

## Solving the Problem of Drug Disposal

The U.S. Opioid Epidemic & What DisposeRx is doing to break the chain of illicit opioid access

### THE U.S. Opioid Epidemic:

Leading public health experts forecast that drug overdose is the leading cause of injury and death in the U.S. and that illicit opioid use has the capacity to kill nearly half a million Americans over the next decade. Health and Human Services (HHS) states, "Opioid abuse is a serious public health issue, in the U.S. alone more than 15 million people abuse prescription drugs, which is more than the combined number who reported abusing cocaine, hallucinogens, inhalants and heroin. With nearly 92 million U.S. adults, or 38% of the population, taking legitimately prescribed opioids in 2015, opioid access and illicit diversion have become a dangerous point of initiation into opioid misuse and abuse. Between 2015 and 2016 alone there were over 59,000 overdose deaths that occurred in the U.S., which converts to an average 160 opioid overdose deaths daily, equating to one death every 15 minutes.

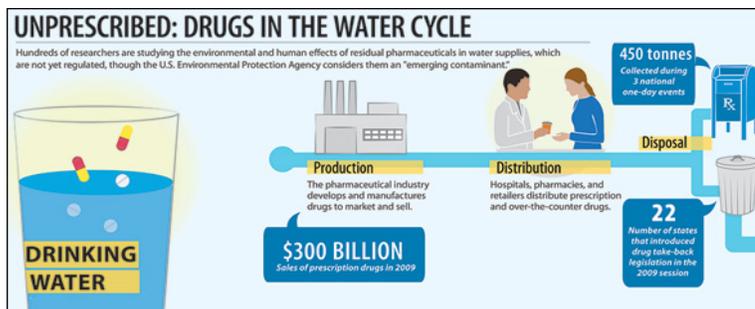
### SCOPE OF THE OPIOID PROBLEM:

A new federal study shows that besides the widespread addiction and overdose concerns, more than one out of three average Americans used a [prescription opioid painkiller](#) in 2015. According to the [National Institute on Drug Abuse](#) 70% of heroin addictions begin in the home medicine cabinet. This initiation into nonmedical opioid use was characterized by three main sources of opioids: family, friends, or personal prescriptions. Subsequently, the statistics on the opioid epidemic are ever evolving; the [CDC](#) reports that the opioid overdose rate is up 33% since 2015, surpassing the HIV/AIDS epidemic numbers of the 1990's.

### The Opioid Epidemic in the U.S.



Source: <sup>1</sup>2015 National Survey on Drug Use and Health (SAMHSA) \*MIMV, 2016: 6950-11 1445-1452 (CDC); <sup>2</sup>Prescription Overdose Data (CDC); <sup>3</sup>Heroin Overdose Data (CDC); <sup>4</sup>Synthetic Opioid Data (CDC); <sup>5</sup>The Economic Burden of Prescription Opioid Overdose, Abuse, and Dependence in the United States, 2013. Florence CS, Zhou C, Liu P, Xu L. Med Care. 2016 Oct;34(10):91-6



Leftover and unused prescription drugs not only result in addictions and overdoses, but when flushed or discarded in the trash, they pollute our ground and drinking water. Drug pollution of the public drinking water supplies of the United States is reported in 24 of 40 national water sources where they measured more than trace drug residuals. Over the last decade, drugs in our rivers, lakes and oceans have been

reported to cause hermaphroditic fish; view the report released by the U.S. Geological Survey on intersex conditions within the [Potomac River](#), to see the devastating results of prescription drug pollution.

What changes are being developed to repress these numbers? Many innovative solutions are being brought to the discussion; reduced opioid prescription access, alternative pain management therapy, controls for acute and chronic prescriptions, collection points for unused or expired medications and most importantly, education. At [DisposeRx, Inc.](#), we believe **solutions must be educational and proactive**, based on patient adherence to positive habit forming prescription drug disposal. Many homes end up with unused or expired prescription and over-the-counter (OTC) medications. These unwanted prescriptions left in our home medicine cabinets often become an easy source for those who abuse prescription medications. We believe that by educating consumers on the importance of prescription drug dispensing, medication compliance and safe medication disposal, we can bring positive change to the way in which all patients manage and dispose of prescription medications.

