



**2000 12**

가

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.

2000 12

.....

- ..... 1
  - 1. .... 1
  - 2. .... 5
  - 3. .... 5
  
- ..... 6
  - 1. .... 6
  - 2. .... 8
  
- ..... 13
  - 1. .... 13
  - 2. .... 13
  - 3. .... 13
  - 4. .... 14
  - 5. .... 14

•	.....	15
1.	.....	15
2.	.....	20
3.	.....	26
4.	.....	29
5.	.....	33
•	.....	38
1.	.....	38
2.	.....	40
3.	.....	41
4.	.....	42
5.	.....	43
6.	.....	45
•	.....	47
	.....	51
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2000. 1. 1 2000. 9. 30

2,500 g 37  
, 242 3  
726 534 .  
가 .  
SPSS ,  
, 55 10.4% ,  
17.0%, 59.7% .  
,  
35.2 , ( ) 179 , 가 6  
28.4%, 18.6%,  
75.0%, 29.0%, 27.4%,  
2.7%, 1.7%,

12.7% . 9 가 17.6%,  
29.9%, 21.9%,  
32.6%, 52.5%, 24.3%,  
9.7%, 1.3% . '가  
. ' , ' ' .  
가 ' .  
' .  
' , 가 가 ' ' .  
62.1%, ' . ' 60.6%, ' .  
' 57.4%, ' ' 55.5%, ' ' 51.6% .  
' , ' ' 가 가 .  
가 가 1 2 3 4 ' ,  
5 6 7 ' ' .  
, 가 ( 75% ) ( 25% )  
, 가  
(p<0.05), (p<0.005),  
(p<0.005), 가 (p<0.005) 가  
가 .  
가 가  
5 ' ' , ' . ' , ' .  
' , ' ' , ' ' .



가  
( $p < 0.005$ ),  
( $p < 0.005$ ),  
( $p < 0.005$ ).  
( $p < 0.05$ ),  
( $p < 0.05$ ),  
(3 ),  
가 ( $p < 0.05$ ).  
가  
, 가  
가

•

**1.**

가

가

가

가

가

가

,

가

.

가

가

,

,

가

가

가

37

,

가

가

.

, 「

」

가

,

(WHO, 1976).

가 「 」

,

,

,

가 가

(WHO, 1992).

가

가

1958

가

가

가

가? 1999

1999 2 「 」 「 」

가

가  
2000 1 .  
, 4 ( , 1997)  
가 가 가  
2000 20 2,500gm  
, .  
, 가 3 7% . 1990  
7.7%( , 1994) , 1996  
3.4%( , 1999), 1998  
3.58%( , 1999) , 「  
」 7%(WHO, 1997) .  
가 가 .  
가 , 50 60%

(Erikson, 1973 : 200 ; Rennert, 1975 : 185)

가 가?

가

, 가 가

1999 「 」,  
가 ,

가 ,

2.

3.

“ ” 37  
“ 37  
「 」 1 2 “37  
2500g  
37 가 ”  
37  
2,500g

1.

1960 (NICU: Neonatal Intensive Care Unit) 가 ( ) 1,000g 87.1%, 1,001 1,500 g 37.6%, 1,501 2,000 g 2.7% ( , 1993). 1995 1996 (NICU) 750 g 33.3%, 750 999 g 61.5%, 1,000 1,249g 86.4%, 1,250 1,499 g 81.8% ( , 1998) 가 가 . 500 699g 18%, 800 999g 70%, 1,300 1,499g 97%가 , (Cartkidge & Stewart, 1997).

59% (O'shea et al., 1997).  
 80 20%, 80 501g 800g 36% , 90 70

( , 1997). 가  
 2/3 , 가  
 (Small for gestational age)

1993 1994 가  
 24 25 35%, 27 28 75%, 30 31 95%가  
 가 (O'shea et al., 1997).

가  
 2,500g 37  
 ( , 1985). Coll(1990)

1988 1,000 1,500g 2 5  
 21% , , , ,  
 . 1992 1,500g 26%



, 57%

1,000 1,500g 60 85%가

( , 1996).

,

126

16

12.7%

,

217

63

29.0%

.

1,500g

25 (45.5%), 1,500 1,999g

24 (31.2%)

가 가

( ,

, 1999).

,

(McCarton, Wallacc & Benett, 1995;

,

, 1997).

가

,

가

2.

가

가

(Klein & Stem,1971).

(1988)

(41.7%),

(7.3%),

(6.5%), 가

(5.4%),

(4.1%) .

