

Table 1. Characteristics

	Case (N=43)	Control (N=43)	p
Age (years) mean \pm SD	39 \pm 11.2	38.35 \pm 11.47	0.7623
Gender (women)	13 (30.23%)	13 (30.23%)	> 0.99
Duration of epilepsy (years) mean \pm SD	25.31 \pm 13.54	13.9 \pm 13.36	< 0.0001
HCVR slope	1.41 \pm 1.15	1.91 \pm 1.24	0.0402
BMI	29.34 \pm 6.96	28.19 \pm 6.97	0.4268
Duration of VNS implant	5.7 \pm 3.97	NA	NA
Stimulation current per day, mean \pm SD	243.47 \pm 219.64	NA	NA
No. of AEDs during HCVR testing	2.0 \pm 0.85	1.81 \pm 0.96	0.0010
No. of AEDs tried lifetime mean \pm SD	7.7 \pm 3.2	3.33 \pm 2.18	< 0.0001
Use of SSRI/SNRI	11 (25.6%)	11 (25.6%)	> 0.99
History of OSA	6 (14.3%)	8 (19.1%)	0.5582
History of depression	20 (46.5%)	20 (47.6%)	0.9185

Abbreviations: BMI (Body mass index); AED (anti-epileptic drug); SSRI/SNRI (selective serotonergic reuptake inhibitor and serotonin-norepinephrine reuptake inhibitors); OSA (obstructive sleep apnea)

Continuous variables were compared using the Wilcoxon rank-sum test. Categorical variables were compared using Pearson's chi-square test.

Table 2. HCVR slope as dependent variable

Univariate model			
Variable	Mean estimate	95% CI	p
VNS vs control	-0.5147	-1.0086 to -0.0208	0.0411
Age (+10 years)	0.0870	-0.1380 to 0.3130	0.4471
Gender (women)	-0.1526	-0.7022 to 0.3971	0.5864
Duration of epilepsy	0.0007	-0.0169 to 0.0183	0.9401
BMI (+5)	0.3475	0.1800 to 0.5150	< 0.0001
Duration of VNS implant	0.0049	-0.0818 to 0.0916	0.9117
Stimulation current per day	-0.0005	-0.0021 to 0.0010	0.5111
No. of AEDs during HCVR testing	-0.1629	-0.3906 to 0.0647	0.1607
No. of AEDs tried lifetime	-0.0451	-0.1194 to 0.0292	0.2344
Use of SSRI/SNRI	-0.1872	-0.7654 to 0.3910	0.5258
History of OSA	0.4871	-0.1986 to 1.1728	0.1639
History of depression	0.0579	-0.4454 to 0.5613	0.8215
Multivariate model			
Case vs control	-0.5998	-1.0470 to -0.1526	0.0086
BMI (+5)	0.3657	0.2040 to 0.5274	< 0.0001