# DisposeRx™

In the same manner that the [Poison Prevention Packaging Act of 1970](#) legislated child-resistant packaging, we assert that by dispensing easily adaptable and safe disposal solutions at the time of prescription drug dispensing, we can eliminate therapy confusion, and furthermore encourage positive habit-forming prescription drug disposing habits.

## THE SOLUTION and How DisposeRx Solves the Problem of Illicit Drug Access.

[DisposeRx, Inc.](#) ([www.DisposeRx.com](http://www.DisposeRx.com)) has developed a simple and elegant prescription drug disposal solution that both physically and chemically binds medicaments into a permanent and environmentally safe viscous gel. DisposeRx was designed especially for sight-of-use disposal (*the action of medicament disposal within the vial in which the prescription was dispensed*). By uniquely capturing leftover opioids as well as other scheduled drugs safely within the prescription vial, users are able to sequester medicaments, making them inert and unavailable for illicit use. The cross-linking polymer blend is rated a best-in-class solution, embracing safe and easy to understand directions for users. By providing the only prescription drug disposal solution which permanently captures prescription drugs in a non-divertible and biodegradable gel, DisposeRx is able to provide homes and communities with a process where they can effortlessly be a part of the solution, breaking the chain of illicit access and curbing our nation's opioid epidemic.

### DISPOSERX MILESTONES

- Founded 2015
- Chemistry formulated
- Patent-pending
- Expert team
- Certified manufacturing
- Government endorsements

### GOAL

Stopping the opioid epidemic at the home medicine cabinet.

### MISSION

To break the chain of illicit opioid access by securing public safety and building positive disposal habits.

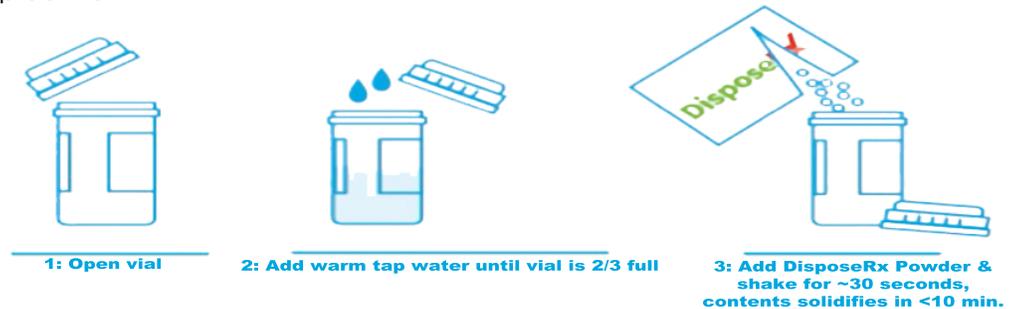
In order to reach our goal we are committed to working with a sense of urgency preventing the cycle of environmental pollution, addiction, overdose and death with a safe, simple and inexpensive prescription drug disposal solution.

### Contact

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Our biodegradable solid is manufactured with components that are safe enough to be eaten. The disposal composition material, when combined with water and medicaments, forms a gel substance of high viscosity that it is not easily pourable, transferable, or mixable, and remains in the container in which it is formed. The medicament is no longer useable and cannot be accidentally used, thus is no longer subject to abuse or environmental leaching. At DisposeRx, our team is focused on "stopping the opioid epidemic at the home medicine cabinet," preventing the cycle of environmental pollution, addiction, overdose and death with our simple to use and safe solution which disrupts the chain of illicit medication access.

### About DisposeRx, Inc.

[DisposeRx](#) is an-anti opioid misuse company which has developed a site-of-use drug disposal solution for unused, unwanted, expired and/or off-therapy prescription medications and other pharmaceuticals. Our solution offers an effective, convenient and inexpensive method for permanent drug disposal that does not enable extraction for diversion or illicit use. Our patent-pending cross-linking polymer technology both chemically and physically sequesters medications into a viscous solution that cannot be solubilized, ultimately empowering users to safely, freely and comfortably dispose of medications.