

Supplementary table 2. Statistical details for acoustic analysis of conversational sentences

	Descriptives (PD)			Descriptives (CP)			Group	Gender	Mean difference		
	Male	Female	All	Male	Female	All			Group *	MoCA	MoCA *
Intensity	57.56 (5.12)	60.92 (5.89)	58.79 (5.51)	61.10 (4.70)	60.28 (4.51)	60.60 (4.47)	3.69	3.56	-4.92	4.73	-9.44?
Intensity decay	1.10 (5.15)	-0.95 (4.56)	0.35 (4.92)	1.32 (3.74)	-0.71 (8.20)	0.08 (6.75)	0.31	-1.57	-0.46	4.58	-3.97
Mean F₀	130.47 (16.11)	179.63 (23.50)	145.58 (30.60)	118.44 (21.60)	189.33 (37.94)	161.76 (47.70)	0.39	45.30***	24.00	19.90	-27.50
SD of F₀	23.06 (8.75)	27.45 (9.48)	24.68 (9.03)	18.01 (9.78)	33.59 (12.22) _a	30.51 (15.58)	-2.95	7.94?	11.00	-0.46	-12.50
Speech rate	4.70 (0.64)	4.71 (0.74)	4.70 (0.66)	5.20 (0.52)	4.34 (0.71)	4.67 (0.76)	0.37	-0.19	-0.49	0.25	0.17
Acceleration	25.22 (39.70)	-4.05 (26.71)	14.44 (37.57)	6.88 (30.38)	11.43 (26.25)	9.66 (27.13)	-20.60	-31.00*	35.60	-13.70	6.17
Adjusted speech rate	4.93 (5.09)	4.96 (0.60)	4.94 (0.57)	5.54 (0.41)	4.62 (0.82)	4.98 (0.82)	0.51	-0.14	-0.65	0.32	0.10
Adjusted acceleration	13.07 (21.93)	-4.42 (20.03)	6.62 (22.42)	2.15 (26.81)	10.57 (22.39)	7.29 (23.80)	-12.60	-19.20?	27.60?	1.15	-5.16
Pause	6.05 (10.59) _a	4.87 (5.40)	4.02 (9.84) _a	6.50 (4.54)	4.44 (4.17)	4.77 (4.33)	1.01	-0.54	-2.13	-2.74	0.15
Within-word pause	0.00 (NA) _a	0.00 (0.00) _a	0.00 (0.00) _a	0.00 (NA) _a	0.00 (NA) _a	0.00 (0.00)	0.00	0.90?	-0.90	0.00	1.44
Iteration	0.00 (0.10) _a	0.40 (1.00) _a	0.00 (0.35) _a	0.34 (0.38)	0.00 (0.40) _a	0.10 (0.40) _a	0.31	0.72	-0.87**	0.01	0.66
Within-word iteration	0.00 (0.00) _a	0.00 (19.00) _a	0.00 (0.00) _a	0.00 (10.00) _a	0.00 (0.00) _a	0.00 (0.00)	5.71*	7.38**	-12.30***	0.00	6.47

Descriptives are shown as mean (SD), unless marked with 'a' in which case they refer to median (IQR). * = p<0.05, ** = p<0.01, *** = p<0.001, ? = 0.05 < p <0.1.

PD = people with Parkinson's disease, CP = conversation partner controls, F₀ = fundamental frequency, MoCA = Montreal Cognitive Assessment.