# Factor Structure of the Automatic Thoughts Questionnaire in a Clinical Sample

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Sonic of the nutrities and interpretation and interpretation of the results and for 61% of the variance. Of these five factors, only the first two independent of the results and for further use of the ATO-N within cognitive therapeutic for the results and for further use of the ATO-N within cognitive therapeutic for the results and for further use of the ATO-N within cognitive therapeutic research and practice are discussed.

An array of self-report instruments has been designed to assess cognitive outcome and possible redicting antichles. (Donois, Casin, & Brinden, 2002) anneisted with eggitive therapy of depression (Back, Bush, Shaw, & Ensey, 1979). One of the first, and still one of the most widely used and respected measures (Nezu, 1970) to assess the requestion of outcomes and the first, and still one of the most widely used and respected measures (Nezu, 1970) to assess the requestion of outcomes and the first, and still one of the most widely used and respected measures (Nezu, 1970) to assess the requestion of outcomes and the first and the

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By now the psychometric properties of the ATQ-N, including its internal (Chioqueta & Stiles, 2004; Deardorff, Hopkins, & Finch, 1984; Ghassemzadeh, Mojtabai, Karamghadiri, & Ebrahimkhani, 2006; Hollon & Kendall, 1980; Kazdin, 1998, Oct & Makhan, 2008; Sahin & Sahin, 1002) and temporal consistency (Chioqueta & Stiles, 2004; Ghassemzadeh et al., 2006; Sahin & Sahin, 1992), as well as convergent (Ghassemzadeh et al., 2006; Hollon & Kendall, 1980; Kazdin, 1990; Oci & Mukhtar, 2008; Sahin & Sahin, 1992) and discriminant validity (Chioqueta & Stiles, 2004; Hill, Oci, & Hill, 1989; Hollon & Kendall, 1980; Hollon, Kendall, & Lumry, 1986; Oci & Mukhtar, 2008; Sahin & Sahin, 1992) inave been sufficiently documented within both nonelinical (Hollon & Kendall, 1980).

However, with the exception of two possible studies (Kazdin, 1990: Netemever et al., 2002) all of the analyses of the factor structure of the ATQ-N to date have been conducted with nonclinical populations (Bryant & Baxter, 1997; Chioqueta & Stiles, 2006; Deardorff et al., 1984; Ghassemzadeh et al., 2006; Hollon & Kendali, 1980; Joseph, 1994; Oer & Mukhar, 2008; Sahin & Sahin, 1992). Why there have been no factor manyous of the ATQ-N thus for with clinically depressed samples seems a bit unclear insofar as the Dysfunctional Attitudes Scale (Weissman, 2006, 2007; Hill et al., 1989; Sahin & Sahin, 1992) has been factor analyzed with depressed outpatients (Imber et al., 1990).

ticular, it is unclear how what is known about the instrument's factor structure with norelinital semples may generalize to clinical populations. While two previous factor analyses of the ATQ-N were with samples that could be characterized as clinical in pature (Kazdin 1990: Netemever et al., 2002), neither was typical of cognitive merapy clicins (i.e., adult outpatients). Kazdin's (1990)-sample consisted of children admitted to an inpatient facility and only a millionity of them. (2004) received either a primary or secondary diagnosis of depression. Although Actuary (2002) colected an adult sample, it was limited to self-identified problematic gamblers whose levels of depression were not systematically assessed.

Our major purpose in conducting this study was to address this gap in our understanding of the factor structure of the ATQ-N with a sample more representation of the administered. To

do so, we first determined the uniqueness of the factor structure of the ARQ-IN when administered to a clinical sample by evaluating its fit with models derived from other populations. Poor fit with previously published factorial models would suggest the relevance to also conduct an exploratory analysis with our sample to identify the disciplinations of automatic thinking that may be more specific to clinically depressed populations.

#### METHOD

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depression, or participants in another, but as of yet unpublished, research project on treatment of depression. The majority of participants were female (147 or

#### **MEASURES**

Automatic Thoughts Questionnaire—Negative. Participants were asked to sepafrequently, if at all 30 depressing thoughts occurred over the last week (see Table
Source list of the items): Total ATQ Nescores range from 30-150, with higher
the psychometric properties of the scale are well established. The average ATQ-N
score (M = 93.42, SD = 24.18) was comparable to that reported for other de-

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mediate of acpression." Total scores tange wonto to your mover section makes the property of the property including acceptable levels of reliability of well-as evidence of its concurrent and the similar acceptable levels of reliability of well-as evidence of its concurrent and the similar acceptable levels of reliability of well-as evidence of its concurrent and

within the clinical sample culled from the earlier depression studies had been as within the clinical sample culled from the earlier depression studies had been as son, Mock, & Erbaugh, 1961). The BDI, fixe its successor, has exhibited shoring psychometric properties, with acceptable levels of reliability with clinical populations (Beck, Steer, & Garbin, 1988; Steer, Beck, & Garrison, 1986) as well as a second second standard construct religion (Beck & Steer, 1987). Combining data from the

TWO VERSIONS OF THE BOY SEENTED APPROPRIATE, BUTCH HILL DOLLER HE PROJECTIONS OF THE PROPERTY AND ADDRESS OF THE PROPERTY OF T

1996: Kendall, Hollon, Beck, Hammen, & Ingrain, 1907.

