ASSESSING CUE-INDUCED CRAVING IN INDIVIDUALS WITH METHAMPHETAMINE ADDICTION THROUGH PORTABLE EEG TECHNOLOGY

Incubation of drug craving has been observed in humans and animals across numerous abusive substances. The current study aims to determine the trajectory of cue-induced craving in individuals addicted to methamphetamine using a portable EEG device called the Muse. Our study will employ an established cognitive task alongside a novel EEG method. We will ask participants who are currently receiving treatment for methamphetamine dependence to complete a computer task in which they are shown a series of images followed by prompts designed to measure desire and craving of the item presented. We will be using a portable EEG headset called the Muse to record EEG data while participants complete the task. The transition of established and validated cognitive tasks to the Muse is feasible and we therefore expect valid results. This project represents a major step for feasibility and accessibility of EEG data collection in clinical and hard-to-access populations.

Omran K. Safi¹, Andrew C. Li¹, Anastasia F. Cheng¹, Christian G. Schuetz¹

¹Department of Psychiatry, Faculty of Medicine, UBC