

\* .      \*\* .      \*\*\*

1. , 1999)  
가 ,

( , 1980; Littlefield et al., 1992).  
가

가 가 , 가  
, 가 , 가  
가 ( , 1980).  
( , 1991).  
3 4% 2025 가 가  
가 3  
(WHO, 1985). (1991) 가  
7.9% , (1996)  
1993 30 ( , 1995).  
7.2% , (Insulin Pump)  
10.1% 가 .  
가  
19.2% ,  
18.5% ( , 1999). 가  
18.8% ( , 1997).  
가 ,  
, 가 ( , 1991;

---

\*  
\*\*  
\*\*\*

(Norris, 1998). DCCT (Diabetes Control and Complication Trial)

1-2 3-4  
1 96%, 2 54%,  
56%, 가 56%

가 가

2.

(Norris, 1997). 가

1)

2)

3)

4)

(Norris, 1970).

(Rubin, 1968),

5)

가

(Castledine, 1981), 가

3.

(Wassner, 1982).

:

(Norris, 1985; Rubin, 1985; Castledine, 1987; (Stuart, 2001).  
1988; (Norris, 1999; (Castledine, 1999),

가

(Stuart, 1983),

(1969) Osgood(1957)

(semantic differential method)

가

(Norris, 1992; (Castledine, 1994),  
(Norris, 1999; (Castledine, 2000), (Norris, 가  
1999; (Castledine, 1998; (Castledine, 1990; (Castledine, 1988;  
(Castledine, 1994), (Castledine, 1994),

1994), (Norris, 1985; (Norris, 가  
1998; (Norris, 1991), (Castledine, 1994; (Castledine, 1.  
1997; (Castledine, 1997), (Castledine, 1998),

(Castledine, 1997), 가

(Castledine, 1993)

(Castledine, 1989; (Castledine, 1994)

2000),

(Castledine, 가 140mg/dl

가 200mg/dl  
가  
140-200mg/dl  
(WHO, 1985).

(Type )

(Type )

( , 1984),

20 30%

( , 1983;

30-40

, 1999;

,2000 ).

가

가

가

가

( , 1998).

가

가

가

가

40-60%

70-120mg/ 100ml

( , 1992;

, 1997).

가

30-60

가

가

(

가

( ,

, 1976),

, 1990),

3

, 100

/ml

4

7

(

2

).

가

가 50ml/dl

가

가,

( , 1997).

C- peptide

( , 1992).

가

가

( , 1995).

가

가

가

가 (Wassner, 1982; , 1992),  
가 ( , 2001).  
가 (Anthony, 1968).  
가 (1996) 가  
(1987) 가  
가 가 가  
( , 1992), 가  
( , 1985), 가 (1972). ( , 1982,1985; Kaufman, (1985)  
가 (Wassner, 1982),  
가 ( , 1992).  
Castledine(1981) 가 (Kaufman, 1972).  
, Wassner(1982)  
가  
( , 1993). Wassner(1982)  
가 (personality), (sex), , 1.  
, 가  
가 . NANDA(North 2.  
America Nursing Diagnosis Association)  
(Kim , 1987). B  
(Norris, 1970) 60  
60 120 .  
(Brunner & Suddarth, 1982).  
2 가

1998 4 15 8 20 .

53.3%, 46.67%,  
48.3%, 가 51.7%

3.

41-50 23.33%,  
7 51-60 38.34%, 61-70 25% ,  
10 , 15 41-50 20%, 51-60 36.67%, 61-70 28.33%  
51-60 ,

1)

(1957) (1969) Osgood / 65%, /  
60%

가, , 3 95%  
15

“ ” 가 46.67%,  
60% 가  
7 15  
105 가 38.33%,  
.8584 . 15.00%, 28.33%,  
26.67%, 20%

4.

SPSS , 16.67%, 55%,  
20%, 8.33%,

1)

, <sup>2</sup>-test 31.67%, 53.33%, 13.33%,  
1.67% < 1>.

2)

3)

2. , t-test

4)

t-test, ANOVA,  
Scheffe test

5.

