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1) . 1) . 1) . 1) . Hesook Suzie , Kim 2)
3) . 4) . 4) . 5) . 5)

1. '가
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 가 , 가
 가 (Lee et al., 2001), 가
 가 , 가 가
 가 , 5 , 21
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 가 4 가 , ,
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 가 , (counterstanding),
 , 가 가
 가 가 , , ,
 (Walsh, 1998).
 가 (Lee et al., 1999)

* 1999 (KRF-99-042-F00161) “ 가 가 가

1) 2) Rhode Island 3)
 4) 2001 10 22 5) 2002 3 18 2002 6 10

가 . , 가 가 231 .
 가 (Lee et al., 2001) 가 2001 8 6 9 3 1 , 가
 . , 가 .

CHIP 3.
 (Coping Health Inventory for Parents) 가
 CHIP 가 , , , , 5
 가 37 , 4 likert type
 가 .

Lee (2001) 가 . ,
 가 가 4.
 21 , windows SPSS program
 (Version 10.0)
 Chronbach's alpha item total correlation
 Varimax
 (principal component analysis)

가 가 .

3. 1.
 .가 36 (±6.78) ,
 가 5 가 81% (187) , 가 15.6% (36) ,
 , 21) ,
 (Lee et al., 2001), 91% (210) .
 . 29.0% (67) , 27.3% (63) , 24.2%
 (56) . 가 147-217
 . 26.4% (61) , 111-146
 18.2% (42) , 가 , 가
 1. 가
 가 가) 가 2 가 52.4% (121) 가 3 가 20.8% (48)
 , 가 4.19 (±
 1.08) .

2. 61.5% (142) , 37.7% (87)
 6.40 (±4.47) ,
 22.9% (53) 가 , 20.3% (47) ,
 , , 4.2% (10)

(corrected item to total correlation coefficient)가
 .30 <Table 1>

2. 가

가 .30
 가

가
 alpha

1)

(Lee et al., 1998)

<Table 1> Corrected item in the concept of family resilience - total correlation(1)

Item	Item Content	corrected item total correlation	alpha if item deleted
q1	My family give up many things since the child has got the disease(things for myself, promotion at the work, etc) (가 가 (,))	.1342	.7579
q2	My family try to take care of one another since the child has got the disease. (가 가)	.3906	.7481
q3	My family try to deal with the sick child regardless of the disease. (가)	.2751	.7514
q4	I encourage the sick child to study by himself(/herself) for his/her dream (가)	.1917	.7544
q5	I hardly care for other family members since the child has got the disease (가 가)	.2613	.7513
q6	I feel guilty about the child' sickness (가)	.1927	.7548
q7	I have not had the feeling as a whole family than before due to the decreased time to be together since the child has got the disease. (가 가 가)	.0462	.7611
q8	My family make an effort to spend time together than before since the child has got the disease. (가 가)	.4900	.7414
q9	My family seems to be cohesive since the child has got the disease. (가 가)	.5671	.7393
q10	My family take patience with anything for the sick child. (가)	.4966	.7417
q11	My family don't want to look ahead about the prospective prognosis of the child (가)	.0106	.7668
q12	My family believe in the cure of the child. (가 가)	.2584	.7518
q13	One of my family members takes the lead in everything since the child has got the disease. (가 가 가)	.2128	.7539
q14	My family try to solve the financial problem without asking for other's help. (가 (, ,))	.2929	.7496
q15	I ask for the social support to collect money for treatment (TV , , 가)	.1900	.7554
q16	when I talked with other parents in the similar circumstances, I learn many things from their experiences. ()	.2453	.7521
q17	I collect information related to the care in the book or via internet suffing. ()	.3987	.7444
q18	I was shocked when the child first had diagnosed, but I tried to control myself for the care of the child. ()	.5137	.7432
q19	My husband helps to do the house affairs than before since the child has got the disease. (가)	.4514	.7422
q20	My family have come to manage their affairs for theirselves since the child has got the disease. (가 가)	.4713	.7441

<Table 1> Corrected item in the concept of family resilience - total correlation(2)

