

(Wafer - method)

(, * . *
*)

(Wafer-method)
『 』, 2000, 5 , 2 , 121- 143.

Wafer-method

가

가

가

가

가

(, 1998).

가

가 가 가

1971

掘田勝俊 Wafer-method

가

가

가

. Wafer-method

가

(

, 1998).

가

가

/기/

/시/

Wafer-method

가

가

가

가

: (1) Wafer-meth-

od

가

가

가?

(2) Wafer-method

가

가

가?

(3) Wafer-method

가

가

가?

(4) Wafer-meth-

od

가

가

가?

(Wafer-method)

1.

3

(IQ 90-110) 가 ,

가 .

< - 1 >

< - 1 >

	*		(dB)**		
A	6	105	105	Bosch 33pp	3 6
B	6	107	110	A675T SP	5 4
C	5	98		A675T SP	4 9

*
** Rion- 92B audiometer(ISO)

2.

(multiple baseline across subjects design)

3

1999

12 2000 3 , 3 36

30

3.

가.

Wafer-method

wafer

< - 2 >

< - 2 >

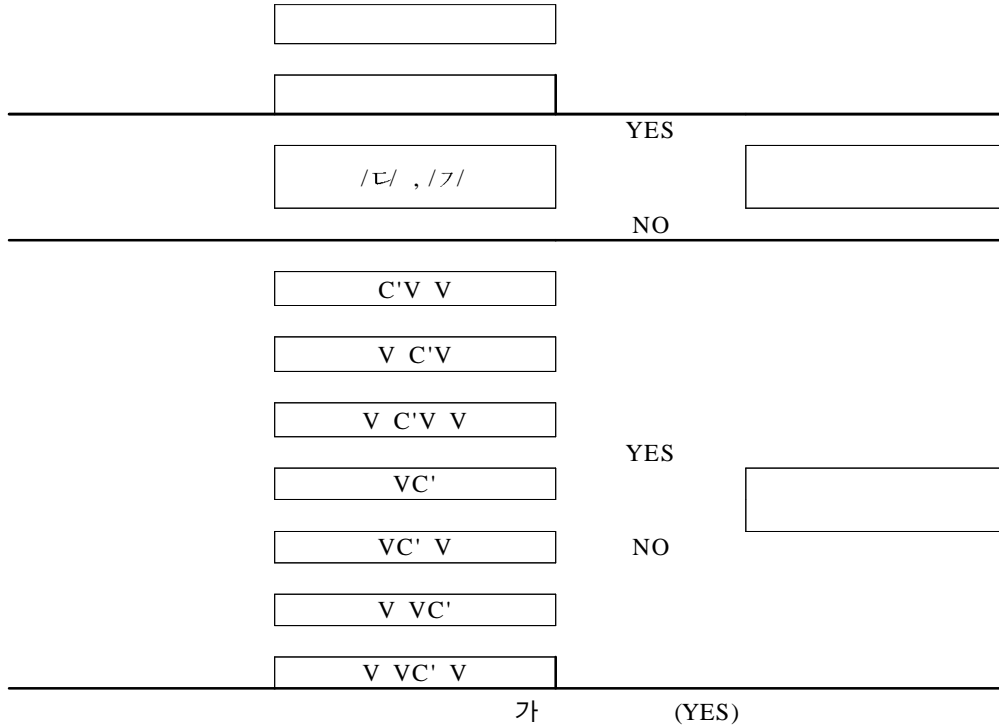
			/ㄷ/ /ㄱ/
			/ㄷ , /ㄱ/
		CV	'C'V V V C'V V C'V V
		VC	VC' VC' V V VC' V C'V V

* C':

가

< - 1 >

(Wafer-method)



(NO)

< - 1 >

(1)

7.

wafer

가

7.

< - 3 >

/ㄷ/, /ㄱ/ . 1, 2, 3
 / ㅂ/, / ㅅ/, /ㅈ/, /ㅊ/, /ㅌ/ ,
 3
 V C'V V V VC' V . 3
 C'V V V, VC' V V, V V C'V, V V VC' 2 C'V V, VC'
 V, V C'V, V VC' .