Brooten, Gennaro & knapp (1988)

가

, 가

(25%)

(30%)

(35%) .

Blake

(Cited in, , 1990).

Fraley(1990)

( , , 1991)

가

( , 1994),

( ,

1990 : , 1991 : , 1993).

가 . ,

, ,

(1998)

가

. ,

,

(

, , 1999)

(1998)

, ,

“ ” 가 “ ”

(Baebara Medoff-cooper, Babara, Schraeder, 1982).

1 ,

, ,

.

( , 1990).

, 가

가 (Blackburm, 1995).

, , ,

, , , 가 ,

가 (Gupton & Heaman, 1994; Drake, 1995; ,

1997), 가 가 가

. 가 가

가 가

(Miles , 1997).

가 ,

,

, ,

, .

, , ,

, , , , ,

가 .

, , ,

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, , ,

, , , , ,

, , , , ,

,

가

.

•

**1.**

• • ,

**2.**

	2000. 1. 1	2000. 9. 30	2500g
		37	,
2000 9 30		1 9	7,792
		242	3
		726	,
534(73.6%)		.	

**3.**

• • ,

, , ,

,

3 ,  
 , 4 10 ,  
 , 20 ,  
 , 37 ,  
 65 122 ( ).

**4.**

2000 10 20 11 18 29  
 . . .  
 , ,  
 가 가

**5.**

SPSS Window .  
 , , ,  
 , 가  
 t-test x<sup>2</sup>-test ,  
 ,  
 x<sup>2</sup>-test .

.

1.

1)

534 112.8 .  
 1 10 , 5.6±2.6 .  
 7 40.1% 가 , 5 6 24.3%, 3 4  
 21.7% , 78.9%가 , 3.6%  
 . 가 79.1% 가 , 6.7%  
 .  
 1,934g 2000g 49.8% 가 , 1,500  
 g 2,000g 29.3%, 1,500g 20.9% . 33 ,  
 25 41 . 33 37 59.5% 가  
 , 29 32 가 28.7%, 28 가 6.8% .  
 16.2%, 0.8% , 95.9%가  
 가 0.7% . 55.6%가  
 44.4% ( 1 ) .  
 10.4% 55 , 15  
 (27.3%) 가 , 2 (3.6%), 2 (3.6%)  
 ( 2 ) . 55  
 가 62.4%, 가 21.2%, 가  
 5.8% .



1.

		(N = 534)	
			%
		282	53.0
		250	47.0
	1	17	3.2
	1 2	57	10.7
	3 4	115	21.7
	5 6	129	24.3
	7	213	40.1
		415	78.9
		92	17.5
		19	3.6
		35	6.7
		75	14.2
		416	79.1
	730 1500g	111	20.9
	1500 2000g	156	29.3
	2000g	265	49.8
	25 29	34	6.8
	29 33	144	28.7
	33 37	299	59.5
	38 42	25	5.0
		439	83.0
		86	16.2
		4	0.8
		511	95.9
		18	3.4
		4	0.7
		236	44.4
		295	55.6

) % .

2.

		%
	15	27.3
	2	3.6
( )	2	3.6
	1	1.8
	1	1.8
/	1	1.8
	33	60.0
	55	100.0

) , , , ,

309 (59.7%) ,

가 32.7% 가 , 10.4%,

7.8%, 7.4%, 6.8%, 5.2%,

2.6%, 20 1.9% ( 3 ).

3.

		%
	101	32.7
	32	10.4
	24	7.8
	23	7.4
	21	6.8
	16	5.2
	8	2.6
	6	1.9
	78	25.2
	309	100.0

) , , , , .

2)

66.2% 가  
 26.3% . 30.5 ± 4.4 , 19 50  
 . 30 34 가 40.0% 가 , 19 24 가 7.3%, 35  
 가 16.3% .

4.

(N=534)

		%	
		40	7.5
		353	66.2
		140	26.3
	19 24	39	7.3
	25 29	194	36.4
	30 34	213	40.0
	35	87	16.3
		516	97.0
		9	1.6
		4	0.8
		2	0.4
		1	0.2
		330	61.9
		140	26.3
		55	10.3
		8	1.5
		369	69.4
		163	30.6
		76	14.3
		251	47.3
		204	38.4
		462	86.7
		57	10.7
		14	2.6

) %

97.0% ,  
 가 61.9%,  
 2.5% .  
 11.8% .  
 163 (30.6%) , 가 가  
 38.4%가 “ ” , “ ” 14.3% .  
 가(86.7%) ( 4 ) .  
 ,  
 21.2% 113 가 ,  
 ‘ 가 30.1% 가  
 ‘ 25.7%, ‘ 17.7%, ( 5 ) .

