

TABLE S2. MLR analysis using the BIS values and the parameters of the IMFs in VMD, the EWT, or WMD.

		VMD	EWT	WMD
1) explanatory variables: 6 median values of central frequencies				
determination factor		0.795	0.504	0.852
MAE		0.345	0.536	0.311
RMSE		0.452	0.705	0.385
y-intercept		9.707e-17	-6.513e-16	3.867e-16
		regression coefficient ($P> t $)		
central frequency	IMF-1	-0.1413 (0.000*)	-0.3218 (0.000*)	-0.0225 (0.583)
	IMF-2	0.0649 (0.137)	-0.1157 (0.100)	0.0170 (0.523)
	IMF-3	0.1274 (0.031*)	0.4080 (0.000*)	-0.1011 (0.003*)
	IMF-4	-0.0763 (0.418)	0.1171 (0.164)	0.1063 (0.009*)
	IMF-5	0.1842 (0.058)	0.0074 (0.901)	0.3705 (0.000*)
	IMF-6	0.6057 (0.000*)	0.0980 (0.087)	0.4213 (0.000*)
2) explanatory variables: 6 median values of total powers				
determination factor		0.799	0.369	0.876
MAE		0.358	0.593	0.27
RMSE		0.448	0.795	0.352
y-intercept		9.707e-17	-6.513e-16	3.867e-16
		regression coefficient ($P> t $)		
total power	IMF-1	0.2795 (0.000*)	0.1048 (0.091)	0.0270 (0.336)
	IMF-2	0.0071 (0.864)	-0.4243 (0.000*)	-0.3204 (0.000*)
	IMF-3	-0.2190 (0.000*)	-0.3045 (0.000*)	-0.0565 (0.383)
	IMF-4	-0.4198 (0.000*)	0.0164 (0.814)	-0.3409 (0.000*)
	IMF-5	-0.0381 (0.414)	0.1030 (0.180)	0.0311 (0.490)
	IMF-6	-0.1292 (0.002*)	0.0716 (0.334)	0.4213 (0.000*)

The objective variable was the median value of the BIS from 10 patients, and the explanatory variables were **1)** the six median values of the central frequencies and **2)** the six total powers of the IMFs. The EEG data were obtained from the last 30 min period before emergence in 10 patients who received sevoflurane GA. MAE: mean absolute error; RMSE: root mean squared error; * $p<0.05$.