



[Pharmaceutical Waste: Disposing of Unwanted Medications](#)

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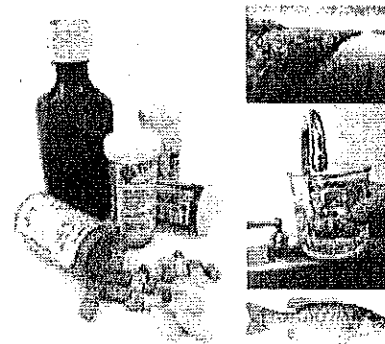
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Pharmaceutical Waste: Disposing of unwanted medications

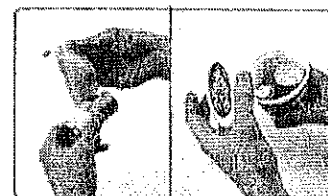
Expired or unwanted prescription or over-the-counter medications from households have traditionally been disposed of by flushing them down the toilet or a drain. Although this method of disposal prevents immediate accidental ingestion, it can cause pollution in wastewater, which has been demonstrated to cause adverse effects to fish and other aquatic wildlife. When the water is eventually reused, it can also cause unintentional human exposure to chemicals in medications.



Disposing of medications at home

Your unwanted medications may be disposed of in your trash. Follow these precautions to prevent accidental or intentional ingestion.

1. **Keep the medication in its original container.** The labels may contain safety information and the caps are typically childproof. Leaving the content information clearly visible, scratch the patient's name out or cover it over with permanent maker.
2. **Modify the contents to discourage consumption.**
 - o **Solid medications:** add a small amount of water to pills or capsules to at least partially dissolve them.
 - o **Liquid medications:** add enough table salt, flour, charcoal, or nontoxic powdered spice, such as turmeric or mustard to make a pungent, unsightly mixture that discourages anyone from eating it.
 - o **Blister packs:** wrap packages containing pills in multiple layers of opaque tape like duct tape.
3. **Seal and conceal.** Tape the medication container lid shut with packing or duct tape and put it inside a non-transparent bag or container such as an empty yogurt or margarine tub to ensure that the contents cannot be seen.
4. **Discard the container in your garbage can**—do **not** place in the recycling bin. Do not conceal medicines in food products because they could be inadvertently consumed by wildlife scavengers.



Managing other types of pharmaceutical waste

Unused ampoules, vials, and IV bags should not be opened (other than to scratch out the patient's name). Wrap the container with tape to minimize breakage, then place in an opaque plastic container (such as an empty yogurt or margarine tub). Wrap the outside of the container or bag with additional duct or shipping tape to prevent leakage and further obscure the contents. Dispose of the container in the trash.

Chemotherapy drugs may require special handling. Work with your healthcare provider on proper disposal options for this type of medication.

Other resources

- [U.S. Geological Survey](#) research on the presence of pharmaceuticals in the environment.
- [U.S. Environmental Protection Agency](#) information on the potential environmental impacts of pharmaceuticals.