5.

		% <sup>1)</sup>
	34	30.1
	29	25.6
	20	17.7
	15	13.3
( )	5	4.4
	5	4.4
	2	1.8
	2	1.8
	1	0.9
	113	21.2

: D / × 100

2.

1)

93.2%가 ,  
35.2 , 1 270 .  
179 300 84.3% ,  
2 2,900 . 15.9%  
, 2 가 4.0% .  
가 27.9% , 11 20 가 8.6%,  
21 3.6% .  
95 (18.6%) , BCG, DPT,  
22% 가  
가 BCG 1.6%, DPT 4.2%,  
4.0% ( 6 ).

6.

(N=534)

		%	
		36	6.8
		493	93.2
	7	59	11.3
	8 14	82	15.7
	15 21	91	17.5
	22 28	52	10.0
	29	237	45.5
	100	46	9.3
	100 300	32	6.5
	300	418	84.3
		424	84.1
	1	60	11.9
	2	10	2.0
	3	6	1.2
	4	4	0.8
		140	27.9
	1 5	219	43.7
	6 10	81	16.2
	11 20	43	8.6
	21	18	3.6
		416	81.4
		95	18.6
	(BCG)	335	76.0
		99	22.4
		7	1.6
	(DPT)	263	74.1
		77	21.7
		15	4.2
	( )	276	74.4
		80	21.6
		15	4.0

) %

2)

가.

66.5%, 가 25.0% 91.5% 2 .

29.0% 153 ,

27.4% 145 .

2.7% 14 , 1.7%

9 .

가

6.6% 35 , 가

4.7% 25 ,

1.7% 9 .

12.7% 67 ,

, 2.1%, /

1.9%, 1.3%, 0.9%, 0.2% .

50 (9.6%)

, 가 5.8%

1.3%, 0.4% ( 7 ).

7.

(N=534)

		%	
		133	25.0
1		45	8.5
2		353	66.5
		381	71.0
		153	29.0
		389	72.6
		145	27.4
		520	97.3
		14	2.7
		525	98.3
		9	1.7
		462	87.0
		9	1.7
	가	35	6.6
	가	25	4.7
		467	87.3
		67	12.7
		417	96.8
		17	3.2
		470	90.4
		31	6.0
		7	1.3
		2	0.4
		1	0.2
		9	1.7

) %

.

4 30.5%, 9 가 17.6%

6 10 가 59.6% 가 , 5

가 13.3%, 16 6.8% . 6 10 가



54.3% 가 , 11 16.2% .  
 가 11kg 63.3% 가 , 6 10kg  
 32.9% , 29.9% 가 ,  
 21.9%, 13.9%, 11.7%, 5.6%, 4.1%  
 ( 8 )

8.

(N=534)

			%
	4	160	30.5
	5 8	272	51.9
	9	92	17.6
	5	69	13.3
	6 10	308	59.6
	11 15	105	20.3
	16	35	6.8
	5	140	29.5
	6 10	258	54.3
	11	77	16.2
	5kg	20	3.8
가	6 10kg	172	32.9
	11kg	331	63.3
		68	12.9
		159	29.9
		112	21.9
		74	13.9
		62	11.7
		30	5.6
		22	4.1

) %

가 가 173 (32.6%) , 7.5%,  
 6.2%, 2.2%, / 1.5%, 1.5% .

9.

		%
	358	67.4
	40	7.5
	33	6.2
	12	2.2
	8	1.5
,	8	1.5
	6	1.1
	2	0.4
	2	0.4
	1	0.2
	1	0.2
	45	8.5
	253	47.5
	144	27.0
	38	7.1
	34	6.4
	29	5.4
	1	0.2
	1	0.2
	33	6.2
	402	75.7
	62	11.7
	35	6.6
	9	1.7
,	5	0.9
	4	0.8
	1	0.2
	13	2.4
	475	90.3
1	33	6.3
2 3	7	1.3
1	10	1.9
	1	0.2
	527	98.7
/	5	0.9
/	2	0.4

)

(27.0%) 7.1%,  
6.4%, 가 6.2%, 5.4%, ,  
0.2% .  
'가  
11.7% 가 , ' '가  
6.6%, ' ' 1.7%, '  
'가 0.9%, ' ' 0.8%, '  
' 0.2%, ' '가 2.4% .  
51 (9.7%) , 1 11  
(2.1%) , 7 (1.3%) ( 9 ) .

