

**Slide1**

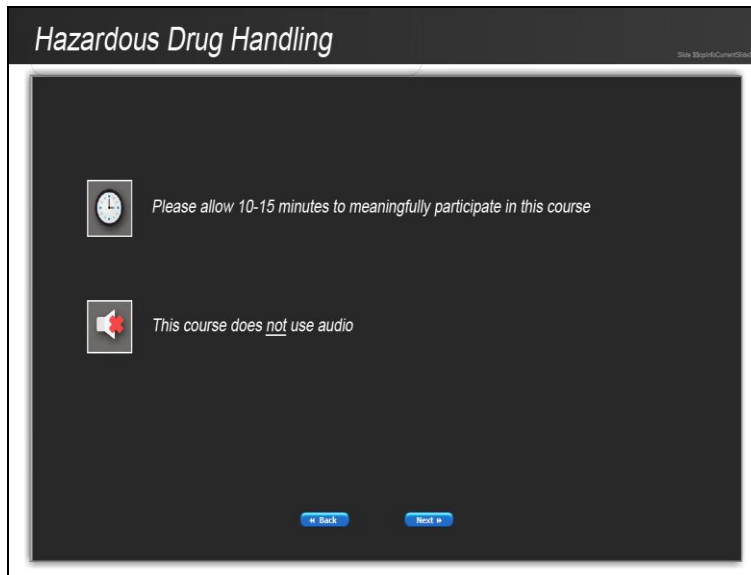


**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Image : C:\Users\ Pictures\USP8000\shutterstock\_179884322.png
- 2) Text Caption : Hazardous Drug Handling
- 3) Button
- 4) Button
- 5) Button

**Slide2****Properties:**

Display Time	: 600.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : This course does not use audio
- 2) Image : C:\Users\AppData\Local\Temp\Clipboard4276600730272.BMP
- 3) Text Caption : Please allow 10-15 minutes to meaningfully participate in this course
- 4) Image : C:\Users\Pictures\time.png

**Slide3****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Regulations

There are regulations regarding handling and disposal of hazardous drugs.

These are enforceable by the Food & Drug Administration, State laws, and the Joint Commission.

2) Image : C:\Users\\Pictures\USP8000\regs.png

**Slide4****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

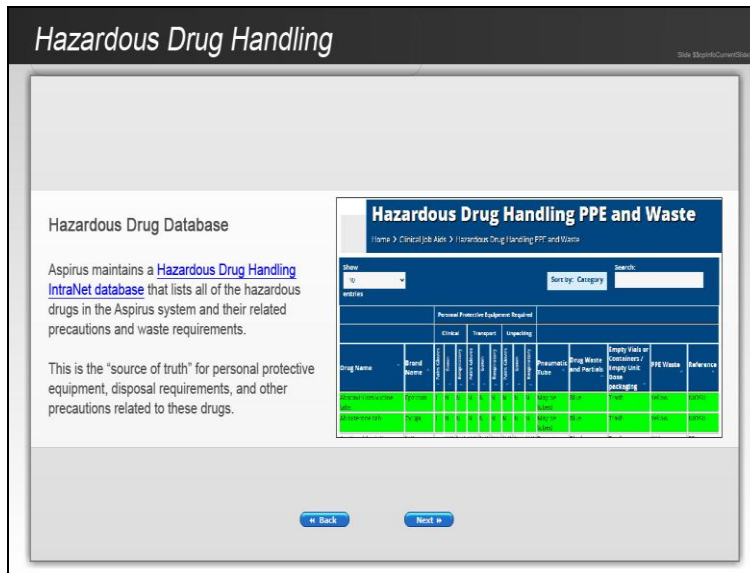
1) Text Caption : Objectives

This course will help you:

