

Household Pharmaceutical Waste

The Problem with Household Pharmaceutical Waste

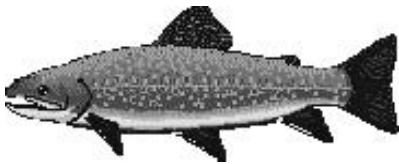
Unwanted or expired medications are often a common sight in the medicine cabinet. Whether they are over the counter or prescription, having unwanted medications in the household can pose the risk of accidental ingestion, especially in children.



Traditionally, unused medications have been disposed of by flushing them down the toilet or pouring them down the sink. This method however, can lead to environmental pollution. Because most wastewater treatment plants and septic systems are not designed to remove pharmaceuticals and their related compounds, they can eventually make their way into rivers and groundwater.

A national study by the U.S. Geological Survey (USGS) in 2000, found the presence of a class of pollutants which includes pharmaceuticals, in 80 percent of the streams they sampled.

Several new studies have also shown that this type of pollution can potentially impact aquatic wildlife. In one study, scientists in Colorado discovered a link between a type of pharmaceutical compound found in a local stream and changes in the reproductive characteristics of the fish there. The potential for human exposure also exists when the water is eventually reused.



Household Pharmaceutical Waste Disposal



Methods of disposal for unused and unwanted pharmaceuticals are currently very limited. Disposal programs at the state and local levels are only in the beginning stages of development as are pharmacy medication take back programs.

Presently, the best method for disposing of your medications is to throw them out in your regular household trash. Today's landfills are constructed to meet strict environmental regulations that prevent the release of contaminants into the environment.



Eleven offices along the front range serving the residents of Adams, Arapahoe and Douglas Counties
Administration Office: 7000 East Belleview Avenue, Suite 301 • Greenwood Village, Colorado 80111 •
Telephone: 303-220-9200 • Fax: 303-220-9208
Website: www.tchd.org

Take the following steps before placing unused, unneeded, or expired medications in the trash:

1) Remove the pharmaceuticals from their original containers.

Place them in non-descript containers such as a coffee can or margarine tub, to conceal the medication.

2) Alter the medication.

>Pills and capsules: pour enough water into the container to dissolve them.

>Liquid medications: mix in flour, table salt, charcoal, kitty litter or even non toxic pungent spices to deter anyone from consuming it.

3) Throw it out.

Place the medication directly in the trash can as close to your garbage pickup time as possible.



Additional Resources:

- **Tri-County Health Department** at www.tchd.org or call (303) 846-6249
- **U.S. Geological Survey (USGS)** info. on pharmaceuticals in the environment: <http://toxics.usgs.gov/regional/emc/>
- **U.S. Environmental Protection Agency (EPA)** info. on pharmaceuticals in the environment: <http://www.epa.gov/nerlesd1/chemistry/pharma/faq.htm>