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USP Chapter 800: Implications for Community Oncology

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Today's agenda

- Overview of USP
- Definition of Hazardous Drugs
- Section by Section overview of USP Chapter 800
- Timeline and Next Steps

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Overview of the United States Pharmacopia

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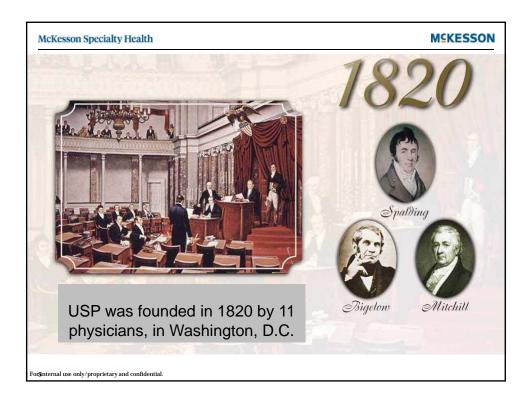
The United States Pharmacopia Convention

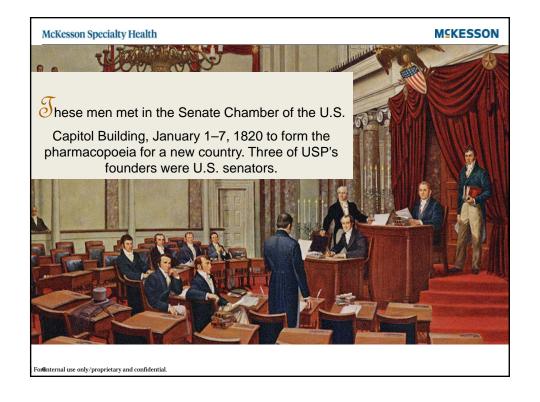
Scientific non-profit organization that sets the standards for the identity, strength, quality and purity of medicines, food ingredients, and dietary supplements manufactured, distributed and consumed worldwide.

Founded in 1820, USP has helped secure the quality of the American drug supply. The agency works with scientists, practitioners and regulators to develop and revise the standards that help protect the public health worldwide.



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The United States Pharmacopia

The United States Pharmacopeia (and The National Formulary, aka USP–NF) is a book of public pharmacopeial standards for chemical and biological drug substances, dosage forms, compounded preparations, excipients, medical devices, and dietary supplements.



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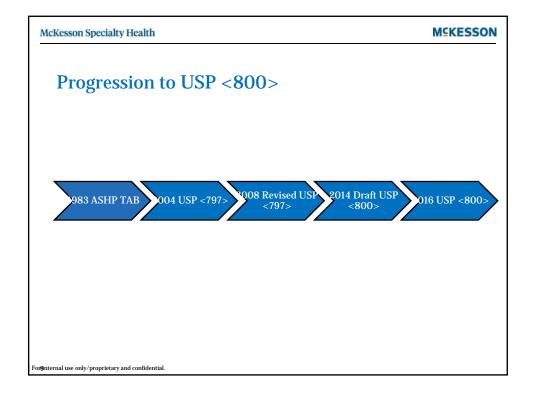
General Chapter

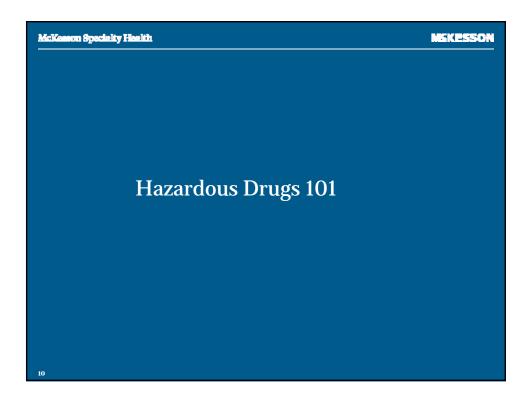
Authored by the Expert Committee, assigned by the USP Counsel of Experts.

Provide guidance, recommendations, regulations around drug manufacturing and manipulation.