choose the required personal protective equipment for handling hazardous drugs,

dispose of hazardous drugs and related waste appropriately

2) Image : C:\Users\Picture\USP8000\shutterstock\_21903397\_borderless.png

**Slide5****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

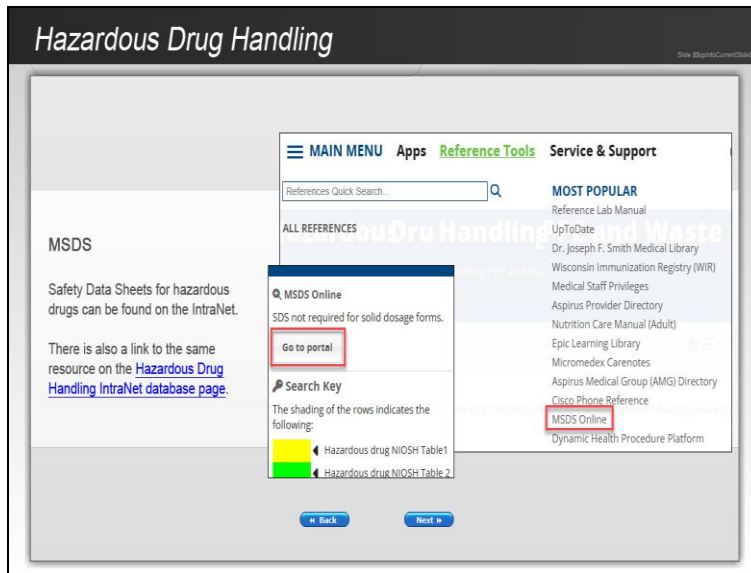
**Objects:**

- 1) Text Caption : Hazardous Drug Database

Aspirus maintains a Hazardous Drug Handling IntraNet database that lists all of the hazardous drugs in the Aspirus system and their related precautions and waste requirements.

This is the “source of truth” for personal protective equipment, disposal requirements, and other precautions related to these drugs.

- 2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634421928921.BMP

**Slide6****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : MSDS

Safety Data Sheets for hazardous drugs can be found on the IntraNet.

There is also a link to the same resource on the Hazardous Drug Handling IntraNet database page.

2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634420096078.BMP

3) Image : C:\Users\\AppData\Local\Temp\Clipboard1634420162312.BMP

## Slide7

**Hazardous Drug Handling**

NIOSH Hazardous Drug Tables

**Table 1:** Hazardous drug listed by the manufacturer as needing special handling and/or known or probably carcinogenic to humans

**Table 2:** Hazardous drug but not considered carcinogenic to humans

Legend:

- Yellow: Hazardous drug listed by the manufacturer as needing special handling and/or known or probably carcinogenic to humans (Table 1)
- Green: Hazardous drug but not considered carcinogenic to humans (Table 2)

Buttons: Back, Next

## Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

## Objects:

1) Text Caption : NIOSH Hazardous Drug Tables

Table 1: Hazardous drug listed by the manufacturer as needing special handling and/or known or probably carcinogenic to humans

Table 2: Hazardous drug but not considered carcinogenic to humans

2) Image : C:\Users\AppData\Local\Temp\Clipboard1634420414484.BMP

**Slide8**



**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Button
- 2) Button
- 3) Button
- 4) Image : C:\Users\\Pictures\haz\_waste\_role.png
- 5) Click Box
- 6) Click Box
- 7) Click Box
- 8) Click Box



**Slide9**

*Hazardous Drug Handling*

Receiving & Storage



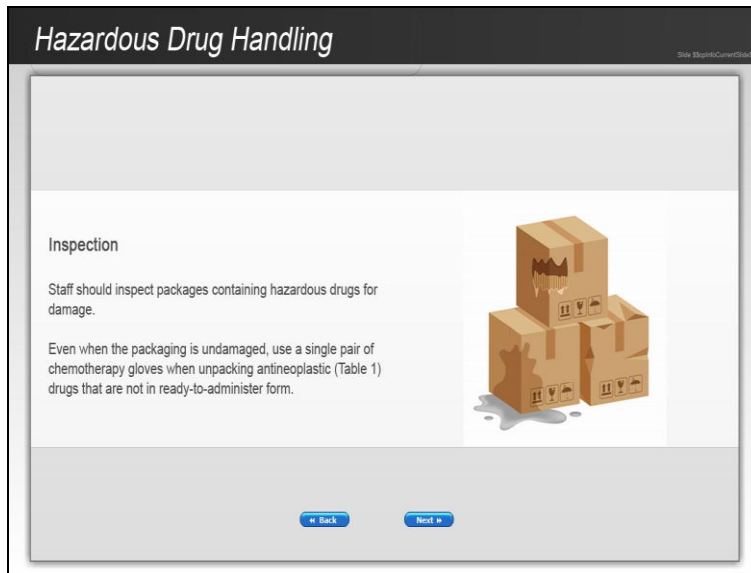
◀ Back   Next ▶

Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

- 1) Text Caption : Receiving & Storage
- 2) Image : C:\Users\\Pictures\USP8000\shutterstock\_375459526.png

**Slide10****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Inspection

Staff should inspect packages containing hazardous drugs for damage.

