

## A Mobile Health Platform

### Summary (1024-character limit)

Researchers at the National Institute on Drug Abuse (NIDA) seek licensing or co-development of a mobile health technology that monitors and predicts a user's psychological status in order to deliver an automated intervention when needed.

### NIH Reference Number

E-049-2015

### Product Type

- Software

### Keywords

- mental health
- mobile app
- intervention
- psychological status

### 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](#) developed a mobile health technology to monitor and predict a user's psychological status and to deliver an automated intervention when needed. The technology uses smartphones to monitor the user's location and ask questions about psychological status throughout the day. Continuously-collected ambulatory psychological data are fused with data on location and responses to questions. The mobile data are combined with geospatial risk maps to quantify exposure to risk and predict a future psychological state. The predictions are used to warn the user when he or she is at an especially high risk of experiencing a negative event that might lead to an unwanted outcome (e.g., lapse to drug use in a recovering addict).

An internally developed mobile app is being deployed to deliver an intervention in the context of drug

addiction. The inventors also seek to test the technology for other health applications.

### Potential Commercial Applications

- Real time behavior monitoring
- Therapeutic delivery of an intervention via a mobile device

### Competitive Advantages

- Mobile device
- Real time
- Exposure to risk

### Inventor(s)

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### Development Stage

- Prototype

### Publications

David H. Epstein et al. [[PMID 24332365](#)]

A.P. Kennedy et al. [[PMID 25920802](#)]

### Patent Status

- **U.S. Patent Filed:** U.S. Patent Application Number 15/580,975, Filed 08 Dec 2017
- **Foreign Filed:** Foreign Filed - Patent Application PCT/US2016/029553, Filed 27 Apr 2016