

Supplemental Material S1: Speech Analysis Results

| Child | Assessment | PCC ^a | Phonetic inventory ^{b,c} | | Largest collapse |
|----------|---------------------|------------------|---|--|------------------|
| | | | Word initial position | Word final position | |
| Princess | Initial | 61.0 | p b t d k g m n h w j pw bw tw dw kw gw pj bj pl bl kl gl bɪ ^w tɪ ^w dɪ ^w kɪ ^w | p b t d k g m n ŋ f v s z ts dz l C-/s/, C-/z/, nasal-C, /l/-C | 11:1 |
| | Immediate follow-up | 62.7 | p b t d k g m n f (ʃ) h (tʃ) dʒ (ts) w j (l) ɪ ^w dw kw gw bj kj pl bl kl gl fl pɪ ^w bɪ ^w tɪ ^w dɪ ^w kɪ ^w ɡɪ ^w st | p b t d k g m n ŋ f v s z (ʃ) tʃ dʒ (ts) l C-/s/, C-/z/, -ft, nasal-C | 8:1 |
| | Final follow-up | 63.1 | p b t d k g m n f (θ) (ʃ) h (tʃ) w j l ɪ ^w tw kw pj bl kj nj pl bl kl gl sl pɪ bɪ tɪ dɪ kɪ ɡɪ | p b t d k g (?) m n ŋ f v s z ʃ tʃ dʒ l C-/s/, C-/z/, /s/-C, nasal-C, /l/-C | 8:1 |
| Thomas | Initial | 53.2 | p b t d k q ^h m n v s z h w (j) pw bw tw dw fw | p b t d k g q ^h m n f v s z ʃ ts dz (l) C-/s/, C-/z/, nasal-C, /l/-C | 7:1 |
| | Immediate follow-up | 72.5 | p b t d k g q ^h m n f v s z ʃ h tʃ dʒ w j (l) ɪ ^w pw bw tw kw gw fw kj pɪ ^w bɪ ^w tɪ ^w kɪ ^w fɪ ^w sɪ ^w st sk sn spw skw stɪ ^w skɪ ^w | p b t d k g m n f v s z ʃ (dʒ) ts l C-/s/, C-/z/, /s/-C, -ft, nasal-C, /l/-C | 2:1 |
| | Final follow-up | 74.5 | p b t d k g q ^h m n f v s z ʃ h tʃ dʒ w j ɪ ^w pw bw tw kw gw fw kj pɪ ^w bɪ ^w tɪ ^w kɪ ^w fɪ ^w sɪ ^w sp st sk sn spw skw stɪ ^w skɪ | p b t d k g m n (ŋ) f v s z dʒ ts l C-/s/, C-/z/, /s/-C, -pt, -ft, nasal-C, /l/-C | 2:1 |
| Owen | Initial | 39.7 | b d m n f v (s) ʃ h (tʃ) dʒ w j ɪ tj dj nj bɪ ɡɪ | p b t d m n f v s z (ʒ) tʃ (dʒ) C-/s/, nasal-C | 16:1 |
| | Immediate follow-up | 46.1 | b t d g m n f v s z ʃ h tʃ dʒ w j ɪ | p b t d (k) m n (ŋ) f v s z ʃ tʃ l | 15:1 |

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|----------|---------------------|------------------|--|--|------------------|
| | | | Word initial position | Word final position | |
| Marshall | Final follow-up | 44.0 | bw dj nj bl gl bɪ dɪ kɪ gɪ st skɪ | C-/s/, nasal-C | 14:1 |
| | | | p b t d k g m n f v s z ʃ h ʈ ɖ ʒ w j ɹ | p b t d m n f v s z ʃ ʈ l | |
| | | | pw bw kw gw bj fj vj kl gl bɪ gɪ sp st sk stɪ skɪ | C-/s/, nasal-C | |
| | Initial | 29.1 | b d m n w j l | p b t d m n l | 18:1 |
| | | | bj, bl | nasal-C | |
| | | | p b t d m n (f) v (h) w j l (ɹ) ɹ ^w | p b t d (k) (g) ʔ m n (s) (z) ʃ (ɖ) l | |
| Gracie | Immediate follow-up | 35.5 | kj nj bl gl | nasal-C | 17:1 |
| | | | p b t d (k) m n (f) (h) w j l ɹ ^w | p b t d m n s (z) (ʃ) (ɖ) l | |
| | | | bj kj bl dw sn | nasal-C | |
| | Final follow-up | 34.0 | p b t d (k) m n (f) (h) w j l ɹ ^w | p b t d m n s (z) (ʃ) (ɖ) l | 15:1 |
| | | | bj kj bl dw sn | nasal-C | |
| | | | p b t d k g m n h w j l ɹ ^w | p b t d k g m n ŋ f v s z ɖ l | |
| | Initial | 52.5 | bw dw | C-/s/, C-/z/, /s/-C, nasal-C, /l/-C | 10:1 |
| | | | p b t d k g m n f v (θ) ð s ʃ h ʈ ɖ ʒ w j l ɹ | p b t d k g m n ŋ f v s z (ʃ) ɖ ʒ (ɖ) l | |
| | | | kw sw fj bl pɹ ^w bɹ ^w tɪ kɪ fɹ ^w sp st sn sl sw | C-/s/, C-/z/, /s/-C, nasal-C, /l/-C | |
| | Immediate follow-up | 79.4 | p b t d k g m n f v (θ) ð s ʃ h ʈ ɖ ʒ w j l ɹ | p b t d k g m n ŋ f v s z (ʃ) ɖ ʒ (ɖ) l | 5:1 |
| | | | kw sw fj bl pɹ ^w bɹ ^w tɪ kɪ fɹ ^w sp st sn sl sw | C-/s/, C-/z/, /s/-C, nasal-C, /l/-C | |
| | | | p b t d k g m n f v (θ) ð s z ʃ h ʈ ɖ ʒ w j l ɹ | p b t d k g m n ŋ f v (ð) s z ʃ ɖ ʒ l | |
| | Final follow-up | 84.4 | kw sw pl bl kl gl fl pɹ bɹ tɪ kɪ gɪ fɹ sp st sk sn sl sw stɪ skɪ spl skw | C-/s/, C-/z/, /s/-C, -ft, nasal-C, /l/-C | None |
| | | | | | |

^aPCC = percentage of consonants correct, as measured by the DEAP phonology subtest, ^bSounds produced on 2 or more occasions within the speech sample are included, with marginal phones included in parentheses, ^cSpecific word initial clusters are listed, whereas categories of word-final clusters are noted, (e.g., C-/s/ = word-final consonant + /s/ clusters; nasal-C = word-final nasal + consonant clusters)