#### PROTUGES

We first analyzed our data set for possible gender differences. None were detected for age or A1Q-N scores, attnough temate participants reported higher levels of depression than their make counterpants (24 = 20.62 vs. 20.55),  $\epsilon(1/6) = 2.54$ , p = 0.2 d = 45. However, because both means fall with the participants range of depression as defined by Rock at 1 (1004).

#### INTERNAL CONSISTENCY

Both alpha (r = .95) and split-half reliability coefficients (r = .94) further substantiated the internal consistency of the ATO-N documented by other researchers (e.g., Chioqueta & Stiles, 2004; Deardorff et al., 1984; Hollon & Kendall, 1980; Sahin & Sahin, 1992). Corrected item total correlations for the 20 items of one failure) with a mean of 62. The average item total correlation of the all, 1984; Ghassemzadeh et al., 2006, Kazuiri, 1990), thereby supporting the integrity of our overall findings.

#### EVALUATION OF DIMENSIONAL INVARIANCE

The ATQ-N's high level of internal consistency suggested that it was comprised of a limited number of factors. To determine how many we used an SPSS syntax program developed by (EGennon (2000) Emerged dusting a minimum variance matrix rescaled to the variance of each variable, giving the partial correlations after each factor is extracted. The average partial x2 (old criterion) and x4 (new criterion) and computed after each factor extraction and decrease until all common variance has been extracted and then start increasing. At this point, factor extraction ceases and the number of factors before the increase is used.

The revised MAP test (Velicer Faton & Few 2000) revoled for fators and grown are sure ance. Only Sahin and Sahin (1992) also reported five factors in their analysis of models consisting of a single (Kazdin, 1990) to four factors (Hollon & Kendall, 1980). Ostensibly the varying number of dimensions identified primarily cannot be generalized to clinical populations. This interpretation, however, must be tempered somewhat by the acknowledgment that other researchers have used

TABLE 1. Goodness-of-Fit Statistics for Various Factor Models of the ATQ-N

		į			Measures of Relative Fit			
Factor Model	Factors*	ltems <sup>6</sup>	χ²	df	NC	RMSEA	GFI	
Single	1	30	1097.60	405	2.71	.098	.689	
Chioqueta & Stiles (2006)	2	30	976.61	375	2.60	.095	.723	
S En Leadings	·		185 US:	E3	2.27.27	1.03	. 874	
Andrew Control of the	e - Ligging Calabi	3 tu. 13	ميد <u>کائ</u> ر به	110				
Deardorff et al. (1984)								
E	· Market 1	rojetyk etne.		7.4	<u>?</u> ≝^	ວ່າ	07/	
Tronoff & Nemania (1787)			eri -molo,ma	<u></u>	5			
≥ .50 Loadings	. 2	11	164.90	43	3.83	.127	.850	
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e po coomings	954511.00.00	182821		TOWNS .	190mHz	<i>∀⊅83</i> 1		

Notes: "Values refer to the number of factors; "Values refer to the number of items; "NC, the normed chi-square, denotes, the chi-square value divided by degrees of freedom.

Kendall, 1980; Sahin & Sahin, 1992) to principal axis (Oei & Mukhtar, 2008) in extracting factors. There has been more consensus in the means used to determine misses missest the remaining factors of extracted factors in metallical collections and determine all of the control of extractions of extractions of the control of the control

to retain, although as noted, the MAP identified the same number of factors as the Kaiser rule.

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Joseph (1994), and Necessity of etals (2002). We restrain a super monacture of the CFA in manner consistent with

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but both reported that they were no longer available.

The second constitution of the second and the secon

sis of Moment Structures (AMOS-5.0) program (Arbuckle, 2003) to test the fit

haustive evaluation of fit, we tested two iterations for each of the models with the exception of the single factor model. The first iteration listed in Table 1 for each

TABLE 2. Correlation Matrices of ATQ-N Factors

Indi	E E. CO., C.		-		
	1.	2.	3.	4.	5.
1. Demoralization	.89				
	67	91	2		
**************************************	66	71	87		
4. Amotivation	.66	.64	.66	.81	
5. Interpersonal Disappointment	.30	.36	.37	.31	.70

Notes. \*Diagonal entries are alpha coefficients.

of the models included all reported factor loadings with the restriction that only the highest value was meridided for items that loaded on more than one factor. The econd netration concluded this barriers restrictive rule, but was limited to items with loadings ≥ .50 in order to increase the likelihood or determining an acceptance as well as a reduction in the number of factors for those original models containing four or more factors (i.e., Hollon & Kendall, 1980; Sahin & Sahin, 1992).

