

한국형 청소년 자살사고 설문 개발*

DEVELOPMENT OF KOREAN ADOLESCENT FORM OF SUICIDAL IDEATION QUESTIONNAIRE

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연구목적 : 1 Reynolds
가 (SIQ - JR) SIQ - JR

방 법 : 1,160 , 114
SIQ - JR , 8가 (, , , , , ,)
가)

결 과 : SIQ - JR 가 , SIQ - JR
($p < 0.01$)
0.92 - 0.94, - 0.68 - 0.78, - 0.59 - 0.82
가 가
6 가
($r = 0.42$), ($r = 0.36$), ($r = 0.35$), ($r = 0.31$)
($r = 0.37$) 가

결 론 : 1
중심 단어 :

서 론

19.3% , 8.3%
, 2.6%
. Smith Crawford⁶⁾, Friedman
8.4%,
Corn⁷⁾
8.7%
1)2),
3),
4),
가
Kann⁵⁾ 40 3 가 , 9~12 8~9%

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(self reporting) 가

29.6%(7.3%), 25.6%, 5.3%(8), 33.7%, 3.3%, 가

14),

Beck¹⁵⁾ Scale for Suicidal Ideation Reynolds¹⁶⁾ Suicidal Ideation Questionnaire (SIQ) 가

1

SIQ 30

15 가

15 Sui-

cidal Ideation Questionnaire - Junior (SIQ - JR) 가

1 (screening test)

9),

가

10)11), Carlson Cantwell¹²⁾ 가

42%

34%가

Reynolds 가

(SIQ - JR)

SIQ - JR

연구방법

1. 연구대상

()

13),

1,268

가

가

가

(structured/semistructured in-

terview schedule), 가

288 , 324 , 268 , 280 ,

44 가
4

102 4 가 1) 2) 3)
4) 5) 28)

(psychosis) 114 34

114 1 : 1

2. 연구도구
Reynolds (SIQ - JR) 가 (CBCL)
30) 가

8가 CBCL 15

1) 자살사고설문(Suicidal Ideation Questionnaire ; SIQ)¹⁶⁾
SIQ Spielberg³¹⁾
가
(first screening stage) 20 1~
¹⁹⁾ SIQ 3 20~60
(sensitivity) 32)

(specificity)가 (discriminant validity)가 20
¹⁶⁾¹⁹⁾²⁰⁾ 10

SIQ Diagnostic Interview Schedule for Children
²¹⁾
^{20)22 - 26)}

SIQ 가 가 가
가 가 가
SIQ SIQ - JR
15

가
0 () 6 ()
7 가 0 90
()
38)

2) 청소년 상태-특성 분노표현척도(State-trait anger expression inventory)
Spielberger²⁷⁾ 12~18

3) 아동행동평가척도의 공격성 소척도(Aggression subscale of child behavior check list)
Achenbach²⁹⁾ 가 (CBCL)
30) 가

4) 소아용 상태 특성불안척도(State-trait anxiety inventory for children)
Spielberger³¹⁾
20 1~
3 20~60
32)

5) 소아절망감 척도(Hopelessness scale for children)
Kazdin³³⁾ 가 가
0 1 7 가
17
34)

6) 내외 통제 척도(Locus of control)
Rotter³⁵⁾ (attribution) 가
가 가
6 21
36)

7) 소아우울척도(Children's depression inventory)
Kovacs³⁷⁾ 가 7 17
2 가
0 2 27
38)

8) 소아 자아평가척도(Self-perception profile for children)
Harter³⁹⁾가 36 4 가

1) 2) 3) 4)
5) 6) 6

(13.05 ± 11.64)가 (12.56 ± 14.41)
(13.16 ± 14.08) (12.46 ± 12.27)

(Table 1).

