Proper Disposal of Medications and Supplies

TXCH Global HOPE



CANCER AND
HEMATOLOGY CENTERS

Objectives

By the end of this presentation, the participant should be able to:

- Define the term, pharmaceutical waste
- Identify best practices for pharmaceutical waste
- Formulate a plan for disposing pharmaceutical waste in your pharmacy



Defining Pharmaceutical Waste

- Pharmaceutical waste is any medication which is leftover or unused and must be discarded
 - Whole, part, or residual amounts of medications
- Pharmaceutical waste does NOT include
 - Regular trash
 - Bio-hazardous waste (blood, body fluids, contaminated materials)
 - Controlled substances
 - Sharps
 - IV solutions with no medication added



Managing Waste

- All disposable items (e.g. syringes, gloves, gowns, needles, excess drug) must be disposed in specifically designated containers
- These containers should meet local/countryspecific regulations for hazardous and nonhazardous medical waste
- Disposal of hazardous waste containers will be managed by a waste vendor

Hazardous Pharmaceutical Waste

Environmentally hazardous medications

- Chemotherapy
- Syringes, needles, CSTDs used to prepare chemo
- Other drugs: warfarin, nicotine, physostigmine
- Black containers

Hazardous PPE

Yellow containers

Excludes PPE from arsenic preparation or saturated contaminated PPE (which is black)







Hazardous Pharmaceutical Waste

Aerosols and Inhalers

Green list items

Corrosives

Red list items

Oxidizers

Yellow list items



Non-Hazardous Pharmaceutical Waste

Needles, broken glass, empty or broken ampoules

Including those used for hazardous medication preparation

Base IV solutions

• NS, D5W, LR

Non-hazardous medications

 Pharmaceuticals (vials and syringes with residual medication) without a waste code



Empty IV bags, tubing, most medication wrappers

Excludes black bin products (warfarin, etc.)



Example Waste Poster



DIB = Dispose in Black | PDIB = Package & Dispose in Black | DIB-LP = Dispose in Black PRTP = Package & Return to Pharmacy for Disposal in separate black containers with colored labels (PRTP=Aerosol [Green], PRTP-C=Corrosive [Red], PRTP-O=Oxidizer [Yellow])







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General Overview for PHO Pharmacies

Yellow or black

- Chemotherapy
- PPE

Red/sharps (non-hazardous)

- Needles (or needles with attached syringes) used to prepared non-chemo drugs
- Non-chemo ampoules (e.g., promethazine, gentamicin)

Sink

• NS, D5W, LR that needs to be disposed of/drained (empty bag goes in the trash

Trash

• Paper boxes which contain vials, unit-dose tablets



What's Next?

- Review the supplemental materials on the Moodle site
 - Drugs by disposal code/color
- Prepare for discussion:
 - What rules and regulations exist in your setting?
 - What challenges or issues do you need to address to improve waste management in your pharmacy?
- Complete the practice questions



Global HOPE Pharmacy Education