1-2 6.67%, 3-5  
18.33%, 6-10 16.67%, 11-15 26.67%, 16-20  
23.33%, 21 8.33%, 1-2  
16.67%, 3-5 16.67%, 6-10 28.33%, 11-15  
13.33%, 16-20 16.67%, 21 8.33%  
11-15 , 6-10

78.33%,  
' ' 21.67%, ' ' 56.67%, ' '  
43.33%

1.

가 (p = .035).  
18.88%,  
6.67%, 5%, 70%,

< 1>

(N = 120)

	(N = 60)		(N = 60)		χ <sup>2</sup> - test	p
		(%)		(%)		
	32	53.33	29	48.30	.300	.715
	28	46.67	31	51.70		
40	3	5.00	4	6.67	.501	.922
41-50	14	23.33	12	20.00		
51-60	23	38.34	22	36.67		
61-70	15	25.00	17	28.33		
71	5	8.33	5	8.33		
	21	35.00	24	40.00	3.240	.663
	39	65.00	36	60.01		
	2	3.34	3	5.00	4.221	.121
	58	96.66	57	95.00		
	3	5.00	3	5.00	4.274	.511
	11	18.33	7	11.67		
	28	46.67	36	60.00		
	16	26.67	10	16.67		
	2	3.33	4	6.67		
	11	18.30	17	28.33	8.255	.143
	17	28.33	15	20.00		
	23	38.33	16	26.67		
	9	15.00	12	20.00		
	17	28.33	9	15.00		
	33	55.00	32	53.33	6.608	.158
	10	16.67	19	31.67		

5%, 10%, 1.67%, 83.33% 가 65% 가 (p = .000).  
 가 (p = .016). 68.33%  
 ' ' 75%, ' ' ,  
 25%, ' ' 55%, ' ' 45% 13-24 41.67% < 2>.  
 가 가 3.  
 (p = .031). '가 60% 69.08 ± 18.13(  
 105 15)  
 100% , 43.33%, 72.32 ± 17.00 , 65.85  
 55%, 6.67% , ± 18.78  
 ' ' 88.33%, ± 18.78  
 ' 11.67%, ' 41.67%, ' (p < .05).  
 ' 58.33% 가  
 4.  
 (p = .000).  
 1-3 71.67%  
 가 ,

&lt; 2 &gt;

(N = 120)

	(N=60)		(N=60)		χ <sup>2</sup> - test	P
		(%)		(%)		
1 - 2	4	6.67	10	16.67	9.965	.126
3 - 5	11	18.33	10	16.67		
6 - 10	10	16.67	17	28.33		
11- 15	16	26.67	8	13.33		
16-20	14	23.33	10	16.67		
21	5	8.33	5	8.33		
	47	78.33	34	56.67	6.672	.035*
	13	21.67	26	43.33		
	11	18.33	3	5.00	15.539	.016*
	4	6.67	6	10.00		
	3	5.00	2	3.34		
	42	70.00	49	81.63		
	45	75.00	33	55.00	6.923	.031*
	15	25.00	27	45.00		
	3	5.00	6	10.00	8.882	.261
	2	3.34	5	8.33		
가	6	10.00	3	5.00		
	3	5.00	7	11.67		
	2	3.34	2	3.33		
	44	73.32	37	61.67		
	60	100.00			31.829	.000***
			26	43.33		
			30	55.00		
±			4	6.67	44.520	.000***
	53	88.33	25	41.67		
	7	11.67	35	58.33		
1 - 3	43	71.67	14	23.33	44.520	.000***
4 - 6	6	10.00	4	6.67		
7 - 9	6	10.00	3	5.00		
0	5	8.33	39	65.00		
	41	68.33				
	12	20.00				
	7	11.67				
1 - 6	17	28.33				
7 - 12	17	28.33				
13 - 24	26	43.34				

\* P&lt;.05 \*\* p&lt;.01 \*\*\*p&lt;.001

< 3 >		(N = 120)			
		(N=60)	(N=60)	t	p
		±	±		
		69.08 ± 18.13	72.32 ± 17.00	1.998	.050*

