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Phonological Errors in the Speech of Francophone Children

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Acknowledgements



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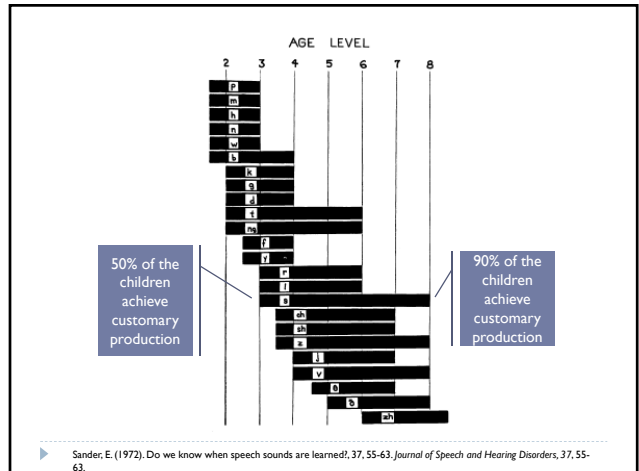
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www.medicine.mcgill.ca/srvachew



New Segment Norms for Québec French

- ▶ Casse-tête d'évaluation de la phonologie (Auger, 1994)
- ▶ 40 target words that represented all possible initial, medial, and final consonants of Québécois French
- ▶ 42.5% 1-syllable; 50% 2-syllable; 7.5% 3-syllable
- ▶ Mastery prior to 36 mo:
 - ▶ /p, t, m, n, f, z, ʀ/
- ▶ Mastery between 36 and 53 mo:
 - ▶ /b, d, k, g, v, l, w, ʁ, u/
- ▶ Mastery after 53 mo (but customary production before 53 mo):
 - ▶ /s, ʃ, ʒ, j/

▶ MacLeod, A.A.N., Sutton, A., Trudeau, N., & Thordardottir, E. (2011). The acquisition of consonants in Québec French: A cross-sectional study of preschool aged children. *International Journal of Speech-Language Pathology*, 13, 93-109.

Pre-Treatment and Post-Treatment Speech Production Accuracy (TFP; 54 items)

In speech of Francophone Adults:

1 syllable	28%
2 syllables	50%
3 syllables	19%
4 syllables	4%
syllable w/ coda	36%
syllable w/ cluster	15%
inter-rater reliability	93%
test-retest reliability	93%
convergent validity	83%

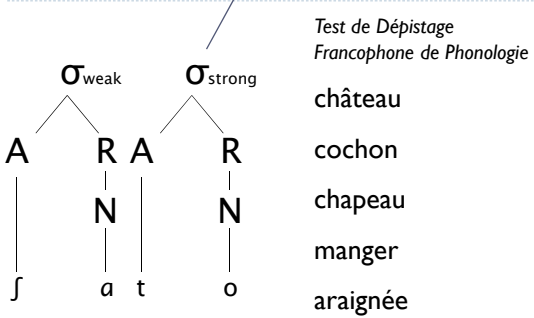
▶ Test Francophone de Phonologie (Paul & Rvachew) from Paul, M. (2009). Predictors of consonant development and the development of a test of French phonology. McGill University, Montréal, Québec. Available from www.medicine.mcgill.ca/srvachew.

Word Elicitation



- ▶ (s) **Le garçon est déguisé en _____?**
- ▶ Il nous fait rire, c'est un _____?
- ▶ (ir) Clown. Il nous fait rire, c'est un _____?
- ▶ (ii) Dis « clown »?
- ▶ (s) **(pointer) Ça, c'est un _____?**
- ▶ Sur sa tête, il a un _____?
- ▶ (ir) Chapeau. Sur sa tête, il a un _____?
- ▶ (ii) Dis « chapeau »?

