

2-4

1)

()

2-4 180 , , . 1997, 2, 5-26.

(1) (2) (3)

1 가 2-4

I.

(MLU: Mean Length of Utterance)가 가 가 (UBL: Upper Bound Length)가 (LBL: Lower Bound Length)가 (Brown, 1973; Stickler, 1987).

MLU Brown (1973) 가 MLU가 (I: 1.75, II: 2.25, III: 2.75, IV: 3.50, V: 4.0) MLU . Brown MLU (de Villiers & de Villiers, 1973; Miller & Chapman, 1981). , de Villiers and de Villiers (1973) 14

¹ 1995

MLU , Miller and Chapman (1981) (

,) Brown

ASS (Assigning Structural Stage)

MLU가 가 (Miller, 1981; Rondal & Defays, 1978; Brown, 1973; Lord & Novick, 1968; Darley & Moll, 1960; Templin, 1957).

Miller and Chapman (1981) 123 17-59 MLU

($r = .88$)가 MLU

3 1;5-4;11 MLU

MLU (1981).

가 , 가

MLU가 가

, Brown (1973) MLU 4.0

, Miller and Chapman (1981), de Villiers and de Villiers (1973), Rondal (1978)

4 MLU ($r > .75, p < .001$)

가 MLU

(Griffiths, 1974; Crystal, 1979; Klee & Fitzgerald, 1985). Klee and

Fitzgerald (1985) 18 2;1-3;11 가 MLU, MLS LARSP

(Crystal, 1979) , MLU ($r = .26$)

, 98%(-2 SD) 2-3 MLU

Brown II MLU

, Rondal et al. (1987) Klee and Fitzgerald (1985) 21 1;8-2;8

, Klee and Fitzgerald (1985)

, MLU 2.50 (Brown's Stage II) MLU 가 ,

가 (MLU ± 2

) MLU 2.00 가 가, 3.50 가 , 4.00

가 MLU 3.0(Brown's Stage III) MLU

가 , MLU 1.00

2.00 2.50 가 가 , MLU 2.00 3.50

, MLU 4.00 가

MLU 가 , 가

(Mean Length of Response in Words: MLR)가 ,

. 19

, 18 5 가 MLR

가 (McCarthy, 1954; Shirley, 1933; Templin, 1957).

(Mean Length of Utterance in Morphemes: MLU-M)가 ,

가
 (Mean Syntactic Length: MSL)가
 , 2
 가 4 가
 (Klee & Fitzgerald, 1985; Rondal et al., 1987).

가 , , 가 ,
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 (, 1985). ,
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가 (, ,) 가
 (, ,), 가
 (, ,) , ,
 , (2) , , (3)

II.

1.

30 , 180 - - 2-4 6
 - 2 (1)
 ‘ ’ , (2) (, 1994)

(3)

2.

2 30-40
 , 1-2
 100-200
 70
 (1) , (2)
 (Owens, 1995; Klee & Fitzgerald, 1985; Rondal et al., 1987; Siegel, 1963).

(1) (1985), (2) (, 1991),
 (3) (, 1977: , 1985) 가
 가 ,

$$= \div$$

$$= \div$$

$$= \div$$

가 , ,
 < - 1> .

3.

가 , ,
 (, ,)
 가
 (, , - , -) t-test ANOVA

4.

25% , , , 가
 가 가 95%, 98%,

98%, 98% 가 .

III.

1. , ,

가.

1> , < - 2> .

(1)

< - 2> , (F = 30.05, p < .0001),
(F = 15.65, p < .0001), × (F = 5.45, p < .05)

가 , 2 3.01 6 가
3.75, 4.20, 4.95, 5.46, 6.31 .

