

Appendix 1 to Levitt JG, Kalender G, O'Neill J et al. Dorsolateral prefrontal γ -aminobutyric acid in patients with treatment-resistant depression after transcranial magnetic stimulation measured with magnetic resonance spectroscopy. *J Psychiatry Neurosci* 2019.

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SubjectID	Sex	Age	Medications	TMS Responder?
4090	Male	34	diphenhydramine, alprazolam	No
4093	Female	25	lamotrigine, escitalopram	No
4094	Male	30	selegiline, quetiapine, venlafaxine	No
4097	Other	49	lithium, clonazepam , venlafaxine, amitriptyline, lamotrigine	No
4098	Female	25	fluvoxamine, gabapentine , clonazepam	No
4099	Female	32	duloxetine, aripiprazole	Yes
4103	Male	70	none	Yes
4105	Female	33	bupropion, dextroamphetamine, duloxetine, vilazodone	No
4107	Male	52	trazodone, lamotrigine, clonazepam , mirtzapine	No
4108	Male	52	cariprazine, escitalopram, protriptyline, alprazolam , eszopiclone, trazodone	No
4111	Female	30	sertraline, modafinil	Yes
4115	Male	20	bupropion	Yes
4117	Male	26	lithium, levomilnacipran	No
4118	Female	59	lamotrigine, nefazodone, lorazepam , vortioxetine	No
4132	Male	38	bupropion, venlafaxine, THC/CBD	No
4133	Female	63	lamotrigine, quetiapine, lithium, acetomenophin/codeine	Yes
4135	Female	40	none	Yes
4137	Male	44	lamotrigine, nortriptyline, aripiprazole, escitalopram, clonazepam , gabapentine , sumatriptan, escitalopram	No
4138	Male	47	zolpidem , diazepam , trazodone, escitalopram, amphetamine/dextroamphetamine, qetiapine	Yes
4139	Female	22	escitalopram, aripiprazole, bupropion, buspirone, amphetamine/dextroamphetamine	Yes
4144	Female	25	citalopram, lorazepam , gabapentine	No
4147	Male	57	citalopram, lamotrigine, levomefolic acid, venlafaxine	Yes
4155	Male	28	venlafaxine, clonazepam , valproic acid	Yes
4157	Female	38	bupropion, sertraline, lamotrigine	Yes
4159	Female	33	zolpidem , bupropion	No
4164	Female	26	lorazepam , duloxetine, trazodone	No

Supplementary Table 1: Study participants and current medications. GABA agonist drugs in **bold**.

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SubjectID	Device	Baseline		Treatment 5		Treatment 10		Treatment 20		Treatment 30	
		Pulses	%RMT	Pulses	%RMT	Pulses	%RMT	Pulses	%RMT	Pulses	%RMT
4090	Neurostar	3000L	85	3000L	115	3300L	120	3500L, 1500R	120L, 110R	5000L	130
4093	Neurostar	3000L	80	3000L	105	3000L	120	3000L, 500R	120L, 110R	4500L	105
4094	Neurostar	3000L	90	3000L	100	3500L	120	2500L, 2000R	120L, 120R	2000L, 3000R	110L, 130R
4097	Neurostar	3000L	100	3000L	110	3000L	110	4000L	120	4000L, 1000R	120L, 120R
4098	Neurostar	3000L	50	3000L	100	3000L, 500R	110L, 110R	3000L, 1500R	120L, 100R	3000L	110
4099	Neurostar	3000L	100	3000L	120	3000L	120	3500L	120	5000L	120
4103	Magstim	3000L	100	3000L	115	4000L	120	5000L, 1020R	130L, 130R	5520L	120
4105	Neurostar	3000L	100	3000L	100	3000L	110	4000L	120	4000L	120
4107	Magstim	3000L	100	3000L	110	3400L	115	3024L (18Hz), 1000R	97L, 120R	3528L (18Hz), 1500R	97L, 120R
4108	Neurostar	3000L	100	3000L	105	3000L, 1000R	115L, 105R	4000L, 1000R	105L, 120R	3000L, 2000R	110L, 110R
4111	Neurostar	3000L	100	3000L	105	3000L	120	3000L, 1000R	120L, 120R	3000L, 1000R	120L, 120R
4115	Magstim	3000L	100	3000L	100	3000L	100	3520L	105	3520L	105
4117	Neurostar	3000L	100	3000L	115	3000L	120	3500L, 1000R	120L, 120R	4000L	110
4118	Magstim	3000L	100	1500L (1Hz)	105	3000L	40	3520L	25	1760L	15
4132	Neurostar	3000L	100	3000L	120	3500L	120	3500L, 500R	110L, 110R	3500L, 1500FP2	120L, 110R
4133	Magstim	3000L	100	3000L	105	3000L	110	4000L	110	4000L, 540R	110L, 110R
4135	Neurostar	3000L	100	3000L	100	3000L	105	3000L	100	3500L	120
4137	Magstim	2220R	100	2220R	100	2220R	100	3000R	115	4020R	120
4138	Magstim	3000L	100	3000L	110	3000L	120	3520L	120	3520L, 1020R	120L, 120R
4139	Neurostar	3000L	100	4000L	120	4000L	115	4000L	120	4000L	120
4144	Neurostar	3000L	100	3000L	100	3000L	100	3000L	100	3000L,	110L,

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4147	Neurostar	3000L	80	3000L	105	3000L	115	4000L	120	500R 4000L, 1000R	110R 120L, 110R
4155	Magstim	3000L	100	3000L	110	3000L	120	3000L, 1020R	120L, 120R	3000L, 2040FP2	120L, 120FP2
4157	Neurostar	3000L	100	3000L	105	3000L	95	3500L	120	3500L, 1000R	120L, 110R
4159	Neurostar	3000L	90	1000R	90	3000R	105	3000R	125	4000R	125
4164	Magstim	3000L	100	3000L	100	3000L	110	3000L, 1020R	110L, 100R	3000L, 1500R	110L, 110R

Supplementary Table 2: Transcranial magnetic stimulation (TMS) treatment parameters. L = TMS applied to scalp above left dorsolateral prefrontal cortex (DLPFC); R = TMS applied above right DLPFC; Fp2 = TMS applied above right frontopolar cortex