The most protound impact or this second round or reserving was at the model of Sahin and Sahin (1992), resulting in a loss of four factors and 22 items.

In both iterations, we tested oblique versions of the models even for those that were originally pascer on an orthogonal returned. The land that we used to assess goodness of the Bessuss the chi-square ( $\chi^2$ ) statistic may overestimate the lack of model fit (Bollen, 1989) due to its sensitivity to

my good the role in the fill of the sound of the state of \$2 RMSEA values of \$2.06. and GFI

As can be seen in Table 1, all of the 11 factor models we tested failed to display sufficient goodness of the wall on chimal sample. Mone of the models met of the indices and only that of Oci and Mulchar (2008) met at least two of them. NC was met for at least one of the iterations for all of the models except that of Hollon and Kendall (1980). However, none of the models unsprayed an adequate fit according to PMSE 4 under either iteration, and GFI only together increase in the case of Sahin & Sahin, 1992) when items were limited to those with loadings  $\geq 50$ . As minimate in three in indices, and or the case of Sahin and Sahin (1992) model, in crease NC (5.98) to an unacceptably high level.

TABLE 3. Factor Loadings for Exploratory Factor Analysis With Promax Rotation of ATQ-N

Factor	Loading /	Item
1. Demoralization	.84	12. I can't stand this anymore.
	.79	6. I don't think I can go on.
	.69	19. Wish I could just disappear.
	.61	29. It's just not worth it.
	.51	28. My future is bleak.
	.51	25. I feel so helpless.
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r <u>ri</u>	B <b>ALBAR AMMAHA</b> MAN ING BARA	ara.
	.43	4. No one understands me.*
•	.40	26. Something has to change. <sup>b</sup>
	.34	24. I'll never make it. <sup>c</sup>
2. Self-Criticism	.97	18. I'm worthless.
		47 15-1
	.78	17. I hate myself.
	.78 .71	21. I'm a loser.
		·
	.71	21. I'm a loser.
	.71 .62	21. I'm a loser. 23. I'm a failure.
	.71 .62 .56	21. I'm a loser. 23. I'm a failure. 2. I'm no good. <sup>4</sup>
e e e e e e e e e e e e e e e e e e e	.71 .62 .56	<ul> <li>21. I'm a loser.</li> <li>23. I'm a failure.</li> <li>2. I'm no good.<sup>4</sup></li> <li>7. I wish I were a better person.</li> </ul>

TET TO THE CONTRACT OF THE PROPERTY OF THE PRO	······		
	.46	26. Something has to change.	
	.34	10. I'm so disappointed in myself.	
	90,200,000	30 Lean't finish anything	
	.73	16. I can't get things together.	
	.72	13. I can't get started.	
5. Interpersonal Disappointment	.50	5. I've let people down.	
	.48	2, I'm no good.	
	.34	4. No one understands me.	
	.34	8, I'm so weak.	
		<del></del>	

Notes. \*Also loads .34 on Factor 5; \*Also loads .46 on Factor 3; \*Also loads .40 on Factor 2; \*Also loads .48 on Factor 5.

## EXPLORATORY FACTOR ANALYSIS

The failure to obtain arradequate in with any of the previous models, underscored the need to conduct a separate EFA of the ATQ-N with our clinical sample to memory as made immediately and separate and the conduct is a promar with

a Kaiser normalization) rather than orthogonal towns in the same state of the anticipate that they would be unrelated to each other

TABLE 4. Regression Analysis Predicting Depression From ATQ-N Factor Scores

· ''		_			_
Factor Score	В	SE B	β		P
1. Demoralization	2.34	.79	.31	2.96	.004
Self-Criticism	2.79	.81	.38	3.45	.001
	-1.43	.83	19	-1.72	.088
3. Brooding	.34	.79	.04	.43	.668
4. Amotivation		.60	.09	1.22	.224
5. Interpersonal Disappointment	.73	.00			

Notes:  $R^2 = .33$ , p < .001.

based upon the most recent analyses of the ATQ-N (Chioqueta & Stiles, 2006; Juseph, 1994; Neterneyer et al., 2002; Oei & Mukhrar, 2008). As can be seen in Juseph, 1994; Neterneyer et al., 2002; Oei & Mukhrar, 2008), As can be seen in

with each other.

