

Portuguese Version of the Alcohol Craving Questionnaire Short-Form -Revised: Validation and Reliability Assessment

¹Psychological Neuroscience Lab, Research Center in Psychology (CIPsi), School of Psychology, University of Minho, Campus Gualtar, 4710-057 Braga, Portugal *More information: rodrigues.ruips@gmail.com

Scientific Background

Alcohol craving (AC) is defined as a strong subjective desire for alcohol intake (Tiffany & Conklin, 2000), which has been considered a multifaceted phenomenon, with tendency to be situational specific and often associated with psychological cues (Heinz, Beck, Grüsser, Grace, & Wrase, 2009).

This urge for alcohol consumption has often been depict as one of the main causes for acquisition and maintenance of alcohol use disorder (AUD), representing a detrimental factor for relapse, presented in approximately 70% of recovering patients (Franken, 2002; Myrick et al, 2004).

Despite the fact that Portugal exhibits high rates of problems associated with alcohol consumption (Balsa, Vital, & Urbano, 2018) and AC is a relevant target in the treatment of AUD (Rodd, Bell, Sable, Murphy, & McBride, 2004), to our knowledge, Penn Alcohol Craving Scale (PACS), a unifactorial scale, is the only measurement of alcohol craving that has been validated to a Portuguese sample.

Bearing in mind the complexity and changeability of the construct, the validation of a multifactorial scale that assesses acute levels of craving seemed meaningful. For this reason, given the characteristics of the existing scales and questionnaires of alcohol craving measurement, the Alcohol Craving Questionnaire Short-Form - Revised (ACQ-SF-R) was selected with the intent of overcoming these limitations.

Aims

Validate a multifactorial scale that assesses acute levels for the Portuguese population, through the translation and validation of ACQ-SF-R. Furthermore, we aimed to assess which model better fits the aimed population; testing the original 4 factor model as well as to conduct an exploratory factor analysis to understand how the scale behaves in the adapted version.

Conclusion

Portuguese version of ACQ-SF-R shows a high degree of internal consistency and a good convergent validity with the PACS. Factorial analysis triggered 3 factors (Expectancy/Emotionality; Predisposition/Opportunity; Compulsivity), which accounted for 60.64% of the total variance of the questionnaire, with a strong comparative fit index. Considering AIC for the comparisons between different models, where smaller values represented the best model, the 3-factor model seems to have a better fit for the Portuguese population. In conclusion, the Portuguese version of ACQ-SF-R revealed appropriate psychometric properties, suggesting that this questionnaire can be used by researchers/clinicians to assess alcohol craving in the Portuguese population.

Rodrigues, R.¹, Antunes, N.¹, L ó pez-Caneda, E.¹, Sampaio A., & Crego, A.¹



Biochemistry and Behavior, 79, 439-450. Tiffany, S. T., & Conklin, C. A. (2000). A cognitive processing model of alcohol craving and compulsive alcohol use. Addiction, 95, 145-153. doi: 10.1046/j.1360-0443.95.8s2.3.x

Acknowledgments

This study was conducted at the Psychology Research Centre (PSI/01662), School of Psychology, University of Minho, and supported by the Portuguese oundation for Science and Technology and the Portuguese Ministry of Science, Technology and Higher Education (UID/PSI/01662/2019), through the national funds (PIDDAC). Moreover, this study was partially supported by the project POCI-01-0145-FEDER-028672, funded by the Portuguese Foundation for Science and Technology (FCT) and the European Regional Development Fund (FEDER). C MPETE 2020

	Extraction Sums of Squared Loading						Rotation Sums of Squared Loadings					
ative	,	Total Varia		ce %	Cumulativ %	^{ve} T	otal	Variance %		Cumulative %		
3.567	4.628		38.567		38.50	67	3.037	25.312		25.312		
).674	1.453		12.107		50.62	74	2.381		19.842		45.153	
).685		1.201	1	0.011	60.68	85	1.864	15.532		60.685		
7.035	Model Fit Indexes – 3-factor VS 4-factor											
2.948									RMSEA		AIC	
8.146		Model	χ^2	df	χ^2/df	NFI	CFI	GFI				
3.025												
7.512		3-factor 4-factor	253 312	71	4.00	00	00		0.0		207.7	
1.315				51	4.98	.90	.92	.94 .0		3 307.1	307.7	
4.759												
7.760				48	6.50	.87	.89	.91	.10		372.1	
0.000												

Rodd, Z. A., Bell, R. L., Sable, H. J., Murphy, J. M., & McBride, W. J. (2004). Recent advances in animal models of alcohol craving and relapse. Pharmacology

Fundo Europeu de Desenvolvimento Regional