

Supplemental Material S1. Speech sound error coding rules and decisions.

1. Articulation Errors (AE)
 - a. Distortions – all
 - b. /s/ - frontal, lateral
 - c. /r/ & “er”
 - i. central, vocalized, /w/ for /r/ = articulation error
 - ii. final “er” to an /o/ = vocalization error, therefore, count as PE not articulation
 - iii. final “er” is centralized = articulation error
 - d. f/th and v/th
 - e. vowel changes – do not count

2. Phonological Errors (PE)
 - a. Use Khan-Lewis Phonological Assessment form as reference
 - b. Do not distinguish between typical and atypical
 - c. More than 1 process on a phoneme – count only once
 - i. “f” for “sl” = fronting & cluster reduction; count 1 PE
 - d. /w/ for /l/ = PE (gliding)