

RIDRx

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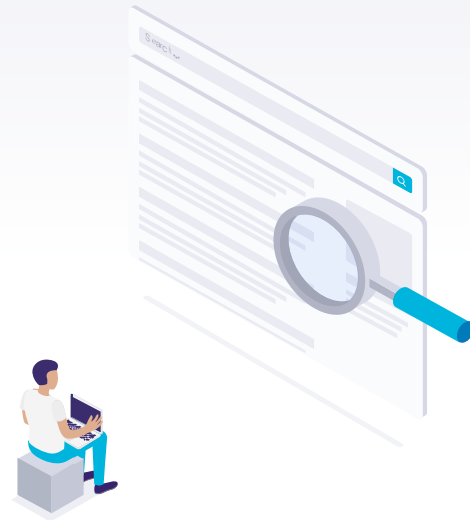
Outline

1. Introduction
2. Current Options for Drug disposal
3. Our Solution: RidRx
4. Other Recommendations
5. Data Transmission
6. Challenges
7. Next Steps



1

Introduction



Public Health Safety Risks

- ❖ Diversion and identity theft
- ❖ Children and pet poisoning
- ❖ Drug abuse
- ❖ Environmental risks



2

Current Options for Drug disposal

Dispose medications here!

CVS Disposal Drop Box



Walgreens Disposal Kiosks



DEA Controlled Substance Disposal Locations

Permanent Collection Locations and Sites



OUR TARGET: RAISING AWARENESS

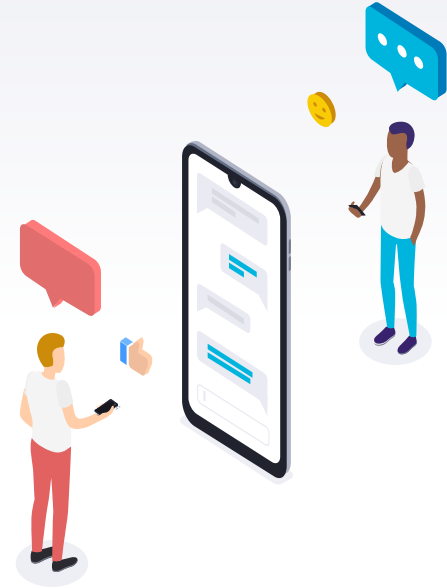


Raising awareness and streamlining available resources concerning proper and safe disposal of unused, unwanted, or expired medications.



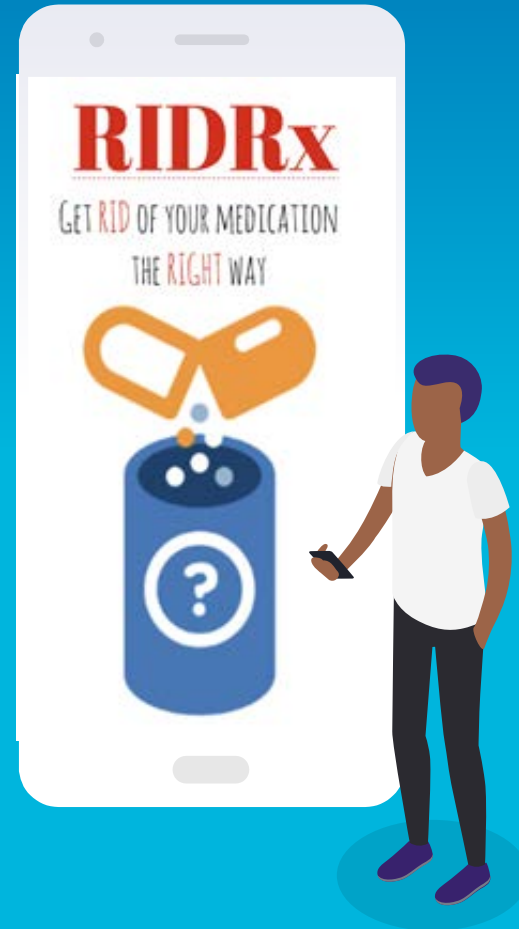
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Our Solution

