Supplementary Table 3. Post-hoc analysis of selected HRV features for differentiating classes

	2 Class		3 Class						4 Class				5 Class	
	Presence or absence of RBD		HC vs iRBD vs PDRBD		MC vs iRBD vs PDRBD		HC vs PDRBD vs PDnoRBD		MC vs PDRBD vs PDnoRBD		HC vs iRBD vs PDRBD vs PDnoRBD		MC vs iRBD vs PDRBD vs PDnoRBD		HC vs MC vs iRBD vs PDRBD vs PDnoRBD	
Features	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**	**F-Statistic**	**p-values**
HRV_MeanNN	-0.9124	0.3617	3.2085	0.0408	7.9833	0.0004	20.4726	0	51.9016	0	14.8569	0	22.3315	0	12.5752	0
HRV_SDNN	-3.0976	0.002	11.256	0	5.8533	0.0033	38.1485	0	57.0086	0	26.0762	0	14.7167	0	21.2769	0
HRV_VLF	-3.3278	0.0009	24.0714	0	23.392	0	30.7165	0	21.1526	0	19.5612	0	22.5466	0	36.1164	0
HRV_LF	-8.699	0	62.6594	0	12.8878	0	70.7095	0	20.7709	0	44.086	0	12.6761	0	36.769	0
HRV_HF	-1.656	0.098	1.6256	0.1973	8.4686	0.0003	3.6126	0.0273	13.8012	0	2.9475	0.0319	7.8103	0.0001	5.1277	0.0004
HRV_TP	-4.5363	0	15.9899	0	5.7856	0.0035	19.6922	0	20.6157	0	13.6701	0	8.1482	0	10.6742	0
HRV_LFHF	-0.366	0.7144	2.2626	0.1046	6.426	0.0019	1.4446	0.2364	19.5445	0	1.9396	0.1215	5.1578	0.0018	1.7463	0.1375
HRV_SD1	-2.9371	0.0034	10.9229	0	5.5113	0.0045	33.1855	0	67.5141	0	22.4501	0	12.1357	0	18.3046	0
HRV_SD2	-3.0754	0.0022	11.3431	0	6.1608	0.0024	35.3383	0	55.9264	0	25.0318	0	14.6355	0	20.4364	0
HRV_SD1SD2	-6.5757	0	38.108	0	26.8109	0	33.3147	0	10.6736	0	25.7213	0	18.5472	0	27.231	0

Time domain

HRV_MeanNN Mean of NN Intervals

HRV_SDNN Standard Deviation of NN Intervals

Frequency domain

HRV_VLF Very Low Frequency Power (0.00~0.04Hz)
HRV_LF Low Frequency Power (0.04~0.15Hz)

HRV_HF High Frequency Power (0.15~0.40Hz)

HRV_TP Total Power (0~0.4Hz)

HRV_LFHF LF/HF Ratio

Non-Linear (Poincaré)

HRV_SD1 corresponds to the length of the minor axis of Poincaré plot

HRV_SD2 corresponds to the length of major axis of Poincaré plot

HRV_SD1SD2 SD2/SD1 Ratio