< - 3 >

				BI
	/ㄷ/, /ㄱ/	C'V	80 % (10 8)	2
CV		C'V V V C'V	80 % (10 8)	1
		V C'V V	80 % (10 8)	2
VC		VC'	80 % (10 8)	4
		VC' V V VC'	80 % (10 8)	6
		V VC' V	80 % (10 8)	7

(2)

80 %

< - 4 >

(Wafer-method)

< - 4 >

1	Wafer	80 %	3	9*
2	C'V'**	80 %	3	1
3	/ㄷ/	80 %	C***	2
1	C'V	80 %	C	9
2	C'V V V C'V	80 %	C	1
3	V' C'V'	80 %	4	2
4	V'C	80 %	C	3
5	VC'	80 %	6	4
6	VC' C'V	80 %	C	5
7	V VC' C'V	80 %	C	6

* 9 , 가

** V' / ㄴ
 *** C

4. 가

가 가 가 가
 가 가 가 가
 , 가 가 , 가
 가
 가 SONY WM-GX670
 2 가 ,
 88 %
 가 /ㄷ /ㄱ/

5.

가

Wafer-method

1.

Wafer-method

< - 2 >

Wafer-method

가

가

A

가

C

가 가

가

가

/ V

가 가

/ V

/ V

/ V

가

(1988)

(1994)

2.

