

**Table 2 (Alternate Version)**

Summary Statistics for the Target Acoustic and Intelligibility Measures in Hz

	All Etiologies		ALS		Ataxia		HD		PD	
	M	SD	M	SD	M	SD	M	SD	M	SD
All Speakers										
VSA (kHz <sup>2</sup> )	129.71	72.12	95.17	34.39	157.73	83.24	148.51	69.19	117.41	82.97
Corner Disp (Hz)	392.17	77.47	342.74	74.49	429.72	74.20	407.89	75.93	388.33	67.95
VSA <sub>Hull</sub> (kHz <sup>2</sup> )	821.28	285.47	686.43	262.70	908.27	171.08	902.71	296.52	787.70	360.14
VSD <sub>25</sub> (kHz <sup>2</sup> )	481.48	220.14	439.70	241.00	552.82	146.19	501.08	229.51	432.33	259.19
VSD <sub>75</sub> (kHz <sup>2</sup> )	51.70	56.64	46.96	34.31	84.05	85.04	40.94	52.89	34.84	32.57
Intelligibility (VAS)	51.95	26.27	40.76	26.16	54.08	20.84	48.53	31.45	64.44	23.49
Intelligibility (OT)	58.47	23.91	47.45	23.70	62.02	20.32	56.95	27.58	67.46	22.39
Female Speakers										
VSA (kHz <sup>2</sup> )	164.87	84.87	112.70	27.12	198.84	102.81	192.86	74.41	155.06	106.88
Corner Disp (Hz)	429.31	77.21	363.12	61.74	481.75	41.87	447.35	84.36	425.02	79.30
VSA <sub>Hull</sub> (kHz <sup>2</sup> )	1,006.39	256.35	847.01	272.58	1017.76	175.64	1108.83	263.91	1051.97	299.53
VSD <sub>25</sub> (kHz <sup>2</sup> )	621.50	203.90	601.13	242.53	643.60	132.97	645.09	216.34	596.20	267.49
VSD <sub>75</sub> (kHz <sup>2</sup> )	62.98	61.75	66.48	36.37	101.05	106.35	30.90	29.86	53.49	36.86
Intelligibility (VAS)	48.41	31.31	27.98	19.70	51.33	28.35	50.54	37.95	63.81	34.49
Intelligibility (OT)	55.25	28.98	39.42	21.25	59.19	27.98	56.49	34.75	65.90	32.72
Male Speakers										
VSA (kHz <sup>2</sup> )	94.54	29.54	77.65	34.04	116.61	28.13	104.16	17.80	79.76	22.88
Corner Disp (Hz)	355.03	58.79	322.37	87.38	377.70	62.19	368.43	44.32	351.64	27.09
VSA <sub>Hull</sub> (kHz <sup>2</sup> )	636.16	171.51	525.85	128.52	798.77	70.90	696.58	148.17	523.43	165.87
VSD <sub>25</sub> (kHz <sup>2</sup> )	341.46	128.94	278.28	81.91	462.05	99.00	357.06	140.93	268.45	111.68
VSD <sub>75</sub> (kHz <sup>2</sup> )	40.41	50.03	27.43	19.33	67.04	65.11	50.97	71.76	16.19	12.59
Intelligibility (VAS)	55.49	20.24	53.54	27.26	56.83	12.44	46.52	27.83	65.06	7.13
Intelligibility (OT)	61.69	17.67	55.48	25.52	64.85	11.23	57.42	22.43	69.01	7.17

*Note.* VAS = visual analog scale; OT = orthographic transcription; VSA = vowel space area; Corner Disp = corner dispersion; VSD = vowel space density; ALS = amyotrophic lateral sclerosis; Ataxia = cerebellar ataxia; HD = Huntington's disease; PD = Parkinson's disease.