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Hazardous drug characteristics

Carcinogenic

Teratogenic

Reproductive toxicity

Demonstrates organ toxicity at low doses

Genotoxic

New drug which structure/toxicity profile mimics drugs already listed

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Hazardous Drug Guidance

- American Society of Health-System Pharmacists (ASHP)
- National Institute for Occupational Safety and Health (NIOSH)
- Occupational Safety and Health Administration (OSHA)
- Oncology Nursing Society (ONS)
- US Pharmacopeia (USP)

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Identify the HDs Handled By Your Clinic The format for the 2014 list has been revised to include three groups of hazardous drugs: 1. Antineoplastic drugs in Healthcare Settings, 2014 2. Non-antineoplastic hazardous drugs 3. Drugs with reproductive effects

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Available guidelines today.....

OSHA

- Technical Manual: Section VI
- "Controlling Occupational Exposure to Hazardous Drug"
- 1999
- Brief overview which address's multiple operational areas

EPA

- "Resource Conservation and Recovery Act" (RCRA)
- 1976, 1980, 1984, 1990, 1991
- 30 drugs listed of which 9 are antineoplastic agents
- Focus is on disposal

Center for Disease Control

- "Primary Containment of Biohazards"
- 2002
- Guidance around selection/use of BSC

National Institute for Health

- "Recommendations for Safe Handling of Cytotoxic Drugs"
- 2002
- Primary goal is preparation and administration

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Available guidelines today.....

ASHP

- "Guidelines for Handling of Hazardous Drugs"
- 1990, 2006
- Informed discussion and suggestions for all operational areas within practice

ONS

- "Chemotherapy/Biotherapy Guidelines and Recommendations.."
- 2001
- Thorough overview of handling in all operational areas of practice

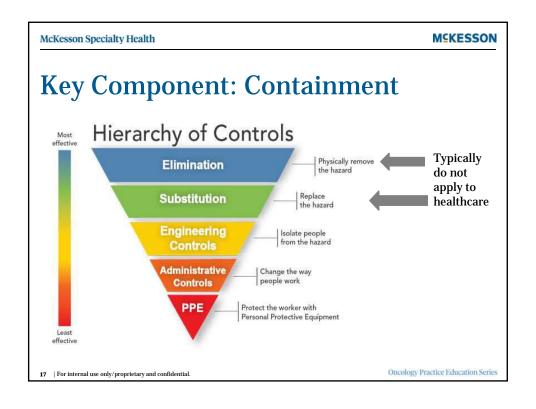
USP

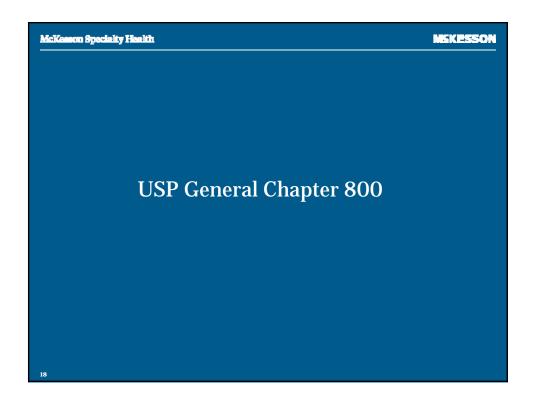
- "Chapter 797"
- 2004, 2010
- Detailed guidance around compounding hazardous drugs as sterile products

NSF

- ANSI 49 "Class II Biosafety Cabinetry
- 2002
- Address's classification and certification of BSC's

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Scope of USP <800>: Does It Apply To Me?

"This chapter applies to all healthcare personnel who handles HD preparations and all entities that store, prepare, transport, or administer HDs (e.g., pharmacies, hospitals and other healthcare institutions, patient treatment clinics, physicians' practice facilities, or veterinarians' offices). Personnel who may potentially be exposed to HDs include, but are not limited to: pharmacists, pharmacy technicians, nurses, physicians, physician assistants, home healthcare workers, veterinarians, and veterinary technicians."

