

**TABLE S1. Initial Programming Settings for Deep Brain Stimulation in a 66-Year-Old Man With Parkinson's Disease**

	Visit 1		2		3				4		5		6				7	8		9		
	Feb 2013		June 2013		July 2013 Initial settings		Final settings		July 2013		July 2014 No programming changes		Aug 2014 Initial settings		Final settings		Aug 2014 Psychiatric Evaluation	Aug 2014		Oct 2014		
<b>DBS Parameters</b>	Left	Right	L	R	L	R	L	R	L	R	L	R	L	R	L	R	Complained of cognitive decline. Denied all other psychiatric symptoms except mild depression.	L	R	L	R	
PW (µs)	60	60	60	60	60	60	90	90	90	90	90	90	90	90	90	60		90	60	90	60	
FR (Hz)	130	130	130	130	130	130	180	180	180	180	180	180	180	180	130	130		130	130	130	130	
Amp (V)	1.7	1.8	2.0*	2.0*	2.5	2.4	2.5	2.5	2.0*	2.0*	2.7*	2.7*	2.3*	2.3*	2.5	3.0		2.7	3.0	2.7	2.8	
Contacts	C+, 1-	C+, 10-	C+, 1-	C+, 10-	C+, 1-	C+, 10-	C+, 2-	C+, 10-	C+, 2-	C+, 10-	C+, 2-	C+, 10-	C+, 2-	C+, 10-	C+,2-,3-	C+,10-,11-		C+,2-,3-	C+,10-,11-	C+,2-,3-	C+,10-,11-	
R (Ω)	1000*	1000*	**	**	*	*	1480	1342	**	**	1480	1342	1347	1148	848	774		878	769	870	826	
TEED	22.54	25.72	31.20	31.20	48.75	44.92	68.41	75.44	43.78	48.28	79.79	88.00	63.62	74.65	86.23	90.69		97.14	91.28	98.03	74.03	
<b>Medications</b>																						
amantadine	100mg QID		100mg BID		100mg BID		100mg BID		100mg BID		100mg TID		100mg TID		100mg TID			100mg TID	100mg TID		100mg TID	
carbidopa-levodopa 25/100	1/2 tab 6x/day		1/2 tab QID		1/4 tab TID		1/4 tab TID		1/4 tab TID		D/C		D/C		D/C			D/C	D/C		D/C	
carbidopa-levodopa CR 50/200	1/2 tab 5 x/day with 1 tab q HS		D/C***		D/C		D/C		D/C		D/C		D/C		D/C		D/C	D/C		D/C		
selegiline	5mg BID		5mg BID		5mg BID		5mg BID		5mg BID		D/C**		D/C		D/C		D/C	D/C		5mg BID		
entacapone	200mg 6x/day		D/C***		D/C		D/C		D/C		D/C		D/C		D/C		D/C	D/C		D/C		
pramipexole	1.5mg TID		1mg TID		1.5mg TID		1.5mg TID		1.5mg TID		1mg TID		1mg TID		1mg TID		1mg TID	1mg TID		1.5mg TID		
clonazepam	1mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS		1.5mg q HS	1.5mg q HS		1mg q HS		
<b>Notes</b>	*1000 used as estimated impedance for calculation of TEED		*amplitude was increased per patient home programmer		Acting out and angry, crushed his eyeglasses				Anger resolved		Increased irritability, anger outbursts, cognitive decline, paranoid delusions, visual hallucinations, disinhibition, talkative, impulsive		*Amp had been decreased using patient home programmer		Mood and irritability improved			Mild depressive symptoms improved, no return of previous mood and behavioral concern, "so much better"		Mood and behavior remain stable		

		**1000 used as estimated impedance for calculation of TEED	*1000 used as estimated impedance for calculation of TEED		*decreased to mitigate dyskinesia	*Amp had been increased using patient home programmer					
		***due to increased dyskinesia			**estimated impedances at (1480 and 1342) for left STN and right STN respectively for purposes of calculating TEED	**Pt reported stopping selegiline due to concerns it was contraindicated with cyclobenzaprine which his PCP had recently started					