



# DisposeRx<sup>®</sup>

Solving the problem of drug disposal

# 30 seconds breaks the chain of abuse and pollution!!!

## The problem starts at home; the solution:

DisposeRx has developed a simple to use, in-home disposal solution for unused, unwanted, expired and/or “off-therapy” prescription medications.

Our safe, convenient and inexpensive solution breaks the chain of drug abuse and pollution of landfills and water supplies that begins with leftover medications in the home medicine cabinet.



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- DisposeRx is committed to stopping the opioid epidemic and water pollution that begins at the home medicine cabinet.
- We do this by offering a simple, convenient way to dispose of prescription drugs at home or hospice.
- We are committed to preventing the cycle of, addiction, overdose and death as well as environmental pollution with a simple inexpensive and safe disposal solution.
- DisposeRx is made from generally recognized as safe, non-toxic components that rapidly polymerize into a biodegradable gel when mixed in the prescription vial with drugs and water.

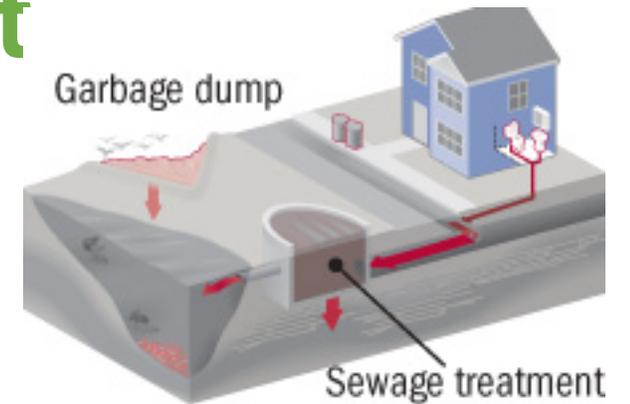


# The urgent need for drug disposal...

- The National Community Pharmacist Association estimates that consumers and health systems throw away on average 250 million pounds of medicine each year.
- Annually, over 4.45 billion prescriptions in 2016 are filled by 67 thousand U.S. pharmacies; 7 out of every 10 Americans take at least one medication, and 40% of these drugs dispensed outside of hospitals are unused.
- **Unused and expired medications are a significant source of both safety and environmental problems**, and their improper disposal from home medicine cabinets, managed care facilities, hospitals and hospice care facilities has dramatically contributed to the opioid epidemic, accidental poisonings, drug overdoses **and the pollution of our nation's public drinking water.**

# Environmental and Societal Impact

- The [Washington Post](#) reports a survey revealing that 85% of Potomac River male small-mouth bass have "characteristics of the opposite sex".
- U.S. Geological Survey found measurable amounts of one or more medications in 80% of the water samples drawn from a network of 139 streams in 30 states.
- Seattle's Puget Sound mussels: In three of the 18 locations, the mussels tested positive for trace amounts of oxycodone (CBS news).
- Environmental Protection Agency: 50 wastewater treatment plants were tested for 56 drugs including oxycodone, high-blood pressure medications, and over-the-counter drugs like Tylenol and ibuprofen. More than half the samples tested positive for at least 25 of the drugs
- Maine found surprisingly high concentrations of pharmaceuticals in landfill leachate —raising the potential for eventual ground and surface water contamination
- Millions of us are flushing unused medications down the toilet and discharging them in our body waste—even though **sewage treatment plants and septic systems were never designed to deal with such contaminants**



# How to get rid of leftover pharmaceuticals

- **Take-back programs and kiosks** (poorly complied with, expensive, subject to diversion and polluting upon incineration)
- **Mail-in pouches** (easily diverted, expensive, and pollution with incineration)
- **Flushing and throwing in household trash** with or without kitty litter, etc. (severely polluting landfills and water supplies)
- **Site-of-use disposal**: e.g. home or hospice (convenient, inexpensive, permanent, safe, non-polluting)

# How DisposeRx Works

DisposeRx is a proprietary blend of cross-linking polymer powders that permanently captures unwanted prescription drugs in a non-toxic, non-divertible and biodegradable viscous gel. Components of our patent-pending blend are listed by the FDA as generally recognized as safe or non-toxic.



Drugs sequestered in DisposeRx biodegradable material rapidly biodegrade (right)



## Easy as...



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# DisposeRx Testing

- **Retrievability Testing:** It is impracticable to extract measurable levels of opioids and other drugs treated in the DisposeRx gel matrix. It “provides a superior means of disposing pharmaceutical drugs, compared to traditional means such as discarding medicine in the trash or flushing it down the toilet, both of which pose significant public safety risks.” *National Medical Services (NMS) Forensic Labs*
- **Biodegrade:** DisposeRx treated drugs rapidly biodegrade from the growth of bacteria and molds in the organic components of the product.