ANOVA

9) 충동성 척도(Barratt's impulsiveness scale)

Barratt⁴⁰⁾ 23 가
(unplanned) 9 ,
8 , 6
0 , 가 1 , 3 ,
4 가
가 . 41)

4
(15.04 ±
(14.89 ± 12.94)
(F=10.52,
p<0.001)(Table 1).
가 가 , 가

3. 청소년 자살사고척도(SIQ)의 문항변안

2
30 가

2. 신뢰도 측정

SIQ - JR (Cron-
bach's alpha) , 0.92~0.94
(Table 2).
4 , 1 102
- , 0.68~0.78
- 가 (p<0.01)(Table 2).
Pearson

4. 통계분석

SIQ - JR
(ANOVA)
Cronbach's
alpha
Pearson
(test - re-
Pear-
son
SIQ - JR
(principal component analysis)
Eigen value 1
varimax
SIQ - JR Pearson
t - test
(discriminant validity)

Table 1. Suicidal ideation questionnaire-junior(SIQ-JR) total score by age and sex

	SIQ-JR scores	t	F	p
Male	12.56 ± 14.41 (n= 612)	-0.639		0.523
Female	13.05 ± 11.64 (n= 548)			
High school	13.16 ± 14.08 (n= 556)	0.906		0.365
Middle school	12.46 ± 12.27 (n= 604)			
Male high school	15.04 ± 16.96 (n= 288)			10.520 0.000*
Female high school	11.13 ± 9.75 (n= 268)			
Male middle school	10.36 ± 11.26 (n= 324)			
Female middle school	14.89 ± 12.94 (n= 280)			
Total	12.79 ± 13.17 (n=1160)			

* : p<0.01
SIQ-JR : Suicidal ideation questionnaire-junior

Table 2. Test-retest reliability and internal consistency of SIQ-JR

	Subjects	Test-retest reliability	Internal consistency (Cronbach's alpha)
Education	Middle-school	0.78*	0.92
	High-school	0.68*	0.94
Sex	Male	0.72*	0.94
	Female	0.74*	0.92
Total		0.73*	0.93

* : p<0.01
SIQ-JR : Suicidal ideation questionnaire-junior

1. 일반 청소년들의 성별, 연령별 자살사고 총점 비교

12.79 ± 13.17

연구 결과

0.59 - 0.82

(Table 3).

3. 타당도 측정

1) 요인분석

Eigen value 1

. 1 9
 , 11 , 2 , 13 , 12 , 3 , 14 , 15 , 4
 . 2 4

Table 3. Item-total correlation of SIQ-JR

Item No	Item-total correlation (middle school)	Item-total correlation (high school)	Total
1	0.78*	0.85*	0.82*
2	0.77*	0.83*	0.81*
3	0.79*	0.74*	0.76*
4	0.75*	0.81*	0.78*
5	0.60*	0.60*	0.59*
6	0.65*	0.69*	0.67*
7	0.75*	0.70*	0.72*
8	0.72*	0.70*	0.71*
9	0.61*	0.69*	0.66*
10	0.75*	0.72*	0.73*
11	0.79*	0.84*	0.81*
12	0.59*	0.74*	0.67*
13	0.71*	0.80*	0.76*
14	0.73*	0.67*	0.69*
15	0.66*	0.71*	0.69*

* : p<0.01

SIQ-JR : Suicidal ideation questionnaire-junior

Table 4. Factor analysis of SIQ-JR items by varimax rotation

Item No	Factor 1	Factor 2	Factor 3
1. Better if not alive	0.781		
11. Wished were dead	0.767		
2. Thought of killing self	0.761		
13. Others happier if gone	0.735		
12. Would solve problems	0.728		
3. Thought of method	0.724		
14. Wished never been born	0.689		
15. No one cared if alive	0.657		
4. Thought of time	0.633		
8. Writing will		0.846	
7. Writing suicide note		0.839	
9. Telling people		0.651	
10. How others would feel		0.529	
5. Thought of people dying			0.863
6. Thought of death			0.786

SIQ-JR : Suicidal Ideation Questionnaire-Junior

. 8 , 7 , 9 , 10

. 3 2

5 6

(Table 4).

2) 공존 타당도

8 SIQ - JR

가

6

(p<0.01)가

가

(r=0.42),

(r=0.36),

(r=0.35),

(r=0.31)

(Table 5).