CV Structures



▶ TEST DE DÉPISTAGE FRANCOPHONE DE PHONOLOGIE © RVACHEW, S., BROUSSEAU-LAPRÉ, F. & PAUL, M. (2012). Available from www.medicine.mcgill.ca/srvachew

CVC Structures

*Test de Dépistage
Francophone de Phonologie*

niche	serpent
langue	escalier
singe	tournevis
beigne	garde-robe
soleil	hélicoptère
vaisselle	
girafe	

▶ TEST DE DÉPISTAGE FRANCOPHONE DE PHONOLOGIE © RVACHEW, S., BROUSSEAU-LAPRÉ, F. & PAUL, M. (2012). Available from www.medicine.mcgill.ca/srvachew

Gn Structure (Glide in the Nucleus)

*Test de Dépistage
Francophone de Phonologie*

nuage
avion
camion
marionnettes
aquarium

▶ TEST DE DÉPISTAGE FRANCOPHONE DE PHONOLOGIE © RVACHEW, S., BROUSSEAU-LAPRÉ, F. & PAUL, M. (2012). Available from www.medicine.mcgill.ca/srvachew

Ab Structure (Attaque Branchante)

*Test de Dépistage
Francophone de Phonologie*

glissade
clown
framboises
bibliothèque
enveloppe
parapluie
train

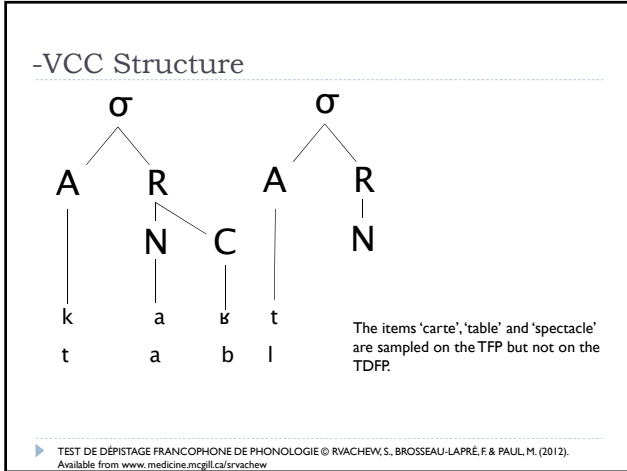
▶ TEST DE DÉPISTAGE FRANCOPHONE DE PHONOLOGIE © RVACHEW, S., BROUSSEAU-LAPRÉ, F. & PAUL, M. (2012). Available from www.medicine.mcgill.ca/srvachew

-V.V-Structure (word internal empty onset)