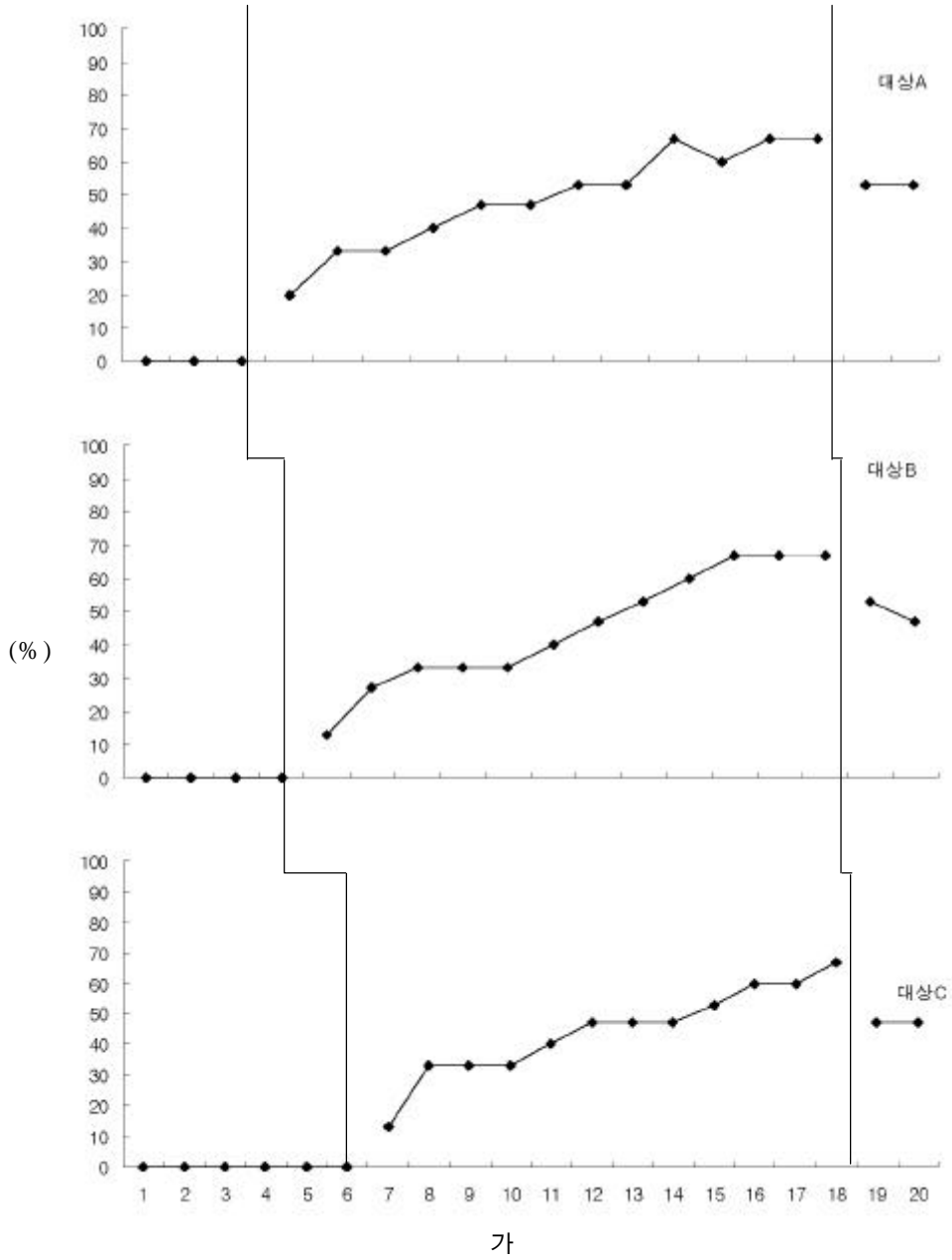
Wafer-method

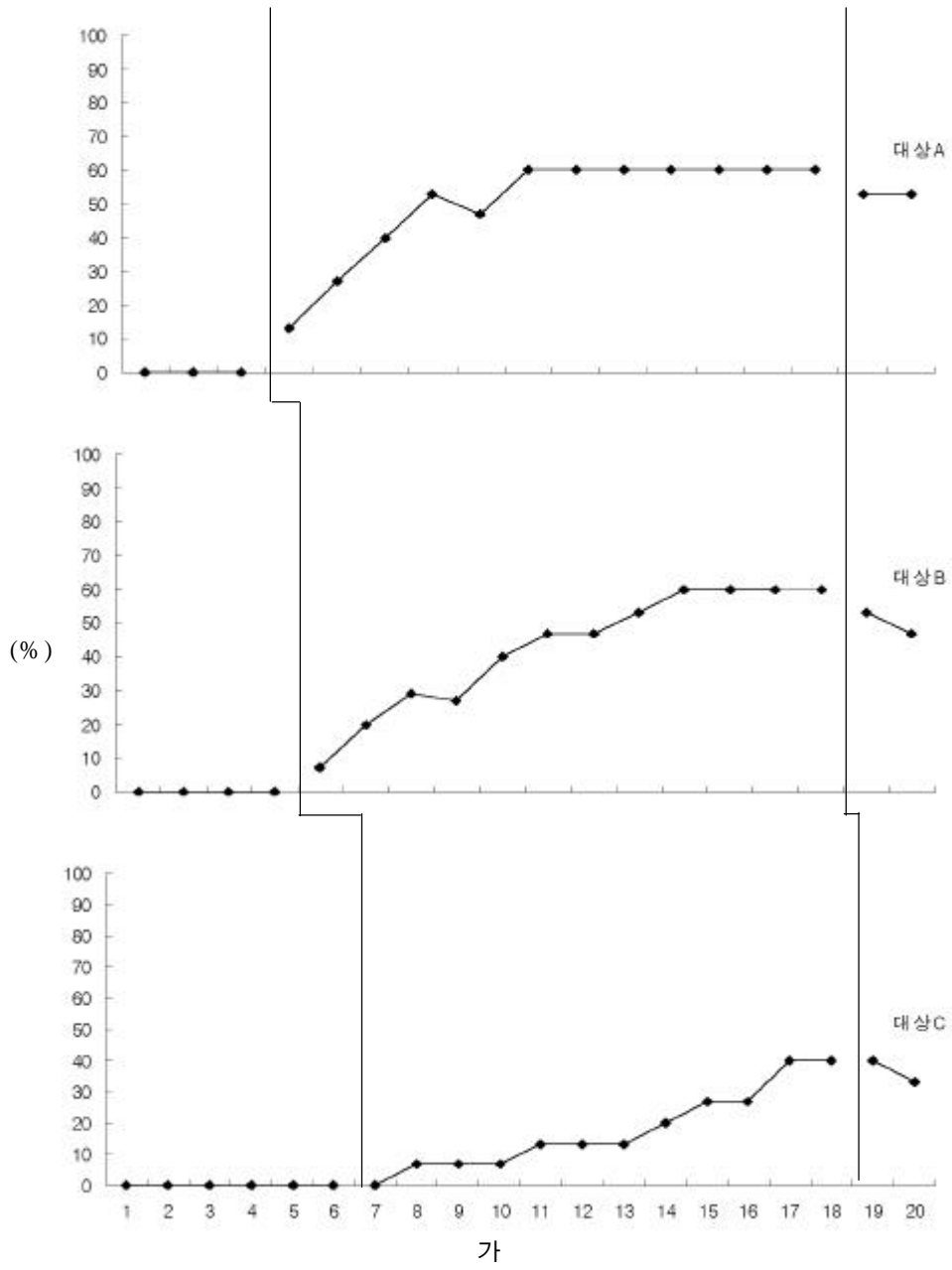
< - 3 >

Wafer-method

가

(Wafer-method)





(Wafer-method)

C 가 가 ,
C . , A, B가
, C
,
C ,

3.

Wafer-method

< - 4> . 가 0% 가
46% . 가 67% , 2
가 17% 50% . 가
0% 가 36% .
가 53% , 2 가 7% 46% .
가 10% .

(1989)

/기/ /시/

, 1993).