(r=0.37)

(r=0.36) ,

(r=0.51)

(r=0.47)

가

(r=0.52)

(r=0.51),

(r=0.38)

(r=0.34)

가

Table 5. Correlation of SIQ-JR scores with relating 8 scales scores

	SIQ-JR				
	Male	Female	Middle-school	High-school	Total
Trait-anger ¹⁾	0.081	0.407**	0.353**	0.117	0.230**
Anger-in ¹⁾	0.281**	0.346**	0.330**	0.284**	0.307**
Anger-out ¹⁾	0.224*	0.372**	0.302**	0.270**	0.286**
Anger-control ¹⁾	-0.038	-0.137	-0.136	-0.037	-0.080
Anger-express ¹⁾	0.171*	0.290**	0.164*	0.254**	0.211**
Hopelessness ²⁾	0.009	0.082	0.177*	0.121	0.026
Aggression ³⁾	0.366**	0.350**	0.362**	0.377**	0.359**
Trait anxiety ⁴⁾	0.254**	0.470**	0.517**	0.291**	0.345**
Locus of control ⁵⁾	0.189*	0.216*	0.344**	0.071	0.198**
Depression ⁶⁾	0.361**	0.507**	0.506**	0.343**	0.421**
Impulsiveness ⁷⁾	0.031	0.134	0.184*	0.082	0.040
Self-concept ⁸⁾	-0.175*	-0.285**	-0.277**	-0.155	-0.220**

* : p<0.05

** : p<0.01

SIQ-JR : Suicidal ideation questionnaire-junior, 1) : measured by spielberger's state trait anger expression inventory, 2) : measured by Kazdin's hopelessness scale for children, 3) : measured by Achenbach's aggression subscale of child behavior check list, 4) : measured by Spielberger's state-trait anxiety inventory for children, 5) : measured by Rotter's internal-external control scale, 6) : measured by Kovacs' children's depression inventory, 7) : measured by Barratt's impulsivity scale, 8) : measured by Harter's self-perception profile for children

Table 6. Comparison of SIQ-JR scores and relating 8 scales scores between normal group and clinical group

	Normal group (N=114)	Clinical group (N=114)	t
SIQ-JR	12.79 ± 13.19	21.07 ± 19.37	- 2.80**
Trait anger ¹⁾	20.01 ± 5.03	21.5 ± 6.94	- 1.44
Anger in ¹⁾	15.96 ± 3.41	17.07 ± 3.94	- 2.00*
Anger out ¹⁾	13.98 ± 3.23	14.87 ± 3.56	- 1.72
Anger control ¹⁾	19.43 ± 5.89	19.03 ± 5.13	0.48
Anger express ¹⁾	49.22 ± 7.20	51.37 ± 7.88	- 1.85
Hopelessness ²⁾	3.70 ± 3.11	5.76 ± 4.85	- 2.80**
Aggression ³⁾	7.29 ± 4.40	7.93 ± 5.86	- 0.72
Trait anxiety ⁴⁾	34.29 ± 7.52	40.43 ± 8.07	- 5.10**
Locus of control ⁵⁾	4.69 ± 2.77	5.48 ± 2.80	- 1.79
Depression ⁶⁾	15.21 ± 6.91	19.59 ± 7.81	- 3.91**
Impulsiveness ⁷⁾	29.99 ± 9.53	33.91 ± 10.44	- 2.56*
Self-concept ⁸⁾	87.08 ± 11.72	81.83 ± 11.28	2.83**

* : p<0.05

** : p<0.01

SIQ-JR : Suicidal ideation questionnaire-junior, 1) : measured by Spielberger's state trait anger expression inventory, 2) : measured by Kazdin's hopelessness scale for children, 3) : measured by Achenbach's aggression subscale of child behavior check list, 4) : measured by Spielberger's state-trait anxiety inventory for children, 5) : measured by Rotter's internal-external control scale, 6) : measured by Kovacs' children's depression inventory, 7) : measured by Barratt's impulsivity scale, 8) : measured by Harter's self-perception profile for children

(Table 5).

(p<0.05)가

3) 변별 타당도

114
(12.79 ± 13.19)
(21.07 ± 19.37)

(t= - 2.80, p<0.01)(Table 6).