### 3.

가 ,  
, ,  
. '가 , (24.1%)'  
' (18.6%)' , 가 '  
, (10.5%)', 가 '  
(9.5%)' .  
' 가 , (20.0%)',  
' (14.2%)', ' (11.6%)', '  
(11.1%)' .

10.	가	( )	%
	가		53 24.1
			41 18.6
			23 10.5
			21 9.5
			21 9.5
			17 7.7
			13 5.9
			13 5.9
			10 4.5
			8 3.6
	가		45 20.0
			32 14.2
			26 11.6
			25 11.1
			25 11.1
			21 9.3
			15 6.7
	( , )		15 6.7
	가		13 5.8
			8 3.6
	가		30 15.2
			26 13.1
			25 12.6
			21 10.6
			20 10.1
			20 10.1
			16 8.1
			16 8.1
			13 6.6
			11 5.6

) % .

가  
 , 1 2 ' (18.8%)'  
 가 (46.9%)', '  
 , 3 4 '  
 가 (38.9%)', '  
 ,  
 (18.5%)', ' (18.5%)' .

11. 가

		%	
	가	15	46.9
1 2 (n=74)		6	18.8
	가	5	15.6
	가	3	9.4
	가	3	9.4
	가	21	38.9
3 4 (n=115)	,	10	18.5
	,	10	18.5
		8	14.8
		5	9.3
	가	46	41.1
5 6 (n=129)		28	25.0
		20	17.9
		13	11.6
		5	4.5
	가	81	38.6
7 (n=213)		58	27.6
		30	14.3
		23	11.0
		18	8.6

) %

5 6 ' 가  
 (41.1%)', ' (25.0%)', '

(17.9%)’ , 7 ‘  
 가 (38.6%)’, ‘ (27.6%)’ ( 11 ).

**4.**

**1)**

가 가  
 ( 12 ).  
 가 ‘ ‘  
 62.1% , ‘ . . ‘  
 60.6%, ‘ . ‘ 57.4%,  
 ‘ 55.3% ,  
 ‘ 가 51.6% . 가 가  
 ‘O ‘ 8.1%, ‘ 8.3%, ‘ ,  
 ‘ 8.4%, ‘ 9.0%, ‘ 10.7% .  
 6 ( ,  
 , , , , ) 가 가 ‘  
 ‘ 60.8%, ‘ , ‘ 59.7%, ‘ .  
 ‘ 56.9%, ‘ ‘ 53.6%, ‘ ‘ 53.0%  
 , ‘ . . ‘ 63.4%, ‘ .  
 ‘ 62.9%, ‘ ‘ 56.9%, ‘ ‘ 55.4%,  
 ‘ ‘ 55.0% .

12.

	(n=181)		(n=202)		(n=150)		(N=533)	
		%		%		%		%
1.								
	26	14.4	36	17.8	21	14.0	83	15.6
	34	18.8	43	21.3	21	14.0	98	18.4
	110	60.8	115	56.9	106	70.7	331	62.1
2.								
	79	43.6	92	45.5	64	42.7	235	44.1
	47	26.0	53	26.2	39	26.0	139	26.1
	85	47.0	105	52.0	75	50.0	265	49.7
	81	44.8	87	43.1	62	41.3	230	43.2
	45	24.9	71	35.1	45	30.0	161	30.2
3.								
	74	40.9	84	41.6	63	42.0	221	41.5
	50	27.6	58	28.7	42	28.0	150	28.1
	108	59.7	128	63.4	87	58.0	323	60.6
4.								
	44	24.3	43	21.3	37	24.7	124	23.3
	41	22.7	59	29.2	33	22.0	133	25.0
	7	3.9	19	9.4	19	12.7	45	8.4
	67	37.0	85	42.1	57	38.0	209	39.2
	28	15.5	31	15.3	22	14.7	81	15.2
5.								
	103	56.9	127	62.9	78	52.0	308	57.4
	27	14.9	33	16.3	27	18.0	87	16.3
	59	32.6	71	35.1	60	40.0	190	35.6
	21	11.6	33	16.3	21	14.0	75	14.1
6.								
가	28	15.5	30	14.9	15	10.0	73	13.7
	71	39.2	84	41.6	59	39.3	214	40.2
가	35	19.3	52	25.7	43	28.7	130	24.4
	41	22.7	57	28.2	35	23.3	133	24.9
	38	21.0	43	21.3	23	15.3	104	19.5
7.								
o	8	4.4	27	13.4	8	5.3	43	8.1
	31	17.1	48	23.8	30	20.0	109	20.5
	80	44.2	85	42.1	61	40.7	226	42.4
	36	19.9	52	25.7	22	14.7	110	20.6