Even when the packaging is undamaged, use a single pair of chemotherapy gloves when unpacking antineoplastic (Table 1) drugs that are not in ready-to-administer form.

2) Image : C:\Users\ Pictures\USP8000\Shutterstock Order\shutterstock\_1342961813.png

**Slide11**

*Hazardous Drug Handling*

Receiving & Storage



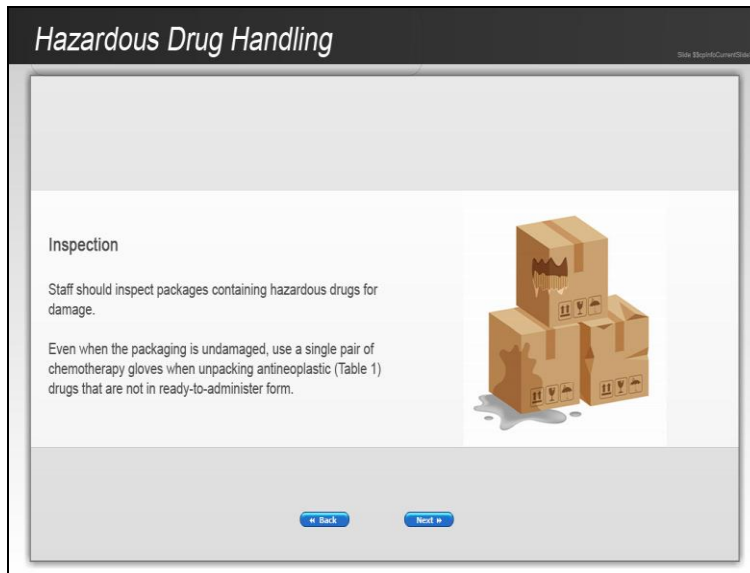
◀ Back   Next ▶

Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

- 1) Text Caption : Receiving & Storage
- 2) Image : C:\Users\\Pictures\USP8000\shutterstock\_375459526.png

**Slide12****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Inspection

Staff should inspect packages containing hazardous drugs for damage.

Even when the packaging is undamaged, use a single pair of chemotherapy gloves when unpacking antineoplastic (Table 1) drugs that are not in ready-to-administer form.

2) Image : C:\Users\ Pictures\USP8000\Shutterstock Order\shutterstock\_1342961813.png


**Slide13**

*Hazardous Drug Handling*

Repackaging

Antineoplastic (Table 1) tablets and capsules must not be placed in automated counting or packaging machines.

Other HD repackaging requires decontamination of equipment after every use.



« Back   Next »

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

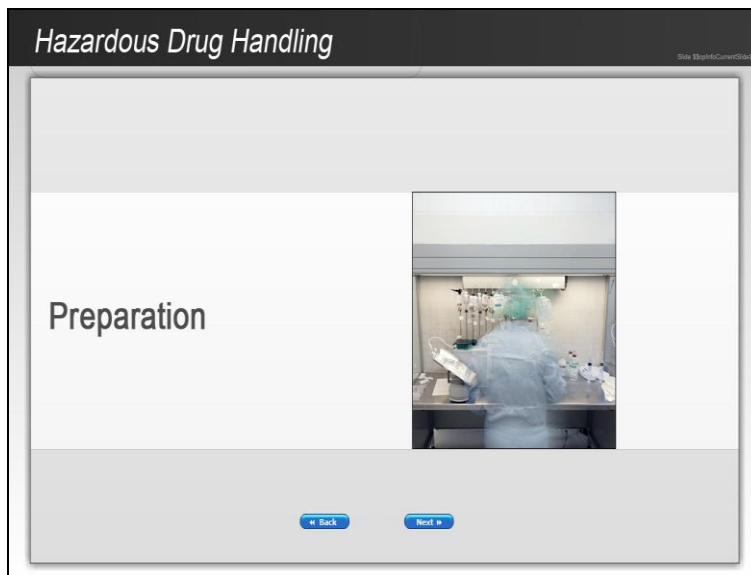
**Objects:**

1) Text Caption : Repackaging

Antineoplastic (Table 1) tablets and capsules must not be placed in automated counting or packaging machines.

Other HD repackaging requires decontamination of equipment after every use.

