Hazardous Waste Management at the College of Dental Medicine

Franklin Watkins, Hazardous Materials Specialist
Environmental Health & Safety
EMS Policy: No Drain Disposal

No Drain Disposal Policy

All waste must be collected for safe and proper disposal through EH&S.
5 Rules of Hazardous Waste Management

- coLLect
- Label
- Lid
- Locate
- Leaks

Hazardous Waste Management Overview

The Five L's
- Collect
- Label
- Lid
- Locate
- Leaks

Collect
- Collect all hazardous chemical waste and submit a chemical waste pickup request form for proper disposal.
- Periodically evaluate your chemical inventory. Collect chemicals for disposal that are unsealed, expired or have an intended use.
- If you are unsure if your chemical waste is a Hazardous Waste, consult EHS at ehs@columbia.edu.
- DO NOT - Dispose of Hazardous Waste improperly or prior to determining if hazardous. 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.
- DO NOT - Use chemical formulas 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 closed, 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 EHS at ehs@columbia.edu for specialty caps.
- DO NOT - 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).
- DO NOT - Locate Hazardous Waste containers outside of the room in which the waste was generated.

Leaks
- Inspect Satellite Accumulation Areas weekly for Leaks.
- DO NOT - Allow Leaking containers to remain in Satellite Accumulation Area. Contact EHS upon discovering the leak.

When a waste container is 90% full, submit a Chemical Waste Pick-up Request Form by visiting:
http://ehs.columbia.edu/ehs/wastemidwsp/
Waste Management

- Types of Hazardous Dental Waste
  - Amalgam and capsules
  - Chair side traps
  - Lead Foil
  - Extracted Teeth
  - Aerosol Cans
  - Batteries
  - Chair Side Lamps
  - X-ray Film
  - Silver Recovery Units
  - Pharmaceutical waste, including lidocaine & marcaine carpules
  - Sharps
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.
– ALL extracted teeth, including those containing amalgam must be placed in non-hazardous waste containers along with a 10% bleach solution.
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.
Aerosol Cans

- Aerosol cans, even if empty, must have the original cap placed on the can or the nozzle removed.
1st Waste Review
Used Batteries

Battery Bin Location:
Presbyterian Hospital 8th Floor

*NO wet chemistry batteries
*NO sharps
Used Lamps

- Chair Lamps and Other Fluorescent Lamps
  - All lamps are recycled due to Mercury content.
  - VC 7&8- Contact Iris for disposal.
  - Other CODM Locations- Place online pickup request.
Silver recovery units must be affixed to every processor.

Used, unused and expired films must be collected for recycling.
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.
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
What’s Wrong with these Pictures?
Any Questions?