

## Cross-Linguistic Influence in the Acquisition of Definiteness: Evidence from L2-Hebrew in the Context of Different L1s (English and Russian)

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### *Abstract*

Previous studies show cross-linguistic effects, i.e., effects of L1 properties, for the acquisition of articles in L2-English (see Ionin et al., 2022; Zdorenko & Paradis, 2008, 2012). The present study investigates the impact of L1 properties on the acquisition of definiteness marking in L2- Hebrew of bilingual children with L1-English and L1-Russian as compared to Hebrew-speaking monolingual child and adult control.

The three languages (Hebrew, Russian, and English) vary with respect to definiteness marking. Hebrew marks only definite nouns using the article *ha-*, whereas indefinite noun phrases are unmarked (Danon, 2001). English has indefinite articles for count nouns *a/an*, and the definite article *the* marks count, mass and plural nouns (e.g., Schaeffer & Matthewson, 2005). Russian has no articles in its grammatical system (e.g., Nichols, 1988). Previous studies on definiteness marking in Hebrew show that monolingual children exhibit adult-like production by age 3;0 (Uziel-Karl, 2015; Zur, 1983).

Using the "Baby bird" narrative in Hebrew of the Multilingual Assessment Instrument for Narratives (MAIN) (Gagarina et al., 2012), four groups participated in the study: (1) Monolingual Hebrew-speaking adults (N=20), (2) Monolingual Hebrew-speaking children (N=20, ages 5-8), (3) English-Hebrew-speaking bilinguals (N=20, ages 5-10), and (4) Russian- Hebrew-speaking children (N=27, ages 5-8). Narratives were transcribed using the CHILDES project (MacWhinney & Snow, 1990). Coding scheme included Definiteness (+/-), Type of definiteness (Anaphoric, Bridging, or context), and its correctness (1/0) (see Table 1).

Using mixed-effect modeling with Participant as a random effect, the results revealed that monolingual children displayed adult-like patterns (see Fig 1-3), while both bilingual groups showed lower accuracy than adult controls. Pairwise comparisons indicated that L1- English bilinguals were comparable to monolingual Hebrew-speaking children, but L1-Russian bilinguals lagged behind. A detailed analysis of error patterns showed that Russian-Hebrew bilinguals had a higher likelihood of omitting the definite article compared to their monolingual Hebrew and English-Hebrew counterparts.

The study provides evidence for the effects of cross-linguistic influence in L2 article acquisition, showing that L2-Hebrew definiteness acquisition is shaped by L1 properties, in line with previous studies for L2-English acquisition (e.g., Ionin et al., 2022; Zdorenko & Paradis, 2008, 2012).

(Word count: 343)

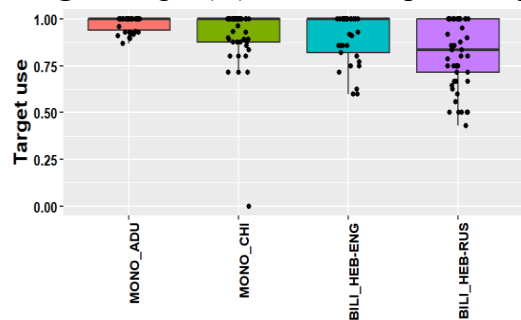
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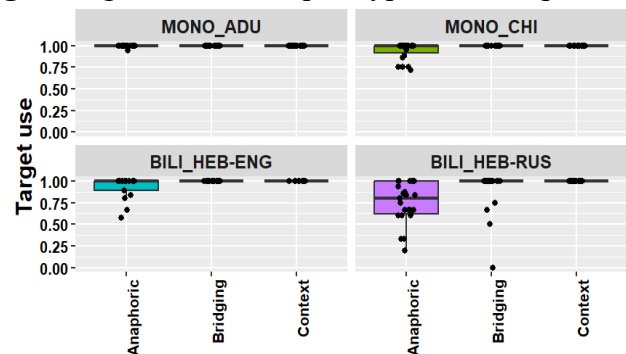
**Table 1. Example of coding scheme**

	Def.	Type	Correct use	Context
<i>cipor</i> 'a bird'	-		1	<i>Pa'am cipor halxa letayel.</i> 'Once upon a time a bird went for a walk.'
<i>et ha-cipor</i> ACC-DEF-bird	+	ANA	1	<i>Hu tafas et ha-cipor</i> He caught <b>ACC DEF</b> -bird
<i>et ha-zanav</i> ACC DEF-tail	+	BRID	1	<i>Hu mashax et ha-zanav shel ha-xatul</i> 'He pulled <b>ACC DEF</b> -tail of the cat.'
<i>al ha-ec</i> on DEF-tree	+	CONTEXT	1	<i>Hu tipes al ha-ec</i> He climbed on <b>DEF</b> -tree

**Fig 1. Target (in)definite use per Group**



**Fig 2. Target definite use per Type and Group**



**Fig 3. Non-target use per Group**