고 찰

가

가

(help seeking)
가
Reynolds¹⁶⁾
SIQ (SIQ - JR) 가 SIQ 30 (SIQ) 15
SIQ - JR
SIQ - JR SIQ
가
SIQ - JR
(screening tool)
SIQ - JR
Cronbach's alpha
0.92~0.94
0.59~0.82
SIO - JR
가 0.68~0.78
Cronbach's alpha 0.93~0.94,
0.70~0.90
가
SIQ -
가
1
2
3
Reynolds¹⁶⁾ 1
2
3
1
2
가

가 Reynolds 16)

가

12.79

11.52⁴²⁾ 가

가 (12.56 ; 13.05)

가 Reynolds 16)

10.94 ; 13.70)

Reynolds 31 , 가

(cut off point) 9%,

13%가 31

9.2%, 8.0%

가 가 47)48)

가 가 가 가 49)50)

가 가 SIQ - JR

가 가 가 가

43)44) . Wichstrom⁴⁵⁾ 가 , 가 가

가 . SIQ - JR 31

가 SIQ - JR 가

1 : 1 , 가

(12.79 ; 23

21.07) 16)

SIQ - JR 8가 (,

가)

가

6

가 가 Reynolds 16)

가 Reynolds 가

(SIQ - JR)

SIQ - JR

1,160 ,

114

SIQ - JR , 8가

가) SIQ - JR 12.79 ± (13.05 ± 11.64)가 (12.56 ± 14.41) (13.16 ± 14.08) (12.46 ± 12.27)

21.07 ± 19.37 (p<0.01)

SIQ - JR

0.92~0.94, 0.68~0.78, 0.59~0.82

가

가

6

가 (r=0.42), (r=0.36), (r=0.35), (r=0.31) 가 (r=0.37) 가

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ABSTRACT

Korean J Child & Adol Psychiatr 15 : 168-177, 2004

DEVELOPMENT OF KOREAN ADOLESCENT FORM OF SUICIDAL IDEATION QUESTIONNAIRE

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Objectives : This study was done to develop Korean form of Reynolds' SIQ-JR (Suicidal Ideational Questionnaire-Junior). Through this study we evaluated reliability and validity of Korean form SIQ-JR.

Methods : Subjects were 1,160 middle and high school students and 114 adolescent psychiatric patients. SIQ-JR and 8 self-reporting scales highly related with suicidal ideation and suicide behaviors were applied to them.

Results : In reliability aspect of Korean form of SIQ-JR, internal consistency, test-retest reliability and item-total correlation were statistically significant results. In factor analysis, concerning about other person was extracted as a independent factor. This results reflect our cultural characteristics. There were statistical differences of SIQ-JR scores in groups by sex and age. Clinical group showed significantly ($p < 0.01$) higher scores than general population. Among the 8 suicidal relating scales, depression ($r = 0.42$), aggression ($r = 0.36$), trait-anxiety ($r = 0.35$), and anger-in ($r = 0.31$) were highly related with suicidal ideation but impulsivity and hopelessness were not significantly related with suicidal ideation.

Conclusion : Korean form of SIQ-JR was useful instrument in reliability and validity. We hope that this instrument widely used in school mental health, community psychiatry and clinical setting for screening tool.

KEY WORDS : Suicidal ideation questionnaire · Adolescent · Reliability · Validity.

□ 부 록 □

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지난 한달	?	1		1		1		2-3	
		1	1	2-3	1	1	1	2-3	
1. " "	.	0	1	2	3	4	5	6	
2. " "	.	0	1	2	3	4	5	6	
3. " 가?"	.	0	1	2	3	4	5	6	
4. " 가?"	.	0	1	2	3	4	5	6	
5. " 가 "	.	0	1	2	3	4	5	6	
6.	.	0	1	2	3	4	5	6	
7. " ?"	.	0	1	2	3	4	5	6	
8.	.	0	1	2	3	4	5	6	
9. " ?"	.	0	1	2	3	4	5	6	
10. " 가 ?"	.	0	1	2	3	4	5	6	
11. " "	.	0	1	2	3	4	5	6	
12. " "	.	0	1	2	3	4	5	6	
13. " 가 "	.	0	1	2	3	4	5	6	
14. " "	.	0	1	2	3	4	5	6	
15. " 가 "	.	0	1	2	3	4	5	6	