( 12 )

	(n=181)		(n=202)		(n=150)		(N=533)	
		%		%		%		%
8.								
	65	35.9	72	35.6	38	25.3	175	32.8
	26	14.4	38	18.8	16	10.7	80	15.0
	44	24.3	45	22.3	37	24.7	126	23.6
	45	24.9	59	29.2	53	35.3	157	29.5
	18	9.9	32	15.8	16	10.7	66	12.4
9.								
	68	37.6	73	36.1	37	24.7	178	33.4
	21	11.6	26	12.9	10	6.7	57	10.7
	20	11.0	27	13.4	22	14.7	69	12.9
	12	6.6	19	9.4	13	8.7	44	8.3
10.								
	40	22.1	59	29.2	35	23.3	134	25.1
	54	29.8	83	41.1	41	27.3	178	33.4
	24	13.3	45	22.3	16	10.7	85	15.9
	31	17.1	46	22.8	30	20.0	107	20.1
	88	48.6	105	52.0	67	44.7	260	48.8
11.								
	82	45.3	104	51.5	64	42.7	250	46.9
	56	30.9	78	38.6	62	41.3	196	36.8
가	34	18.8	31	15.3	25	16.7	90	16.9
	13	7.2	24	11.9	11	7.3	48	9.0
12.								
	97	53.6	111	55.0	67	44.7	275	51.6
	20	11.0	24	11.9	21	14.0	65	12.2
	27	14.9	25	12.4	22	14.7	74	13.9
	15	8.3	32	15.8	17	11.3	64	12.0
13.								
	70	38.7	76	37.6	54	36.0	200	37.5
	44	24.3	49	24.3	27	18.0	120	22.5
	25	13.8	43	21.3	21	14.0	89	16.7
	56	30.9	72	35.6	51	34.0	179	33.6
14.								
	96	53.0	112	55.4	87	58.0	295	55.3
	23	12.7	36	17.8	24	16.0	83	15.6
	58	32.0	49	24.3	32	21.3	139	26.1
	37	20.4	42	20.8	108	72.0	187	35.1



' 72.0%, ' 70.7%, '  
 ' 58%, ' 58.0%, '  
 ' 52.0%, 가  
 5 ,

2)

1 2  
 ' 74.3%, '  
 ' 64.9%, ' 64.9%, ' 59.5% , '  
 ' 59.5% , 3 4 '  
 ' 58.3%, ' 55.7%,  
 ' 48.7%, ' , ' 가  
 47.8% .  
 5 6 ' ' 63.6%, ' . .  
 ' 58.9%, ' ' 53.5%, '  
 ' 53.5%, ' 49.6% , 7  
 ' 66.2%, ' 59.2%, '  
 ' 58.2%, ' 56.8%, ' 53.1%

13.

1-2 (n=74) %		3-4 (n=115) %		5-6 (n=129) %		7 (n=213) %					
44	59.5	4	34	29.5	9	82	63.6	1	141	66.2	1
-	-	-	-	-	-	65	50.4	4	92	43.2	9
42	56.8	7	-	-	-	54	41.9	10	121	56.8	4
-	-	-	-	-	-	60	46.5	7	93	43.7	8
37	50.0	9	52	45.2	7	54	41.9	10	-	-	-
55	74.3	1	67	58.3	1	76	58.9	2	124	58.2	3
-	-	-	50	43.5	8	-	-	-	-	-	-
48	64.9	2	64	55.7	2	69	53.5	3	126	59.2	2
43	58.1	6	56	48.7	3	-	-	-	-	-	-
37	50.0	9	53	46.1	6	61	47.3	6	108	50.7	6
39	52.7	8	55	47.8	4	60	46.5	7	96	45.1	7
48	64.9	2	55	47.8	4	57	44.2	9	113	53.1	5
44	59.5	4	31	26.9	10	64	49.5	5	72	33.0	10

5.

1)

59

1

16.8

가

75%( 29.4 )

25%( 6.2 )

가

가

(1,877g)

(2,001g)

(p<0.05),

가

(32.7 )

(33.9 )

(p<0.005).

