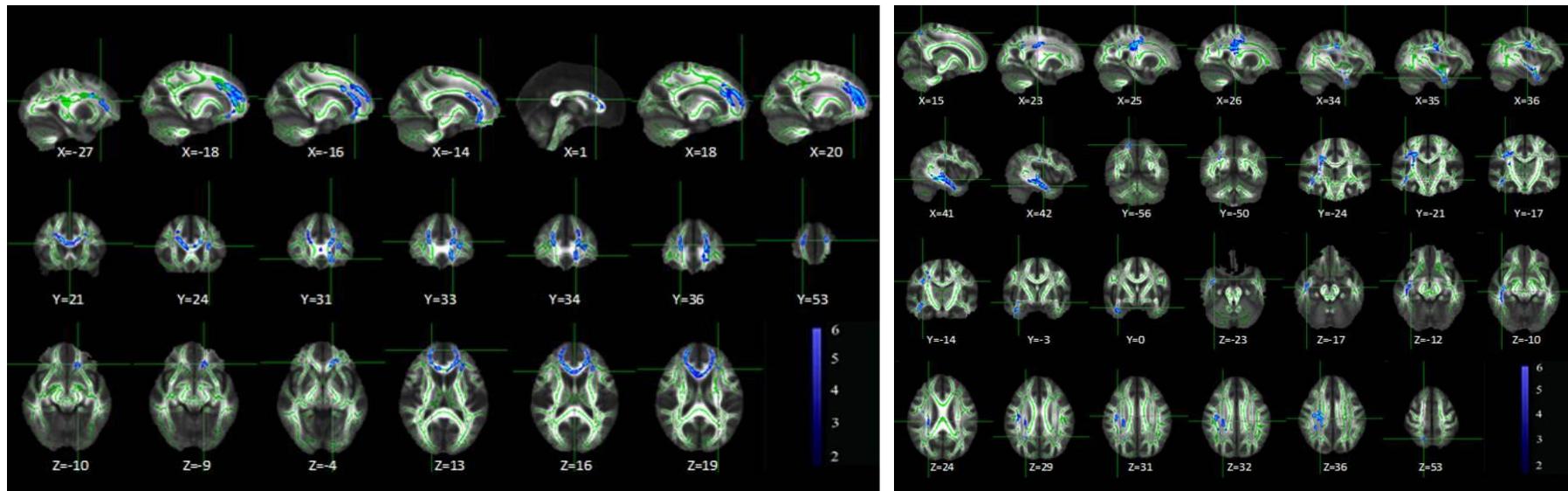
12	-54	25	77	Right	cingulum	0.82±0.03	0.62±0.03	0.039
25	19	-8	238	Right	uncinate fasciulus	0.92±0.11	0.66±0.08	0.015
45	-11	-27	196	Right	inferior longitudinal fasciculus	0.86±0.04	0.71±0.03	0.033
25	-55	28	247	Right	inferior fronto-occipital fasciculus	0.72±0.08	0.52±0.05	0.035
25	-10	16	364	Right	corticospinal tract	0.79±0.05	0.60±0.13	0.021

RD: radial diffusivity; RMTLE: right mesial temporal lobe epilepsy

Supplemental Figure I the maps of statistical difference of MD values



Supplemental Figure II the maps of statistical difference of AD values



Supplemental Figure III the maps of statistical difference of RD values

