

Speech Disfluencies in Typically Developing Bilingual Yiddish-Dutch Speaking Children.

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Rationale

More bilingual than monolingual speakers (Grosjean, 2010)
 Bilingual speakers more disfluent than monolingual speakers (Byrd, 2018)
 SLP's ability to discern absence of stuttering is compromised (Byrd, Watson, Bedore, & Mullis, 2015)
 In Spanish-English children mean % SLD is 3 – 22 (Byrd, Bedore & Ramos, 2015)

Research questions:

- What is the mean %SLD in Yiddish-Dutch children?
- Do age and language have an impact?

Method

Participants 59 bilingual Yiddish-Dutch children
 12 boys, 47 girls
 Age 6-7: n = 29
 Age 9-10: n = 30
 Successive bilingual
 Yiddish dominant
 Typically developing children
 No parental concern re. fluency

Speech samples Spontaneous speech sample
 Minimum 300 words
 Transcribed and coded
 Interrater reliability 10% of samples = .92

Parent questionnaire Language dominance
 Language proficiency
 Speech and language development

Conclusion

- Mean %SLD exceeds 3% criterion for younger group in Yiddish, for both groups in Dutch
- Impact age → more OD in older age group in both languages
- Impact language → more SLD and OD in Dutch (non-dominant language)

Results

Stuttering-like Disfluencies

Type	Age	Yiddish	Dutch
		Mean (SD)	Mean (SD)
SLD			
Monosyllabic word repetition	6:01 - 7:07	2.23 (1.52)	2.96 (1.98)
	9:00 - 10:04	2.31 (1.42)	3.91 (2.14)
Part-word repetition			
Sound repetition	6:01 - 7:07	0.51 (0.64)	0.48 (0.57)
	9:00 - 10:04	0.20 (0.28)	0.34 (0.40)
Syllable repetition	6:01 - 7:07	0.36 (0.33)	0.43 (0.42)
	9:00 - 10:04	0.19 (0.20)	0.46 (0.44)
Dysrhythmic phonation			
Prolongation	6:01 - 7:07	0.11 (0.20)	0.12 (0.29)
	9:00 - 10:04	0.11 (0.23)	0.13 (0.21)
Block	6:01 - 7:07	0.11 (0.16)	0.07 (0.15)
	9:00 - 10:04	0.07 (0.16)	0.08 (0.15)
Broken word	6:01 - 7:07	0.07 (0.14)	0.17 (0.38)
	9:00 - 10:04	0.07 (0.11)	0.10 (0.18)
Total SLD	6:01 - 7:07	3.38 (1.77)	4.18 (2.40)
	9:00 - 10:04	2.93 (1.51)	5.10 (2.14)

Other Disfluencies

Type	Age	Yiddish	Dutch
		Mean (SD)	Mean (SD)
OD			
Multisyllable word repetition	6:01 - 7:07	0.13 (0.18)	0.07 (0.14)
	9:00 - 10:04	0.21 (0.37)	0.09 (0.14)
Interjection	6:01 - 7:07	2.67 (1.72)	3.96 (2.50)
	9:00 - 10:04	2.41 (1.56)	3.89 (1.96)
Phrase repetition	6:01 - 7:07	0.52 (0.41)	0.60 (0.56)
	9:00 - 10:04	0.80 (0.54)	1.01 (0.82)
Revision			
Lexical revision	6:01 - 7:07	0.31 (0.32)	0.71 (0.58)
	9:00 - 10:04	1.14 (0.66)	1.59 (0.64)
Grammatical revision	6:01 - 7:07	0.00 (0.00)	0.06 (0.12)
	9:00 - 10:04	0.04 (0.09)	0.09 (0.17)
Phonological revision	6:01 - 7:07	0.04 (0.10)	0.08 (0.17)
	9:00 - 10:04	0.06 (0.11)	0.13 (0.18)
Unfinished word (or sentence)	6:01 - 7:07	2.05 (0.99)	2.22 (1.27)
	9:00 - 10:04	4.94 (5.75)	4.01 (1.39)
Total OD	6:01 - 7:07	5.71 (2.09)	7.54 (3.04)
	9:00 - 10:04	8.62 (2.52)	10.73 (3.44)

Impact age and language

Type	By language		By age group		Language by age group	
	F	p	F	p	F	p
SLD						
Monosyllabic word repetition	12.35	0.00**	2.45	0.12	1.72	0.19
Part-word repetition						
Sound repetition	0.43	0.51	6.20	0.01*	0.86	0.35
Syllable repetition	6.34	0.01*	1.28	0.26	2.30	0.13
Dysrhythmic phonation						
Prolongation	0.13	0.71	0.01	0.92	0.00	0.99
Block	0.27	0.61	0.19	0.66	0.60	0.44
Broken word	2.58	0.11	1.07	0.30	0.77	0.38
Total SLD	16.50	0.00**	0.41	0.52	3.54	0.06
OD						
Multisyllable word repetition	4.14	0.04*	1.53	0.22	0.52	0.47
Interjection	14.59	0.00**	0.21	0.65	0.07	0.79
Phrase repetition	1.70	0.19	9.43	0.00**	0.32	0.57
Revision						
Lexical revision	16.16	0.00**	66.07	0.00**	0.03	0.85
Grammatical revision	6.03	0.02*	3.61	0.06	0.06	0.80
Phonological revision	4.80	0.03*	1.63	0.20	0.26	0.61
Unfinished word (or sentence)	0.43	0.51	16.92	0.00**	0.93	0.34
Total OD	14.27	0.00**	34.47	0.00**	0.07	0.79

*p < .05
 **p < .005

Eggers, K., Van Eerdenbrugh, S. & Byrd, C. (In press). Speech disfluencies in bilingual Yiddish-Dutch speaking children. *Clinical Linguistics & Phonetics*.