Table 3 presents a summary of the loadings for each factor using ≥ .32 as sales for inclusion (Tabachnick & Fidel) 2007. His only criterion, 90% of sales for inclusion (Tabachnick & Fidel) 2007.

he nems (2) of 30) loaded on two. We have referred to Factor 1 as Demoralization 4, 24, and 26) loaded on two. We have referred to Factor 1 as Demoralization reappears to uncompass recogness thoughts that one lacks the wherewithal, stamina, and personal attributes to persevere mimeering according to the stand this anymore). As such, it seems to generally parallel the type of negative thoughts about the world that represent the second component of the cognitive triad (Beck et al., 1979). We have termed Factor 2 Self-Criticism as the eight items that load on it can be seen as comprising negative judgments about the self (e.g., item 17: I hate myself). Such thinking has been linked to suicidal risk (Morrison & O'Connor, 2008) and seems to reflect the first component of Beck's

items that load on it can be seen as comprising negative judgments about the self (e.g., item 17: I hate myself). Such thinking has been linked to suicidal risk (Morrison & O'Connor, 2008) and seems to reflect the first component of Beck's negative cognitive triad. Another pattern of thinking that may itself account for the relationship between self-criticism and suicidality (O'Connor & Noyce, 2008) appears to be represented by Factor 3. We named it Brooding to reflect a type of fruminative thinking (Treynor, Contact), & Treining (Treynor, Contact), &

why one has fallen short of some comparative standard (e.g., item 14: What's wrong with me?). We have identified Factor 4 as Amotivation as the three items that load on a teneer caracteristic warmaning (e.g., item 12: I can't get started) and completing (e.g., item 30: I can't finish anything) goal-directed activities.

The fifth and tinal ratior in our view renees medication as appearance in the started of the started of

4: No one understands me).

#### **REGRESSION ANALYSIS**

scores (r = .53, p < .01). To better understand the relationship between specific vibrations and thinks and thinks we conducted a regression analysis using the five factor scores to predict variability in BDI scores. As includated in against a regression analysis using the five factor scores to predict variability in BDI scores. As

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the fatter accounting for the highest proportion of wais rose in levels of depression

Parientally surprising was the acquires albeit in light of other research that has found this broading and depression, especially in light of other research that has found this

nity samples (Treynor et al., 2000).

#### DISCUSSION

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of the ATQ-N in a sample more representative of those to whom it is administered in clinical resemble to marking. Our findings should suggest that the dimensions are accommon to the contraction of this extragarise of cells enterments endersed by those seeking intermediate difficult depression. Specifically the number of common factors (five) identified within our clinical sample differed from all previous factor analyses except that of Sahin and Sahin (1992) with Turkish college students. Moreover, we

would maximize goodness-of-fit were conducted. It seems worth reiterating that all of the previous models that we examined for fit were from nonclinical samples, with the exception of Kazdin (1990), that evaluated child inparients. Unfortunity was a least the exception of Kazdin (1990), that evaluated child inparients. Unfortunity was a least the exception of Kazdin (1990), that evaluated child inparients. Unfortunity was a least the exception of Kazdin (1990), that evaluated child inparients.

(2002) of the only previous factor analysis of the ATQ-N conducted with what more to conducted with what gamblers). While it would obviously be desirable for others to further substantively and the standard of the ATQ N by realisation with a similar sample we believe that our overall results justify the need to be cautious in generalizing

Struggie with chinear tepression.

We deemed the five factors of the ATQ-N identified within our clinical sample as demoralization, self-criticism, brooding, amotivation, and interpersonal disappointment. The degree to which the first three dimensions, in particular, correspond to similarly designated constructs and variables within the literature at this point is unclear, but could be resolved empirically by correlating ATQ-N factor scores with existing measures of demoralization (Tellegen et al., 2003), and the property of the property o

Clearly the most unexpected finding of our regression analysis was that ruminadon typified by a negative self-form (e.g. What's the matter with me) did not significantly contribute to variable in DDI escret Instead brooding was negatively, although not significantly, related to levels of self-reported depression. It seems worthy of further research to examine whether this apparent disconnect may in part be vet just another reflection of a discontinuity between nonclinical and clinical samples in studying ostensibly similar processes. Unlike the reflective 

ing has been snown to be more premerive or the reserve the same and th community and clinical samples (Morrison & O'Connor, 2008). While rumination in general has been implicated in both the onset (Robinson & Alloy, 2003) animuricana mendida anima (Nalen-Harkerna, McBride & Larson 1997). more recent research that found the distinction between the two types of rumination to be blurred in currently depressed populations (Whitmer & Goffib, 2011). When viewed in the aggregate, the literature to date on rumination in combination with our findings suggests that the possibility that brooding may contribute to the development of both suicidality and depression in both nonclinical and unilari populations pour interpredent para unu van dinter ariabilis sindovels of depression in clinical samples seems worthy of further exploration. Our hope is that Fra commoditie or recency of the contraction then other identified in our factor analysis might play at least some small role in this larger endeavor.

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