Using the 11-item	Version of the	RCADS to Iden	tify Anxiety and	d Depressive	Disorders in
Adolescents					

Journal of Abnormal Child Psychology

Electronic Supplementary Material 3: Examining the functioning of items assessing risk of suicide/self-harm and symptom impact and duration.

Adolescent-report

a) Rank-ordered item-discrimination indices for the suicidal ideation items

		Item-depression diagnosis correlation					
Item name	Item	Total	Controlled for Gender	Controlled for age			
MFQ19_T	I thought about killing myself.	.39*	.39*	.40*			
MFQ16_T	I thought that life wasn't worth living.	.36*	.35*	.35*			
MFQ17_T	I thought about death or dying.	.32*	.32*	.33*			
MFQ18_T	I thought my family would be better off without me.	.18*	.17*	.21*			

Note. MFQ-P16-19_T = transformed MFQ items, *p < .01.

b) ROC curve analyses for 5 RCADS depression items with different combinations of suicidal ideation items

	Т	otal		Boys		Girls		Older adolesce		Your adoles	
	AUC (total)	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec
5 Depression items	.87	8.5	.82/ .77	7.5	.88/	8.5	.82/ .71	8.5	.79/ .70	8.5	.90/ .80
5 Depression items + MFQ 19_T, MFQ 16 T, MFQ 17 T	.88	11.25	.83/ .76	10.3	.92/ .82	11.25	.83/ .72	11.75	.80/ .78	11.25	.82/ .78
5 Depression items + MFQ 19_T, MFQ 16 T	.89	10.75	.80/ .79	10.25	.92/ .86	10.25	.83/ .73	10.75	.80/ .77	10.75	.82/ .81
5 Depression items + MFQ 19_T	.89	9.25	.83/ .79	8.8	.92/ .85	9.25	.83/ .76	9.25	.80/ .78	9.25	.91/ .80

Note. Sens/Spec = Sensitivity/Specificity. MFQ-P16-19_T = transformed MFQ-C items.

c) Summary of binary logistic regression for 5 RCADS depression items with and without suicidal ideation item

Model	b (SE)	Wald z- value	OR (95% CI)	McFadden's R^2	Model fit change (χ^2)
Model 1					
Constant	-5.73 (.58)	-9.83*		.34	143.81**
RCADS 5 depression items - A	.51 (.06)	8.55*	1.66		
Model 2					
Constant	-5.98 (.77)	-7.81*		.41	6.23 ($p = .013$)
RCADS 5 depression items - A	.45 (.08)	5.55*	1.56 [1.35-1.85]		- ′
MFQ19_T	.45 (.18)	2.50 ($p = .012$)	1.56 [1.10 - 2.23]		

Note. MFQ-19_T = transformed MFQ-C item, A = adolescent-report, *p < .01.

d) Rank-ordered item-discrimination indices for the symptom impact and duration items

		Item-any anxiety/depressive disorder diagnosis correlation				
Item name	Item	Total	Controlled for Gender	Controlled for age		
Impact - Family and Friends ^a	How much of an impact do these difficulties have on your family and friends?	.53*	.51*	.52*		
Impact – Distress	How much do these difficulties upset or distress you?	.52*	.49*	.52*		
Impact – School	How much do these difficulties get in the way of your everyday life in these areas (School)	.52*	.50*	.50*		
Impact - Outside the school	How much do these difficulties get in the way of your everyday life in these areas (Outside the school)	.44*	.42*	.42*		
Impact – Friends	How much do these difficulties get in the way of your everyday life in these areas (Friends)	.40*	.37*	.38*		
Impact -Time	How long have you had these difficulties for?	.34*	.31*	.30*		
Impact – Home	How much do these difficulties get in the way of your everyday life in these areas (Home)	.30*	.27*	.30*		

Note. altern with a high (>10%) proportion of missing responses, *p < .01.

e) ROC curve analyses for 11 RCADS items with different combinations of symptom impact and duration items