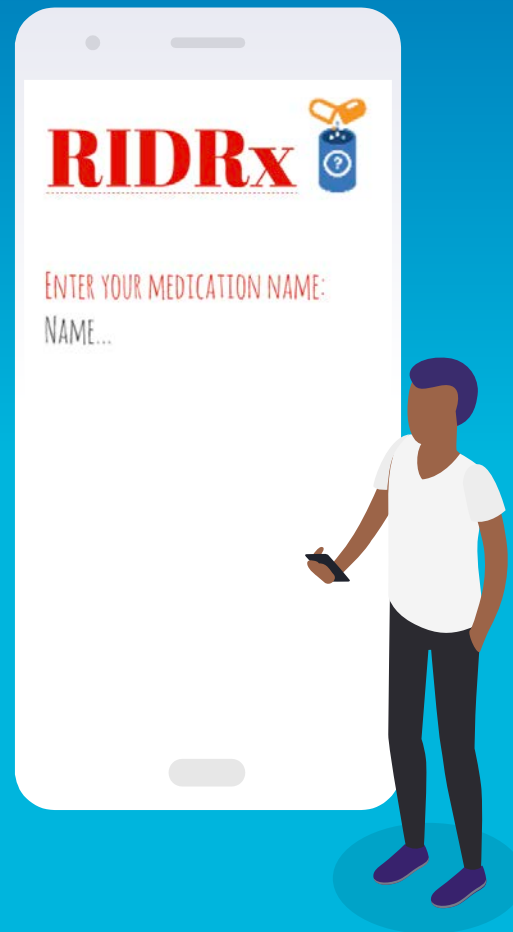


The App: RIDRx

The phone app that helps you get RID of your medications the RIGHT way.