Item	Item Content	corrected item total correlation	alpha if item deleted
q21	Everyday life of my family get changed for the child's care (가 , ,))	.3773	.7451
q22	My family strive to help one other with a full understanding about the sick child's conditions (가)	.5138	.7437
q23	My family try to show a cheerful face in front of the sick child. (가)	.5055	.7414
q24	My couple try to have a conversation with each other since the child has got the disease. (가)	.4948	.7426
q25	I sometimes don't have a talk with my husband/wife to avoid quarrel, though I want to. ()	-.3373	.7811
q26	My family try to get rid of distress respectively. (가)	.3484	.7475
q27	My family try to get rid of distress all together as a whole (가)	.3837	.7457
q28	I live a religious life sincerely, and depend on it.	.1225	.7613
q29	I have come to comprehend other's unfavorable conditions since the child has got the disease. (가)	.4106	.7476
q30	I try to have a good relationship with medical team though I am dissatisfied with them.. ()	.3253	.7500
q31	I search for other ways related to treatment, for I don't think the hospital care is the only way. for treatment. ()	.0522	.7630
q32	I talk with medical team over the sick child's health. ()	.2420	.7527
q33	I become dependent on the child's old home since the child has got the disease 가 가 가	.1804	.7557
q34	I become dependent on the child's maternal family since the child has got the disease 가 가 가	.3023	.7491
q35	Sometimes I feel comfortable with unrelated persons than my relatives or siblings 가 가	.1046	.7594
q36	I hate meeting other people for the asking the child's conditions.	-.1689	.7730
q37	I disguise my feeling intentionally in the face of others, for I don't want to gain their sympathy.	.0912	.7604

37 19 6.6%, 5 5.7% 5
56.4% <Table 3 >.

2)
(1) ±0.3 (Kang et al., 1993)
.30
<Table 2 >.

(principal component analysis) (2)
가 1.0 5 가 가 가
.5 1
28.5%, 2 8.7%, 3 7.0%, 4 가 (Waltz &

<Table 2> Factor Analysis

Item	Item Content of Each Factor	Factor				
		Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
q2	My family try to take care of one another since the child has got the disease.	.528				
q8	My family make an effort to spend time together than before since the child has got the disease.	.669				
q9	My family have come to be cohesive since the child has got the disease.	.723				
q10	My family take patience with anything for the sick child.	.611				
q18	I was shocked when the child first had diagnosed, but I tried to control myself for the care of the child.	.601				
q19	My husband helps to do the house affairs than before since the child has got the disease.	.642				
q20	My family have come to manage their affairs well for theirselves since the child has got the disease.	.599				
q22	My family strive to help one other with a full understanding about the sick child's conditions	.671				
q23	My family try to show a cheerful face in front of the sick child.	.622				
q24	My couple try to have a conversation with each other since the child has got the disease.	.686				
q26	My family try to get rid of distress respectively.		-.444			
q27	My family try to get rid of distress all together as a whole.		-.556			
q29	I'm not a believer, but I have come to pray to God.		.456			
q30	I have come to comprehend other's unfavorable conditions since the child has got the disease.		.569			
q17	I collect information related to the care in the book or via internet surfing.			.321		
q34	My family become dependent on the child's old home since the child has got the disease.			.552		
q21	Everyday life of my family get changed for the child's care				-.534	
q25	I sometimes don't have a talk with my husband/wife to avoid quarrel, though I want to.				.699	
q14	My family try to get the financial support.					-.334

<Table 3> Eigen Value, Percent of the total variance explained, Cumulative Percent of factor

Factor	Eigen Value	Percent of the total variance explained	Cumulative Percent
Family strength	5.405	28.449	28.449
Family maturity	1.645	8.660	37.109
The ability to use of external resources	1.328	6.988	44.097
Control	1.261	6.635	50.731
The driving force for finance	1.084	5.705	56.437

Bausell, 1981). 가 1 가 . 2
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<Table 4> Correlation with factor (N = 231)

Factor	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
Family strength	1.000	.508** (p = .000)	.318** (p = .000)	.167* (p = .011)	.267** (p = .000)
Family maturity		1.000	.416** (p = .000)	-.015 (p = .818)	.239** (p = .000)
The ability to use of external resources			1.000	.094 (p = .154)	.074 (p = .265)
Control				1.000	.095 (p = .148)
The driving force for finance					1.000

<Table 5> Each Factor' s Reliability

Factor	Guttman Reliability Coefficient	Alpha coefficient
Family strength	.7663	.8515
Family maturity	.5644	.5475
The ability to use of external resources	.2392	.2392
Control	-.4484	-.8969
The driving force for finance	N.A.	N.A.
Total	.8184	.8039

* N.A. : not available

가 가 , 가 가
 5 가 가 (1999)
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(Antonovosky, 1998).