\* p .05

< 4 >		(N = 120)			
		(N=60)	(N=60)	t	p
		±	±		
1.	-	4.14 ± 1.61	4.07 ± 1.92	.207	.836
2.	-	5.58 ± 1.68	5.55 ± 1.75	.083	.934
3.	-	5.69 ± 1.78	6.03 ± 1.58	1.647	.102
4.	-	6.03 ± 1.58	5.28 ± 2.23	2.120	.036*
5.	-	5.51 ± 2.14	5.48 ± 1.81	.069	.914
6.	-	5.91 ± 1.76	4.75 ± 2.14	3.239	.002**
7.	-	3.53 ± 1.71	3.33 ± 2.26	.522	.603
8.	-	4.72 ± 2.03	3.91 ± 2.30	2.039	.044*
9.	-	3.24 ± 2.29	3.73 ± 2.50	-1.129	.261
10.	-	5.03 ± 2.18	4.60 ± 2.40	1.031	.305
11.	-	4.42 ± 1.91	4.07 ± 2.27	.927	.356
12.	-	4.41 ± 1.96	4.22 ± 2.30	.485	.628
13.	-	5.29 ± 1.97	4.57 ± 2.42	1.781	.077
14. 가	-	4.36 ± 2.14	3.45 ± 2.32	2.215	.029*
15.	-	4.46 ± 1.98	3.45 ± 2.39	1.179	.241

\* : P<05    \*\* : P<01

6.03 ± 1.58 가 (t = 3.100, p = .012), (t = 2.444, p = .016) 가 < 3 >.

2.29 가 3.24 ± 2.26 가 < 4 >.

5.55 ± 1.75 가 3.33 ± 2.26 가 < 4 >.

15 4 (t = 2.120, p = .036), (t = 3.234, p = .002), (t = 2.039, p = .044), 가 (t = 2.215, p = .029) 61, 59, 61 30% < 4 > 가

5. 가 : (Wikbald. 1996) 가 가 (t = 2.415, p = .017), (t = -2.434, p = .017), 가 60% (t = 6.008, p = .001) 가 42.33%,



&lt; 5 &gt;

(N = 120)

			±	t, F	P		
( )		61	69.75 ± 17.37	.163	.687		
		59	68.40 ± 19.02				
		40	7	54.60 ± 10.06	.977	.435	
		41-50	26	68.50 ± 19.14			
		51-60	45	69.09 ± 18.69			
		61-70	32	72.03 ± 17.90			
		71	10	69.99 ± 17.42			
			45	74.30 ± 13.91			2.415
	( )		75	66.09 ± 17.42	-2.434	.017*	
			4	47.75 ± 8.58			
			116	69.84 ± 18.02	1.460	.209	
			6	55.00 ± 21.15			
			18	76.11 ± 15.87			
			64	67.71 ± 18.74			
			26	69.84 ± 15.99			
			6	74.25 ± 21.08			
		28	67.06 ± 18.53	1.436	.217		
		32	72.37 ± 17.56				
		39	72.37 ± 17.56				
		21	53.75 ± 6.02				
		26	78.17 ± 17.01			6.008	.001***
		65	68.95 ± 16.40				
		29	60.00 ± 19.33	.808	.566		
		1-2	14			70.08 ± 16.78	
		3-5	21			74.43 ± 16.19	
		6-10	27			70.36 ± 17.52	
		11-15	24			65.21 ± 18.83	
		16-20	24			69.75 ± 18.83	
	21	10	62.00 ± 24.82	-1.593	.116		
		81	67.28 ± 18.48				
		39	72.89 ± 16.98				
		14	66.50 ± 20.38				
		10	64.30 ± 20.31				
		4	65.00 ± 21.59				
		92	66.35 ± 16.25	1.018	.311		
		78	70.28 ± 18.96				
		42	66.67 ± 16.26				
		9	74.33 ± 16.28				
		6	62.15 ± 15.64				
	가	9	68.22 ± 10.72			3.100	.012**
		10	60.56 ± 13.34	1.309	.275		
		5	57.33 ± 6.66				
		81	71.32 ± 18.63				
		60	72.32 ± 17.00				
		26	64.96 ± 14.86				
		30	66.30 ± 21.80				
	±	4	68.00 ± 21.02	2.444	.016*		
		78	72.00 ± 17.80				
		42	63.61 ± 17.67				