14.

		(n=126)		(n=131)		t or $\chi^2$	p
		$\pm$		$\pm$			
		or	(%)	or	(%)		
		5.65 $\pm$ 2.63		5.62 $\pm$ 2.52		-0.08	0.94
		1877.55 $\pm$ 508.3		2001 $\pm$ 444.02		2.04	0.04
		32.77 $\pm$ 3.20		33.94 $\pm$ 2.53		3.06	0.002
		103	(81.7)	102	(85.7)	0.71	0.49
		23	(18.3)	17	(14.3)		
		115	(90.6)	110	(91.7)	0.10	0.83
		12	( 9.4)	10	( 8.3)	2.38	0.15
		98	(80.3)	94	(87.9)	2.38	0.15
		24	(19.7)	13	(12.1)		
		101	(82.1)	94	(84.7)	0.28	0.73
		22	(17.9)	17	(15.3)		
		30.34 $\pm$ 4.53		30.70 $\pm$ 4.60		0.62	0.53
		8	( 6.3)	8	( 6.7)	1.06	0.59
		89	(70.1)	77	(64.2)		
		30	(23.6)	35	(29.2)		
		14	(11.0)	23	(19.3)	23.75	0.00
		51	(40.2)	73	(61.3)		
		62	(48.8)	23	(19.3)		
		87	(68.5)	87	(73.1)	0.63	0.48
		40	(31.5)	32	(26.9)		
		72	(56.7)	90	(75.0)	9.17	0.01
		36	(28.3)	20	(16.7)		
		19	(15.0)	10	( 8.3)		
		111	(87.4)	104	(86.7)	1.68	0.43
	가	14	(11.0)	11	( 9.2)		
		2	( 1.6)	5	( 4.2)		

가 , , 가 “ ” 가 , 가 “ ” 가 , 가 (p<0.005). 가 , 가 (p<0.05)( 14 ).

2)

가 가 5 ④ ⑤ (p<0.005), 가 ( 15 ).

15. .

	(%)	(%)	$\chi^2$	P-Value
	175(56.8)	155(68.9)	11.75	0.003
	98(31.8)	42(18.7)		
	35(11.4)	28(12.4)		

47가 (16). (1,500g) 가 (32) (p<0.005).

(p<0.05). 가 가 (p<0.005).

16.

	(%)	(%)	$\chi^2$	P-Value
1,500g	79(26.9)	32(13.4)	17.22	0.00
1,500 2,000g	88(29.9)	68(28.6)		
2,000 2,500g	127(43.2)	138(58.0)		
32	123(44.1)	55(24.7)	20.43	0.00
33	156(55.9)	168(75.3)		
	255(86.7)	220(93.2)	5.92	0.02
	39(13.3)	16( 6.8)		
	30(10.1)	46(19.5)	28.64	0.00
	123(41.7)	128(54.2)		
	142(48.2)	62(26.3)		

, ,  
(p<0.05), (3

), ,  
( 17 ).

17.

				x <sup>2</sup>	P-Value
		(%)	(%)		
1	3	79(28.9)	56(21.7)	6.70	0.04
4	6	81(29.7)	102(39.5)		
7		113(41.4)	100(38.8)		
		216(80.1)	208(87.8)	4.43	0.04
		51(19.1)	29(12.4)		
		207(78.1)	209(85.0)	3.95	0.05
		58(21.9)	37(15.0)		

1.

가

112.8 '99

109.6

534 55 (10.4%)

(1999)

6.5%, (1993) 4.67%

32.7% 가

10.4%, 7.8%

가

가

92.5%

(1985)

가

30 34 가 40% 가 ,

25 29 36.4%, 35 16.3%, 24 가 7.3%

(1994) 10 가

(1995) 가 가

35 가 16.3%

30.6%가 가

가 가 가

21.2%가 , 가 , ,

가 가

Gruenward, P. (1977)

가 “ ” “ ”가

47.3% 38.4%



2.

35.2 , 29  
가 45.5% 가 가  
179 , 300  
가 84.3% 6  
가 28.4%  
2000 가  
가 , 가 가  
가  
18.6%  
가 ,  
BCG, DPT, 20.0%  
75.0% 가  
, 29.0%, 27.4%,  
2.7%, 1.7% .  
가 6.6% 가 가 4.7% ,  
12.7%, 3.2% .  
(1990) , 가 가 가  
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, ,

가

9 가 17.6%

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(1993) 19.9% , (1990)

13.0%, (1993) 19.2% . (1992)

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. 29.9%, 21.9%,

13.9%, 11.7%, 5.6%, 4.1% ,

가 32.6%, 52.5%, 24.3%,

9.7% . Arsenio Spinillo (1994)

1.3%

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### 3.