가 가 2 가 가

가 가

가 가 가 (Walsh, 1998), (Werner & Smith, 1992)

가 (Walsh, 1998). 가 가 . Woodgate(1999)

가 가

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References

Antonovsky, A. (1998). *Stress, Coping, and Health in Families*. California: Sage Publications, Inc.

Antonovsky, A., & Sourani, T. (1988). Family sense of coherence and family adaptation. *Journal of Marriage and the Family*, 50, 79-92.

Kang, B. S., Serk, K. S., & Oh, Y. J. (1993). *SPSS/PC + for statistical analysis*. Seoul: Trade Management Press.

Lee, E. O., Kim, H. S., Park, Y. S., Song, M. S., Lee, I. S., & Park, Y. H. (1999). Model development of change of family functioning with chronic illness. *J Korean Acad Nurs*, 29(3), 467-484.

Lee, I. S., Park, Y. S., Song, M. S., Lee, E. O., Kim, H. S., Park, Y. H., Choi, K. W., Chin, Y. R., Kim, D. H., & Lee, H. S. (2001). The Concept analysis of family resilience, expected publishing.

Lee, E. O., Lim, N. Y., & Park, H. A. (1998). *Statistical analysis and nursing medical research*. Seoul: Soomoon Publishing Company.

McCubbin H. I., & Patterson J. M. (1981). Broadening the scope of family strength: An emphasis on family coping and social support. In: Stinnett N., Chesser B., & DeFrain J. eds. *Family strengths III: Roots of well-being*. University of Nebraska Press

Patterson, J. M. (1995) Promoting resilience in families experiencing stress. *Pediatric Clinics of North America*, 42(1), 47-63.

Silliman, B. (1994) Rationale for resilient families concept paper. National Network for Family Resiliency.

Stinnett, N., Chesser B., & DeFrain, J. (1979). *Building family strengths: Blueprints for action*. Lincoln: University of Nebraska Press.

Walsh, F. (1998). *Strengthening Family Resilience*. New York: Guilford Press.

Waltz, C. F., & Bausell, R. B. (1981). *Nursing research design statistics and computer analysis*. F. A. Davis company philadelphia.

Werner, E. E., & Smith, R. S. (1992). *Overcoming the odds: High risk children from birth to adulthood*. Ithaca, NY:

Cornell University Press.

Woodgate, R. L. (1999). A Review of the Literature of Resilience in the Adolescent with Cancer: Part . *J Pediatr Oncol Nurs*, 16(2), 78-89.

Yu, D. K., & Kwon, Y. S. (1997). *SPSSWIN for statistical analysis*. Seoul: Keehanjae.

- Abstract -

A Study on the Development of the Korean Family Resilience Scale

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Purpose: The purpose of this study was to develop an instrument to measure family resilience for Korean families with a chronically ill child, and to test the validity and reliability of the instrument.

Method: The items of instruments used based on the researchers' previous study of concept analysis of Korean family resilience. Nineteen item scales were developed with five domains. In order to test reliability and validity of the scale, data were collected from 231

families, who had a child with a chronic illness. Data was collected between August and September of 2001 in a 3rd level University Hospital in Seoul, Korea.

Result: The results were as follows:

As a result of the item analysis, 19 items were selected from the total of 37 items, excluding items with low correlation with the total scale. Five factors were evolved by factor analysis, which explained 56.4% of the total variance. The first factor 'Family strength' explained 28.5%, 2nd factor 'Family maturity' 8.7%, 3rd factor 'The ability to use of external resources' 7.0%, 4th factor 'Control' 6.6%, 5th factor 'The driving force for finance' 5.7%. The attributes in these factors were different with those identified by concept analysis of the family resilience in Korean families from the previous study. Cronbach's coefficient of this scale was .8039 and Guttman split-half coefficient was .8184.

Conclusion: The study support the reliability and validity of the scale. Because the main concept of family resilience was family strength, there were distinct differences in dimensions of family functioning scales.

Key words : Family resilience, Instrument development

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