

Supplementary materials for ‘Acoustic-lexical characteristics of child-directed speech between 7 and 24 months and their impact on toddlers’ phonological processing’

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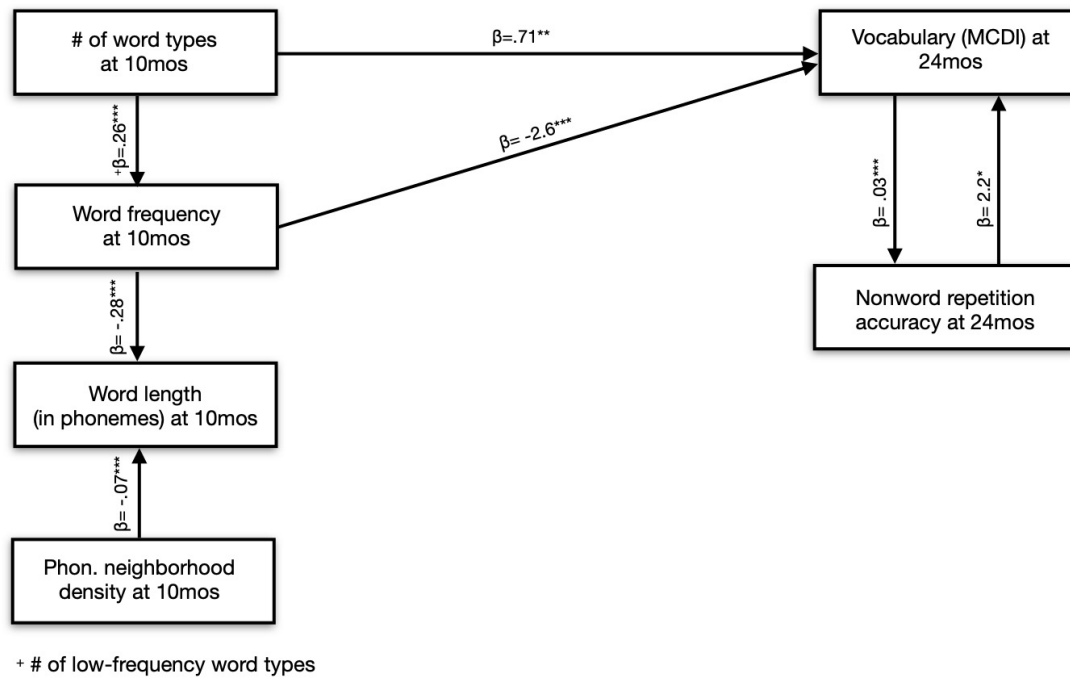


Figure 1. Lexical predictors (at 10 months) of nonword repetition accuracy and vocabulary size at 24 months.