< - 3> , 6 (, 2
2½) , (, 2
3, 3½, 4, 4½) . 2-4

1 , 가
1.00 .
, 3½ 4½ 가

(t = 2.49, p < .05) ,
가 × , -
가 , -

(t = 2.20, p < .05) ,
(>)가 (t = 2.75, p < .01) , 가

< - 1> , ,

		N	M (SD)									
2,0 - 2,5		30	3.01(0.95)	7.57(2.27)	1.03(0.18)	2.27(0.57)	5.83(1.66)	1.03(0.18)	1.86(0.44)	4.43(1.43)	1.00(0.00)	
		15	3.06(0.70)	7.73(1.19)	1.07(0.26)	2.39(0.46)	6.07(1.33)	1.07(0.26)	1.97(0.38)	4.53(1.13)	1.00(0.00)	
		15	2.96(1.17)	7.40(2.64)	1.00(0.00)	2.16(0.67)	5.60(1.96)	1.00(0.00)	1.75(0.48)	4.33(1.72)	1.00(0.00)	
		20	3.13(1.04)	7.60(2.41)	1.05(0.22)	2.34(0.62)	5.95(1.90)	1.05(0.22)	1.92(0.50)	4.40(1.43)	1.00(0.00)	
		10	2.76(0.72)	7.50(2.07)	1.00(0.00)	2.15(0.46)	5.60(1.07)	1.00(0.00)	1.74(0.27)	4.50(1.51)	1.00(0.00)	
2,6 - 2,11		30	3.75(0.71)	9.80(2.33)	1.00(0.00)	2.67(0.53)	7.00(1.51)	1.00(0.00)	2.16(0.39)	5.37(1.13)	1.00(0.00)	
		15	3.96(0.58)	9.87(2.33)	1.00(0.00)	2.81(0.44)	6.93(1.16)	1.00(0.00)	2.23(0.30)	5.73(1.16)	1.00(0.00)	
		15	3.55(0.78)	9.73(2.40)	1.00(0.00)	2.52(0.60)	7.07(1.83)	1.00(0.00)	2.08(0.47)	5.00(1.00)	1.00(0.00)	
		20	3.76(0.69)	9.50(2.04)	1.00(0.00)	2.67(0.52)	7.15(1.50)	1.00(0.00)	2.10(0.39)	5.30(1.13)	1.00(0.00)	
		10	3.75(0.77)	10.40(2.84)	1.00(0.00)	2.67(0.59)	6.70(1.52)	1.00(0.00)	2.27(0.39)	5.50(1.18)	1.00(0.00)	
3,0 - 3,5		30	4.20(1.15)	11.33(4.34)	1.03(0.18)	2.99(0.68)	8.07(2.36)	1.00(0.00)	2.38(0.57)	6.83(3.31)	1.00(0.00)	
		15	3.90(1.02)	10.13(2.23)	1.00(0.00)	2.82(0.57)	7.67(1.35)	1.00(0.00)	2.22(0.50)	6.20(1.37)	1.00(0.00)	
		15	4.51(1.23)	12.53(5.57)	1.07(0.26)	3.16(0.76)	8.47(3.07)	1.00(0.00)	2.55(0.60)	7.47(4.47)	1.00(0.00)	
		20	4.31(1.05)	11.25(3.68)	1.00(0.00)	3.01(0.63)	7.95(2.11)	1.00(0.00)	2.39(0.53)	6.80(3.65)	1.00(0.00)	
		10	3.99(1.38)	11.50(5.66)	1.10(0.32)	2.95(0.81)	8.30(2.91)	1.00(0.00)	2.38(0.68)	6.90(2.69)	1.00(0.00)	
