



# Impact of decision-making capacities on 3-month treatment outcome among patients treated for cannabis use disorder

L. Jakubiec<sup>1,2</sup>, F. Serre<sup>1,2</sup>, S. Auriacombe<sup>3</sup>, C. Denis<sup>4</sup>, S. Moriceau<sup>1</sup>,

M. Fatseas<sup>1,2</sup>, M. Auriacombe<sup>1,2</sup>

<sup>1</sup> Addiction Research, CNRS USR 3413 SANPSY, University of Bordeaux, France, <sup>2</sup> Addiction Clinic, CH Ch. Perrens and CHU Bordeaux, France,

<sup>3</sup> Memory Clinic, Institut des maladies neurodégénératives (IMN) and CHU de Bordeaux, Bordeaux, France, <sup>4</sup> Center for Studies of Addiction, Department of psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, USA

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## Introduction

Decision-making is an impaired executive function among cannabis use disorder patients. This might be a barrier to addiction treatment response.

## Objective

Determine to what extent decision-making capacities influence treatment outcome among patients with cannabis use disorder.

## Methods

### Study Design

- 3 month, prospective study
- AddictAqui Cohort, Bordeaux, France

### M0

*Iowa Gambling Task*  
ASI (Addiction Severity Index)  
MINI (Mini International Neuropsychiatric Interview)  
*Craving* : number of days in past 30 days + intensity (mean and maximum)

### M3

ASI  
Treatment Service Review  
Craving

### Sample

18+, seeking treatment for cannabis use disorder in outpatient addiction clinic

### Variables of interest

**IGT Net Score** : decision-making capacities

**Treatment outcome : Delta Drug CS =**

M3 ASI Drug Composite Score – M0 ASI Drug Composite Score

Socio-demographic variables

**Craving**

**Treatment Service Review**

### Statistical analysis

#### Univariate analysis

Exact Fisher test  
Wilcoxon test  
Spearman's correlation

#### Multivariate analysis

Multivariate regression analysis

## Results

### Sample Characteristics

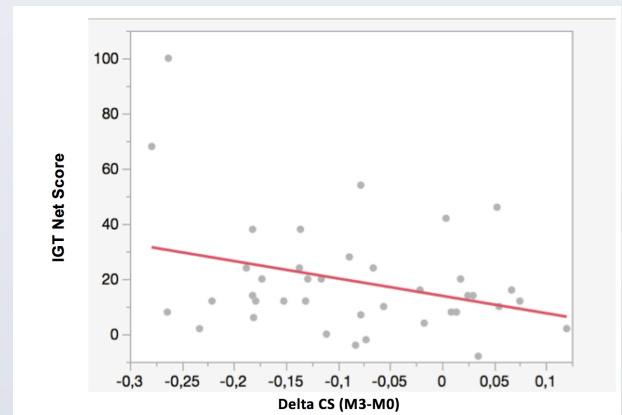
N = 39, 33 y.o., 87.2% males

Poly addiction: 76 %

IGT Net Score: 19.26 (SD = 20.75)

### Univariate analysis

→ **Significant inverse correlation between IGT net score and Delta drug CS ( $p = 0.0450$ )**. This association was significant after controlling for **craving levels** or **TSR**.



→ Other associated variables were : **years of education** ( $p = 0.0041$ ) and **having a job** ( $p = 0.0384$ )

### Multivariate Analysis

Education level was the only variable that remained associated with Delta CS ( $p = 0.0316$ )

## Conclusions

**Association between IGT net score and treatment outcome was no longer significant after controlling for years of education.**

Further explorations are needed to study the role of education in this association.

**Contacts :** louise-adelaide.jakubiec@u-bordeaux.fr,

marc.auriacombe@u-bordeaux.fr, fuschia.serre@u-bordeaux.fr