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Joint Position Statement ASCO/ONS/HOPA

Ensuring Healthcare Worker Safety When Handling Hazardous Drugs

 ${\it The Joint Position Statement From the Oncology Nursing Society, the American Society of Clinical} \\$

Oncology, and the Hematology/Oncology Pharmacy Association

Hazardous drugs (HDs) are chemicals that demonstrate one or more of the following characteristics: carcinogenicity, genotoxicity, teratogenicity, reproductive toxicity, or organ toxicity (National Institute

for Occupational Safety and Health [NIOSH], 2004). Healthcare workers (HCWs) are potentially exposed to HDs in the workplace during drug preparation, administration, and disposal and when handling

patients' excreta following treatment with these drugs. More than 100 studies since 1994 have

documented evidence of contamination of the work environment with HDs, which increases the

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USP 800 Objectives

Protect Personnel

Broaden standards to all aspects of handling hazardous drugs

Include non-sterile as well as sterile preparations

Ensure standards for all personnel who handles hazardous drugs and all areas of a facility where they may be found.

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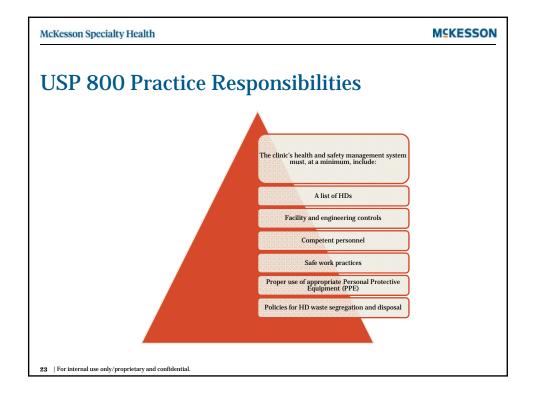
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Composition of USP <800>

- OSHA Technical Manual
 - Controlling Occupational Exposure to Hazardous Drugs
- ASHP Guidelines
- NIOSH Alert and lists of hazardous drugs
 - Preventing Occupational Exposure to Antineoplastic and Other Hazardous Drugs in Health Care Settings
 - 2014 List of Hazardous Drugs contains table of PPEs based on activities performed
- ONS Safe Handling of Hazardous Drugs
- Growing body of literature

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Anatomy of USP 800

Sections

- List of Hazardous Drugs
- Types of Exposure
- Responsibilities of Personnel Handling Hazardous Drugs
- Facility Design and Engineering Controls
- Personal Protective Equipment (PPE)
- Hazard Communication Program
- Training of Compounding Personnel
- Receiving
- Transport
- Dispensing HD Dose Forms Not Requiring Alteration

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Anatomy of USP 800

Sections-cont.

- Compounding HD Dosage Forms
- Protection When Administering HD's
- Cleaning, Deactivation, Decontamination, and Disinfection
- Spill Control
- Disposal
- Environmental Control
- Documentation
- Medical Surveillance

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Section 4: Responsibilities of Personnel Handling HD's

- Establishes requirement of compounding supervisor.
- Establishes ALL personnel handling HD's are responsible for proper compounding and handling.
- All personnel must ensure all agency standards are followed (state and federal boards, OSHA, EPA, NIOSH, accrediting organizations)



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Section 5: Facility Design and Engineering Controls

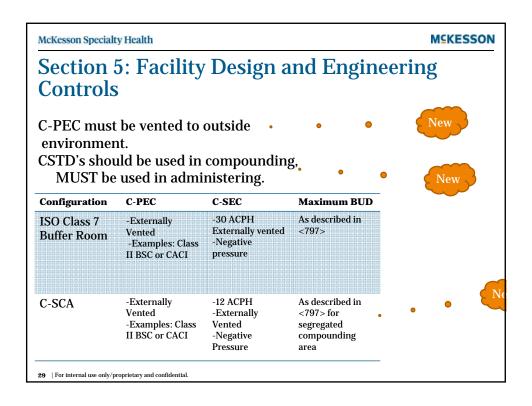
Containment-Primary Engineering Control (C-PEC)