The App: RIDRx



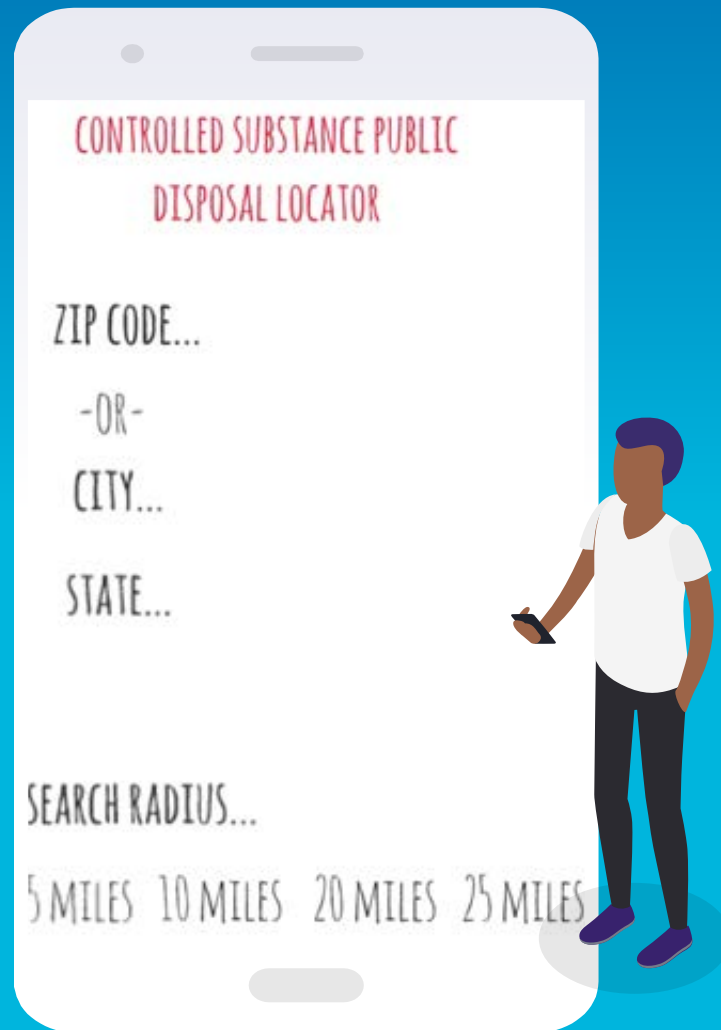
Incorporating the FDA Flush List

Active Ingredients	Found in Brand Names (Click links to view medicine instructions)
Benzhydrocodone/ Acetaminophen	Apadaz
Buprenorphine	Belbuca, Bunavail, Butrans, Suboxone, Subutex, Zubsolv
Diazepam	Diastat/ Diastat AcuDial rectal gel
Fentanyl	Abstral, Actiq, Duragesic, Fentora, Onsolis
Hydrocodone	Anexsia, Hysingla ER, Lortab, Norco, Reprexain, Vicodin, Vicoprofen, Zohydro ER
Hydromorphone	Dilaudid, Exalgo
Meperidine	Demerol
Methadone	Dolophine, Methadose
Methylphenidate	Daytrana transdermal patch system
Morphine	Arymo ER, Embeda, Kadian, Morphabond ER, MS Contin, Avinza
Oxycodone	Combunox, Oxaydo (formerly Oxecta), OxyContin, Percocet, Percodan, Roxicet, Roxicodone, Xartemis XR, Xtampza ER, Roxybond
Oxymorphone	Opana, Opana ER
Sodium Oxybate	Xyrem oral solution
Tapentadol	Nucynta, Nucynta ER

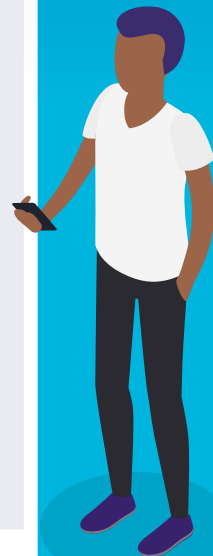
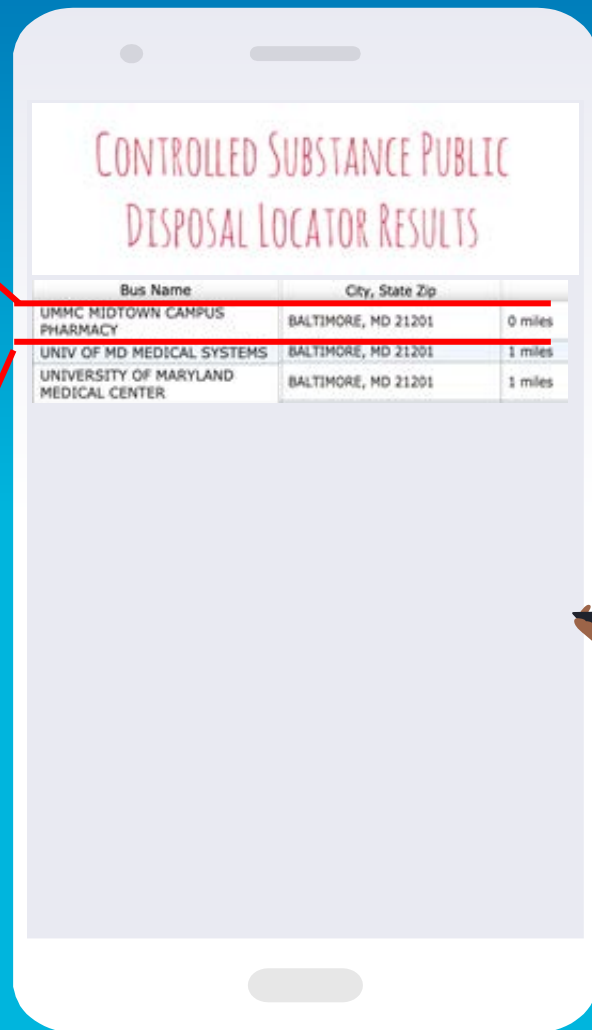


Includes DEA disposal Locator

The phone app that
helps you get RID of
your medications the
RIGHT way.