< 5>		( )		(N = 120)	
			±	t, F	P
( )	0	44	64.23±18.04	1.943	.127
	1-3	57	71.95±17.97		
	4-6	10	73.40±18.45		
	7-9	9	74.00±14.02		
		41	70.27±19.33		
( )		12	71.46±16.71	.888	.477
		7	78.56±15.80		
	1-6	17	69.35±19.74		
	7-12	17	74.82±18.56		
	13-24	26	72.79±14.38		

\*:p<05, \*\*: p<.01, \*\*\*; p<001

46.67% (1982)

11 (1998)

58.33%, 38.88%

30%

16.67% 가 가

(75%)

88%

41.67% (1992)

4 (t=2.215, p<.05), 1-3 (t=3.234, p<.05), (t=2.039, p<.05), '가' (t=2.215, p<.05)

91.67%, 35% 15%가

68.33%

가

69.08(105 )

(1985)

(1997)

(2001) 67.44

가

가  
(t = 2.415, p < .05), (t = 6.008, p < .05),  
(t = -2.434, p < .05), (t = 3.100, p < .05),  
(t = 2.344, p < .05) 가

2. 69.08 ± 18.13

(t = 1.998, p < .05).

3.

'(t = 2.120, p < .05), ' (t = 3.234, p < .05),  
'(t = 2.039, p < .05), '가 -  
'(t = 2.215, p < .05)

4.

(t = 2.039, p < .05), (t = -2.434, p < .05),  
(t = 6.008, p < .05)

(2001)

가  
(1998)

가

(t = 3.100, p < .05), (t = 2.444, p < .05)

' , '가 - ' 가

1998 4 15 8 20

B

120

60

60

(1969) Osgood(1957) (semantic differential method)

SPSS

ANOVA, Scheffe-test, 2-test, t-test,

1)

가

2)

가

1.

가

(1992). \_\_\_\_\_ 가 \_\_\_\_\_

(1993). \_\_\_\_\_  
 \_\_\_\_\_ :  
 (1998). \_\_\_\_\_ ,  
 \_\_\_\_\_ , 9(1),  
 128-142  
 (1995). \_\_\_\_\_ (7), 14-19  
 , (1999). \_\_\_\_\_  
 \_\_\_\_\_ , 22, 33-46  
 , \_\_\_\_\_ (1988).  
 \_\_\_\_\_  
 \_\_\_\_\_ , 9, 52-60  
 (1987). \_\_\_\_\_ , \_\_\_\_\_  
 \_\_\_\_\_ , 4(1), 1-14  
 (1980). \_\_\_\_\_ .  
 (1991). \_\_\_\_\_ :  
 (1999). \_\_\_\_\_ , 3(1),  
 89-104  
 (1989). \_\_\_\_\_ 2  
 \_\_\_\_\_ 4  
 \_\_\_\_\_  
 (1998). \_\_\_\_\_  
 \_\_\_\_\_ , 28(1),  
 132-142  
 (1998). \_\_\_\_\_ :  
 (1984). \_\_\_\_\_ 가  
 \_\_\_\_\_ :  
 \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ ,  
 \_\_\_\_\_ (1996).  
 \_\_\_\_\_ , 20, 14.  
 (1994). \_\_\_\_\_  
 \_\_\_\_\_ , 18(1), 31-39  
 (1994). \_\_\_\_\_ , 27(3),  
 425-437  
 (1986). \_\_\_\_\_  
 \_\_\_\_\_ :