17% , 7% , 2 가
, wafer

가

wafer

VC

가

가

Wafer-method

가

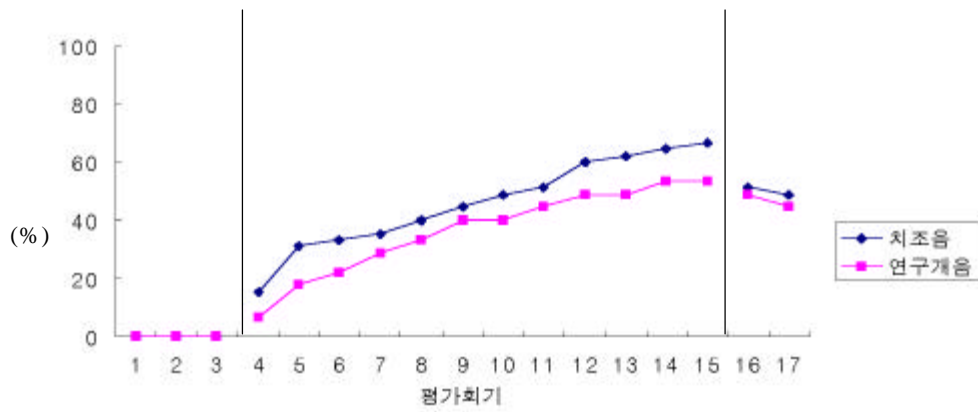
, VC

V C

Stoel-Gammon (1988)

가

(1988)



< - 4 >

4.

