

This article and any supplementary material should be cited as follows:

Dietsch AM, Solomon NP, Sharkey LA, Duffy JR, Strand EA, Clark HM. Perceptual and instrumental assessments of orofacial muscle tone in dysarthric and normal speakers. *J Rehabil Res Dev.* 2014;51(7):1127–42.
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ResearcherID/ORCID: Angela M. Dietsch, PhD: H-6552-2013

Appendix 1. Summary statistics (M, SD) for stiffness (in N/m) from Study 1.

<u>Group</u>	<u>Tongue (superior)</u>		<u>Cheek</u>		<u>Masseter</u>		<u>Upper Lip</u>		<u>Lower Lip</u>	
	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>
Flaccid	370.77 (304.43)	544.69 (380.05)	393.38 (221.91)	192.46 (40.496)	324.62 (154.76)	247.92 (44.10)	292.62 (242.44)	417.23 (231.36)	404.31 (298.13)	166.90 (90.83)
Flaccid- Spastic	471.08 (399.45)	529.12 (477.56)	383.08 (160.74)	194.72 (43.448)	364.4 (206.48)	268.08 (54.25)	291.12 (223.69)	415.68 (279.54)	339.48 (215.77)	191.44 (76.90)
Ataxic	478.10 (279.55)	458.40 (224.06)	309.55 (168.05)	195.73 (18.006)	272.00 (81.45)	253.73 (46.31)	480.91 (389.06)	343.36 (124.96)	184.09 (62.66)	170.27 (17.88)
Hypokinetic	304.00 (220.99)	360.21 (253.80)	285.57 (160.74)	210.43 (44.875)	310.79 (154.26)	270.86 (62.52)	254.36 (176.04)	303.50 (174.36)	388.79 (264.87)	248.71 (117.10)
Spastic	278.14 (220.06)	336.57 (247.03)	467.57 (277.64)	196.71 (36.036)	336.71 (188.87)	232.86 (41.79)	264.86 (166.78)	498.71 (220.89)	228.57 (112.00)	175.29 (37.50)

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Appendix 2. Summary statistics (M, SD) for frequency (in Hz) from Study 1.

<u>Group</u>	<u>Tongue (superior)</u>		<u>Cheek</u>		<u>Masseter</u>		<u>Upper Lip</u>		<u>Lower Lip</u>	
	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>
Flaccid	18.00 (12.69)	26.95 (17.63)	20.93 (12.73)	11.29 (1.59)	14.94 (4.46)	13.05 (2.49)	14.92 (7.21)	20.87 (11.14)	18.54 (10.67)	10.83 (1.36)
Flaccid- Spastic	24.59 (16.05)	25.56 (21.81)	19.76 (12.84)	11.62 (1.91)	17.16 (9.30)	13.59 (2.78)	15.34 (6.30)	21.82 (12.01)	17.36 (7.76)	12.10 (3.25)
Ataxic	19.81 (14.91)	19.66 (11.12)	13.99 (7.59)	11.39 (1.43)	13.60 (3.17)	13.30 (2.47)	21.04 (13.02)	17.39 (3.42)	12.76 (1.62)	11.39 (1.58)
Hypokinetic	16.61 (10.23)	21.85 (13.49)	14.43 (7.30)	11.29 (1.90)	14.56 (4.89)	13.35 (2.69)	15.69 (8.86)	16.96 (5.97)	19.68 (10.41)	13.92 (4.00)
Spastic	18.80 (14.64)	19.90 (13.35)	26.91 (16.39)	11.87 (1.41)	16.64 (6.73)	13.11 (1.93)	14.51 (3.75)	25.40 (12.93)	14.97 (3.76)	11.93 (1.69)

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Appendix 3. Summary statistics (M, SD) of the logarithmic decrement of damping from Study 1.

<u>Group</u>	<u>Tongue (superior)</u>		<u>Cheek</u>		<u>Masseter</u>		<u>Upper Lip</u>		<u>Lower Lip</u>	
	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>	<u>Left</u>	<u>Right</u>
Flaccid	1.94 (0.62)	2.13 (0.50)	2.20 (0.79)	1.57 (0.28)	2.19 (0.51)	2.08 (0.27)	2.04 (0.67)	2.19 (0.91)	2.13 (0.56)	1.67 (0.38)
Flaccid- Spastic	2.18 (0.59)	2.12 (0.59)	1.94 (0.63)	1.50 (0.25)	2.25 (0.45)	2.18 (0.36)	1.97 (0.52)	2.17 (0.57)	2.06 (0.48)	1.71 (0.37)
Ataxic	2.19 (0.91)	2.48 (0.52)	1.97 (0.67)	1.47 (0.22)	1.98 (0.26)	2.08 (0.28)	2.21 (0.62)	2.41 (0.54)	1.75 (0.31)	1.79 (0.38)
Hypokinetic	2.13 (0.63)	2.21 (0.53)	2.07 (0.55)	1.63 (0.21)	2.21 (0.36)	2.15 (0.29)	1.97 (0.52)	2.31 (0.61)	2.16 (0.56)	1.97 (0.47)
Spastic	1.96 (0.63)	2.02 (0.44)	2.18 (0.55)	1.50 (0.21)	2.27 (0.65)	2.30 (0.37)	2.05 (0.52)	2.45 (0.49)	1.78 (0.22)	1.48 (0.17)