(1997). \_\_\_\_\_ (5), 23-27  
 (1998). \_\_\_\_\_ :  
 (1997). \_\_\_\_\_ :  
 (2000). \_\_\_\_\_ :  
 (1997). \_\_\_\_\_  
 (1992). \_\_\_\_\_ :  
 \_\_\_\_\_ :  
 (1987). \_\_\_\_\_ , \_\_\_\_\_ :  
 (1992). \_\_\_\_\_ (Type )  
 \_\_\_\_\_ 가 \_\_\_\_\_ , 가  
 \_\_\_\_\_ , 45(1), 347-354  
 (2001). \_\_\_\_\_ ,  
 (1993). \_\_\_\_\_ :  
 \_\_\_\_\_ :  
 (1988). \_\_\_\_\_ :  
 \_\_\_\_\_ -  
 (1996). \_\_\_\_\_ :  
 (1997). \_\_\_\_\_ 가  
 \_\_\_\_\_ :  
 (1993). \_\_\_\_\_ 가  
 \_\_\_\_\_ :  
 (1999). \_\_\_\_\_ , 3(2,)165-175  
 (1998). \_\_\_\_\_ (2), 6-9  
 (1998). \_\_\_\_\_ (10), 11-14.  
 (1992). \_\_\_\_\_ :  
 \_\_\_\_\_ :  
 (1984). \_\_\_\_\_ :  
 (1994). \_\_\_\_\_ :  
 가 \_\_\_\_\_ -

- (1997). \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- (1992). \_\_\_\_\_, \_\_\_\_\_, 23(3), 271-296
- (1990). \_\_\_\_\_
- (1995). \_\_\_\_\_, \_\_\_\_\_, 48(6), 1-8
- (1991). \_\_\_\_\_
- (1988). \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ (7), 163-181
- (1985). \_\_\_\_\_
- (1985). \_\_\_\_\_, \_\_\_\_\_ (3), 119-142.
- (1991). \_\_\_\_\_ 2
- (1986). \_\_\_\_\_
- (1968). \_\_\_\_\_ : \_\_\_\_\_
- (1985). \_\_\_\_\_
- (1994). \_\_\_\_\_
- (1998). \_\_\_\_\_ 가
- (1993). \_\_\_\_\_ 가
- (1997) 가 (BSE) BSE \_\_\_\_\_, \_\_\_\_\_, 1(2), 183-191
- (1999). \_\_\_\_\_, \_\_\_\_\_
- (2000). \_\_\_\_\_, \_\_\_\_\_, 6(1), 96-108
- (2001). \_\_\_\_\_ 가 \_\_\_\_\_ 13
- (1999). \_\_\_\_\_ 2
- \_\_\_\_\_, \_\_\_\_\_, 32(1), 17-23.
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- (12), 95-105.
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- Abstract -

Key concept : Body image, Diabetes mellitus patients who used insulin pump therapy

### Comparison of Body Image between DM Patients who used Insulin Pump and didn't use Insulin Pump

*Lee, Myung Hwa* \*. *Kim, Kyung Hee* \*\*  
*Woo, Kyung Mi* \*\*\*

The purpose of study was to compare body image between diabetes mellitus patients who used insulin pump therapy and didn't use insulin pump therapy.

The study design was comparative survey study the subjects were 60 diabetes mellitus patients who used insulin pump therapy and 60 diabetes mellitus patients who didn't use insulin pump therapy at B hospital in Busan

The data were collected from 15th April to 20th August, 1998.

The instrument used for this study were Osgood's body image scale.

The collected data were analyzed frequency, percentage,  $\chi^2$ -test, mean, standard deviation, t-test, ANOVA, Scheffe test.

The results were as follows

1. Demographical characteristics between diabetes mellitus patients who used insulin pump therapy and didn't use insulin pump therapy were no significant difference.
2. Characteristics related disease between diabetes mellitus patients who used insulin pump therapy and didn't use insulin pump therapy were significant difference in participation of D.M. meeting, no of participation of D.M. meeting.
3. Body image score of diabetes mellitus patients was  $69.08 \pm 18.13$ .  
In body image, diabetes mellitus patients who used insulin pump therapy were higher than that didn't use insulin pump therapy ( $t = 1.964, P < .05$ )
4. In body image's each item, common-strange item, noble-humble item, competent-incompetent item, light-heavy item, diabetes mellitus patients who used insulin pump therapy were higher than diabetes mellitus patients who didn't use insulin pump therapy ( $P < .05$ )
5. In body image according to economic status, marital status, occupational status were significantly difference.
6. In body image according to causes of regular hospital visiting, participation of diabetes mellitus class were significantly difference.

In conclusion, diabetes mellitus patients who used insulin pump therapy were more positive than diabetes mellitus patients who didn't use insulin pump therapy.

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