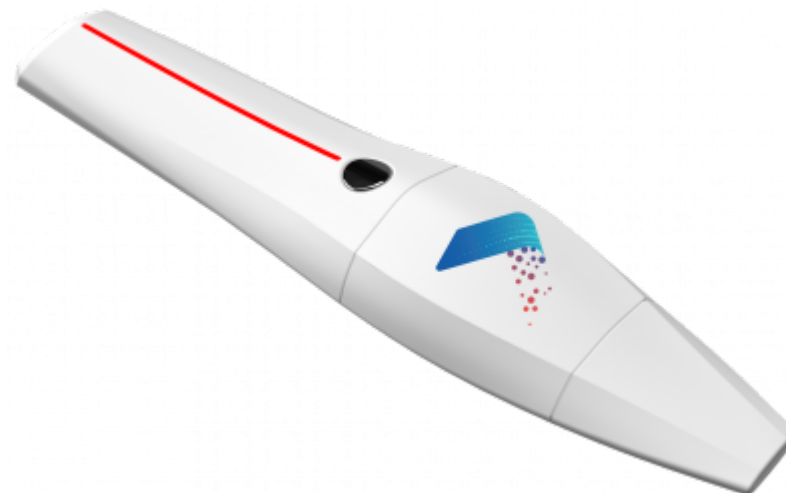




**ZICOH™**

\* P A T E N T E D T E C H N O L O G Y



## Improve Patient Outcomes With ZICOH<sup>®</sup>

ZICOH<sup>®</sup> is an electronic, dose-controlled medication delivery system that works seamlessly through the medication supply chain from the manufacturer to the patient to provide a fully integrated solution to prescription drug abuse. The patented ZICOH<sup>®</sup> device is able to dispense tablets, capsules, or liquids as needed to facilitate patient compliance and provider oversight.

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## ZICOH's Key Features



Prototype only. Not intended for use.



## Dose-controlled Delivery

Program the dosage type, amount, and frequency to be administered according to the health care provider's orders.



## Customizable Security Features

ZICOH® can be programmed with a number of security features, depending on the patient's needs.



## Centralized Database

ZICOH® technology utilizes a unique database software that closes the loop between patients, caregivers, physicians, and pharmacists.



## Registered Device and Cartridges

Each ZICOH® cartridge has unique traceable serial numbers registered to the patient.

## ZICOH's Milestones



May 2020

### Vivera is Granted Allowance of Patent for ZICOH

The U.S. Patent and Trademark Office (USPTO)

August 10, 2021

### ZICOH is Awarded First Patent

The USPTO granted ZICOH technology its first patent (No. 11,083,850), recognizing ZICOH as a dose control-

A

### ZICOH Receives

One week later, ZICOH received a second patent (No. US 11,090,000)

acknowledged that it believed ZICOH qualified for a patent.

controlled medication delivery device

smart inhaler device

## A Patient-Centric Solution to Some of the Nation's Biggest Health Challenges



### The Opioid Crisis

The opioid crisis refers to the increasing number of deaths and hospitalizations resulting from opioid use. Data from the Centers for Disease Control and Prevention (CDC) estimates that over 93,000 people died from a drug overdose in the U.S. in 2020. Many of these deaths involved opioids. With features like dose-controlled delivery, ZICOH<sup>®</sup> makes it nearly impossible to misuse prescription opioids.

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## Medication Nonadherence

According to the World Health Organization (WHO), about 50 percent of patients do not take their medications as prescribed. Research shows that medication nonadherence significantly affects patient outcomes and accounts for a notable portion of treatment failures, deaths, and hospitalizations. ZICOH<sup>®</sup> removes several barriers to medication compliance.

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## Respiratory Illnesses

According to WHO, chronic respiratory diseases, including chronic obstructive pulmonary disease (COPD), account for nearly 8.3 percent of chronic diseases, leading to over 4 million deaths each year. Because of the increased prevalence of respiratory diseases, there is also an increase in the demand for inhalable medications and inhaler devices like ZICOH®.

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## Secure and Easy to Use

The ZICOH® system requires fingerprint access and is programmed according to the provider's orders. Dosage type, amount, and frequency are pre-set by the pharmacist, and the device increases patient compliance and decreases the rate of abuse by providing digital reminders. Providers can monitor patient usage and compliance in real-time, allowing for seamless communication with the patient and enhancing existing treatment protocols.

ZICOH's special cartridges contain proprietary technology that enables the device to identify and access the prescription information for appropriate dosing. ZICOH® and its drug cartridges may only be obtained via prescription from a patient's physician and have unique, traceable serial numbers registered to the patient to ensure patient compliance and mitigate the potential for misuse.

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