



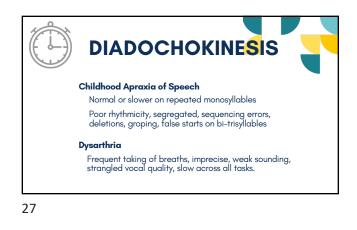








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								·		
		Norms in seconds for DDK syllable rat								
			Age:							
Task	Reps	Seconds	6	7	8	9	ю	1	12	в
/puh/	2.0		4.8	4.8	4.2	4.0	3.7	3.6	3.4	3.3
/tuh/	20		4.9	4.9	4.4	4.1	3.8	3.6	3.5	3.3
/kuh/	2.0		5.5	5.3	4.8	4.6	4.3	4.0	3.9	3.7
	standard a	leviation:	LO	1.0	0.7	0.7	0.6	0.6	0.6	0.6
	-									
/puh tuh kuh/	10		10.3	10.0	8.3	7.7	7.1	6.5	6.4	5.7
	standard a	leviation:	2.8	2.8	2.0	2.0	15	15	15	15













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### **Results:**

An oral mechanism exam was administered to assess Hudson's orofacial mechanism and motor control. He had no difficulty with labial speed of motion, strength, or range of movement. His lingual strength, speed, and range of movement of the tongue as he exhibited mildly extraneous jaw movement. Hudson did not exhibit mouth breathing at the times, but he had minimal trouble with rapid side-to-side movement of the tongue as he exhibited mildly extraneous jaw movement. Hudson did not exhibit mouth breathing at the time of the assessment. Upon observation of his oral cavity, Hudson's pharym and soft palate appeared typical with no noted during phonation was also noted. His hard palate was only slightly high and narrow, but well within functional limits for speech. Adequate posterior characterized by a few missing and loose incisors. No malocclusions were observed. All oral structures appeared to be symmetrical and judged to be within functional limits for speech. Didachokinetic rates were age-appropriate, as he was able to produce 20 monosyllables in 6 seconds and 10 productions of tri syllables in less than 10 seconds with no observed difficulty.

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### Impressions:

Hudson is a 6-year, 11-month-old male, who exhibits a mild speech sound disorder, characterized by persistent assimilation errors and syllable deletions on multisyllabic words, inconsistent gliding or "r" and "l" sounds, and substitution errors of the "th" sound.

### **Results of Tx:**

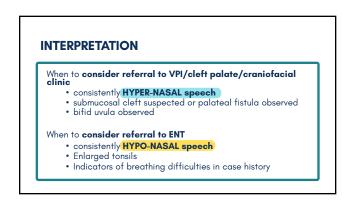
Discharged after 6 months of intervention, once a week for 30-minute





## INTERPRETATION When to consider myofunction deficits as possible contributors to articulation distortions • Mouth breathing observed • Low and/or forward tongue position at rest • High/narrow palate • Malocclusions and/or crowding of teeth • Other indicators in case history and interdentalized alveolars noted during speech assessment • Consider referrals to ENT, myospecializing

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# REMEMBER...

- Consider findings within the context of the child's specific speech errors
- Considerations can support a differential diagnosis
- Referrals vs. informing caregivers of possible concerns or relevant specialists
- It doesn't take that long... just do it!
- Don't assume causation even when you see something atypical

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### References

"Angle's Classification of Malocclusion"

- https://web.archive.org/web/20080213164657/http://www.unc.edu/depts/appl\_sci/ortho/introducti on/angles.html Archived from the original on 2008-02-13. Retrieved 2019-04-28 • Bensard, D.D., Beauchamp, K.M. (2012). Gag Reflex. In: Vincent, JL., Hall, J.B. (eds) Encyclopedia of
- Intensive Care Medicine. Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-00418-6\_416 Fletcher, S.G. (1972), "Time-by-Count Measurement of Diadochokinetic Syllable Rate." Journal of Speech and Hearing Disorders, 15, 763-770.
- Iuzzini-Seigel J, Allison KM, Stoeckel R. A Tool for Differential Diagnosis of Childhood Apraxia of Speech and Dysarthria in Children: A Tutorial. Lang Speech Hear Serv Sch. 2022 Oct 6;53(4):926-946. doi:
- 10.1044/2022\_LSHSS-21-00164. Epub 2022 May 6. PMID: 35523425. Khan, M., Ullah, H., Naz, S., Iqbal, T., Ullah, T., Tahir, M., & Ullah, O. (2013). A Revised Classification of the
- Cleft Lip and Palate. The Canadian Journal of Plastic Surgery, 21(1), 48–50. Kumar DS, Valenzuela D, Kozak FK, et al. The Reliability of Clinical Tonsil Size Grading in Children. JAMA Otolaryngol Head Neck Surg. 2014;140(11):1034-1037. Kummer AW., Ankyloglossia: To Clip or Not to Clip? That's the Question. The ASHA Leader. 2005; December 27.

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#### References

- Kummer AW., Ankyloglossia: To Clip or Not to Clip? That's the Question. The ASHA Leader. 2005;
- December 27
- Leite, M. A., Orsini, M., de Freitas, M. R., Pereira, J. S., Gobbi, F. H., Bastos, V. H., ... Oliveira, A. B. (2014). Another Perspective on Fasciculations: When Is It Not Caused by the Classic form of Amyotrophic Lateral
- Sclerosis or Progressive Spinal Atrophy?. Neurology international, 6(3), 5208.
  Martinelli, R. L., Marchesan, I. Q., Gusmão, R. J., Honório, H. M., & Berretin-Felix, G. (2015). The Effects of
- Frenotomy on Breastfeeding. Journal of Applied Oral Science, 23(2), 153–157. Mason, M.M. & Simon, S. (1977) An Orofacial Exam Checklist. Language, Speech, and Hearing Services in
- Schools, 8(3), 155-163. Shipley, K.G. & McAfee, J.G., (1992). Assessment in Speech-Language Pathology: A Resource Manual, San
- Diego: Singular Publishing Group, Inc. Shprintzen RJ, Schwartz RH, Daniller A, Hoch L. Morphologic significance of bifid uvula. Pediatrics. 1985;75:553-61.
- Shprintzen RJ, Schwartz RH, Daniller A, Hoch L. Morphologic significance of bifid uvula. Pediatrics. 1985 Mar;75(3):553-61. PMID: 3975126. • Wren, Y., Miller, L. L., Peters, T. J., Emond, A., & Roulstone, S. (2016). Prevalence and predictors of persistent
- speech sound disorder at eight years old: Findings from a population cohort study. Journal of Speech, Language, and Hearing Research, 59, 647-673.