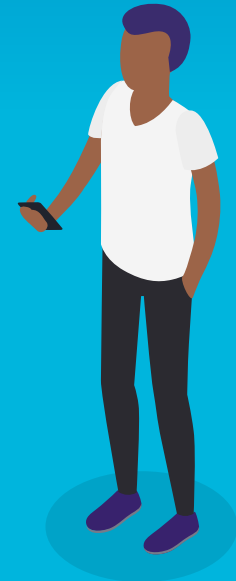


Bus Name	Addr 1
UMMC MIDTOWN CAMPUS PHARMACY	821 N EUTAW ST
UNIV OF MD MEDICAL SYSTEMS	22 SOUTH GREENE STREET
UNIVERSITY OF MARYLAND MEDICAL CENTER	11 SOUTH PACA STREET
THE JOHNS HOPKINS HOSPITAL	601 N CAROLINE ST
JOHNS HOPKINS OUTPATIENT PHARMACY AT THE ARCADE	ZAYED-BLOOMBERG BUILDING, M2125
THE JOHNS HOPKINS HOSPITAL	1717 E MONUMENT ST
MARYLAND CVS PHARMACY, L.L.C.	630 EXETER ST.
City, State Zip	Dist
BALTIMORE, MD 21201	0 miles
BALTIMORE, MD 21201	1 miles
BALTIMORE, MD 21201	1 miles
BALTIMORE, MD 21287	2 miles
BALTIMORE, MD 21287	2 miles
BALTIMORE, MD 21287	2 miles
BALTIMORE, MD 21202	2 miles



Home Medication Disposal Guide

How to safely dispose medications when dropping it off is not an option



4

Adding Labels



In addition...

Propose for FDA to work with the pharmaceutical companies to include Rx app in the package insert as well as the prescription bag label given at the pharmacies.

RITALIN-SR Package Insert

How should I store RITALIN-SR?

- Store RITALIN-SR in a safe place and in a tightly closed container at room temperature between 68°F to 77°F (20°C to 25°C).
- Protect from moisture.
- Dispose of remaining, unused, or expired RITALIN by a medicine take-back program at authorized collection sites, such as retail pharmacies, hospital or clinic pharmacies, and law enforcement locations. If no take-back program or authorized collector is available, mix RITALIN with an undesirable, nontoxic substance, such as dirt, cat litter, or used coffee grounds to make it less appealing to children and pets. Place the mixture in a container, such as a sealed plastic bag and throw away (discard) RITALIN in the household trash.
- **Keep RITALIN-SR and all medicines out of the reach of children.**

This information should be added right under storage information

How should I dispose unused Ritalin -SR?

- *Download RIDRx app from Google or Apple Play Stores for complete disposal information*



Prescription Bag Label

❖ Add information about the RIDRx app.

it, or to other H2 blockers (e.g., cimetidine, famotidine); or if you have any other allergies. This product may contain inactive ingredients, which can cause allergic reactions or other problems. Talk to your pharmacist for more details. Before using this medication, tell your doctor or pharmacist your medical history, especially if: a certain blood disorder (porphyria), immune system problems, kidney problems, liver problems, lung diseases (e.g., asthma, chronic obstructive pulmonary disease-COPD), other stomach problems (e.g., tumors). Some symptoms may actually be signs of a more serious condition. Get medical help right away if you have: heartburn with left-sided chest pain, chest/jaw/arm/shoulder pain (especially with shortness of breath, unusual sweating), unexplained weight loss. This liquid product may contain alcohol. Caution is advised if you have diabetes, alcohol dependence or liver disease. Ask your doctor or pharmacist about the safe use of this product. Older adults may be more sensitive to the side effects of this drug, especially confusion. Ranitidine should be used only when clearly needed during pregnancy. Discuss the risks and benefits with your doctor. Ranitidine passes into breast milk. Consult your doctor before breast-feeding.

DRUG INTERACTIONS:

Drug interactions may change how your medications work or increase your risk for serious side effects. This document does not contain all possible drug interactions. Keep a list of all the products you use (including prescription/nonprescription drugs and herbal products) and share it with your doctor and pharmacist. Do not start, stop, or change the dosage of any medicines without your doctor's approval. Some products need stomach acid so that the body can absorb them properly. Ranitidine decreases stomach acid, so it may change how well these products work. Some affected products include atazanavir, dasatinib, delavirdine, certain azole antifungals (such as itraconazole, ketoconazole), pazopanib, among others. Do not use this medication with other products that contain ranitidine or other H2 blockers (cimetidine, famotidine, nizatidine). This medication may interfere with certain laboratory tests (including certain urine protein tests), possibly

OVERDOSE:

If someone has overdosed and has serious symptoms such as passing out or trouble breathing, call 911. Otherwise, call a poison control center right away. US residents can call their local poison control center at 1-800-222-1222. Canada residents can call a provincial poison control center. Symptoms of overdose may include difficulty walking, severe dizziness/fainting.

