Supplemental Material S1. Effect of word length on variability.

Predictors	std. Beta	Estimates	CI	p
		Variability (CoV)		
(Intercept)		0.24	0.22 – 0.26	**<0.001**
Group PWS:PWTF	-0.14	-0.07	-0.11 – -0.03	**<0.001**
Word 1:2	-0.10	-0.05	-0.08 – -0.02	**0.001**
Word 1:3	0.22	-0.05	-0.09 – -0.02	**0.002**
Word 2:3	0.05	0.03	-0.01 – 0.06	0.102
Articulator Lip:Velum	0.09	-0.10	-0.13 – -0.08	**<0.001**
Articulator Lip:Tongue	-0.33	-0.10	-0.12 – -0.08	**<0.001**
Articulator Velum:Tongue	-0.09	0.01	-0.02 – 0.03	0.611
Group PWS:PWTF * word 1:2	0.08	0.02	-0.03 – 0.06	0.490
Group PWS:PWTF * word 1:3	-0.64	0.01	-0.04 – 0.06	0.778
Group PWS:PWTF * word 2:3	0.23	-0.01	-0.06 – 0.04	0.688
Word1:2 * Lip:Velum	0.03	0.02	-0.01 – 0.05	0.181
Word1:3 * Lip:Velum	0.36	0.05	0.02 – 0.08	**0.003**
Word2:3 * Lip:Velum	-0.08	0.03	-0.01 – 0.06	0.098
Word1:2 * Lip:Tongue	-0.09	0.05	0.02 – 0.09	**0.001**
Word1:3 * Lip:Tongue	0.29	0.09	0.06 – 0.12	**<0.001**
Word2:3 * Lip:Tongue	0.11	0.03	0.00 – 0.07	**0.040**
Word1:2 * Velum:Tongue	0.06	0.03	-0.00 – 0.06	0.051
Word1:3 * Velum:Tongue	0.13	0.04	0.01 – 0.07	**0.021**
Word2:3 * Velum:Tongue	0.08	0.01	-0.03 – 0.04	0.691
Group PWS:PWTF * Lip:Velum	-0.33	0.05	0.02 – 0.09	**0.005**
Group PWS:PWTF * Lip:Tongue	-0.44	0.06	0.03 – 0.10	**<0.001**
Group PWS:PWTF * Velum:Tongue	-0.12	0.01	-0.02 – 0.05	0.489

Group PWS:PWTF * Word 1:2 * Lip:Velum	-0.61	-0.03	-0.08 – 0.02	0.189
Group PWS:PWTF * Word 1:3 * Lip:Velum	0.36	-0.03	-0.08 – 0.02	0.179
Group PWS:PWTF * Word 2:3 * Lip:Velum	0.00	0.00	-0.05 – 0.05	0.968
Group PWS:PWTF * Word 1:2 * Lip:Tongue	-0.09	-0.04	-0.09 – 0.01	0.168
Group PWS:PWTF * word 1:3 * Lip:Tongue	0.29	-0.05	-0.10 – -0.00	**0.045**
Group PWS:PWTF * Word 2:3 * Lip:Tongue	0.10	-0.02	-0.07 – 0.03	0.527
Group PWS:PWTF * Word 1:2 * Velum:Tongue	0.64	-0.00	-0.05 – 0.05	0.949
Group PWS:PWTF * Word 1:3 * Velum:Tongue	0.09	-0.02	-0.07 – 0.03	0.509
Group PWS:PWTF * Word 2:3 * Velum:Tongue	-0.04	-0.02	-0.07 – 0.04	0.553

Random Effects

Marginal R^2	0.261
Conditional R^2	0.698
$N_{participant}$	48
Observations	411

R formula = variability ~ group * word * articulator + (1 + word | p_code), REML = TRUE, contrasts = contra.sum)