

# Onomatopoeias used by Nurse Students toward Preschool Patients: Before and after Pediatric Nursing Training



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## INTRODUCTION

Onomatopoeias are the group of words that imitate sounds or feelings. Nurses in pediatric wards often use onomatopoeias, which are considered to be the words that preschool children with immature language ability can intuitively understand. In this study, words of explanations used by 160 nurse students for preschool children who were to take venipuncture were analyzed with a questionnaire, in comparison between before and after pediatric nursing training.

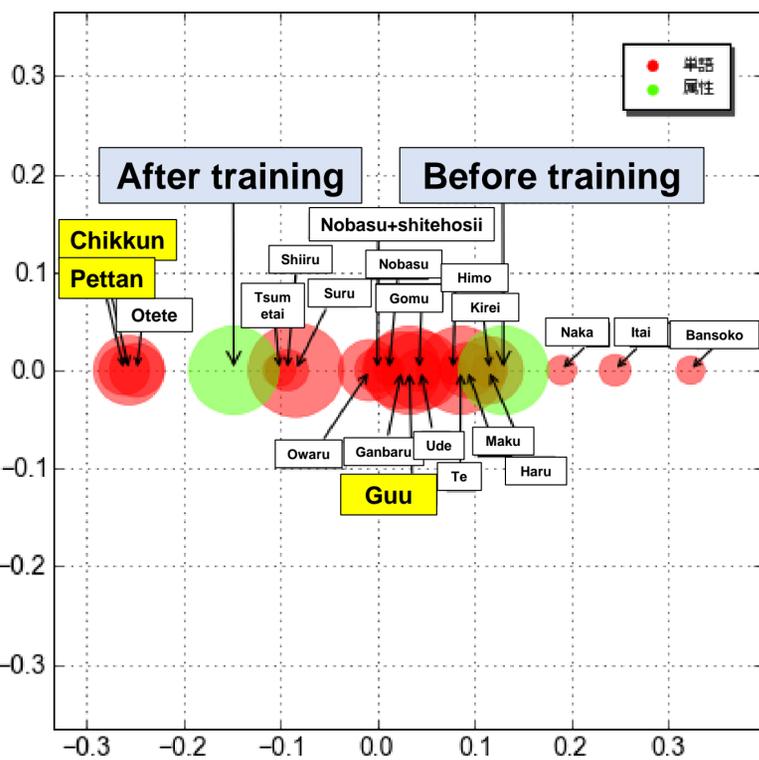


Table.1 Characteristic onomatopoeias used by the students toward preschool children who were to take venipuncture and comparison between before and after the training.

Item	After training			Before training		
	Frequency	$\chi^2$		Frequency	$\chi^2$	
Venipuncture	Chikkun	72	11.17 *	Dasu+shitehosii	13	4.359 *
	Pettan	52	8.247 *	Bansoko	34	3.954 *
	Makimaki	29	8.148 *	Massugu	14	3.679
	Otete	55	8.110 *	Iu	4	3.229
	Jozu	7	5.959 *	Ko	4	3.229
	Kireikirei	26	5.911 *	Karada	4	3.229
	Huku+shitehosii	4	4.965	Yoi	15	3.139
	Piin	25	3.806	Nigiru	9	3.126
	Oyagosan	3	3.723	Oyayubi	32	3.120
	Shimeru	3	3.723	Ireru	23	2.770

N = 160

Onomatopoeia  $\chi^2, * p < .05$

Figure.1 Correspondence analysis of the words toward preschool children who were to take venipuncture and comparison between before and after the training.

## METHODS

Correspondence analysis and extraction of characteristic onomatopoeias were done with "Text Mining Studio ver.4.2", a linguistic analysis software.

## RESULTS

Figure 1 shows the relationship between before/after the training and the words used by the students by the distance on the chart. Onomatopoeic words like "Chikkun", "Pettan", were used after the training, while adult usual words like "Nobasu", "Himo", "Maku" had been used often before the training. Table 1 shows the results of statistical test comparing before and after the training.

## DISCUSSION

The differences between before and after pediatric nursing training were confirmed to be statistically significant, suggesting that the students successfully learned explanation skills required in pediatric wards thorough pediatric nursing training. This study was partly supported by MEXT Grand-in-Aid for Challenging Exploratory Research #24660030.

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