NOTES:

Do not share this medication with others. Lifestyle changes such as stress reduction programs, stopping smoking, limiting alcohol, and diet changes (such as avoiding caffeine and certain spices) may help this medication work better. Talk to your doctor or pharmacist about lifestyle changes that might benefit you. Laboratory and/or medical tests (e.g., endoscopy, kidney function tests) may be performed to monitor your progress or check for side effects. Consult your doctor for more details.

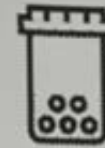
MISSED DOSE:

If you miss a dose, take it as soon as you remember. If it is near the time of the next dose, skip the missed dose and resume your usual dosing schedule. Do not double the dose to catch up.

STORAGE:

Store in a tightly closed, light-resistant container away from moisture and sunlight. Consult your pharmacist or the product label for proper

©2017, Ranitidine (Zantac) 200 mg

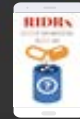


Take. Secure. Dispose.

3 easy steps to handle commonly abused prescription drugs safely and responsibly.

Learn more at
[CVS.com/prescription-drug-abuse](https://www.cvs.com/prescription-drug-abuse)

Download



Pharmacy Advice*

The dose schedule contains your pharmacy's recommendation on the best time to take this medication, taking into account other medications you have received from CVS Pharmacy. It does not take into account medications you are receiving from other pharmacies. This recommendation may change if you add or stop taking other medications after 3:30 PM. If you have questions about your medication or whether they can be taken at another time, please consult your pharmacist.



Tarik, access your Prescription Center

Easily refill, view drug information and set medication reminders with the mobile app.

1. Download the app. 2. Scan your personal barcode below or on your bottle with the CVS app to get started.



5

Data Transmission



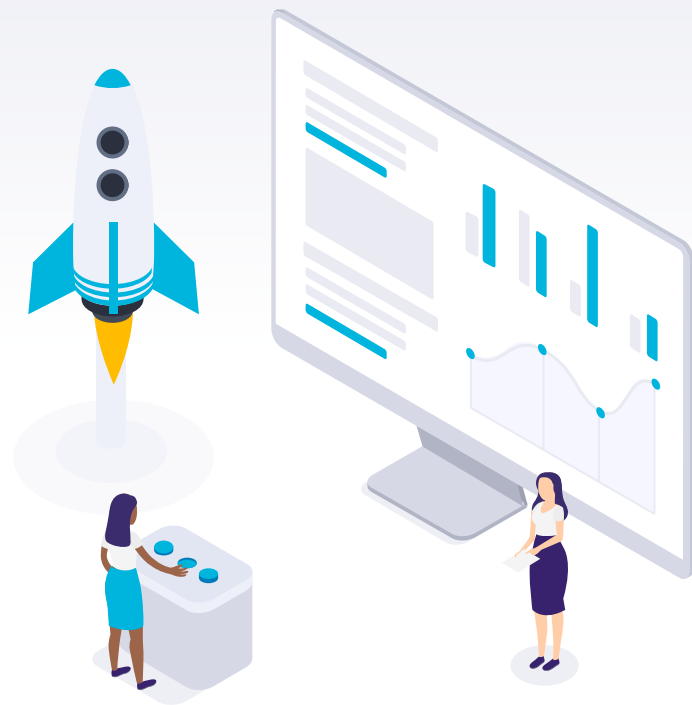
▶ Your data is safe!




- ❖ HIPPA does not protect data generated by patients on personal electronic devices.
- ❖ Data generated fromRIDRxwill not be transmitted.

6

Challenges



- 
- ❖ Inaccessibility of the app
 - ❖ Funding for developing the app
 - ❖ Additional costs for app development
 - ❖ To begin the initiative with FDA and Sponsors to add disposal information on all package inserts

7

Next Steps



Mitigate other causes of lack of disposal

- ❖ Coordinate with mail delivery services for home pickups
- ❖ Tamper proof take back packages
- ❖ Efforts should be made to collaborate with mail delivery services in the future to create an effective home pick-up program to help mitigate other causes of inability to get to drug disposal allocations



Conclusion

- ❖ RIDRx: Streamlining safe medication disposal resources into one location:
 - FDA approved drug take back locations
 - Medication disposal tips
 - FDA Flush List
- ❖ Creating awareness through package insert and prescription bag labels
- ❖ Mitigating of public health risk

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THANKS!

Any questions?

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