	Total			Boy	S	Girls	5	Olde adolesc		Younger adolescents	
	AUC	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/
	(total)	off	Spec	off	Spec	off	Spec	off	Spec	off	Spec
RCADS 11-item			.80/		.84/		.72/		.80/		.78/
Total	.82	12.5	.71	8.5	.70	14.5	.68	14.5	.76	11.5	.66
RCADS 11-item											
Total + 5 Impact			.82/		.88/		.75/		.84/		.76/
items	.84	22.5	.74	18.0	.78	24.5	.70	24.5	.78	21.5	.73
RCADS 11-item											
Total + 4 Impact			.83/		.83/		.77/		.80/		.76/
items	.85	19.5	.73	16.5	.78	21.5	.71	22.5	.79	18.5	.70
RCADS 11-item											
Total + 3 Impact			.81/		.88/		.75/		.84/		.74/
items	.84	18.5	.73	14.5	.80	20.5	.70	20.5	.79	17.5	.71
RCADS 11-item											
Total + 2			.84/		.88/		.76/		.86/		.74/
Impact items	.84	16.5	.72	13.5	.78	18.5	.66	18.6	.74	16.5	.72
RCADS 11-item											
Total + 1 Impact			.83/		.89/		.72/		.79/		.73/
item	.83	14.5	.71	10.5	.71	17.5	.70	17.5	.79	14.5	.73

Note. Sens/Spec = Sensitivity/Specificity.

f) Summary of binary logistic regression for total scale with and without symptom impact items (adolescent-report)

(udorescent report)					
Model	b (SE)	Wald z-value	OR (95% CI)	McFadden's R^2	Model fit change (χ^2)
Model 1					
Constant	-2.44 (.28)	-8.81*		.28	142.47*
RCADS 11 item Total - A Model 2	.19 (.02)	10.02*	1.21 [1.64, 1.25]		
Constant	-3.97 (.44)	-9.00*		.41	26.59*

RCADS 11 item Total - A	.11 (.03)	4.37*	1.12 [1.07, 1.18]	
Impact items - A	.62 (.13)	4.90*	1.85 [1.46, 2.40]	

Note. A = adolescent-report, *p < .01.

Parent-report

a) Rank-ordered item-discrimination indices for the suicidal ideation items

		Item-depression diagnosis correlation				
Item name	Item	Total	Controlled for Gender	Controlled for age		
MFQ-P16_T	My child thought that life wasn't worth living	.33*	.33*	.33*		
MFQ-P17_T	My child thought about death or dying	.22*	.22*	.25*		
MFQ-P19_T	My child thought about killing himself/herself	.21*	.21*	.22*		
MFQ-P18_T	My child thought my family would be better off without him/her	0.05	0.04	0.08		

Note. MFQ-P16-19 T = transformed MFQ-P item, *p < .01.

b) ROC curve analyses for 5 RCADS items plus different combinations of suicidal ideation items

	Total]	Boys	Girls		Older adolescents		Younger adolescents		
	AUC (total)	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/ Spec	Cut- off	Sens/
	(total)	011		011		011		011		011	Spec
5 Depression items	.86	6.5	.84/ .75	5.5	.93/ .75	6.5	.85/ .72	6.5	.82/ .74	6.5	.90/ .76
5 Depression items	.87	6.75	.90/	6.5	.90/	6.75	.90/		.86/		.90/
$+ MFQ-P16_T^1$.07	0.73	.77	0.3	.84	0.73	.74	6.5	.76	7.25	.84
5 Depression items			.92/		.90/		.79/		.90/		.90/
+ MFQ-P19_T	.87	6.75	.76	6.5	.84	7.25	.78	6.5	.75	7.25	.82

Note. Sens/Spec = Sensitivity/Specificity, MFQ-P16-19_T = transformed MFQ-P item.

c) Summary of binary logistic regression for 5 RCADS depression items with and without suicidal ideation item

Model	b (SE)	Wald z- value (p-value)	OR (95% CI)	McFadden's R^2	Model fit change (χ^2)
Model 1					
Constant	-4.41 (.43)	-10.36*		.32	111.16*
RCADS 5 depression items - P	.43 (.05)	8.42*	1.66 [1.49, 1.89]		
Model 2					
Constant	-4.92 (.57)	-8.58*		.61	.451 $(p = .502)$
RCADS 5 depression items - P	.45 (.07)	6.43*	1.56 [1.38-1.81]		
MFQ-P19_T	.15 (.23)	.68 $(p = .497)$	1.17 [.73-1.81]		

Note. MFQ-P19 T = transformed MFQ-P item, P = parent-report, *p < .01.

