

Study of the Cues-Craving-Usage model in behavioral addictions.

A. Allache ^{1,2}, L. Lambert ^{1,2}; H. Garnier^{1,2,3}; C. Romao^{1,2}; C. Vacher ^{1,2}; M. Auriacombe^{1,2,3}; F. Serre^{1,2}

¹ University of Bordeaux, F-33076 Bordeaux, France
 ² CNRS, SANPSY, UMR 6033, F-33076 Bordeaux, France
 ³ Pôle Interétablissement d'Addictologie, CH Ch. Perrens and CHU de Bordeaux, F-33076 Bordeaux, France

INTRODUCTION

- Behavioral addiction: loss of control over a reinforcing behavior (e.g., gaming, gambling, eating disorder).
- Craving: irrepressible urge to use a substance or perform a behavior.
- Ecological Momentary Assessment: ambulatory assessment method that captures events in the subject's natural environment.
 EMA was used to study the cues-craving-use model for substance addiction (*F. Serre., 2015*).

1: CUES-CRAVING LINK



Objective: to study the cues-craving-use model in the context of behavioral addictions in everyday life.

METHOD

Population: Outpatients starting treatment for any behavior addiction (DSM-5).



Graph 1: Average T1 craving as a function of the number of T0 cues

Predictor	Outcome	Coefficient	SE	t-ratio	d.f	p-value
Craving TO	Craving	0.197588	0.054824	3.604	15	0.003
Cues T0	T1	-0.000289	0.033006	-0.009	15	0.993
Cues T0	Craving T0	0.182399	0.033805	5.296	15	<0.001

Results cues-craving link:

Number of cues at T0 is associated with more craving at T0, but not at T1. However, we can see a linear trend (graph 1).

2: CRAVING-USE LINK



Û







Natural environment



Statistical analysis:

Hierarchical linear and non-linear models (HLM)

1 : Cues TO-craving T1 link 2 : Craving T0-use T1 Link

POPULATION





Predictor	Outcome	Coefficient	SE	t-ratio	d.f	p-value
Craving TO	Use T1	0.224673	0.069273	3.243	17	0.005
Use T0		0.059273	0.205044	0.289	17	0.776

Results craving-use link :

Prospective association between increase in craving intensity T0 and use T1.

DISCUSSION



Main results:

These results support the importance of craving in use, and the fact that it is a transdiagnostic phenomenon, i.e., observable whatever the object of addiction.

Limits : The sample size is less than 30, so the inclusions must be continued until the sample size required to complete the analyses is reached.

Perspectives : This could represent an argument for including craving in the diagnostic criteria for behavioral addictions.

PARTNERS •••••••••••••••••••••••••••••••••







Conflicts of interest : none