3,6 - 3,11		30	4.95(1.42)	15.47(6.07)	1.03(0.18)	3.35(0.81)	10.73(4.03)	1.00(0.00)	2.69(0.62)	8.17(3.02)	1.00(0.00)	
		15	4.85(1.26)	15.73(6.06)	1.00(0.00)	3.25(0.83)	10.47(4.63)	1.00(0.00)	2.66(0.66)	8.13(3.60)	1.00(0.00)	
		15	5.05(1.59)	15.20(6.27)	1.07(0.26)	3.46(0.80)	11.00(3.48)	1.00(0.00)	2.73(0.60)	8.20(2.43)	1.00(0.00)	
		20	5.37(1.45)	16.80(6.15)	1.05(0.22)	3.61(0.83)	11.80(4.20)	1.00(0.00)	2.85(0.66)	8.85(3.13)	1.00(0.00)	
		10	4.11(0.92)	12.80(5.18)	1.00(0.00)	2.84(0.46)	8.60(2.76)	1.00(0.00)	2.38(0.39)	6.80(2.35)	1.00(0.00)	
4,0 - 4,5		30	5.46(1.40)	16.63(5.44)	1.13(0.43)	3.84(0.88)	11.70(3.87)	1.03(0.18)	3.05(0.72)	9.03(3.34)	1.03(0.18)	
		15	5.32(1.74)	15.33(5.45)	1.13(0.52)	3.76(1.05)	10.47(3.02)	1.07(0.26)	2.97(0.92)	8.60(3.11)	1.07(0.26)	
		15	5.60(0.98)	17.93(5.30)	1.13(0.35)	3.92(0.71)	12.93(4.32)	1.00(0.00)	3.13(0.92)	9.47(3.60)	1.00(0.00)	
		20	5.75(1.06)	16.10(4.66)	1.10(0.45)	3.93(0.63)	11.35(2.74)	1.05(0.22)	3.17(0.57)	9.10(3.34)	1.05(0.22)	
		10	4.88(1.82)	17.70(6.91)	1.20(0.42)	3.66(1.27)	12.40(5.62)	1.00(0.00)	2.81(0.95)	8.90(3.51)	1.00(0.00)	
4,6 - 4,11		30	6.31(1.81)	20.87(8.11)	1.07(0.37)	4.39(1.13)	14.37(5.42)	1.03(0.18)	3.40(0.82)	11.47(4.64)	1.03(0.18)	
		15	5.86(2.04)	19.80(9.01)	1.00(0.00)	4.13(1.38)	14.20(6.57)	1.00(0.00)	3.17(1.00)	10.93(5.65)	1.00(0.00)	
		15	6.75(1.49)	21.93(7.26)	1.13(0.52)	4.66(0.77)	14.53(4.21)	1.07(0.26)	3.62(0.53)	12.00(3.46)	1.07(0.26)	
		20	6.86(1.53)	22.40(8.71)	1.10(0.45)	4.76(0.88)	15.30(5.69)	1.05(0.22)	3.61(0.75)	12.40(4.99)	1.05(0.22)	
		10	5.19(1.91)	17.80(6.01)	1.00(0.00)	3.66(1.26)	12.50(4.53)	1.00(0.00)	2.98(0.81)	9.60(3.31)	1.00(0.00)	
		180	4.61(1.68)	13.61(6.82)	1.05(0.27)	3.25(1.06)	9.62(4.50)	1.02(0.13)	2.59(0.80)	7.55(3.82)	1.01(0.11)	