 1 The ROC curve analyses confirmed that the optimal parent-report depression scale with MFQ-16 risk item was not significantly different (p = .93) from the parent-report depression scale that included the same MFQ-19 risk item as adolescent-report depression scale.

d) Rank-ordered item-discrimination indices for the 11 RCADS items plus symptom impact and duration items

		Item- an	xiety diagnosis o	correlation
Item name	Item	Total	Controlled	Controlled
			for Gender	for age
Impact-Distress	How much do these difficulties upset or distress your child?	.65*	.63*	.65*
Impact-Family	How much of an impact do these difficulties have on you or the family as a whole?	.60*	.58*	.61*
Impact-School	How much do these difficulties get in the way of your child's everyday life in these areas? (School)	.59*	.57*	.59*
Impact-Outside the school	How much do these difficulties get in the way of your child's everyday life in these areas? (Outside the school)	.58*	.56*	.58*
Impact-Home	How much do these difficulties get in the way of your child's everyday life in these areas? (Home)	.54*	.52*	.54*
Impact-Friends	How much do these difficulties get in the way of your child's everyday life in these areas? (Friends)	.49*	.46*	.49*
Impact-Time	How long has your child had these difficulties for?	.23*	.21*	.24*

Note. *p < .01.

e) ROC curve analyses for different combinations of symptom impact and duration items

	Total Boys			Girls			Older adolescents		Younger adolescents		
	AUC	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/	Cut-	Sens/
	(total)	off	Spec	off	Spec	off	Spec	off	Spec	off	Spec
RCADS 11- itemTotal	.88	10.5	.80/ .79	7.5	.96/ .80	11.5	.78/ .75	9.5	.84/ .77	10.5	.80/ .77
RCADS 11- itemTotal – matched to adolescent-report	.89	14.5	.82/ .80	12.5	.86/ .84	14.5	.87/ .74	14.5	.84/ .83	14.5	.80/ .79
RCADS 11- itemTotal + 6 Impact items	.90	20.5	.84/ .79	17.5	.82/ .82	22.5	.83/ .78	20.5	.84/ .80	20.5	.85/ .79
RCADS 11- itemTotal + 5 Impact items	.90	19.5	.82/ .80	15.5	.89/ .84	21.5	.81/ .80	18.5	.87/ .80	19.6	.81/ .79
RCADS 11- itemTotal + 4 Impact items	.90	18.5	.81/ .81	14.5	.86/ .84	19.5	.83/ .77	17.5	.87/ .80	18.5	.80/ .80
RCADS 11- itemTotal + 3 Impact item	.90	16.5	.81/ .80	13.5	.86/ .84	17.5	.84/ .76	15.5	.86/ .80	16.5	.80/ .79
RCADS 11- itemTotal + 2 Impact item	.90	14.5	.82/ .80	11.5	.92/ .82	15.5	.81/ .76	13.5	.86/ .80	14.5	.82/ .79
RĈADS 11- itemTotal + 1 Impact item ²	.89	12.5	.83/ .80	10.5	.84/ .84	13.5	.83/ .75	12.5	.84/ .83	12.5	.81/ .79

Note. Sens/Spec = Sensitivity/Specificity.

² The ROC curve analyses confirmed that the optimal parent-report total scale with one symptom impact item was not significantly different (p = .62) from the parent-report total scale that included the same symptom impact items as adolescent-report total scale.

f) Summary of binary logistic regression for the 11 RCADS items with and without symptom impact items

Model	b (SE)	Wald z- value (p-value)	OR (95% CI)	McFadden's R^2	Model fit change (χ^2)
Model 1					
Constant	-2.74 (.2	8) -9.94*	1.29 [1.24, 1	.35] .42	213.67*
RCADS 11 item Total - P	.26 (.02	11.02*			
Model 2					
Constant	-3.79 (.4	0) -9.42*		.50	17.06*
RCADS 11 item Total - P	.15 (.03) 4.52*	1.16 [1.09, 1	.24]	
Impact items - P	.53 (.13) 4.02*	1.69 [1.31, 2	2.20]	

Note. P = parent-report, *p < .01.