*Test de Dépistage
Francophone de Phonologie*

géant

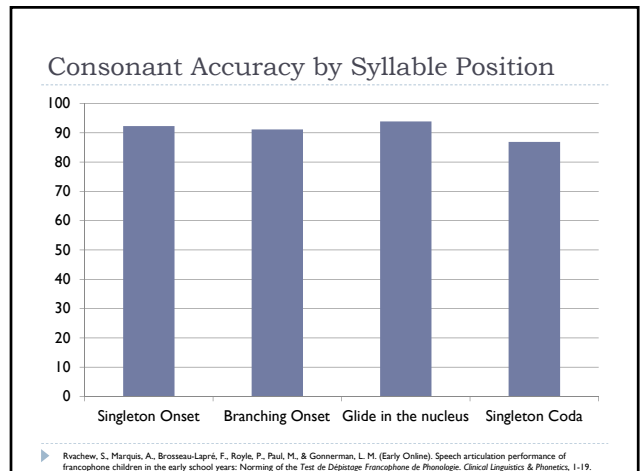
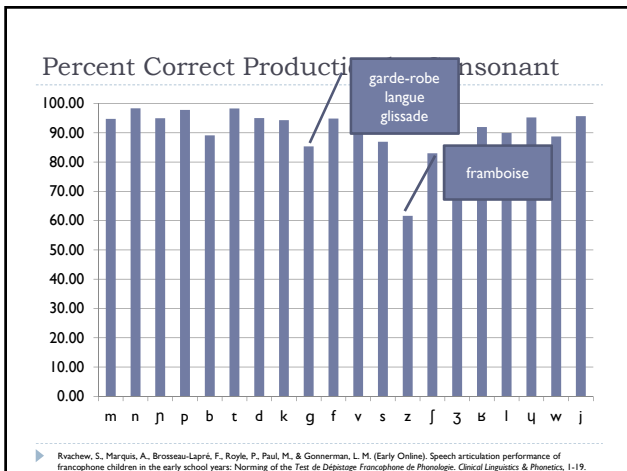
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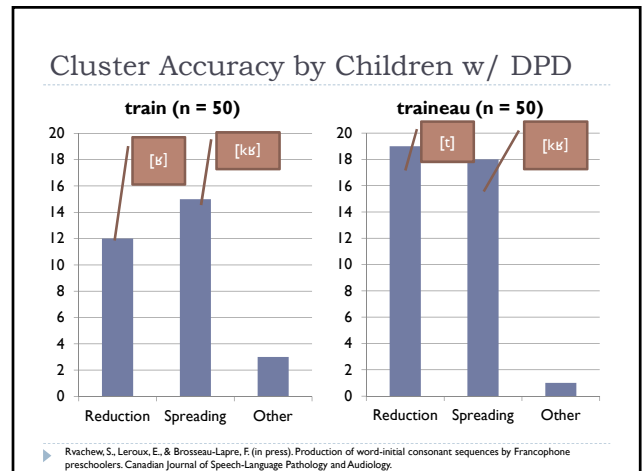
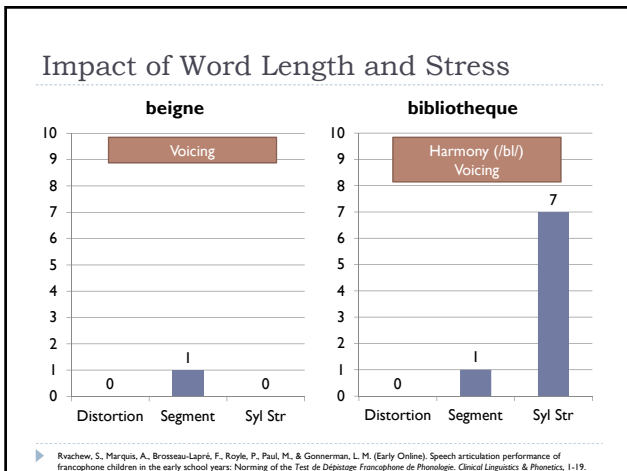
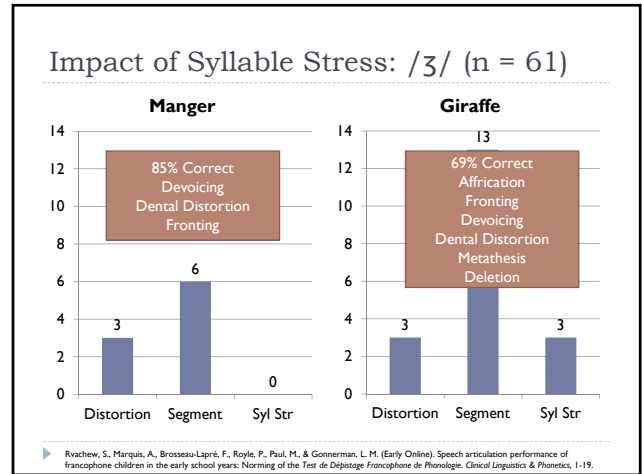
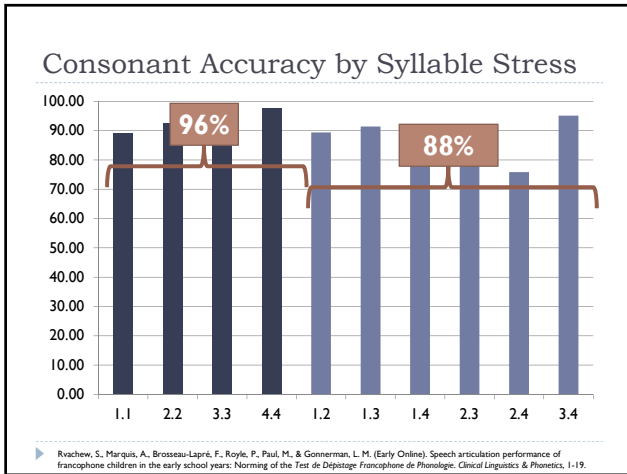