- 2> -, - -

		F								
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	df									
	5	30.05 ^{****}	34.27 ^{****}	28.97 ^{****}	28.34 ^{****}	28.15 ^{****}	21.33 ^{****}	0.90	0.58	0.77
	1	15.65 ^{****}	12.01 ^{***}	7.19 ^{**}	1.53	2.94	2.59	0.00	1.44	0.96
	1	1.86	1.28	1.46	1.83	1.64	0.73	0.71	0.32	0.00
x	5	1.87	2.43 [*]	1.79	1.80	1.79	1.23	0.66	0.29	0.39
x	5	1.15	1.46	1.52	0.65	0.67	0.51	0.52	1.09	1.16
x	1	5.45 [*]	8.22 ^{**}	5.74 [*]	3.09	3.28	1.87	1.42	0.16	0.00
x x	5	1.53	1.98	1.00	1.51	2.28	1.12	1.89	0.55	0.58

*p < .05 **p < .01 ***p < .001 ****p < .0001

(2)

(0.7-1.0 MLU)
 (< - 1>), 가 (F = 34.27, p < .0001),
 (F = 12.01, p < .001), x (F = 8.22, p < .01)
 . x (F = 8.22, p < .01) (< - 2>)
).
 가 , 2 2.27 6
 가 2.67, 2.99, 3.35, 3.84, 4.39 .
 1
 , 가 0.50
 (< - 3>).
 가 , 3½ 4½
 (>) (t = 2.73, p < .05) 가 . ,
 , - 가
 (t = 2.25, p < .05) .
 가 가 ,
 가 , - 가 -
 (t = 3.35, p < .01) .

(3)

가 (F = 28.97, p < .0001), (F = 7.19, p < .01),
 x (F = 5.74, p < .05) (< - 2>) .
 가 , 2 1.86 6

가 2.16, 2.38, 2.69, 3.05, 3.40 . 1

0.40

< - 3 >

	2	2 ^{1/2}	3	3 ^{1/2}	4	4 ^{1/2}
2			M W C	M W C	M W C	M W C
2 ^{1/2}				M W C	M W C	M W C
3	M W C				M W C	M W C
3 ^{1/2}	M W C	M W C				M W C
4	M W C	M W C	M W C			
4 ^{1/2}	M W C	M W C	M W C	M W C		

M: $p < .05$ W: $p < .05$
 C: $p < .05$

× 가 ,
 - 가 , - , 3^{1/2} 4^{1/2}
 - 가 - (t = 2.20, p < .05)
 2.08, p < .05) . , (t =

(>)가 , 가

< - 1 > . < - 2 > , 가

· , , , 2 7.57 가
 (F = 28.34, p < .0001) , 2^{1/2} 9.80, 3 11.33, 3^{1/2} 15.47,

4 16.63, 4½ 20.87 . 가 2

5.83 7.00, 8.07, 10.73, 11.70, 14.37

($F = 28.15, p < .0001$) 가 . 가

가 , 2 4.43 5.37, 6.83, 8.17, 9.03, 11.47

($F = 21.33, p < .0001$) 가 .

< - 4>

	2	2½	3	3½	4	4½
2			M C	M W C	M W C	M W C
2½				M W C	M W C	M W C
3	M C			M W	M W C	M W C
3½	M W C	M W C	M W			M W C
4	M W C	M W C	M W C			
4½	M W C	M W C	M W C	M W C		

M: $p < .05$ W: $p < .05$

C: $p < .05$

(< - 4 >) ,

1 3

½ , 2 ½ 가

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, , . < - 1 >

가

(1.00-1.20) 가 .

2 .

가

< - 5> , < - 6>

< - 2>

(R²) .46(F = 52.34, p

< - 5>

	n		F	Adjusted R ²
	180	.644+(.105 x)+(.264 x ¹)-(.741 x ²)	52.34****	.46
	180	.625+(.068 x)+(.136 x)-(.394 x)	53.79****	.47
	180	.569+(.050 x)+(.115 x)-(.243 x)	47.70****	.44
	180	-4.760+(.421 x)	125.98****	.41
	180	-2.287+(.273 x)	118.96****	.40
	180	-2.002+(.219 x)	98.95****	.36