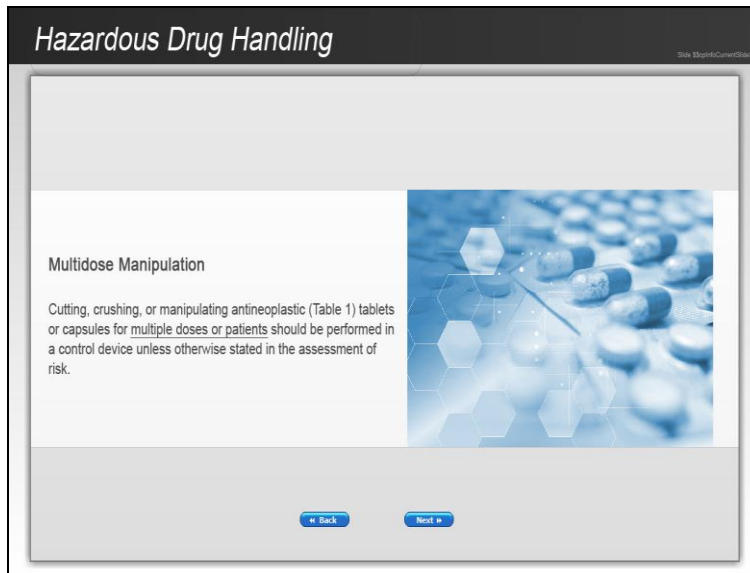
2) Image : C:\Users\ Pictures\USP8000\apm.png

**Slide14****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Preparation
- 2) Image : C:\Users\\Pictures\USP8000\Shutterstock Order\shutterstock\_348658517.png

**Slide15****Properties:**

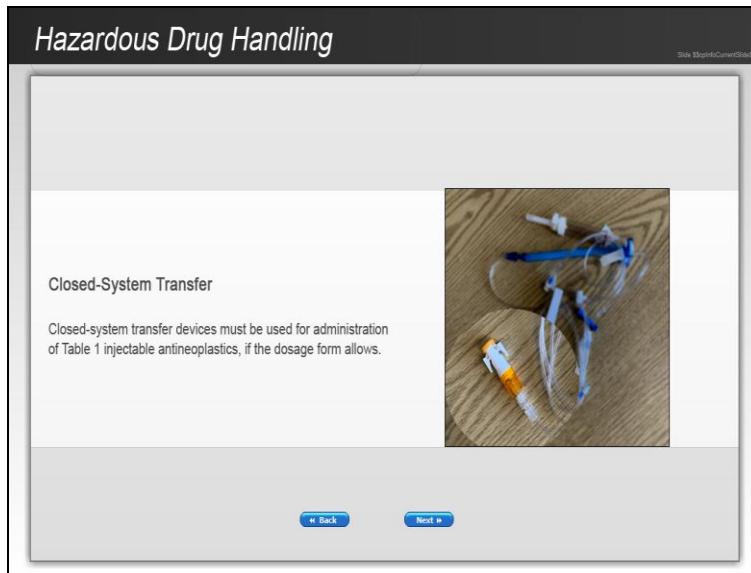
Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Multidose Manipulation

Cutting, crushing, or manipulating antineoplastic (Table 1) tablets or capsules for multiple doses or patients should be performed in a control device unless otherwise stated in the assessment of risk.

2) Image : C:\Users\\Pictures\Stock Images\AdobeStock\_141856631-1200.jpg

**Slide16****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Closed-System Transfer

Closed-system transfer devices must be used for administration of Table 1 injectable antineoplastics, if the dosage form allows.

- 2) Image : C:\Users\\Pictures\USP8000\containment device.png



**Slide17**

**Hazardous Drug Handling**

Size: 1024x768px, 100%

**Chemotherapy Gloves and Gowns**

Chemotherapy gloves should be changed every 30 minutes, unless otherwise recommended by manufacturer, or if torn or contaminated

Chemo gowns must be changed every 2-3 hours, immediately after a spill or splash, or upon exit of negative pressure room

Chemo gowns worn in hazardous drug handling areas must not be worn in other areas



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Chemotherapy Gloves and Gowns

Chemotherapy gloves should be changed every 30 minutes, unless otherwise recommended by manufacturer, or if torn or contaminated

Chemo gowns must be changed every 2-3 hours, immediately after a spill or splash, or upon exit of negative pressure room

Chemo gowns worn in hazardous drug handling areas must not be worn in other areas

2) Image : C:\Users\\Pictures\USP8000\Shutterstock Order\shutterstock\_21903397.png

**Slide18**

*Hazardous Drug Handling*

PPE Requirements

Chemotherapy gowns must:

