

Hazardous Waste Management: College of Dental Medicine



Training Outline

- No drain disposal
- Hazardous Materials Management
 - 5 L's Rule
 - Hazardous Dental Waste
 - Amalgam, Capsules, Teeth
 - Chair Side Traps & Lead Foils
 - Aerosol Cans
 - Used Batteries & Lamps
 - X-ray Film & Silver Recovery
 - Pharmaceutical waste
 - Sharps

EMS Policy: No Drain Disposal


No Drain Disposal Policy

All waste must be collected for safe and proper disposal through EH&S.



Hazardous Materials Management: 5 L's Rule

- coLLect
- Label
- Lid
- Locate
- Leaks



 COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK

ENVIRONMENTAL HEALTH AND SAFETY

Hazardous Waste Management Overview

The Five L's

- CoLLect
- Label
- Lid
- Locate
- Leaks



CoLLect

- CoLLect all hazardous chemical waste and submit a chemical waste pick-up request form for proper disposal.
- Periodically evaluate your chemical inventory, coLLecting chemicals for disposal that are unwanted, expired or have no intended use.
- If you are unsure if your chemical waste is a Hazardous Waste, consult EH&S at [hazmat@columbia.edu](mailto: hazmat@columbia.edu).
- **DONOT** - Dispose of Hazardous Waste inappropriately or prior to determining its hazards. Hazardous Waste must never be poured down the drain.

Label

- Label the container as soon as you start collecting waste by affixing a completed Chemical/Hazardous Waste label.
- List all of the Waste components on the Label.
- **DONOT** - Use chemical formulae or abbreviations on Hazardous Waste Labels.

Lid

- Keep a closed, tight-fitting Lid on Hazardous Waste containers *at all times*, except when actively adding or removing waste.
- Use a closeable, tight fitting Lid that will prevent the Hazardous Waste from spilling should the container be knocked over.
- Waste containers attached to equipment with waste lines or tubing, including HPLC machines, must have a snug fitting cap. Contact EH&S at [hazmat@columbia.edu](mailto: hazmat@columbia.edu) for specialty caps.
- **DONOT** - Leave a funnel in a Hazardous Waste container.

Locate

- Locate Hazardous Waste containers at or near the point of the Hazardous Waste's generation (a.k.a. Satellite Accumulation Area).
- **DONOT** - Locate Hazardous Waste containers outside of the room in which the waste was generated.

Leaks

- Inspect Satellite Accumulation Areas weekly for Leaks.
- **DONOT** - Allow Leaking containers to remain in Satellite Accumulation Areas. Contact EH&S upon discovering the leak.

When a waste container is 90% full, submit a Chemical Waste Pick-up Request Form by visiting:
<http://vesta.cumc.columbia.edu/ehs/wastepickup/>

Hazardous Materials Management: Waste Management

Types of Hazardous Dental Waste

- Amalgam and capsules
- Chair side traps
- Lead Foil
- Extracted Teeth
- Aerosol Cans
- Batteries
- Sharps
- Chair Side Lamps
- X-ray Film
- Silver Recovery Units
- Pharmaceutical waste
 - lidocaine & marcaine carpules

Hazardous Materials Management: Amalgam & Capsules

- Designated collection containers are found at each station utilizing amalgam
- Amalgam and capsules must be collected in these containers
- Once the chair side containers are full, they must be poured into the 5-gallon pre-labeled amalgam container located on each floor in VC



Hazardous Materials Management: Amalgam & Teeth

ALL extracted teeth, including those containing amalgam, must be placed in non-hazardous waste containers along with a 10% bleach solution



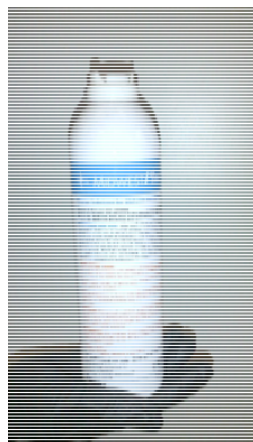
Hazardous Materials Management: Chair Side Traps & Lead Foils

Must be collected after use and placed into the designated 5-gallon or 1-gallon non-hazardous waste containers located on each floor

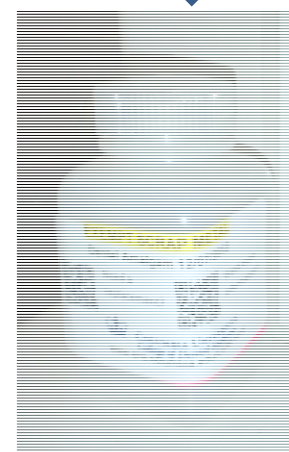
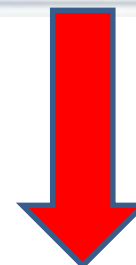
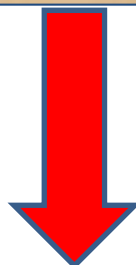
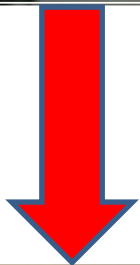


