

⋮

( . )

『 』, 1999. 4 , 153- 166. 4-6

15 , 15 ,

(MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>w</sub>, MSL<sub>M</sub>)가 ( , (1) 가

, (2) 가

( 가

(1) 가 가 (2) 가

가

, (3) 가

(MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>M</sub>)가

가 가

가

가

가

가

(MLU: Mean Length of Utterance),

(MSL: Mean Syntactic Length), (UBL: Upper Bound Length)

MLU

MLU가 4.0 (Brown, 1973; Owens, 1995), (Klee & Fitzgerald, 1985; Griffiths, 1974; Crystal, 1979).

MSL , 2

MSL Klee and Fitzgerald (1985)

가 MLU 가

MSL 4 MSL

가 , Klee (1992) 24-50 24 24

MSL

MSL (r = .71, p < .005)

MSL (r = .90, p < .005)가

MSL MLU (Klee & Fitzgerald, 1985), MSL

UBL 가

UBL MLU (1997)

가 2

가 (MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>w</sub>, MSL<sub>M</sub>)가 ( )

가 ( )

가

1.

30 45 . 15  
 ) ( , ( )  
 ) 4-6 .  
 ,  
 (Miller & Chapman, 1981; De Villiers & De Villiers, 1973; Rondal & Defays, 1978). ,  
 2 6 .  
 (1) 가( ) ' , (2) 4 6 , (3)  
 ( ) 2-4 ,  
 (4) 가 2 , (5)  
 . , (1)  
 , (2) 2 4 , (3) ' ,  
 3 가 , (4)  
 ' , (5)  
 . , (1)  
 , (2) 4 6 , (3) ' , 1  
 가 , (4) ' , ,  
 (5) .  
 가 11 , 가 4 .  
 , 11 4  
 . 5 5 (4;4-6;7)

가 . 가 3 4 (2;7-4;4)

2.

가 , , , 가  
, 가  
가 가  
, 50 %, 30 %, 가  
20 % .

3.

가.

(  
)  
, ,  
2 1-3  
(1) - - - , (2) - -  
, (3) - - - , (4) - -  
가 .

TCM-80 .

SONY  
가

가

가

100 (Stickler, 1987).

MLU<sub>w</sub> (Mean Length of Utterance in Words) MLU<sub>m</sub> (Mean Length of Utterance in Morphemes) 26

MSL<sub>w</sub> (Mean Syntactic Length in Words) 100 2

MSL<sub>m</sub> (Mean Syntactic Length in Morphemes) 50 100 2

2 (1997) Owens (1995) (1)

(2)

가 (1985)

( : )

( : )

( , 1997).

1 ( , 1997 ).

가

( , 1985).

2

가 (1997)

가



1.

가.

< - 2 >

(MLU<sub>w</sub>)

, 가 ( $F_{(2, 42)} = 27.98, p < .001$ ).

Scheffé, (1)

, (2)

가

< - 2 >

		MLU <sub>w</sub>		MLU <sub>M</sub>		MSL <sub>w</sub>		MSL <sub>M</sub>	
		M	SD	M	SD	M	SD	M	SD
		LD	15	2.09	.31	3.25	.63	2.47	1.04
N-LA	15	2.50	.65	4.14	1.16	3.07	.95	4.81	.95
N-CA	15	3.42	.50	5.66	.83	3.85	.60	6.30	.70

LD: Language Delayed group, N-LA: Normal group with same Language-Age, N-CA: Normal group with same CA

(MLU<sub>M</sub>)

, 가 ( $F_{(2, 42)} = 27.64, p < .001$ ).

Scheffé,

가, (1)

, (2)

, (3)

가

(MSL<sub>w</sub>)  
 가 (F<sub>(2, 42)</sub> = 9.19, p < .001).  
 Scheffé  
 가 .

(MSL<sub>M</sub>)  
 가 (F<sub>(2, 42)</sub> = 38.38, p < .001).  
 Scheffé  
 가 . , (1) , (2)  
 , (3)  
 가 .

2.

2-4 가 가  
 . 4  
 < - 3> . MLU<sub>M</sub> MLU<sub>w</sub>, MSL<sub>M</sub> MSL<sub>w</sub>  
 (R<sup>2</sup>) 48 (F = 13.83, p < .01), .36, .34, .36 .

< - 3>

	N		F	R <sup>2</sup>
MLU-M	15	.186+(.106 × )	13.83**	.48
MLU-W	15	.550+(.052 × )	8.77*	.36
MSL-M	15	.201+(.075 × )	8.08*	.34
MSL-W	15	.190+(.077 × )	8.96*	.36

\* p < . 05, \*\* p < . 01

3.

