# **DOT MOBILE APP**

# **Evidence-Informed for the Pre-Exposure Prophylaxis Chapter**



## **POPULATION**

Culturally diverse young men who have sex with men (MSM)

#### **KEY INTERVENTION EFFECTS**

Improved PrEP adherence

#### **BRIEF DESCRIPTION**

**DOT** is a PrEP adherence mobile app that combines personalized PrEP pill reminders with positive psychology-based texts to encourage PrEP adherence and provide PrEP information.

The DOT app uses three different text messaging types:

- Daily pill reminders
- · Alternating daily educational or motivational texts
- Weekly text: "It's PrEP every day and condoms every time."

**DURATION:** Six weeks

SETTING: Mobile health environment (participants reside mostly in Boston, Massachusetts)

**STUDY YEARS:** No study years listed **STUDY DESIGN:** One-group pre-post

**DELIVERERS:** Mobile application delivered texts to participants on a set delivery timeline

**DELIVERY METHODS:** Text messaging

## **STUDY SAMPLE**

The baseline study sample (n = 54) of all male participants was characterized by the following:

- 52% White persons
  - 19% Black or African American persons
  - 19% Asian persons
  - 6% Multiracial persons
- 6% Persons who identify as Hispanic or Latino regardless of race
- Mean age = 26 years
- · Mean length of 17 months using PrEP

Note: Percentages for race or ethnicity do not add up to 100% due to missing data

## STRUCTURAL COMPONENTS

There are no reported structural components reported for this study.

## **KEY INTERVENTION EFFECTS** (see **Primary Study** for all outcomes)

• The mean percentage of participants who reported perfect (100%) PrEP adherence significantly increased from pre- to post-intervention (0.39 vs. 0.72, t = 4.458, p < 0.001).

#### CONSIDERATIONS

- The interactive, privacy-protected pill reminders were valued by participants.
- Tailored motivational and educational texts were experienced as supportive.

• Participants thought adding supportive resources, a virtual avatar, automatic time zone adjustments for pill reminders, and enhanced adherence graphing capabilities would be helpful.

## **ADVERSE EVENTS**

• The author did not report adverse events.

### **FUNDING**

- National Institute of Mental Health, Phase 1 (grant number R43 MH121147-01)
- National Institute of Mental Health, Research (grant number R43 MH112221-01-A1)

## **PRIMARY STUDY**

Weitzman, P. F., Zhou, Y., Kogelman, L., Rodarte, S., Romero Vicente, S., & Levkoff, S. E. (2021). <u>mHealth for pre-exposure prophylaxis adherence by young adult men who have sex with men</u>. *mHealth, 7*, Article 44. doi: 10.21037/mhealth-20-51.

## PLEASE CONTACT STUDY AUTHOR FOR INTERVENTION AND ASSESSMENT MATERIALS.

## **Contact information**

Patricia F. Weitzman, PhD Environment and Health Group Cambridge, MA US

Email: pat.weitzman@gmail.com