

## SUPPLEMENTARY DATA

### **Multicenter study**

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**Supplementary Table 1.** Mixed model analysis of outcomes in the spinal cord stimulation in combination with best medical treatment group (SCS group) and the best medical treatment group (BMT group), at 3 and 6 months.

Outcome	Baseline		3 months		6 months	
	SCS	Control	SCS	Control	SCS	Control
NRS score day	7.1±1.7	6.5±1.7	3.5±2.4	6.7±1.8***	4.0±2.9	6.5±1.9***
NRS score night	6.3±2.5	7.3±1.8	3.3±2.7	6.9±2.0***	3.9±3.1	6.4±2.1**
PGIC for pain - no./total no. (%)	-	-	15/22 (68)***	0/14 (0)	12/22 (55)***	0/14 (0)
PGIC for sleep - no./total no. (%)	-	-	13/22 (59)***	0/14 (0)	8/22 (36)*	0/14 (0)
Success - no./total no. (%)	-	-	16/22 (73)	0/14 (0)***	13/22 (59)	1/14 (7)**
mBPI-DPN						
PSI	7.1±1.5	6.3±1.8	4.0±2.5	6.1±1.8**	4.0±2.8	6.5±2.1***
PII	6.0±1.9	5.3±2.0	3.0±2.1	5.6±1.8***	3.5±2.6	5.5±1.5**
NPS						
Deep pain	8.2±1.5	7.6±1.5	4.9±3.1**	7.3±1.6	6.3±2.9	7.4±1.8
Surface pain	6.0±3.3	6.5±2.4	4.1±3.2**	7.2±2.1	3.6±3.4	6.4±2.1**
Intensity	8.0±1.5	7.6±1.5	4.5±2.8***	7.3±1.6	4.3±3.0	7.3±2.0***
Unpleasantness	7.9±1.8	7.6±1.7	5.1±2.9**	7.2±1.7	5.4±2.8	7.5±1.6**
Coldness	4.2±3.6	4.9±4.0	2.6±2.9	5.0±3.3	2.2±2.7	5.6±3.1*
Hotness	6.9±2.7	6.7±3.5	2.7±2.9***	6.5±2.4	2.9±3.3	6.3±2.5**
Dullness	7.6±2.1	7.7±2.4	4.5±2.8***	7.6±1.9	4.6±3.5	7.6±1.7***
Sharpness	7.9±1.9	7.3±2.4	4.0±3.1***	7.5±1.6	5.0±3.3	7.7±1.7**
Sensitivity	7.6±2.5	6.5±2.4	4.1±2.8***	7.4±2.1	5.0±3.4	7.1±2.2*
Itching	3.9±3.1	3.6±3.3	1.9±2.6	2.8±2.5	1.6±2.6	4.2±3.2*
EQ-5D						
EQ-5D utility scores	0.25±0.31	0.33±0.32	0.54±0.32	0.41±0.30	0.50±0.33	0.33±0.29
Current Health	53.9±18.5	54.6±16.7	63.2±17.4	58.8±13.0	57.6±24.3	56.5±14.2
MOS SF-36						
MCS	44.7±13.5	45.3±11.8	51.4±10.5	44.9±12.4	49.3±11.5	46.7±12.0
PCS	27.9±7.5	31.7±7.9	33.2±9.6	32.9±6.6	32.3±10.5	30.5±7.4
MOS-SS						
SP9	56.1±15.6	53.0±17.2	38.5±20.0	56.6±14.9**	40.3±19.6	52.9±16.5
Quantity of sleep - hr	5.7±2.3	5.3±1.8	6.5±1.9	5.5±2.1	6.6±1.8	5.4±2.4
Optimal Sleep - no./total no.(%)	6/22 (27)	0/14 (0)	6/22 (27)	2/14 (14)	5/22 (23)	3/14 (21)
BDI	13.2±7.3	13.7±6.4	12.1±9.0	12.7±5.2	13.0±9.8	14.4±6.3

\* Plus-minus values are means ±SD. NRS Numeric Rating Scale, PGIC Patient Global Impression of Change Score, mBPI-DPN modified Brief Pain Inventory- Diabetic Peripheral Neuropathy, NPS Neuropathic Pain Scale, EQ-5D EuroQol-5 dimension questionnaire, MOS SF-36 Medical Outcome Study SF-36, MCS Mental Component Score, PCS Physical Component Score, MOS-SS Medical Outcome Study Sleep Scale, SP9 Sleep Problems summary 9, BDI Beck Depression Inventory.

\* P<0.05 for the between-group difference in the ITT analysis.

\*\* P<0.01 for the between-group difference in the ITT analysis.

\*\*\* P<0.001 for the between-group difference in the ITT analysis.