

# The bottle that knows you.

A patented smart medication bottle: biometric access, clinician connectivity, verified doses.

## THE PROBLEM

Half of patients with chronic disease do not take medication as prescribed. Non-adherence costs the US health system an estimated \$100B to \$300B a year and is linked to roughly 125,000 deaths. The CDC counted 69,973 US overdose deaths in 2025. Traditional pill bottles offer no protection, no monitoring, and no clinical oversight.

**~50%**

chronic patients  
non-adherent

**\$100-300B**

annual US cost of  
non-adherence

**~125,000**

US deaths linked to  
non-adherence

**69,973**

US overdose deaths  
in 2025 (CDC)

## THE PRODUCT

EMCC opens only for the authorized patient. A biometric finger-point sensor controls access; a secure cloud connection gives clinicians real-time visibility with alerts for missed doses, early openings, and unusual patterns; and clinical trial sponsors get verified dosing data with protocol deviation alerts. No consumer device combines all three. Built for controlled substances, psychiatric medications, and trial drugs. Designed toward FDA Class II device standards with a HIPAA-aligned platform.

## BUSINESS MODEL - ONE DEVICE, FOUR REVENUE STREAMS

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| <b>Device</b>             | Sold to health systems, pharmacies, and trial sponsors.         |
| <b>Clinician platform</b> | Recurring subscriptions for adherence dashboards and alerts.    |
| <b>Trial integration</b>  | Per-study licensing for verified dosing data and secure export. |
| <b>Patent licensing</b>   | The technology is patented; builders license it from EMCC.      |

## WHY EMCC WINS

The core technology is patented. The data loop between bottle, clinician, and sponsor compounds with every deployment. And the regulatory work underway becomes the barrier a fast follower must repeat. Healthcare systems, insurers, and pharmaceutical companies are actively seeking exactly this: technology that reduces risk, improves outcomes, and supports compliance.

## LEADERSHIP

Founded by Dr. James Saint Vrestil, inventor of the biometric smart bottle, working with engineering and go-to-market partners to carry the device from patented prototype through FDA clearance to market.