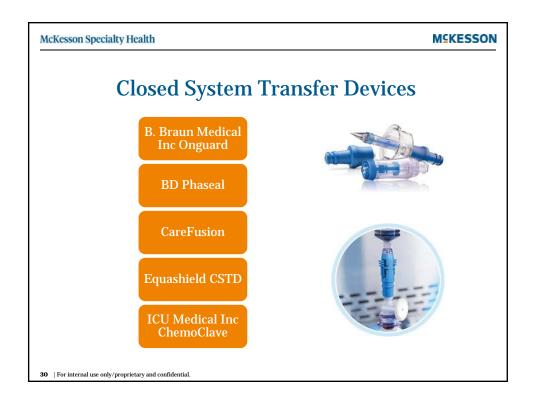
Containment-Secondary Engineering Control (C-SEC)

Supplemental Engineering Controls

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Section 6: Personal Protective Equipment

All aspects of handling.

Head/Hair and Shoe covers must be worn.

Eye and face protection when manipulating HD's outside a C-PEC, working at eye level or above, cleaning the C-PEC, cleaning a spill.



Respirators when appropriate.

Gloves must be tested to ASTM 6978 standard.

Gowns must be impervious and intended for use with hazardous drugs.



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Section 7: Hazard Communication Program

A written program of policy and procedure. •

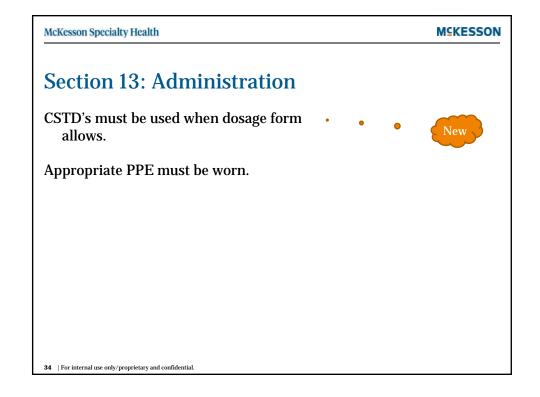


Elements:

- Labeling and warnings
- Training
- MSDS are readily accessible

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Section 9: Receiving Very detailed guidance around process of receiving. Practice must establish SOPs for receiving HDs. A spill kit must be accessible in the receiving area. Step by step discussion with regard to handling damaged HD shipping containers.



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Section 17: Documentation and SOPs

Clinics must maintain SOPs for the safe handling of HDs for all situations in which the HDs are used throughout the facility.

The SOPs must be reviewed at least every 12 months by the designated person, and the review must be documented.

There is a list of 16 categories that must be addressed with SOPs.

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Section 19: Medical Surveillance.

-All employees should enroll

- New
- -Evaluate symptom complaints, physical findings, and lab abnormalities
- -Track the employee over time
- -Allows you to evaluate the effectiveness of engineering controls, PPE, safe work process, worker education program
- -Confidential medical information

Reproductive history

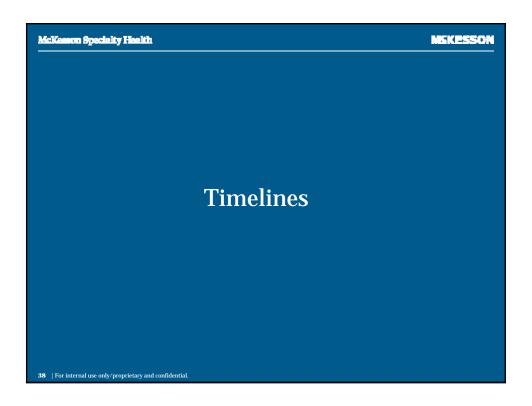
Work history and exposure history – drugs, amounts, length of exposure Physical exam

Lab tests

-Develop a follow up surveillance plan for abnormals

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HELP! Where Do We Begin?

Start Now:

- •Identify HDs
- •Revise Policies
- •Train Personnel
- •Use Correct PPE
- •Monitor Environment

Plan Ahead:

- Prepare for Facility ChangesResearch CTSDs

