

Supplementary Tables

Supplementary table 1 (S1): Analysis of the pre- and post-rTMS Rush values in the rTMS and sham stimulation condition in GTS patients

Rush variable	Stimulation condition	time	Mean \pm SD ¹	Wilcoxon signed rank-test ²		
				W-value	p-value	Bayes Factor (BF ₀₁)
Number of body areas	verum	pre	3.33 (\pm 0.84)	51.0	0.719	4.07
		post	3.28 (\pm 1.05)			
	sham	pre	3.45 (\pm 0.71)	49.0	0.830	4.70
		post	3.35 (\pm 0.97)			
Frequency of motor tics	verum	pre	2.78 (\pm 1.01)	45.0	0.653	4.47
		post	2.85 (\pm 1.10)			
	sham	pre	2.97 (\pm 1.05)	54.5	0.924	4.71
		post	2.97 (\pm 1.05)			
Frequency of vocal tics	verum	pre	1.41 (\pm 1.07)	83.0	0.770	4.66
		post	1.38 (\pm 1.18)			
	sham	pre	1.55 (\pm 1.28)	159.5	0.280	2.80
		post	1.35 (\pm 0.97)			
Severity of motor tics	verum	pre	3.05 (\pm 0.70)	87.0	0.964	4.62
		post	2.98 (\pm 0.88)			
	sham	pre	3.05 (\pm 0.78)	66.0	0.617	4.49
		post	3.07 (\pm 0.85)			
Severity of vocal tics	verum	pre	1.90 (\pm 1.19)	126.5	1.000	4.87
		post	1.90 (\pm 1.45)			
	sham	pre	1.83 (\pm 1.29)	47.5	0.487	3.73
		post	1.91 (\pm 1.25)			
Total score	verum	pre	12.47 (\pm 3.57)	151.5	0.692	4.51
		post	12.28 (\pm 4.11)			
	sham	pre	12.85 (\pm 3.98)	170.5	0.840	4.93
		post	12.67 (\pm 3.86)			
Motor tic count per minute	verum	pre	52.41 (\pm 30.61)	212.0	0.915	5.10
		post	51.10 (\pm 28.31)			
	sham	pre	57.26 (\pm 29.60)	237.5	0.673	4.50
		post	54.70 (\pm 30.24)			

¹ Mean values and standard deviations (SD) of Rush variables, including motor tic count per minute, pre- and post-rTMS in the verum and sham stimulation condition are given.

² Results of Wilcoxon signed-rank test (pre- versus post-rTMS Rush value) are given.

Supplementary table 2 (S2): Analysis of the difference of pre- and post-rTMS Rush values in the rTMS and sham stimulation condition in GTS patients

Rush variable	Stimulation condition	Difference of post- and pre-rTMS Rush score: Mean \pm SD ¹	Wilcoxon signed rank-test ²		
			W-value	p-value	Bayes Factor (BF ₀₁)
Number of body areas	verum	-0.05 (\pm 0.78)	83.5	0.754	4.70
	sham	-0.10 (\pm 0.85)			
Frequency of motor tics	verum	0.07 (\pm 0.74)	85.0	0.700	4.76
	sham	0.00 (\pm 0.71)			
Frequency of vocal tics	verum	-0.03 (\pm 0.63)	162.5	0.461	3.44
	sham	-0.21 (\pm 0.87)			
Severity of motor tics	verum	-0.07 (\pm 0.76)	81.0	0.572	4.19
	sham	0.01 (\pm 0.58)			
Severity of vocal tics	verum	0.00 (\pm 0.92)	116.5	0.756	4.66
	sham	0.09 (\pm 0.66)			
Total score	verum	-0.19 (\pm 2.56)	173.0	0.959	5.00
	sham	-0.17 (\pm 2.41)			
Motor tic count per minute	verum	-1.30 (\pm 14.35)	223.0	0.915	4.80
	sham	-2.56 (\pm 19.15)			

¹ Mean values and standard deviations (SD) of the difference between pre- and post-rTMS Rush values (post- minus pre-rTMS Rush value) in the verum and sham stimulation condition are given.

² Results of Wilcoxon signed-rank test (verum versus sham stimulation condition) are given.