Drugs dissolved in our patented viscous gel become permanently trapped in a cross-linking, biodegradable polymer matrix.

- **Toxicity Characteristic Leaching Procedure (TCLP):** “Based on comparison to Chapter 7 of the EPA Hazardous Waste Test Methods/SW-846, **no hazardous levels of teachable VOCs or metals are indicated for the DisposeRx product.**” - *Elemental Analysis, KY*
- **CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay:** This test demonstrated that DisposeRx is not a hazardous waste under the state of California criteria. *Acquatic Testing Labs, CA*
- **96-Hour Static Washington State Hazardous Waste Regulation Bioassay:** Designated DisposeRx as not dangerous waste according to Dangerous Waste Regulation, Ch. 172-303 WAC. *Test America, WA*
- **Pill Degradation Study:** Examined tablet dissolution in DisposeRx; showed medications could NOT be retrieved from our gel. *NMS Labs, Pennsylvania*



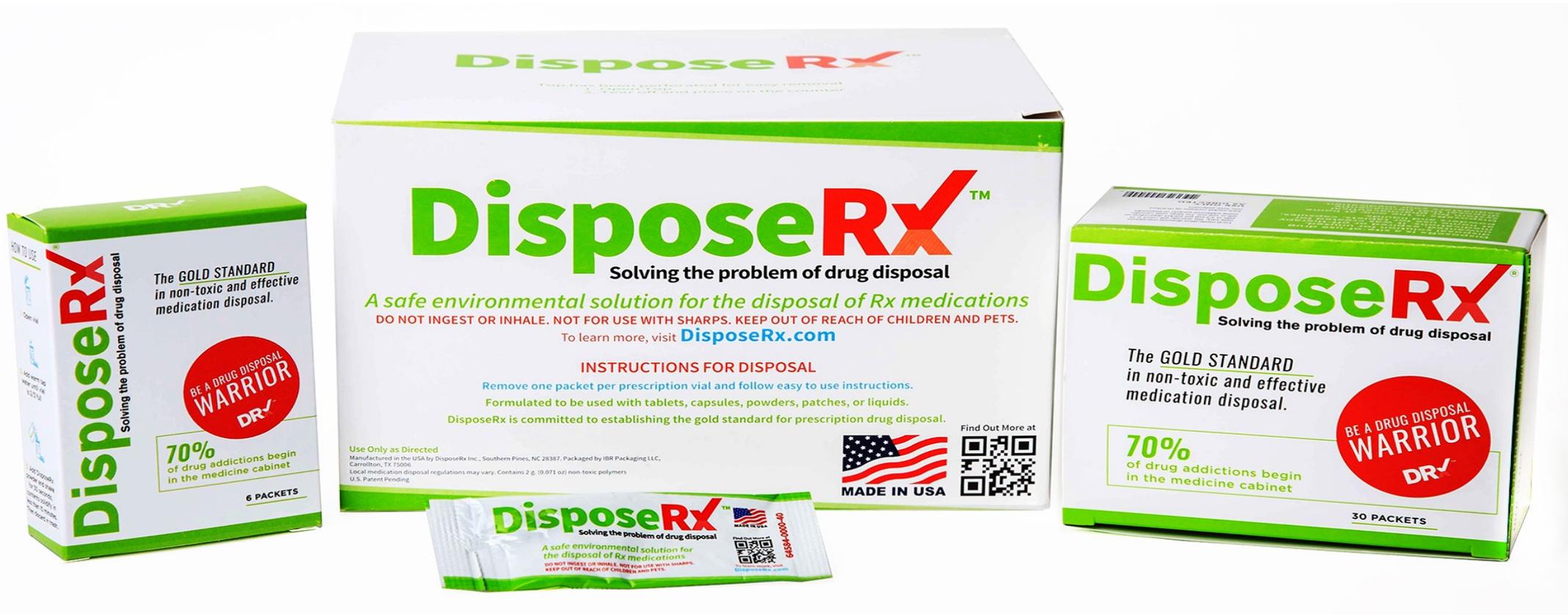
Humana.



THE KROGER CO. FAMILY OF PHARMACIES



MCKESSON



# Thank you

[www.disposeRx.com](http://www.disposeRx.com)

6502 Hillmead Rd.  
Bethesda, MD 20817  
T/ (844) 456-1600