## Supplemental Material S1. Numerical results of linear mixed effects models.

			MSD	Difference from	
Model	Condition	Complexity	group	controls	p value
Ratios	Natural-to-fast ratio	Lower complexity	Hypokinetic	177	.213
			Phonetic	179	.257
			Prosodic	556	< .001
			Spastic	530	.023
		Higher complexity	Hypokinetic	.003	.982
			Phonetic	.005	.977
			Prosodic	215	.118
			Spastic	099	.682
	Slow-to-natural ratio	Lower complexity	Hypokinetic	223	.118
			Phonetic	.192	.251
			Prosodic	313	.023
			Spastic	514	.028
		Higher complexity	Hypokinetic	.275	.058
			Phonetic	102	.557
			Prosodic	248	.070
			Spastic	432	.063
Pauses	Fast	Lower complexity	Hypokinetic	.035	.715
			Phonetic	.064	.564
			Prosodic	.145	.118
			Spastic	041	.821
		Higher complexity	Hypokinetic	.008	.936
			Phonetic	.109	.333
			Prosodic	.274	.004
			Spastic	.072	.658
	Natural	Lower complexity	Hypokinetic	017	.841
			Phonetic	.064	.569
			Prosodic	.122	.200
			Spastic	022	.904
		Higher complexity	Hypokinetic	.113	.296
			Phonetic	.242	.031
			Prosodic	.389	< .001
			Spastic	.002	.994
	Slow	Lower complexity	Hypokinetic	.048	.579
			Phonetic	.096	.398
			Prosodic	.197	.027
			Spastic	.227	.163
		Higher complexity	Hypokinetic	.033	.738
			Phonetic	008	.955
			Prosodic	.252	.002
			Spastic	.167	.315

*Note*. MSD = motor speech disorder.