

## **Mobile Software for Substance Abuse Interventions and Behavioral Modification**

### **Summary**

Researchers at the National Institute on Drug Abuse (NIDA) seek licensing and/or co-development research collaborations to further develop, evaluate or commercialize the software, Mobile Personalized Assessment & Learning for Addiction Treatment and Behavioral Modification. NIDA researchers developed this software for use in treating substance use disorders (drugs, alcohol, smoking) that provides personalized feedback to users.

### **NIH Reference Number**

E-195-2012

### **Product Type**

- Software

### **Keywords**

- Drug Abuse, Alcoholism, Smoking, Smoking Cessation, Pain Management, Behavior Modification, Substance Use Disorders, Software, National Institute on Drug Abuse, NIDA, Vahabzadeh

### **Collaboration Opportunity**

This invention is available for licensing and co-development.

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### **Description of Technology**

Researchers at the National Institute on Drug Abuse (NIDA) have developed software that provides personalized feedback for treating drug dependence, alcoholism, smoking cessation, pain management, and associated risky behaviors. The tool is designed for both healthcare providers at the point-of-care and for self-help. Many people who could benefit from treatment do not receive it because of its low availability and high cost. The available software “mPAL” (Mobile Personalized Assessment and Learning), combines mobile-health-based educational functions with the Ecological Momentary Assessment

(EMA) functions of TED (Transactional Electronic Diary) software. mPAL allows the interchange of data obtained from EMA and the learning system to deliver context-aware intervention in real time, customized to the individual needs of participants. mPAL enables participants to interact with educational materials at the time and place of their choosing and receive personalized feedback when and where it is most needed.

### **Potential Commercial Applications**

- Treatment of substance use disorders such as drug addiction, alcoholism, and smoking using a mobile health application

### **Competitive Advantages**

- Low cost mobile health treatment
- Provides personalized feedback to client

### **Inventor(s)**

[Massoud Vahabzadeh \(NIDA\)](#), [Mustapha Mezghanni \(NIDA\)](#), [Jia-Ling Lin \(NIDA\)](#)

### **Development Stage**

- Clinical

### **Publications**

Vahabzadeh M, et al. PGIS: Electronic diary data integration with GPS data initial application in substance-abuse patients. [[PMID 16779081](#)]

Vahabzadeh M, et al. An electronic diary software for ecological momentary assessment (EMA) in clinical trials. [[CBMS.2004.1311709](#)]

### **Patent Status**

- **Research Material:** NIH will not pursue patent prosecution for this technology

### **Related Technologies**

- [E-224-2017 - Mobile Interconnected Evaluation and Learning Software](#)
- [E-049-2015](#)

### **Updated**

Sunday, September 11, 2022

**Source URL:** <https://techtransfer.cancer.gov/availabletechnologies/e-195-2012>