

Craving: an early and predictive marker of addiction? Baseline results of a prospective study.

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INTRODUCTION

Craving, defined as an intense and unwanted desire to use, could play a key role in Substance Use Disorders (SUD). Craving is both a core (loss of control) diagnostic criterion for SUD in DSM-5 and a dynamic phenomenon with daily variations that are prospectively associated with use (Cleveland et al., 2021; Serre et al., 2015).

These characteristics give craving a prognostic and potential etiological value in addictive disorders. Item response theory (IRT) analysis showed that craving was the most **prevalent** criterion, i.e., the most frequent; and the most **discriminant**, i.e., the one that best distinguished those with from those without the disorder (Kervran et al., 2020; Shmulewitz et al., 2021).

A recent network analysis showed that craving was the most central criterion among SUD (Auriacombe et al., CPDD 2022). Also, the presence of craving in subjects with mild severity SUD (Chung et al., 2012) suggest that it could be among the earliest symptom to appear, making craving a candidate early marker of addiction. However, it has been little studied in users without SUD.

The main objective was to explore whether craving was an early marker of addiction

BASELINE RESULTS



Craving

METHODS



n=**13**/17 Average number of criteria = 5n=**4**/17 No craving No n=1craving Any Cannabis criteria n=2 (n=17) n=12 n = 1Craving Craving

DISCUSSION

Population:

Recruitment from general population not in treatment by KANOPEE Smartphone Application (Auriacombe et al. 2021)

• Screened for use of tobacco, alcohol and cannabis once or more in past 12 months





51% of the sample reported 2 or more SUD diagnostic criteria at inclusion with an average number of DSM-5 criteria of 3, 5 and 5 for alcohol, tobacco and cannabis respectively. In most cases (65%, 89% and 92%), craving was reported.

Among users with only one or no SUD diagnostic criteria 3, 1 and 1 people reported craving for alcohol, tobacco and cannabis respectively.



Evaluation (inclusion and follow-ups):

Addiction Severity Index

- Craving Numeric scale
- SUD DSM-5 criterion

Data Analysis strategy: Description of sample with JMP® Pro (Version 16.0.0)

CONCLUSION

Majority of users reporting craving already met criteria for SUD. Only a minority of users without SUD reported craving. One year outcome will allow to determine whether craving predicts SUD.

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