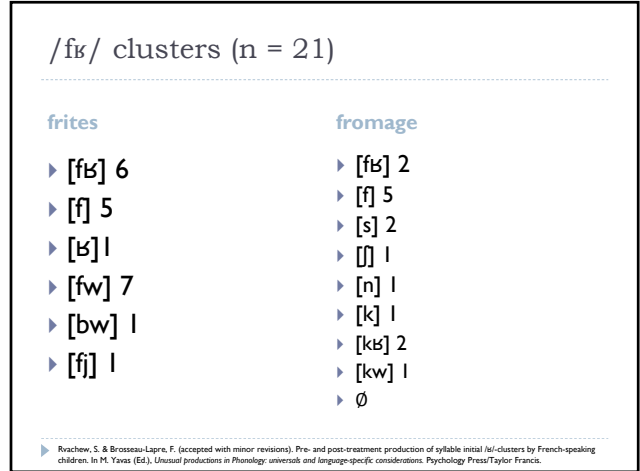
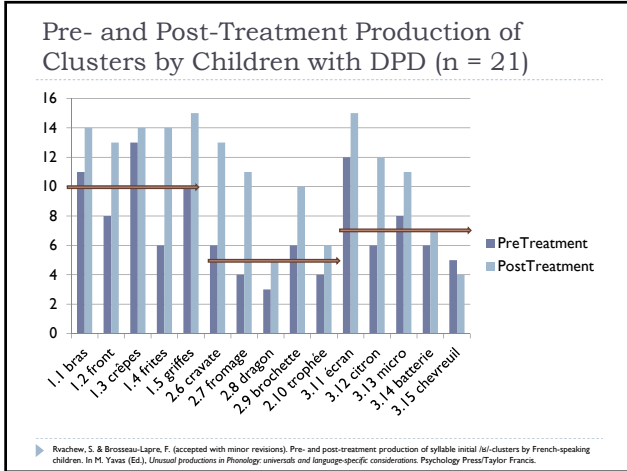
TDFP: Normative Data

	Maternelle	Première Année
Sample size	43	18
Boys/Girls	21/22	11/7
L1/ L2	24/19	12/6
Mean (SD) Age in years	6;1 (3;7)	7;2(3.88)
Age at first word in months	11.93	11.00
Maternal education in years	14.28	15.00

Rvachew, S., Marquis, A., Brosseau-Lapré, F., Royle, P., Paul, M., & Gonnerman, L. M. (Early Online). Speech articulation performance of francophone children in the early school years: Norming of the Test de Dépistage Francophone de Phonologie. *Clinical Linguistics & Phonetics*, 1-19.









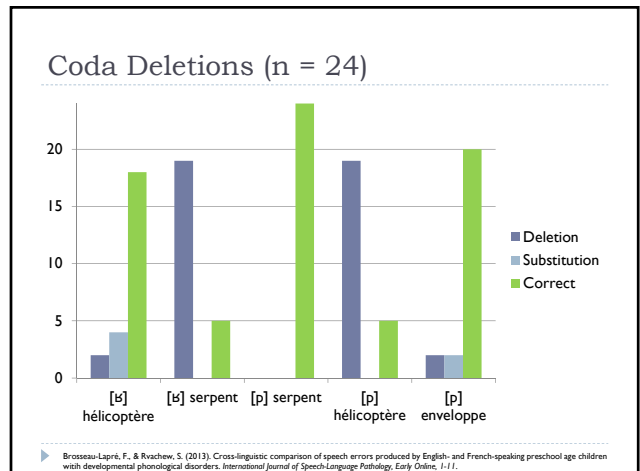


Segment Accuracy vs. Syllable Structure Errors

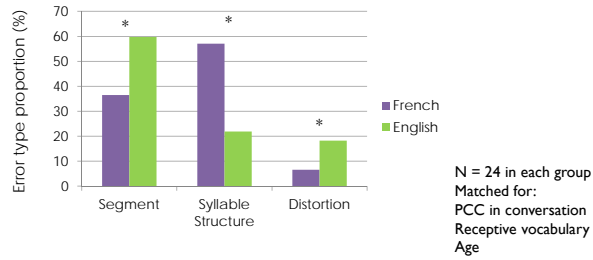
Participant 2109

	Target	Production
	/ʃapo/	[ʃapo]
	/kaʁt/	[kat]
	/ʁaptise/	[ʁatise]
	/elikɔptɛʁ/	[etɔtɛʁ]

Brosseau-Lapre, F., & Rvachew, S. (2013). Cross-linguistic comparison of speech errors produced by English- and French-speaking preschool age children with developmental phonological disorders. *International Journal of Speech-Language Pathology, Early Online*, 1-11.



French vs English Comparison of Speech Error Types



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Conclusions

- ▶ French is not English
- ▶ Important to consider prosodic structure when describing segment acquisition
- ▶ Phonological development in French children is not complete by age 53 months
- ▶ Developmental Phonological Disorder in French is characterized by errors at the prosodic level of the phonological hierarchy that may reflect encoding difficulties
- ▶ More controlled study is required to fully understand the impact of syllable structure, word length and syllable stress on the children's segment errors