Wafer-method

< - 5 >

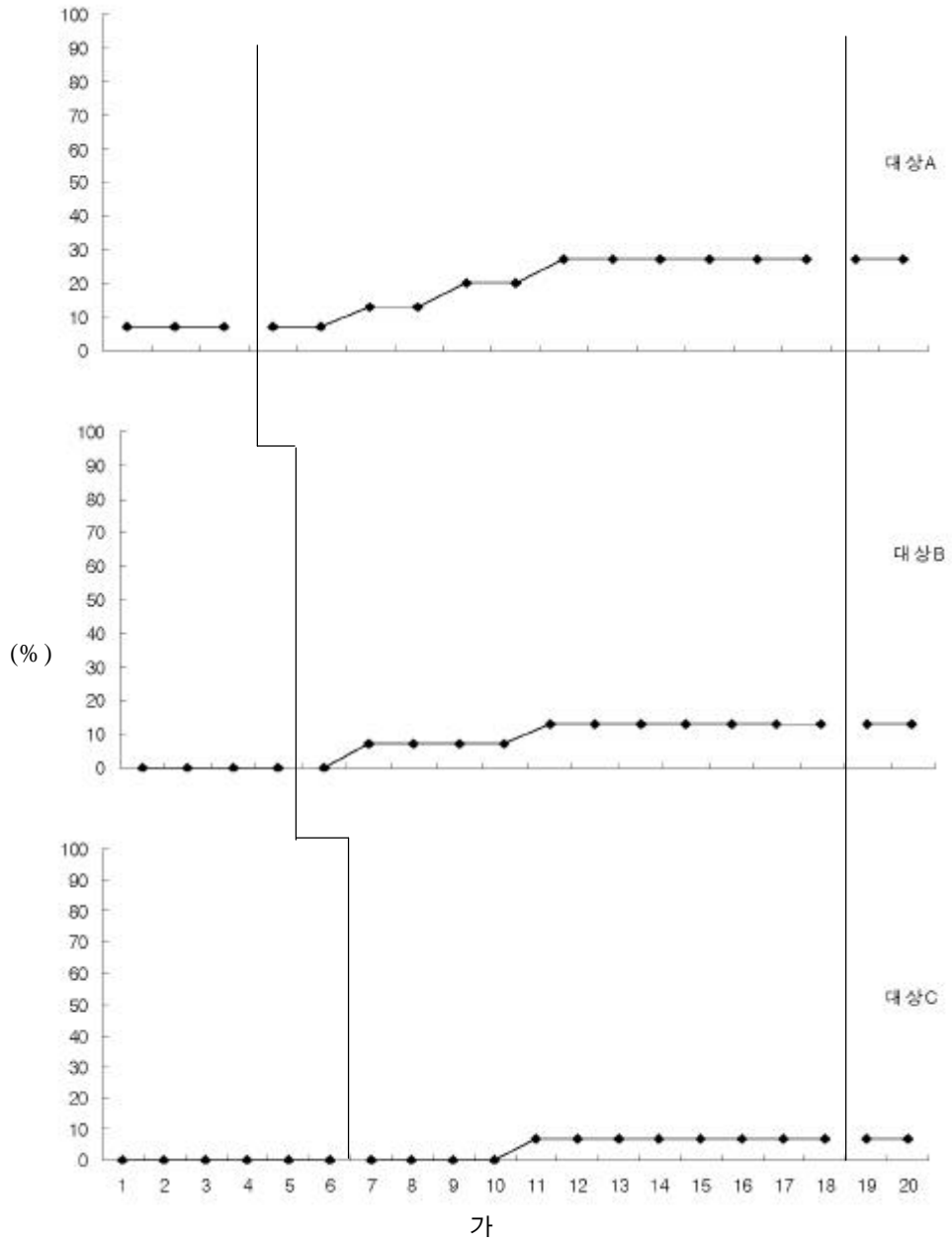
11 % Wafer-method

가 , A 가 , A 가

Wafer-method

가 ,

(Wafer-method)



van Riper, Powers, Secord,

(, 1998).

A 가

, 가 가

가 . 가

Wafer - method

, ,

, Wafer - method

/디/

, Wafer - method

/기/

, Wafer - method

/디/

, Wafer - method

/디/ /기/

가

가

가

wafer

가 가




(Wafer-method)

wafer 가 , 가 .
 , Wafer-method 가 .
 , Wafer-method 가 .
 , Wafer-method .

(1994).
(1988).
(1998). 『 』.
(1989).

Stoel-Gammon, C. (1988). Prelinguistic vocalizations of hearing impaired and normally hearing subjects: A comparison of consonantal inventories. *Journal of Speech and Hearing Disorders*, 53, 302-315.

< - 1>

		/ㅈ/	
80 %		/ㅈ/	.
< - 1>	wafer	*	wafer
< - 2>	wafer	.	
< - 3>	wafer	*	
 < - 1>  < - 2>  < - 3>			
2 wafer 가 wafer wafer	, 1 wafer 가	.	
2 wafer 가 / / wafer 가 가 가 , / / 가 가 / / 가 / / / / / /	, 1 wafer 가 가 가 가 / /	.	

(Wafer-method)

	/□/		
	80 %	/□/	,
	< - 1>*	wafer	
	< - 2>	wafer	wafer
	< - 3>	wafer	
	* /□/		
/□/	-		*
	-		wafer
	-		
	-		, 3
	-	/□/	wafer
	- 5 5		,
	- 5 10		
	- 3 8		
	- 3 10		wafer

	/디/		
	80 %	/디/	.
	< - 1>	wafer	
	< - 2>	wafer	wafer
	< - 3>	wafer	
	<p style="text-align: center;">가 ,</p> <p style="text-align: center;">가 ,</p> <p style="text-align: center;">가 / /, / /, / /,</p> <p style="text-align: center;">/ /, / / . ,</p> <p style="text-align: center;">가 .</p> <p style="text-align: center;">, ,</p> <p style="text-align: center;">, .</p> <p style="text-align: center;">,</p> <p style="text-align: center;">.</p>		

(Wafer-method)

< - 2 >

: 1

VC'	

: 2

C'V V	가 가 가 가 가
C'V V	
C'V V	
C'V V	
C'V V	

VC' V	
VC' V	
VC' V	
VC' V	
VC' V	
V C'V	가
V C'V	가
V C'V	가
V C'V	가
V C'V	가
V VC'	
V VC'	
V VC'	
V VC'	
V VC'	

(Wafer-method)

ABSTRACT

The Effects of Wafer-method on Improvement of Articulation
in Hearing Impaired Children

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Dong-II Seok, Sang-Hee Park (Dept. of Speech Pathology, Taegu University)

The purpose of this study was to examine the improvements of articulation of alveolar consonants and velar sounds, and to investigate the effects of transfer of the consonants to words when applying tactile feedback by Wafer-method of articulation therapy of the hearing impaired children. Each subject was scheduled for a 30 minute session three times a week. The subjects received 36 sessions of articulation training during 4 months. The treatment design used was a multiple baseline across the subjects. The tactile feedback by Wafer-method was administered to each subject individually. The results of this study were as follows; (1) the alveolar consonant /d/ and the velar consonant /k/ improved remarkably for all children; (2) the alveolar consonant /d/ improved more than the velar /k/; (3) the improvements of objective sound /d/, independent consonant /k/ and meaningless syllable did not have effects on transferring to words that were not cured for all children; (4) the tongue training course conducted at the beginning of this program had effects on the tongue and the mobility and stability of the lower jaw. All children took passive attitude to the tongue training at the beginning of program. And they had difficulty in detaching wafers that were attached on the upper and lower lips, and on the left and right lips, due to immobility, instability and tension, etc. But, as the frequency of cures increased, the mobility and stability of the tongue improved remarkably, and the children became positive as to the movement of the tongue.

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