

## Brain Training for Substance Use Disorders

**Status:** Recruiting

### Eligibility Criteria

**Sex:** Male or Female

**Age Group:** 18 years and over

This study is also accepting healthy volunteers

**Inclusion Criteria:**

- 18 to 65 years of age - admitted to Fairview's Lodging Plus program for chemical dependency treatment with opioid use being the primary reason - able to read at a minimum of a 6th grade reading level - willing to provide own contact information for follow-up visit(s) - for HEALTHY CONTROLS: 18 to 65 years old, able to read at a minimum of a 6th grade reading level, and willing to provide own contact information for follow-up visit(s)

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**Exclusion Criteria:**

- pregnancy - history of serious neurological illness (e.g., Chronic seizure disorder, Wernicke-Korsakoff Syndrome, Epilepsy, Any history of seizures) - unable to see text and photos clearly on a computer display - current or previous problems using opioids, other prescription (prescribed or not prescribed) or illicit drugs - regular nicotine user (e.g., cigarette smoker, e-cig user) within the past 12 months and - unwillingness to change hairstyle (e.g., braids, pony tails, dreadlocks) or remove wig to accommodate application of the EEG headset, if necessary

### Conditions & Interventions

**Interventions:**

Device: Bias Modification Biofeedback

**Conditions:**

Brain & Nervous System, Mental Health & Addiction

**Keywords:**

biofeedback, brain games, brain training, neurofeedback, noninvasive eeg, substance use, wearables

### More Information

**Description:** Participants play games designed to train visual attention towards natural, non-drug-related scenarios. A biofeedback loop between gameplay and an electroencephalogram (EEG) system monitors game performance and guides game difficulty.

**Study Contact:** Scott Burwell - burwell@umn.edu

**Principal Investigator:** Justin Anker

**Phase:** NA

**IRB**

**Number:** SITE00001900

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