

Supplemental Material S2. Analysis of the participant's phonetic repertoire.

Consonants																										
	/p/	/b/	/t/	/d/	/k/	/g/	/m/	/n/	/ŋ/	/f/	/v/	/θ/	/ð/	/s/	/z/	/ʃ/	/ʒ/	/h/	/ʔ/	/tʃ/	/dʒ/	/w/	/l/	/ɹ/	/ɹ/	/j/
Frequency (%) ^a	10	15	13	15	3	2	15	3	0	0.8	0	0	3	5	0.8	0.8	0	4	0.3	0.8	0	5	0	3	1	
Accuracy (%) ^a	58	76	61	57	0	0	79	75	0	0	0	0	0	0	0	67	0	44	100	67	0	82	0	0	40	
SML rating ^b	2	1	1	2	4	4	1	1	4	2	4	4	4	4	4	3	4	4	3	4	4	3	4	4	2	

Vowels and diphthongs																									
	/i/	/ɪ/	/ɛ/	/æ/	/ə/	/ʌ/	/ɑ/	/ʊ/	/u/	/ɔ/	/ɒ/	/əɪ/	/əʊ/	/aʊ/	/iʊ/	/ɪə/	/aɪ/	/a:ɪ/	/ɔɪ/	/ɜ:/	/ə-/				
Frequency (%) ^a	8	4	14	7	2	14	4	6	6	14	6	0	6	3	0.4	5	3	0	0	0.4	0.7				
Accuracy (%) ^a	91	64	82	90	60	87	90	94	94	90	100	0	63	71	0	43	75	0	0	0	0				
SML rating ^b	1	1	1	1	2	2	1	1	1	1	1	2	2	2	4	3	1	1	1	4	4				

Note. SML = speech motor learning. Age-appropriate consonants (acquired before or by age 3 years) are indicated in bold (Arlt & Goodban, 1976; Dodd, Holm, Hua, & Crosbie, 2003; Prather, Hedrick, & Kern, 1975). Vowels are reported to be generally mastered by 3 years (Lowe, 1994).

^a*Frequency of occurrence (%)* and *accuracy (%)* of sounds in words were obtained from a 15-min spontaneous speech sample and picture-naming task. This analysis was performed by the second author. Number of words (some were simply sounds in imitation of, for example, a car driving) was 243 and 35% was intelligible. *Accuracy*: Consonant average % accuracy: 55.2%; vowel and diphthong average % accuracy: 81.7%

^b*SML rating* refers to the assigned rating of each sound after the three pretreatment sound stimulability assessments of sounds in isolation (see selection of three sound sets in text).

References

- Arlt, P. B., & Goodban, M. T. (1976). A comparative study of articulation acquisition as based on a study of 240 normals, aged three to six. *Language, Speech, and Hearing Services in Schools*, 7, 173–180. <https://doi.org/10.1044/0161-1461.0703.173>
- Dodd, B., Holm, A., Hua, Z., & Crosbie, S. (2003). Phonological development: A normative study of British English-speaking children. *Clinical Linguistics & Phonetics*, 17(8), 617–643. <https://doi.org/10.1080/0269920031000111348>
- Lowe, R. J. (1994). *Phonology: Assessment and intervention applications in speech pathology*. Baltimore, MD: Williams & Wilkins.
- Prather, E., Hedrick, D., & Kern, C. (1975). Articulation development in children aged two to four years. *Journal of Speech and Hearing Disorders*, 40, 179–191. <https://doi.org/10.1044/jshd.4002.179>