

Summary of paper titled: Evaluating a new clinical palatometer system

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Overall results for clients

Client # and conditions	Age	Years in therapy prior to EPG	Specific EGP Target	Initial Score (%)	Final Score (%)	Number of Sessions	Notes	Re-Evaluation after 1 year
C1	10	5	initial /r/		85	17 (8.5 weeks)	83% accurate for all types of /r/ in spontaneous speech	no errors
C2	8	4	initial /r/	0	100	1 personal 5 vicariously C1 was brother	pseudopalate malfunctioned and was not able to be repaired quickly	no errors
C3	12	3	consonantal /r/ post-vocalic /r/	57.5 15	100 70	12 12	unable to continue treatment after 12 sessions	errors noted
C4	12	4	consonantal/r/ post-vocalic/r/	57.5 5	90 100	14 18		no errors in 5 min. of spontaneous speech
C5 hypotonia	10	5	initial /r/ post-vocalic /r/ final /ŋ/ intervocalic /r/	65 80 5 15	95 100 100 100	17 17 8 15	overall articulation precision and intelligibility in spontaneous speech also improved.	continued working with school SLP to maintain his improved articulation
C6 hypotonia expressive and receptive language delays	10	5	consonantal /r/ post vocalic /r/ final /ŋ/	25 5	100 55	6 19	overall articulatory precision improved, as did intelligibility in spontaneous speech	continued to be variable in production as he continued to work with school SLP
C7	11	3	alveolar posture initial /l/ initial /t/ initial /s/	0 0 0 0	100 100 100 100	7 9 12 20	By the final session she was able to produce undistorted /s z/ consistently in 5 min. of spontaneous speech	not possible

C8	7	4	initial /s/ intervocalic /s/ final /s/	20 65 40	100 100 100	16 15 15	He was able to visualize for himself the position and consistency of his productions	
C9 repaired unilateral cleft lip	10	6	initial /d ₃ / initial /f/ initial /r/ initial /tʃ/	0 50 0 40	100 100 100 100	15 23 30 (15 weeks) 7	Had generalized production of all sounds to spontaneous speech with approximately 85% accuracy	approximately 95% accurate in spontaneous speech
C10 velo-cardio-facial (VCF) syndrome	11	4	initial /g/ initial /k/	0 0	100 100	21 24	Generalized productions to phrases and was 100% accurate in 5 min. of spontaneous speech	not possible
C11 expressive language delays and delayed in reading	8	4	placement /k/ placement /g/ velar nasal post-vocalic /r/		100 100 100 100	1 1 2 6	Articulatory treatment continued focusing on generalizing and velar production in spontaneous speech	no errors found for phonemes and complex multisyllabic words were produced accurately
C12 developmental apraxia of speech	8	6	initial /g/ initial /k/ intervocalic /g/ intervocalic /k/ final /g/ final /k/ intervocalic /ŋ/ consonantal /r/ post-vocalic /r/	0 0 0 0 0 0	100 100 100 100 100 100 100 100 100	4 8 4 7 7 4 6 10 10	Unable to continue treatment at the Palatometer Clinic but returned to his school SLP to focus on spontaneous speech work with multisyllabic words	