Mchaffic(1990) 가

가 가 .

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**4.**

Mckim (1993) , ,  
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 가 , (1997)  
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 ' (51.6%)', ' (51.6%)' .

28.1%) , ( 34.0%, 37.9%, 가

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가 가 .

5.

(2000)

가 ( 75% ) 가 ( 25% )  
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 가 2,001g (p<0.05),  
 (p<0.005), 가 (p<0.005),  
 (p<0.05) 가 .  
 , 가  
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 가  
 가 가 5  
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 (p<0.005), '  
 (p<0.005), (p<0.005), (p<0.05),  
 (p<0.005)  
 ,  
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 (p<0.05).

Sheikn & O. Brien (1993) , , , , ,  
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가 , 가 가

가

가 가

6.

가 가

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가 가

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2000. 1. 1 2000. 9. 30

2500 g

37

242

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534

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29

3

SPSS

55

10.4%

17.0%,

59.7%

35.2

179

가 6

28.4%,

18.6%



75.0%, 29.0%, 27.4%,  
2.7%, 1.7%,  
12.7%, 3.2%, 9 가  
17.6%, 29.9%, 21.9%,  
32.6%, ( ) 52.5%,  
24.3%, 9.7%, 1.3% .  
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' 62.1%, ' , ' 60.6%, ' .  
' 57.4%, ' ' 55.5%, ' ' 51.6% .  
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가 가 1 2 3 4 ' ,  
5 6 7 ' .  
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(p<0.005), 가 (p<0.005)  
가 가 .  
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가 ( $p < 0.05$ ).

, 32.7%,  
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, 15.9% 72.1%가

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가

(10.4%) 62.4%

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28(4) 920 928

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8. : \_\_\_\_\_

9. :

10. (가 가 ) :

② ③ ④  
⑤ ⑥ (3 ) ⑦ (20 )  
⑧ ⑨ (12 ) ⑩ \_\_\_\_\_

1. : NICU( :\_\_\_\_ )  
: \_\_\_\_\_ ④ : \_\_\_\_\_

2. ( )

3. ( ) ? \_\_\_\_\_

4. :

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	<del></del>		
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5.

(1) : \_\_\_\_\_ gm

(2) (sucking) : ① ② ③ ④

(3) : ( + )

(4) : \_\_\_\_\_

(5) : \_\_\_\_\_

(6)

			① ②	① ② ③ ④		
BCG			① ②	① ② ③ ④		/
	1		① ②	① ② ③ ④		/
	2		① ②	① ② ③ ④		/
	3		① ②	① ② ③ ④		/
DPT	1		① ②	① ② ③ ④		/
	2		① ②	① ② ③ ④		/
	3		① ②	① ② ③ ④		/
			① ②	① ② ③ ④		/
			① ②	① ② ③ ④		/
			① ②	① ② ③ ④		/
			① ②	① ② ③ ④		/

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1. : \_\_\_\_

2. :

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4. :

5. :

6. : ① ② ③ . 가

④ ⑤ ⑥ ⑦

7. ( )

① ② ③ ④ ⑤

⑥ ( ) ⑦ ⑧ ⑨

⑩ ( , , )\_\_\_\_\_

8. : ① 가 ② ③ ④ ⑤ ⑥

9. : ① 2 ② 3 4 ④ 6 ⑤ 8 ⑥ 8

10. : ① ② ③ ④

11. 가 : ① ② ③ ④ ⑤

12. 가 ? :  
⑤ ⑥ ⑦ ⑧ ( ) \_\_\_\_\_

1.

(1) : \_\_\_\_\_ ( , )  
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(2) ( ) : : \_\_\_\_\_ /

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(5)

가 가

2.

(1) ( ) : ( ) /

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③ ( ) ④ ⑤ ⑥

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5-1) 1 2-3 1

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①                      ② ,                      ③  
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3. 가 , ?

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## **ABSTRACT**

### **Survey for Health care Needs of premature baby at home**

Sun Ok Kim

Graduate School of

Health Science and Management

Yonsei University

(Directed by professor Eui Sook Kim, Ph.D.)

The purpose of this study is to obtain data to develop an effective management and health care program for premature babies by identifying health and social characteristics and health care service needs of premature babies and their mothers.