가. ( )  
 (MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>w</sub>, MSL<sub>M</sub>) 가 가  
 (Canonical Correlation)가 .893 ( $p < .001$ )  
 (chi-square) 41.50 ( $p < .001$ )  
 가 가 MSL<sub>M</sub> ( =  
 , MLU<sub>M</sub> ( =  
 .679)가 가  
 .378) (< - 4> ).  
 Fisher (Fisher's linear discriminant functions)  
 Fisher ,  
 93.3 % (< - 5> ).

< - 4>

	MLU <sub>w</sub>	MLU <sub>M</sub>	MSL <sub>w</sub>	MSL <sub>M</sub>	
	.186	.514	-.078	.977	-7.484
	.077	.378	-.066	.679	

< - 5> (%)

	LD	N-CA	
LD	93.3	6.7	100.0
N-CA	6.7	93.3	100.0

LD: Language Delayed group, N-CA: Normal group with same CA

( )

(MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>w</sub>, MSL<sub>M</sub>)

가 가

가

MLU<sub>w</sub> ( $p < .05$ ), MLU<sub>M</sub> ( $p < .05$ ), MSL<sub>M</sub> ( $p < .01$ ), 가 .554

9.53 ( $p < .05$ )

MLU<sub>w</sub>, MLU<sub>M</sub>, MSL<sub>M</sub> 가가

MSL<sub>M</sub> ( = 1.67)가 가

MLU<sub>M</sub> ( = -1.03) (< - 6> ).

Fisher Fisher

80.0 %

(< - 7> ).

< - 6>

	MLU <sub>w</sub>	MLU <sub>M</sub>	MSL <sub>w</sub>	MSL <sub>M</sub>
	.75	- 1.11	- .13	2.01
	.38	- 1.03	- .13	1.67

< - 7> (%)

	LD	N-LA	
LD	80.0	20.0	100.0
N-LA	20.0	80.0	100.0

LD: Language Delayed group, N-LA: Normal group with same Language-Age

가

가

0.1 %

(MLU<sub>M</sub>)

(MSL<sub>M</sub>)

5 %

(MLU<sub>w</sub>)

(1)

(2)

(MSL<sub>w</sub>)

(Klee, 1992)

가

가

MLU<sub>M</sub> MSL<sub>M</sub>

, MLU<sub>w</sub> MSL<sub>w</sub>

2-4

MLU<sub>w</sub> MLU<sub>M</sub> (1997)

MLU<sub>w</sub> MLU<sub>M</sub>

, 2-4 70

2.27-4.39 MLU<sub>w</sub> 2.88-6.02 MLU<sub>M</sub>, 2-4

100 1.24-3.42 MLU<sub>w</sub> 1.82-5.98 MLU<sub>M</sub>

MSL<sub>M</sub> MSL<sub>M</sub>

, Klee (1992) 21-51 50 2.7-5.2

MSL<sub>M</sub>, 2-4 100 2.14-4.71 MSL<sub>M</sub>

(

)

(

)

가 가 , ,  
 ,  
 가  $MSL_M$  . Fisher  
 93.3 %  
 $MLU_w$ ,  $MLU_M$ ,  $MSL_M$  가  
 가  
 $MSL_M$  . Fisher 80.0 %  
 . , 가 ( $MLU_w$ ,  $MLU_M$ ,  $MSL_w$ ,  $MSL_M$ )  
 가  $MSL_M$  .  
 . , 30 15  
 , 가  
 ( ) 가  $\pm 3$  ,  
 ,  
 가 . ,

(1997). 2-4 . 『 - 』, 2, 5-26.  
 \_\_\_\_\_ ( ). 『 : .  
 . (1985). 『 : .  
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## ABSTRACT

### Measures of Utterance Length of Normal and Language-Delayed Children

**Hee Jung Lee** (Department of Psychiatry, Ajou University Hospital)  
**Young Tae Kim** \*(Ewha Womans University)

The present study was designed to compare four measures of utterance length ( $MLU_M$ ,  $MLU_W$ ,  $MSL_M$ , and  $MSL_W$ ) among the language-delayed group (LD), their CA-matched group (N-CA), and their LA-matched group (N-LA). Forty-five subjects, each group with 15 children, participated in the study. Each child's spontaneous utterances were collected in free play settings. Each utterance was analyzed by the number of morphemes and the number of words. The following results were obtained: (1) significant differences

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\* e-mail: youngtae@mm.ewha.ac.kr

were found in the four measures of utterance length among three groups, (2) All four measures were found to discriminate the LD group and their CA-matched group. (3) Three measures ( $MLU_w$ ,  $MLU_M$ , and  $MSL_M$ ) were found to discriminate the LD group and their LA-matched group.