¹ : 1, 2 ² : 1, 2 ****: p < .0001

< - 6>

()	n	(SD)																	
27	13	2.88	2.13	1.76	6.62	5.08	3.91	3.00	2.12	1.81	6.92	5.23	4.38	0.12	0.01	0.05	-0.31	-0.15	-0.47
								(1.14)	(0.65)	(0.52)	(2.33)	(1.48)	(1.85)						
30	17	3.19	2.33	1.91	7.88	5.90	4.57	3.01	2.39	1.90	8.06	6.29	4.47	0.18	0.06	-0.01	-0.18	-0.39	0.10
								(0.81)	(0.50)	(0.37)	(2.16)	(1.69)	(1.07)						
33	18	3.51	2.54	2.06	9.14	6.72	5.23	3.70	2.62	2.14	9.67	6.67	5.33	0.19	0.08	0.08	-0.52	0.06	-0.11
								(0.55)	(0.52)	(0.40)	(2.38)	(1.19)	(1.24)						
36	12	3.82	2.74	2.21	10.41	7.54	5.88	3.84	2.73	2.18	10.00	7.50	5.42	0.02	0.01	0.03	0.41	0.04	0.47
								(0.91)	(0.57)	(0.40)	(2.33)	(1.83)	(1.00)						
39	14	4.13	2.94	2.36	11.67	8.36	6.54	3.86	2.88	2.36	9.91	7.64	6.55	0.27	-0.06	0.00	1.76	0.72	-0.00
								(1.01)	(0.67)	(0.52)	(1.92)	(1.43)	(1.63)						
42	16	4.45	3.14	2.51	12.94	9.18	7.20	4.40	3.05	2.40	12.16	8.32	7.00	-0.05	-0.09	-0.11	0.78	0.86	0.20
								(1.21)	(0.70)	(0.61)	(5.13)	(2.77)	(4.01)						
45	14	4.76	3.35	2.66	14.20	10.00	7.86	5.04	3.42	2.67	15.40	10.93	7.67	0.28	0.07	0.01	-1.20	-0.93	0.19
								(1.51)	(0.82)	(0.54)	(6.13)	(3.81)	(2.67)						
48	16	5.07	3.55	2.81	15.47	10.82	8.51	4.86	3.29	2.72	15.53	10.53	8.67	-0.21	-0.26	-0.09	-0.07	0.28	-0.15
								(1.36)	(0.81)	(0.71)	(6.22)	(4.37)	(3.35)						
51	15	5.39	3.75	2.96	16.73	11.64	9.17	5.57	4.06	3.06	18.64	13.29	10.14	0.18	0.31	0.10	-1.91	-1.65	-0.97
								(1.29)	(0.84)	(0.63)	(5.50)	(4.30)	(3.37)						
54	15	5.70	3.96	3.11	17.99	12.46	9.83	5.37	3.65	3.04	14.88	10.31	8.06	-0.33	-0.31	-0.07	3.12	2.14	1.77
								(1.52)	(0.90)	(0.82)	(4.90)	(2.91)	(3.09)						
57	13	6.02	4.16	3.26	19.26	13.28	10.49	6.05	4.23	3.39	21.62	15.31	12.08	0.03	0.07	0.13	-2.36	-2.03	-1.59
								(1.72)	(1.18)	(0.78)	(8.60)	(6.64)	(5.17)						
60	17	6.33	4.36	3.41	20.52	14.09	11.14	6.50	4.52	3.40	20.29	13.65	11.00	0.17	0.16	-0.01	0.23	0.45	0.14
								(1.91)	(1.11)	(0.87)	(7.94)	(4.36)	(4.29)						

< .0001), .47($F = 53.79, p < .0001$),

.44($F = 47.70, p < .0001$)

가 ±1

가

가

.51($F = 92.83, p < .0001$)

.34($F = 44.42, p < .0001$)

.57($F = 118.93, p < .0001$)

.32($F = 41.77, p < .0001$)

, $.58(F = 120.86, p < .0001)$ $.29 (F = 35.51, p < .0001)$
 .0001) 가 .
 가 , -
 $.53(F = 135.46, p < .0001)$, $.57 (F = 154.03, p < .0001)$,
 $.51(F = 123.99, p < .0001)$
 $.26(F = 20.29, p < .0001)$, $.27(F = 21.56, p < .0001)$
 $.26(F = 20.26, p < .0001)$,
 R^2 $.41(F = 125.98, p < .0001)$, $.40(F = 118.96, p < .0001)$,
 $.36(F = 98.95, p < .0001)$

가 - 가

IV.

