# Cantonese-English Bilingual Preschool Children's Exposure to Emotion-Words: Results from a Questionnaire and a Story-telling Task



Shirley Huang, M.S., CCC-SLP and Pui Fong Kan, Ph.D. CCC-SLP University of Colorado-Boulder, Department of Speech, Language & Hearing Sciences

## INTRODUCTION

Emotion-language skills are important for developing academic readiness skills early in the preschool years<sub>5 13</sub>. Emotion-language skills include the understanding and use of emotion-words such as happy, sad, angry, etc.3 16. Knowledge of emotion-words emerge from our sociocultural-specific experiences<sub>10</sub> and so bilingual children growing up learning two languages may have emotion-language skills that vary across languages-skills that are different from monolinguals<sub>15</sub>.

In clinic and in research, using parent questionnaires or surveys is a reliable and feasible way of estimating parents' language input and predicting bilingual children's language skills4.8.11.14. Questionnaires estimating emotionlanguage and language input in the home have not been studied in bilingual children. The Cantonese-speaking population is increasing rapidly in the U.S.19, yet they continue to be an underserved minority population in healthcare. clinical, and educational settings13. Examining bilingual children's home language experiences with emotions will contribute to our greater understanding of how bilinguals learn and use emotion-words.

#### Purpose

- To examine how parents of Cantonese-English bilingual preschool children talk to their children about emotion-words.
- Two measures were used: a parent questionnaire and a parent-child storytelling task.

#### Research Questions

- 1. What is the relationship between Cantonese-English bilingual children's general vocabulary skills and their emotion word knowledge?
- How frequently do parents talk about emotion-words with their children? 2.
- 3 What is the relationship between the emotion-words parents reported using with their child on the guestionnaire and the emotion-words parents used in the story-telling task?

## METHODS

#### Participants

- 16 parents and their typically-developing Cantonese-English bilingual preschool children (mean age = 4;1 years; SD = 6.34; Age Range = 3;4 -5;0 vears) participated.
- Children were sequential bilinguals who spoke Cantonese at home from birth (L1) and learned English as a second language (L2) in preschool.
- Participants were recruited through the bilingual Chinese-English Kai Ming Head Start centers in San Francisco.
- Cantonese and English vocabulary skills were measured using picture identification and picture naming tasks from the Kai Ming Vocabulary Test.

#### Two measures were used:

#### 1) Parent Questionnaire

- The questionnaire was adapted from three previous questionnaires 4712.
- Emotion-words were selected based on previously normed data 3 16.
- Culturally, linguistically, developmentally appropriate Chinese emotion-words were identified with a native Cantonese-speaker.





L1 and L2.								
	Cantonese	English		Alexander	Witch	Llama	F	d
Picture Naming	45.94 (18.08)	43.56 (24.78)	TNW-Emotion	8.56 (6.80)	8.13 (7.49)	11.31 (10.78)	1.03	2
Picture ID	66.94 (10.00)	58.06 (15.02)	NDW-Emotion	2.13 (1.09)	1.88 (1.41)	2.38 (1.63)	0.76	2
			TTR-Emotion	0.33 (0.24)	0.26 (0.17)	0.30 (0.26)	0.44	2
			MLU-Single	5.99 (0.72)	6.65 (1.34)	6.09 (0.94)	4.91*	2
			MLU-Compound	5.07 (0.49)	5.69 (1.09)	5.09 (0.62)	7.33**	2

1. What is the relationship between Cantonese-English bilingual children's general vocabulary skills and their emotion-word knowledge?

Table 3. Relationships between receptive/expressive vocabulary measures in L1 and L2 and emotion-word knowledge in L1.

		Cantonese		English		
		Picture Naming	Picture ID	Picture Naming	Picture ID	
Cantonese	Emotion Word Recognition	-0.06	-0.23	-0.03	-0.01	
	Picture Naming					
	Picture ID	0.63**				
English	Picture Naming	-0.21	-0.09			
	Picture ID	-0.13	0.01	0.88**		

## 2. How frequently do parents talk about emotion-words with their children?

IDIE 4. INCIALIONSI	inps among n	ow nequenti	y parents taik a	Dout emotions	with their child.		
					Scared/		Guilty/
		Sad	Happy	Angry	Worried	Surprised	Ashamed
	Sad						
	Нарру	0.60*					
	Angry	0.76"	0.77"				
	Scared/ Worried	0.65"	0.56*	0.72**			
	Surprised	0.28	0.47	0.47	0.50*		
< 0.05, ** p < 0.01	Guilty/ Ashamed	0.15	-0.12	0.06	0.41	0.46	

# **RESULTS (CONT.)**

3. What is the relationship between the emotion-words parents reported on the questionnaire and the emotion-words parents used in the story-telling task?

Table 5. Relationships among parents' responses on the questionnaire and their story language measures

		Story-Lelling Lask								
			Alex			Witch			Llama	
		MLU-	MLU-	TTR-	MLU-	MLU-	TTR-	MLU-	MLU-	TTR-
		Single	Compound	Emotion	Single	Compound	Emotion	Single	Compound	Emotion
	Emotion Words									
Duestionnaire	Parents Use	0.09	0.11	-0.24	0.38	0.36	-0.06	0.09	0.08	0.34
Zuesuomane	Emotion Word									
	Recognition	0.22	0.23	-0.23	0.22	0.26	-0.26	-0.02	0.00	0.07
	MLU-Single						-			-
Alex	MLU-Compound	-	-			-	<u></u>			
	TTR-Emotion		-			-	-		-	-
	MLU-Single	0.64**	0.68**	-0.13		-		-	-	-
Witch	MLU-Compound	0.58*	0.63**	-0.15	-	-	-		-	-
	TTR-Emotion	-0.02	0.003	-0.02		-	-		-	-
	MLU-Single	0.70**	0.67**	-0.16	0.70**	0.63**	0.18			
Llama	MLU-Compound	0.70**	0.69**	-0.15	0.74**	0.67**	0.21	-	-	-
	TTR-Emotion	0.40	0.40	0.05	0.77**	0.66**	0.29			

## Table 6. Average percent of emotion-words across all participants.

		Responses on the Parent Questionnaire			
		Reported	Did not Report		
Performance on the Story-	Used	Box A. Accurate 5.24%	Box D. Underestimation 3.90%		
telling Task	Did Not Use	Box C. Overestimation 17.07%	Box B. Accurate 73.78%		

## DISCUSSION

Results suggest that emotion-words may not be captured in general vocabulary measures. Additionally, emotion-words are considered a distinct class of words in the mental lexicon<sub>15</sub>, and they may require different experiences and opportunities compared to general vocabulary skills.

- Guilt and shame are part of the self-conscious emotions family and are considered a distinct category of emotions<sub>10</sub>. Unique features of guilt and shame are not captured in models of basic emotionse 17.
- Emotion-words have limited imageability and reduced context availability<sub>1.2</sub>. They may require specific contexts-contexts that may not be captured in a broad measure such as MLU.
- There are emotion-words that parents often over- and underestimate using.

Clinical Implications include creating specific opportunities to teach and use emotions-words and building self-awareness to support learning of selfconscious emotions.

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