

Can a Click be a Word?

Infants' Learning of Unassimilable yet Linguistic Labels



Lillian May & Janet F. Werker University of British Columbia

Question

•What types of symbol-forms will infants accept as potential object labels?

Background

- A narrowing occurs by 20 mo for "what may be a word":

 14-17mo infants accept a wide range of symbols as labels, while 20-26mo infants accept only words (Namy & Waxman, 1998; Namy, 2001; Woodward & Hoyne, 1999).
- •However the extent of this narrowing is unknown.
 - •Do 20+mo infants exclude only non-language sounds as labels, or non-native sounds as well?
- •Is this narrowing influenced by the presence/absence of referential cues in the word-learning situation?
 - •In a purely associative word-learning task, even younger infants (12mo) appear to be selective in what they will accept as a label (MacKenzie, Graham, & Curtin, 2011).

Hypothesis

Native Language Word-Learning Constraint (NLC)

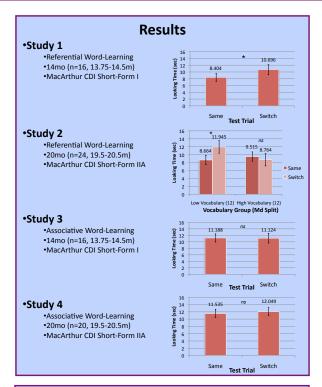
•For older infants, symbols are accepted as labels only when all the components assimilate into native language speech sound categories





| What may be a Word: Developmental Narrowing | | |
|---|------------------------|---------------------|
| Assimilable sounds | Non-assimilable sounds | Non-language sounds |
| What may be a word? | | |
| | 12-18 mo | |
| What may be a word? | | |
| What may be a word? | , | 20+ mo |

Methods Study 1: Referential Word- Establish Referential Word-Learning Methodology Learning with 14mo Study 2: Referential Word- Explore Native Language Word-Learning Constraint (NLC) Learning with 20mo Study 3: Associative Word- Compare NLC across Referential & Associative Word-Learning Learning with 14mo Study 4: Associative Word- Compare NLC across Referential Learning with 20mo & Associative Word-Learning Stimuli •CV words containing click consonants, from the language N|uu. •[!a] and [||u] Referential Associative **Word-Learning Task Word-Learning Task** (Werker, Cohen, Lloyd, Casasola, & Stager, 1998) Training (x4): No Training [kittv] Habituation: Habituation: Pair 2: Test: Switch Switch



Discussion

•In the referential word-learning situation only, 14mo and low-vocab. 20mo infants treated unassimilable click words as potential labels, while high-vocab. 20mo infants did not. •Supports emergence of a Native Language Word-Learning constraint as the lexicon is established.

•Results indicate that both the availability of referential cues and the similarity of word-forms to native language sounds impact the range of symbols infants accept as potential labels.

contact: lamay@psych.ubc.ca