The subjects of this study were babies born between January 1 and September 30, 2000 whose weights at birth were less than 2,500 grams or who were prematurely born prior to 37th week of gestation. The data was gathered from 534 subjects out of 726 babies who were randomly selected from 242 public health centers(3 samples from each health center) located nationwide.

The instrument used to measure the health care services needs of premature babies was questionnaire presented to the mothers of premature babies. The questionnaires were completed in accordance with face-to-face

interviews conducted by health center workers. The collected data was analyzed by employing SPSS statistical program. The result of the study is as follows:

First, among the premature babies, 55 babies(10.4%) were afflicted by congenital abnormality. Some 17% of the mothers had twins or more and abnormal delivery accounted for 59.7%.

Second, regarding health and medical management of premature babies and their mothers, the average period of hospitalization was 35.2 days; the average medical cost(charged to patients) was 1,790,000 won; the proportion those who made of the cases 6 or more outpatient hospital visits was 28.4%; the proportion of premature babies with sickness or symptoms of disorder was 18.6%; some 75% of the mothers had a experience of with normal parturation; those with experience of miscarriage were 29.0%; those with a experiences of premature baby accounted for 27.4%; experiences with neonatal death were 2.7%; experiences with congenitally abnormal babies were 1.7%; the mothers who had experienced illness prior to pregnancy were 12.7%; the percentage of initial hospital visit made on after 9th week of gestation was 17.6%.

Regarding the abnormal symptoms during pregnancy, cases of edema and virginal bleeding accounted for 29.9% and 21.9% respectively, cases of complication during pregnancy were 32.6%, the medicated during pregnancy were 52.5%, 24.3% had a experience of being in critical condition during pregnancy. Cases of drinking during pregnancy accounted for 9.7%, and cases of smoking during pregnancy were 1.3%.

Third, the most difficult of the premature care at the time of birth and

during hospitalization was psychological and financial burden of the family, and infant care was the most burdensome problem at the time of hospital discharge. All mothers were concerned as to whether the babies would have normal development physically and mentally.

Fourth, among the health care service needs of premature babies, the most frequently needs were ; weaning method(62,1%), complication from vaccination, contraindication and caution(60.6%), prevention from asphyxia/sudden infant death syndrome(57.4%), financial support of medical expenses for premature babies(55.5%), consultation request for stress from premature care(51.6%).

Based on mothers living in region, what was needed most for metropolitan mothers was weaning method, small and medium sized cities called for ways to prevent complication from vaccination, contraindication and caution, and rural community mothers were in need of nutritional supplies for their premature babies. Based on the age of infants, they want to prevent complication from vaccination in case of 1-2 months and 3-4 months and to learn weaning method in case of 5-6 months and more over.

Fifth, based on the comparison of characteristics of premature babies and their mothers between the group with high level of needs in health care(upper 75% and higher) and low level of needs in health care(lower 25% and lower), for the group with high level of needs in health care, the average weight of babies at birth was low( $p<0.005$ ), gestation period was short( $p<0.005$ ), financial condition was low( $p<0.005$ ), and the group with poor postpartum health condition of the mothers( $p<0.005$ ) showed high level of needs for health care. There were significant statistical differences across these findings.

The top five needs were learning weaning method, complication prevention from vaccination/ contraindication, prevention from asphyxia/ sudden infant death syndrome, financial support, and consultation for stress from premature care. This particular part of the research is devoted to find out characteristic differences of premature babies and their mothers between "request group" and "no-request group" on the basis of the five needs mentioned. For the need of prevention from asphyxia/sudden infant death syndrome, the proportion of no-request group was high in the group with good postpartum health condition of the mothers. For the request for financial support for premature babies, the proportion of request group was high( $p<0.005$ ) in the group with low weight at birth, short gestation period( $p<0.005$ ), congenital abnormality( $p<0.05$ ), and low financial status. For the request for consultation for stress from infant care, the proportion of request group was high in the cases of mothers with newly born babies(less than 3 months), cases of readmission to hospital and of current illness. Significant statistical differences were shown( $p<0.05$ ).

Considering the results of this study, Local Health Centers(LHC) should build a cooperative system with community hospitals, medical specialists because premature babies are high risk groups who need special management care. LHC should provide special services to them when they discharge from hospitals. LHC also should develop a comprehensive protocol about various services considering the characteristics of premature babies and their mothers. It should be based on the mothers needs and health condition of premature babies.