

The incremental validity of the Cognitive Fusion Questionnaire (CFQ) over a measure of automatic negative thoughts

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BACKGROUND

The Cognitive Fusion Questionnaire (CFQ; Gillanders et al., 2014) is a well-validated measure of cognitive fusion. However, it is unclear if the CFQ has incremental validity compared to measures of the frequency of difficult thoughts. Items on the CFQ include "My thoughts cause me distress or emotional pain" and "I get upset with myself for having certain thoughts." Responses to these items could be highly influenced by the frequency of difficult thoughts. Establishing the incremental validity of the CFQ over a measure of the frequency of difficult thoughts would help to clarify that the CFQ is measuring cognitive fusion specifically.

This poster presents the results of an investigation of the incremental validity of the CFQ compared to a measure of automatic negative thoughts, the ATQ-F or ATQ (Hollon & Kendall, 1980) in a college student sample (n = 389). Specifically, this study examined the predictive validity of the CFQ when controlling for automatic negative thoughts and whether or not CFQ and ATQ-F items load separately in a factor analysis.

METHODS

Participants

- •N=389, 69.7% female, mean age 20.08 (SD=3.48) years
- •4.1% Hispanic or Latino
- •95.4% White, 2.3% Asian, 1.3% Black, 0.5% American Indian/Alaska Native, 0.5% Native Hawaiian/Pacific Islander, 1.5% other
- •Inclusion criteria: College student, 18 or older
- •Participants completed self-report measures through online survey, with follow-up survey four weeks later
- •Although participants were unscreened, 13.2% reported significant distress according to CCAPS cutoffs

Measures

- Cognitive Fusion Questionnaire (CFQ; Gillanders et al., 2014)
- Counseling Center Assessment of Psychological Symptoms, 34-item version (CCAPS-34; Locke et al., 2012)
- Automatic Thoughts Questionnaire-Frequency (ATQ-F; Hollon & Kendall, 1980)

ANALYSIS

- •Multivariate regression models tested if baseline cognitive fusion predicted distress, depression, anxiety, social anxiety, and academic distress one month later controlling for baseline levels of the DV and automatic negative thought frequency
- •Principal axis factoring with direct oblimin rotation (allowing for correlation between factors) was applied to CFQ and ATQ-F items to determine if the two measures load separately

RESULTS

- •At baseline the CFQ was significantly associated with automatic negative thoughts (r = 0.71, p < .001), depression (r = 0.67, p < .001), anxiety (r = 0.67, p < .001), and academic distress (r = 0.50, p < .001)
- •The CFQ predicted distress (β = 0.14, p < .05), depression (β = 0.11, p < .05), and anxiety (β = 0.16, p < .01) one month later controlling for the DV and automatic negative thoughts at baseline
- •The CFQ did not predict significant additional variance in social anxiety or academic distress one month later controlling for the DV and automatic negative thoughts at hasaline
- •Four factors were obtained with eigenvalues > 1, and CFQ and ATQ-F items loaded exclusively on separate factors (loadings were considered significant if > 0.4). Factor 2 (with CFQ items) had medium to large correlations with the other factors (r = 0.42 with Factor 3; r = 0.60 with Factor 1 items, r = 0.62 with Factor 4 items)

CFQ correlations at baseline	r	p
Automatic negative thought frequency	.71	<.001
Depression	.67	<.001
Anxiety	.67	<.001
Social anxiety	.53	<.001
Academic distress	.50	<.001

Longitudinal regression models	ß	p	R²
Prediction of distress			
Distress at baseline	.55	<.001	.61
Automatic negative thoughts	.15	.008	
Cognitive fusion	.14	.011	
Prediction of depression			
Depression at baseline	.42	<.001	.73
Automatic negative thoughts	.26	<.001	
Cognitive fusion	.11	.047	
Prediction of anxiety			
Anxiety at baseline	.62	<.001	.76
Automatic negative thoughts	.05	.365	
Cognitive fusion	.16	.004	

Factor Loadings						
	Factor					
	1	2	3	4		
CFQ - My thoughts cause me distress or emotional pain	0.064	0.812	0.012	0.02		
CFQ- I get so caught up in my thoughts that I am	0.048	0.833	0.026	0.00		
unable to do the things that I most want to do CFQ- I over-analyze situations to the point	-0.001	0.780	0.092	-0.06		
where it's unhelpful to me						
CFQ - I struggle with my thoughts	-0.014	0.975	-0.049	-0.02		
CFQ - I get upset with myself for having certain thoughts	0.073	0.824	-0.080	0.01		
CFQ - I tend to get very entangled in my	-0.078	0.938	-0.076	0.02		
thoughts CFQ - It's such a struggle to let go of upsetting	-0.039	0.873	-0.060	0.04		
thoughts even when I know that letting go would						
be helpful ATQ-F - I feel like I'm up against the world.	-0.036	0.163	0.188	0.43		
ATQ-F - I'm no good.	0.722	0.115	0.170	-0.04		
ATQ-F- Why can't I ever succeed?	0.511	0.093	0.336	0.02		
ATQ-F - No one understands me.	0.241	0.249	0.162	0.24		
ATQ-F - I've let people down.	0.446	0.253	0.172	0.06		
ATQ-F - I don't think I can go on.	0.179	0.045	-0.069	0.57		
ATQ-F - I wish I were a better person.	0.524	0.148	0.261	-0.06		
ATQ-F - I'm so weak.	0.592	0.137	0.107	0.04		
ATQ-F - My life's not going the way I want it to.	0.323	0.012	0.398	0.20		
ATQ-F - I'm so disappointed in myself.	0.621	0.086	0.280	0.01		
ATQ-F - Nothing feels good anymore.	0.087	0.093	0.096	0.62		
ATQ-F - I can't stand this anymore.	0.134	0.152	-0.035	0.57		
ATQ-F - I can't get started	-0.153	0.133	0.203	0.69		
ATQ-F - What's wrong with me?	0.331	0.221	0.220	0.29		
ATQ-F - I wish I were somewhere else.	0.091	0.073	0.278	0.44		
ATQ-F - I can't get things together	0.117	0.130	0.465	0.34		
ATQ-F - I hate myself	0.888	0.013	-0.159	0.04		
ATQ-F - I'm worthless	0.847	0.078	-0.166	0.07		
ATQ-F - Wish I could just disappear	0.551	0.059	-0.221	0.35		
ATQ-F - What's the matter with me?	0.417	0.189	0.176	0.21		
ATQ-F - I'm a loser	0.771	-0.042	-0.031	0.10		
ATQ-F - My life is a mess	0.237	0.063	0.426	0.24		
ATQ-F - I'm a failure	0.888	0.023	0.011	-0.02		
ATQ-F - I'll never make it	0.553	-0.043	0.045	0.30		
ATQ-F - I feel so hopeless	0.472	0.094	0.032	0.37		
ATQ-F - Something has to change	0.098	0.116	0.428	0.34		
ATQ-F - There must be something wrong with me	0.333	0.104	0.163	0.42		
ATQ-F - My future is bleak	0.293	0.015	-0.065	0.57		
ATQ-F - It's just not worth it	0.044	-0.013	-0.175	0.87		
ATQ-F - I can't finish anything	0.095	0.046	0.143	0.61		

REFERENCES

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