

Executive Summary

MedControl Technologies is improving medication adherence in the patient setting. Our first product is an intelligent pill bottle that enables patients to adhere to their prescription regimens and provides security via reminders, identity verification, and restricted access.

Problem

Several forms of non-adherence exist, but they can be summarized by patients not taking their medication as prescribed, leading to significant adverse health effects. They range from oversights including forgetting to take/refill prescriptions and confusion from complex regimens, to progressive abuse, addiction, and overdose. The problem affects all segments of society but is significant among aging populations and those subject to non-medical use and abuse-prone behavior.

A major cause is the lack of oversight, control, and assistance in adhering to prescriptions after they enter the patient's hands. Medicine perpetually goes underused, overused, or otherwise misused until the patient seeks additional or alternative treatment.

Market Opportunity

Medication non-adherence contributes roughly \$300B to the annual U.S. healthcare expenditure. A subset of this problem, prescription drug abuse, addiction, and diversion, cost health insurers nearly \$100B and is a rapidly growing epidemic. MedControl intends to target preventable forgetfulness, an estimated 25% of all cases, and the preventable onset of abuse and addiction. A conservative estimate places this at a \$15B total addressable market.

Solution

MedControl's secure, portable/pocket-sized, patient-specific pill dispensing device requires the patient to scan a fingerprint to access medicine. The device physically restricts access to medicine such that doses can only be received at a prescribed interval. Various alerts including text, call, email, and on-board flashing lights, vibration, and ringtones increase patient engagement and promote adherence.

Wireless communications allow the device to interact with web-servers such that the business extends beyond patient reminders and dispensing to a full service information system including escalated interventions via call centers, adherence monitoring and assessment by users and providers, abuse trend detection, and a variety of other data collection and analysis capabilities.



Competitive Advantage

Unlike currently marketed or emerging medication dispensing devices, MedControl's is technology enabled, portable/compact, bulk-fillable with a wide variety of pill geometries, and patient-specific via biometrics. Other devices contain some of these features that may prevent over or under use, but none do both while being user and pharmacy-operation friendly.

Milestones

- Four issued patents
- Functional prototype
- Regulatory assessment – Class 1 Exempt, No FDA Approval
- \$200K seed funding from founder
- Engaged with clinic to conduct pilot studies and future collaboration

Team

Dave Jasnos, MBA
Co-founder & CEO

Arthur David, MD
Co-founder & Investor

Advisors

Steve Fleck, President & CEO
Proximedics Technologies

Lawrence Dunn, MD
Private Psychiatry Practice