

Supplemental Material S5. Sound Production Treatment protocol.

Sound Production Treatment	
Coded session number	
General observations	Plus/minus
All 16 targets were treated during the session	
The clinician was sitting facing the participant	
There was minimal background noise or distraction during the session.	
Correct production elicited 5x (in majority of session)	
Specific cueing hierarchy followed in majority of session (below)	
Number of trials with explicit feedback related to rate and/or rhythm of production (e.g., "Slowly")	
Measure	Number
Duration of treatment session	
Number of trials offered in the treatment session	
Number of trials that skipped or missed a level in the hierarchy	
Additional Comments	
<p style="text-align: center;">Cueing hierarchy</p> <ol style="list-style-type: none"> 1. The clinician will state the target word and ask for repetition using the carrier phrase, "I say..." 2. The clinician will write the target sound, underlining the sound in error, repeat the word, and request repetition. 3. The clinician will use the integral stimulation cues, "watch me, listen to me, say it with me," and ask the participant to produce the target (up to three times). 4. The clinician will provide articulatory placement cues for the production in error and use integral stimulation to request repetition. 	

Based on Wambaugh, J. L., Nessler, C., Cameron, R., & Mauszycki, S. C. (2013). Treatment for acquired apraxia of speech: Examination of treatment intensity and practice schedule. *American Journal of Speech-Language Pathology*, 22(1), 84–102. [https://doi.org/10.1044/1058-0360\(2012/12-0025\)](https://doi.org/10.1044/1058-0360(2012/12-0025))