2-4 -, -,
 가 ,
 가 (, ,)
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 0.001% .
 1 , 1.0 , 0.5
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 가 , 가 .
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. Miller and Chapman (1981) 2-4
 1.87 5.17 , 2-4
 (2.88-6.02) (2.13-4.16) 가 .
 가 , Brown (1973) I-V
 5 13 가 , 8 21
 가 , 2-4 2-4
 (6-14) (4-11) 가 .
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 가 .
 Miller and Chapman (1981) (r > .90) , (r > .60, p < .0001)
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 (1) 가
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< - 1a >

1. 1 1	
2. (5) 가	“ ... ” (1) (2)
3. ,	(가가) “ ” (1) (“ ” (2))
4. 가 ()	“(...) ”
5. 가 (10%)	“ 가 () 가 () ”
6. ‘ ’, ‘ ’ (: ‘ ’ ‘ ... ’) 가	“(), !”
7. , 가	“ , , , , , , ... ” “ ” , ‘ ’

< - 1b >

<p>1. 가 , .</p>	
<p>2. , , , : : : . 가 , , 가 , , : 가 . :- , - , - , - :- / () :- , - , - , - :- / , - (), - , - (), (-르) () :- (,)쓰 가 :- :-르 :- :-가 / :- , - :-르, :- :- / ():- , - , () :- / - , - 가, - :- / :- (), - :-</p>	
<p>3. 가 .</p>	<p>“ ” 가-쓰- - -르- (: 6)</p>
<p>4. 가 .</p>	<p>“ ” “ ” “ ” (: 1)</p>
<p>5. (: ‘ ’, ‘ ’) (: ‘ ’ , ‘ ’ ‘ ’ ‘ ’) , : .</p>	

<p>6. 가</p>	<p>“ ”, “ ” : 1</p>
<p>7. 가</p>	<p>“ - ” (: 2) “ - 가” (: 2)</p>
<p>8.</p>	<p>“ ” - - - (‘ ’ : 3) “ ” - - - (‘ ’ : 2)</p>
<p>9. 가</p>	<p>“ ” 가 - - - - - - (: 6)</p>
<p>10.</p>	<p>“ ” (: 1) “ ” (: 2)</p>
<p>11. 가</p>	<p>“ ” (: 1) “ - - ”, “ - ”, “ ”</p>

5. ‘ ’ ‘ ’ ‘ ’ ‘ ’ .	(: 2)
6. .	(), 가 () (: 1)
7. .	1. ‘ + , 가 : , 가 가 (: 2) 2. ‘ : , , , , , 가 , 가 , 가 , , 가 , (: 1)
8. ‘ ’ , ‘ 가 .	“ ”(: 3) “ 가 ”(: 5)
9. .	(: 1)

1.	가 (: 1) 가 (: 1)
2.	

< - 2 >

	R ² (F)			
	(n = 120)	(n = 60)	(n = 90)	(n = 90)
	R ² = .53 (F = 135.46****)	R ² = .26 (F = 20.29****)	R ² = .34 (F = 44.42****)	R ² = .51 (F = 92.83****)
	R ² = .57 (F = 154.03****)	R ² = .26 (F = 20.26****)	R ² = .32 (F = 41.77****)	R ² = .57 (F = 118.93****)
	R ² = .51 (F = 123.99****)	R ² = .27 (F = 21.56****)	R ² = .53 (F = 35.51****)	R ² = .58 (F = 120.86****)
	R ² = .45 (F = 96.79****)	R ² = .34 (F = 30.36****)	R ² = .36 (F = 49.44****)	R ² = .47 (F = 79.14****)
	R ² = .43 (F = 89.81****)	R ² = .34 (F = 30.36****)	R ² = .33 (F = 43.71****)	R ² = .48 (F = 80.73****)
	R ² = .38 (F = 73.55****)	R ² = .32 (F = 27.07****)	R ² = .29 (F = 36.65****)	R ² = .42 (F = 64.64****)

****: p < .0001