

Table e-1 Motor evoked potential amplitudes (mV) before and after PAS

	Baseline	T0	T30	T60
APB				
Controls	1.01 ± 0.05	1.26 ± 0.18	1.68 ± 0.20*	1.75 ± 0.29*
Med-OFF/Stim-OFF	1.14 ± 0.12	1.02 ± 0.09	1.12 ± 0.13	1.16 ± 0.12
Med-OFF/Stim-ON	1.02 ± 0.09	1.17 ± 0.21	1.20 ± 0.28	1.17 ± 0.21
Med-ON/Stim-OFF	0.98 ± 0.14	1.30 ± 0.24	1.07 ± 0.15	0.90 ± 0.16
Med-ON/Stim-ON	0.95 ± 0.09	1.27 ± 0.11	1.45 ± 0.20*	1.47 ± 0.20*
ADM				
Controls	0.89 ± 0.18	1.10 ± 0.10	1.16 ± 0.11	1.11 ± 0.19
Med-OFF/Stim-OFF	1.69 ± 0.32	1.99 ± 0.55	1.58 ± 0.37	1.80 ± 0.41
Med-OFF/Stim-ON	1.81 ± 0.41	1.56 ± 0.43	1.95 ± 0.53	1.87 ± 0.49
Med-ON/Stim-OFF	1.49 ± 0.32	1.66 ± 0.45	1.91 ± 0.56	1.65 ± 0.53
Med-ON/Stim-ON	1.22 ± 0.24	1.71 ± 0.26	1.64 ± 0.27	1.99 ± 0.50

* $P < 0.05$ by post hoc test compared with baseline. Values are mean ± standard error of the mean. Med-OFF/Stim-OFF = medication off/stimulation off; Med-OFF/Stim-ON = medication off/stimulation on; Med-ON/Stim-OFF = medication on/stimulation off; Med-ON/Stim-ON = medication on/stimulation on.

Table e-2 Cortical silent period durations (ms) before and after PAS

	Baseline	T0	T30	T60
APB				
Controls	157.4 ± 12.5	178.5 ± 12.9*	175.8 ± 13.5	171.1 ± 12.7
Med-OFF/Stim-OFF	143.8 ± 7.4	150.5 ± 7.3	139.8 ± 8.3	144.0 ± 7.5
Med-OFF/Stim-ON	132.3 ± 9.8	131.7 ± 9.5	137.8 ± 9.1	139.5 ± 8.5
Med-ON/Stim-OFF	147.5 ± 7.1	151.7 ± 7.9	147.0 ± 9.8	152.1 ± 10.2
Med-ON/Stim-ON	146.7 ± 7.9	146.4 ± 8.5	148.7 ± 8.5	142.2 ± 9.7
ADM				
Controls	157.1 ± 10.7	169.4 ± 11.3	171.3 ± 10.4	165.9 ± 9.1
Med-OFF/Stim-OFF	149.1 ± 8.5	145.5 ± 7.6	143.3 ± 9.0	152.3 ± 6.8
Med-OFF/Stim-ON	140.7 ± 8.1	138.1 ± 8.8	138.3 ± 9.8	138.5 ± 9.3
Med-ON/Stim-OFF	145.1 ± 10.3	145.9 ± 8.9	145.1 ± 12.8	139.2 ± 11.5
Med-ON/Stim-ON	143.6 ± 11.3	143.8 ± 11.3	146.7 ± 9.6	144.8 ± 11.5

* $P < 0.05$ by post hoc test compared with baseline. Values are mean ± standard error of the mean. Med-OFF/Stim-OFF = medication off/stimulation off; Med-OFF/Stim-ON = medication off/stimulation on; Med-ON/Stim-OFF = medication on/stimulation off; Med-ON/Stim-ON = medication on/stimulation on.

Table e-3 Background EMG area for 100ms and 200 ms preceding TMS pulse during MEP amplitudes and CSP duration recording respectively ($\mu\text{V}\cdot\text{ms}$)

	APB-MEP	ADM-MEP	APB-CSP	ADM-CSP
Controls	0.60 ± 0.02	0.65 ± 0.03	5.06 ± 0.10	5.54 ± 0.34
Med-OFF/Stim-OFF	0.79 ± 0.11	0.51 ± 0.03	5.81 ± 0.98	6.97 ± 0.69
Med-OFF/Stim-ON	0.53 ± 0.05	0.75 ± 0.17	4.66 ± 0.29	4.77 ± 0.51
Med-ON/Stim-OFF	0.65 ± 0.14	0.87 ± 0.25	5.92 ± 1.03	3.96 ± 0.45
Med-ON/Stim-ON	0.56 ± 0.05	0.83 ± 0.12	5.62 ± 0.35	6.45 ± 0.88

Values are mean \pm SEM. APB-MEP and ADM-MEP represent the resting state during measurement of MEP amplitudes. APB-CSP and ADM-CSP represent the active state during measurement of CSP duration.