Hazardous Materials Management: Aerosol Cans

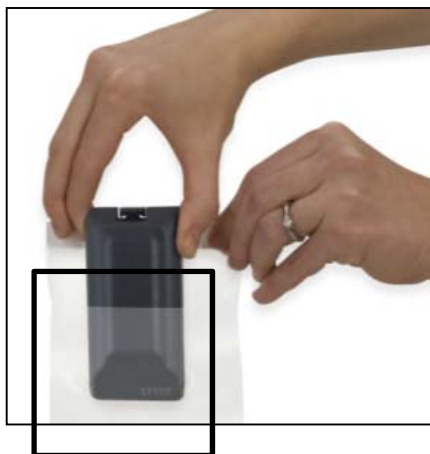
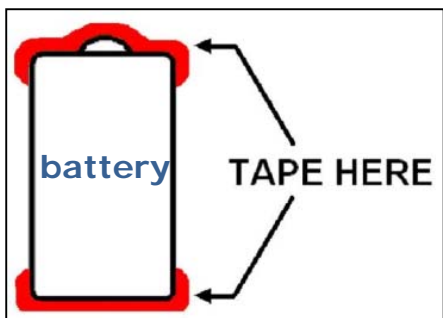
Aerosol cans, even if empty, must have the original cap placed on the can or the nozzle removed



1st Waste Review



Hazardous Materials Management: Used Batteries



Or



**Battery Bin Location:
Presbyterian Hospital
8th Floor**

No wet chemistry batteries

Hazardous Materials Management: Used Lamps

- Chair Lamps and Other Fluorescent Lamps
 - All lamps are recycled due to Mercury content
 - VC 7&8- Contact Iris for disposal
 - Place online pickup request for all other CODM locations



Hazardous Materials Management: X-Ray Film & Silver Recovery

Silver recovery units
must be affixed to every
processor

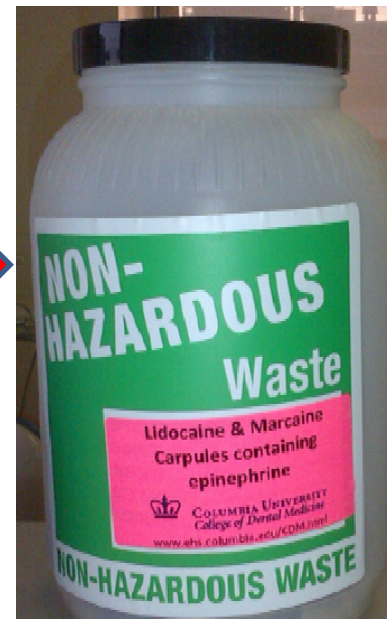


Used, unused and
expired films must be
collected for recycling



Hazardous Materials Management: Pharmaceutical Waste

- Epinephrine containing carpules (Empty or Full)
 - Including maricaine and lidocaine solution
 - Must be collected in non-hazardous waste containers, when unused
 - Empty containers may be discarded in RMW

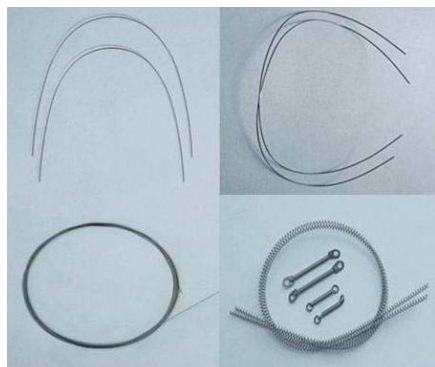


Hazardous Materials Management: Pharmaceutical Waste

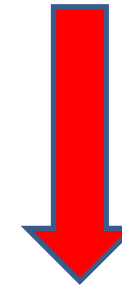
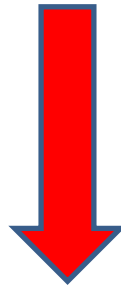
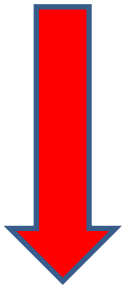
- Expired or partially used medications may not be discarded in the trash, RMW or down the drain
- CODM Pharmaceutical materials must be managed through the Pharmacy and returned to them after use
- EH&S **CANNOT ACCEPT** DEA **Controlled Substances** as waste

Sharps

- All sharps must be collected in red, puncture resistant sharps containers, including:
 - Needles
 - Razor blades
 - Dental/orthodontic wire
 - Pipettes
 - Pipette tips
 - Broken glass that has come in contact with blood or bodily fluids



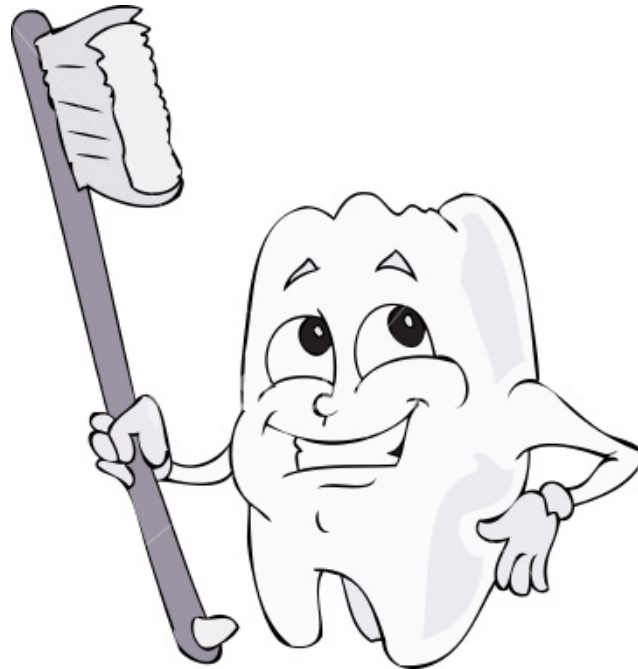
2nd Waste Review



What's Wrong With These Pictures?



Thank you!



Please save ALL questions until the end of the training!