

**Table S7**

*Parkinson's disease: Study Design Details and Participant Characteristics for Verbal Cueing/Articulation Therapy/Speech Therapy as Treatment Modalities*

Source	N	Study design	Sex (% female)	Age range (years)	Dysarthria type	Inclusion/exclusion criteria	Inferential statistics	Power analysis	Control group	Baseline data collected	Control intervention	Number of treatment sessions	Mode of treatment delivery	Home exercise plan	Patient-reported outcomes	Treatment effect size
Hsu et al. (2019)	11	Secondary analysis; quasi-experimental	27.00%	62-83	Hypokinetic	Inclusion 2: <ul style="list-style-type: none"> <li>• Primary spoken language: Mandarin</li> <li>• Self-reported adequate hearing for daily communication</li> </ul>	Yes	No	No	No	Yes	1	In person, individual	No	No	No
Martens et al. (2015)	11	Prospective, quasi-experimental	36.00%	52-94	NR	Inclusion 1: <ul style="list-style-type: none"> <li>• Able to commit to intensive treatment</li> <li>• Sufficient audition, vision, cognition, language and reading per clinician judgement</li> <li>• &lt;90% intelligibility</li> <li>• &gt;80% receptive prosody</li> </ul> Exclusion: 5	Yes	No	No	Yes – single baseline	No	15 (1 session p/weekday for 3 weeks)	In person, individual	No	No	Yes
Ramig et al. (2018)	64	Prospective, randomized controlled trial	31.50%	48-85	NR	Inclusion 1, 2, 3: <ul style="list-style-type: none"> <li>• Not smoked in last 4 years</li> <li>• Clinically stable on medications</li> <li>• Hoehn &amp; Yahr stages I-IV</li> <li>• Beck Depression Inventory ≤24</li> <li>• Speech/voice disorder (any severity)</li> </ul>	Yes	Yes	Yes	Yes – single baseline	Yes	16 (4 days p/week for 4 weeks)	In person, individual	Yes	Yes	No

						Exclusion 5: <ul style="list-style-type: none"> <li>• Speech/voice disorder unrelated to PD</li> <li>• Neurosurgical treatment</li> <li>• Laryngeal surgery or pathology</li> <li>• Intensive speech treatment within 2 years</li> <li>• Previous LSVT LOUD®</li> <li>• Dysphagia requiring immediate attention</li> </ul>										
Robertson & Thomsen (1984)	18	Prospective, quasi-experimental	6.00%	50-82	NR	Exclusion: <ul style="list-style-type: none"> <li>• Any medical condition co-existing with PD</li> </ul>	Yes	No	Yes	Yes – single baseline	No	1 session p/day for 2 weeks (3.5-4 hours of treatment p/day)	In person, individual and group	No	Yes	No
Sadagopan & Huber (2007)	14	Prospective, quasi-experimental	35.70%	51-90	NR	Inclusion 2, 3: <ul style="list-style-type: none"> <li>• Living independently in the community</li> <li>• Ambulatory</li> </ul>	Yes	No	Yes	No	No	1	In person, individual	No	No	Yes
Skrabail et al. (2020)	51*	Prospective, quasi-experimental	47.00%	49-74	Hypokinetic Spastic Ataxic Mixed: hypokinetic-spastic Mixed: hypokinetic-ataxic Mixed: hypokinetic-spastic-ataxic Mixed: ataxic-spastic	NR	Yes	No	Yes	No	Yes	1	In person, individual	No	No	No
Tjaden & Wilding (2004)	27	Secondary analysis; quasi-experimental	59.20%	25-81	Spastic Ataxic Hyperkinetic Hypokinetic	Inclusion 2, 3, 4: <ul style="list-style-type: none"> <li>• No previous experience with LSVT</li> </ul>	Yes	No	Yes	Yes – single baseline	Yes	1	In person individual	No	No	No

						<ul style="list-style-type: none"><li>No surgical treatment (PD participants)</li></ul>											
						Exclusion: 5											
Tjaden & Wilding (2011)	26	Secondary analysis; quasi-experimental	57.60%	33-74	Spastic Ataxic Hyperkinetic Hypokinetic	Inclusion 2, 3, 4: <ul style="list-style-type: none"><li>No previous experience with LSVT</li><li>No surgical treatment (PD participants)</li></ul>	Yes	No	Yes	Yes – single baseline	Yes	1	In person individual	No	No	No	
						Exclusion: 5											
Tjaden & Wilding (2013)	24	Secondary analysis; quasi-experimental	50.00%	47-78	NR	Inclusion 2: <ul style="list-style-type: none"><li>Native American English speakers</li><li>Achieved at least a high school diploma</li><li>Visual/correct ed acuity for reading</li></ul>	Yes	No	Yes	Yes – single baseline	Yes	1	In person individual	No	No	No	
						Exclusion: 5											
Tjaden et al. (2014)	46	Secondary analysis; quasi-experimental	Not reported	Not reported	NR	Inclusion: <ul style="list-style-type: none"><li>Native American English speakers</li><li>Achieved at least a high school diploma</li><li>Visual/correct ed acuity for reading</li></ul>	Yes	No	Yes	Yes – single baseline	No	1	In person individual	No	No	No	
						Exclusion: <ul style="list-style-type: none"><li>Hearing aid use</li></ul>											

*Note.* PD, Parkinson's disease; MMSE, Mini-Mental Status Examination. Inclusion criteria: <sup>1</sup>Diagnosis of Parkinson's disease; <sup>2</sup>Normal cognition per MMSE; <sup>3</sup>Normal hearing; <sup>4</sup>Native English speakers. Exclusion criteria: <sup>5</sup>Atypical Parkinson's disease or other neurologic comorbidity. \**n* = 17 with Parkinson's disease, *n* = 17 with multiple system atrophy, *n* = 17 with progressive supranuclear palsy, *n* = 17 healthy controls.