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
Introduction
Public Health Safety Risks

- Diversion and identity theft
- Children and pet poisoning
- Drug abuse
- Environmental risks
Current Options for Drug disposal
Dispose medications here!

CVS Disposal Drop Box

Walgreens Disposal Kiosks

DEA Controlled Substance Disposal Locations
Raising awareness and streamlining available resources concerning proper and safe disposal of unused, unwanted, or expired medications.
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**

<table>
<thead>
<tr>
<th>Active Ingredients</th>
<th>Found in Brand Names (Click links to view medicine instructions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzhydrocodone/ Acetaminophen</td>
<td>Apadaz</td>
</tr>
<tr>
<td>Buprenorphine</td>
<td>Belbuca, Bunavail, Butrans, Suboxone, Subutex, Zubsof</td>
</tr>
<tr>
<td>Diazepam</td>
<td>Diastat/ Diastat AcuDial rectal gel</td>
</tr>
<tr>
<td>Fentanyl</td>
<td>Abstral, Actiq, Duragesic, Fentora, Onsolis</td>
</tr>
<tr>
<td>Hydrocodone</td>
<td>Anexia, Hyzyn ER, Lortab, Norco, Reprexain, Vicodin, Vicoprofen, Zohydrg ER</td>
</tr>
<tr>
<td>Hydromorphone</td>
<td>Dilaudid, Exalgo</td>
</tr>
<tr>
<td>Meperidine</td>
<td>Demerol</td>
</tr>
<tr>
<td>Methadone</td>
<td>Dolophine, Methadose</td>
</tr>
<tr>
<td>Methylenphenidate</td>
<td>Daytrans transdermal patch system</td>
</tr>
<tr>
<td>Morphine</td>
<td>Arymo ER, Embeda, Kadian, Morphabond ER, MS Contin, Avinza</td>
</tr>
<tr>
<td>Oxycodone</td>
<td>Combunox, Oxydo (formerly Oxecta), OxyContin, Percocet, Percodan, Roxicet, Roxicodone, Xartemis XR, Xtpopa ER, Roxybond</td>
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<tr>
<td>Oxymorphone</td>
<td>Opana, Opana ER</td>
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<tr>
<td>Sodium Oxybate</td>
<td>Xyrem oral solution</td>
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<tr>
<td>Tapentadol</td>
<td>Nucynta, Nucynta ER</td>
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</table>
Includes DEA disposal Locator

The phone app that helps you get RID of your medications the RIGHT way.
<table>
<thead>
<tr>
<th>Bus Name</th>
<th>Addr 1</th>
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<tbody>
<tr>
<td>UMMC MIDTOWN CAMPUS PHARMACY</td>
<td>821 N EUTAW ST</td>
</tr>
<tr>
<td>UNIV OF MD MEDICAL SYSTEMS</td>
<td>22 SOUTH GREENE STREET</td>
</tr>
<tr>
<td>UNIVERSITY OF MARYLAND MEDICAL CENTER</td>
<td>11 SOUTH PACA STREET</td>
</tr>
<tr>
<td>THE JOHNS HOPKINS HOSPITAL</td>
<td>601 N CAROLINE ST</td>
</tr>
<tr>
<td>JOHNS HOPKINS OUTPATIENT PHARMACY AT THE ARCADE</td>
<td>ZAYED-BLOOMBERG BUILDING, M2125</td>
</tr>
<tr>
<td>THE JOHNS HOPKINS HOSPITAL</td>
<td>1717 E MONUMENT ST</td>
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<tr>
<td>MARYLAND CVS PHARMACY, L.L.C.</td>
<td>630 EXETER ST.</td>
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<table>
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<th>Dist</th>
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<td>BALTIMORE, MD 21202</td>
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</tbody>
</table>
Home Medication Disposal Guide

How to safely dispose medications when dropping it off is not an option.
Adding Labels
In addition...

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

How should I dispose unused Ritalin-SR?

- Download RIDRx app from Google or Apple Play Stores for complete disposal information.
Add information about the RIDRx app.
Data Transmission
Your data is safe!

- HIPPA does not protect data generated by patients on personal electronic devices.
- Data generated from RIDRx will not be transmitted.
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
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 locations
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
References:


Acknowledgments

Special thanks to all the people who supported and mentored us throughout this process.

- **FDAMentor:** Roberta Glass, MD, Senior Medical Officer, Division of Psychiatry, Center for Drug Evaluation and Research, FDA
- **UMB Mentor:** James Polli, PhD, Professor of Pharmaceutical Sciences, University of Maryland, Baltimore
THANKS!

Any questions?

Please do not hesitate to contact us:

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