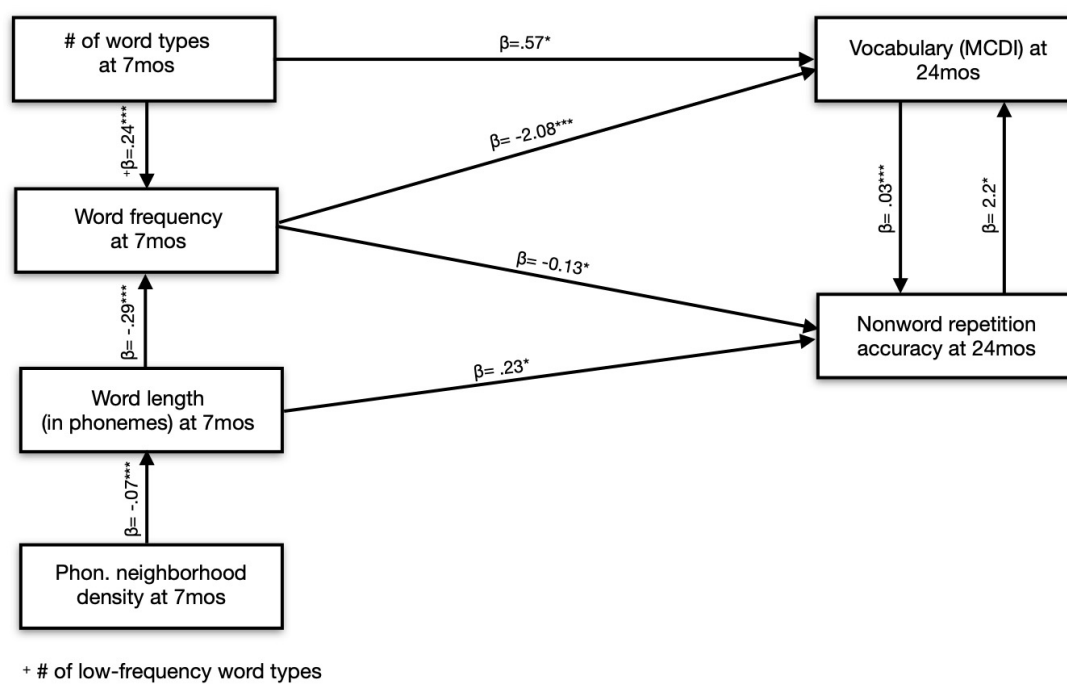


Figure 2. Lexical predictors (at 7 months) of nonword repetition accuracy and vocabulary size at 24 months.

Table 1

*Modeling the effect of lexical CDS parameters at 7 months on nonword repetition at 24 months*

	Word Frequency	Word length
Intercept	48.52*** (47.34, 49.70) t = 80.91 p .001	48.52*** (47.34, 49.69) t = 80.90 p < .001
Word frequency	−0.13* (−0.22, −0.03) t = −2.57 p = 0.02	
Word length		0.23* (0.05, 0.41) t = 2.51 p = 0.02
Rec. vocab. (7 months)	0.01 (−0.01, 0.02) t = 1.04 p = 0.30	0.01 (−0.01, 0.02) t = 1.06 p = 0.29
Mat. Ed.	4.63*** (4.33, 4.94) t = 29.63 p < .001	4.63*** (4.33, 4.94) t = 29.63 p < .001
Observations	16,225	16,225
Residual Std. Error (df = 16221)	15.96	15.96
F Statistic (df = 3; 16221)	298.83***	298.72***
<i>Note:</i>	*p<0.05; **p<0.01; ***p<0.001	

Table 2

*Modeling the effect of lexical CDS parameters at 10 months on expressive vocabulary at 24 months*

	Word types	Word frequency
Intercept	161.19 (-22.95, 345.33) t = 1.72 p = 0.10	323.56*** (313.01, 334.12) t = 60.09 p < .001
Word types	0.71** (0.18, 1.23) t = 2.65 p = 0.01	
Word frequency		-2.60*** (-3.48, -1.72) t = -5.81 p < .001
Gender	-47.24 (-109.88, 15.41) t = -1.48 p = 0.15	-54.57*** (-59.08, -50.06) t = -23.74 p < .001
Mat. Ed.	15.42 (-22.35, 53.20) t = 0.80 p = 0.43	17.89*** (15.13, 20.64) t = 12.72 p < .001
Observations	82	16,214
Residual Std. Error	142.52 (df = 78)	144.25 (df = 16210)
F Statistic	3.32* (df = 3; 78) (p = 0.03)	261.84*** (df = 3; 16210) (p < 0.001)

*Note:*

\*p&lt;0.05; \*\*p&lt;0.01; \*\*\*p&lt;0.001

Table 3

*Modeling the effect of lexical CDS parameters at 7 months on expressive vocabulary at 24 months*

	Word types	Word frequency
Intercept	208.48* (35.30, 381.66) t = 2.36 p = 0.03	339.81*** (329.51, 350.12) t = 64.62 p < .001
Word types	0.57* (0.12, 1.01) t = 2.49 p = 0.02	
Word frequency		-2.07*** (-2.93, -1.22) t = -4.73 p < .001
Gender	-48.02 (-110.41, 14.37) t = -1.51 p = 0.14	-48.90*** (-53.35, -44.45) t = -21.55 p < .001
Mat. Ed.	10.24 (-27.75, 48.23) t = 0.53 p = 0.60	12.69*** (9.97, 15.41) t = 9.15 p < .001
Observations	81	16,313
Residual Std. Error	141.28 (df = 77)	143.41 (df = 16309)
F Statistic	2.84* (df = 3; 77) (p = 0.05)	191.76*** (df = 3; 16309) (p < 0.001)

*Note:*

\*p&lt;0.05; \*\*p&lt;0.01; \*\*\*p&lt;0.001