- be disposable
- be closed in the back
- have closed cuffs



◀ Back    Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : PPE Requirements

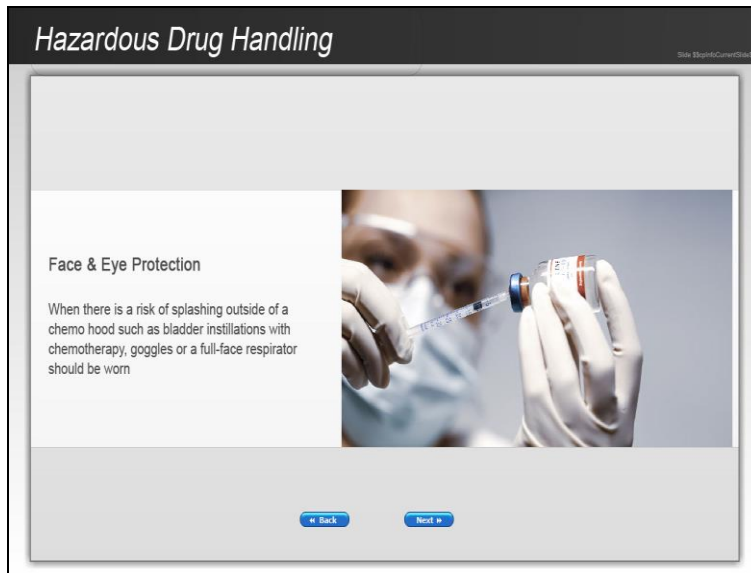
Chemotherapy gowns must:

be disposable

be closed in the back

have closed cuffs

2) Image : C:\Users\\AppData\Local\Temp\Clipboard19384101163281.BMP

**Slide19****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Face & Eye Protection

When there is a risk of splashing outside of a chemo hood such as bladder instillations with chemotherapy, goggles or a full-face respirator should be worn

2) Image : C:\Users\\Pictures\AdobeStock\_403578431\_1200.jpg


**Slide20**

*Hazardous Drug Handling*

Respirators

A full face piece, N95 respirator or goggles, chemical cartridge-type respirator, or PAPR should be worn when there is a risk of respiratory exposure to hazardous drugs including:

- airborne exposure to powders or vapors
- decontaminating underneath the work surface of a chemotherapy hood
- attending HD spills requiring more than one spill kit, i.e., spills greater than 1000 ml.



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Respirators

A full face piece, N95 respirator or goggles, chemical cartridge-type respirator, or PAPR should be worn when there is a risk of respiratory exposure to hazardous drugs including:

airborne exposure to powders or vapors

decontaminating underneath the work surface of a chemotherapy hood

attending HD spills requiring more than one spill kit, i.e., spills greater than 1000 ml.

2) Image : C:\Users\ Pictures\USP8000\Shutterstock Order\shutterstock\_1022972038.png

**Slide21**

**Hazardous Drug Handling**

Size: 800x600px Slide 21

**Pneumatic Tube**

Do not tube any Table 1 (antineoplastic) drugs nor any liquid hazardous drugs.

A "Do Not Tube" warning will appear on the EMR label, on the medication bag, and in the Hazardous Drug Handling database.

Drug Name	Brand Name	Anticancer	Anticancer	Anticancer	Anticancer	Anticancer	Anticancer	Anticancer	Anticancer	Anticancer	Pneumatic Tube
Abacavir/namivudine tabs	Epivir	N	N	N	N	N	N	N	N	N	May be tubed
Abiraterone tab	Zytiga	N	N	N	N	N	N	N	N	N	May be tubed
Acetic acid solution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Do not tube
Acetaminophen tabs	Soriatane	N	N	N	N	N	N	N	N	N	May be tubed
Adalimumab inj	Humira	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Do not tube
Ado-trastuzumab inj	Kadcyla	Z	Y	N	N	N	N	1	N	N	Do not tube
Atorvastatin tab	Glaxo	N	N	N	N	N	N	N	N	N	May be tubed
Albuterol inhaler	Ventolin, Proventil, ProAir	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	May be tubed

Back Next

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Pneumatic Tube

Do not tube any Table 1 (antineoplastic) drugs nor any liquid hazardous drugs.

A "Do Not Tube" warning will appear on the EMR label, on the medication bag, and in the Hazardous Drug Handling database.

2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634420816906.BMP

**Slide22**



**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Disposal
- 2) Image :
- 3) Image :
- 4) Image :

**Slide23**

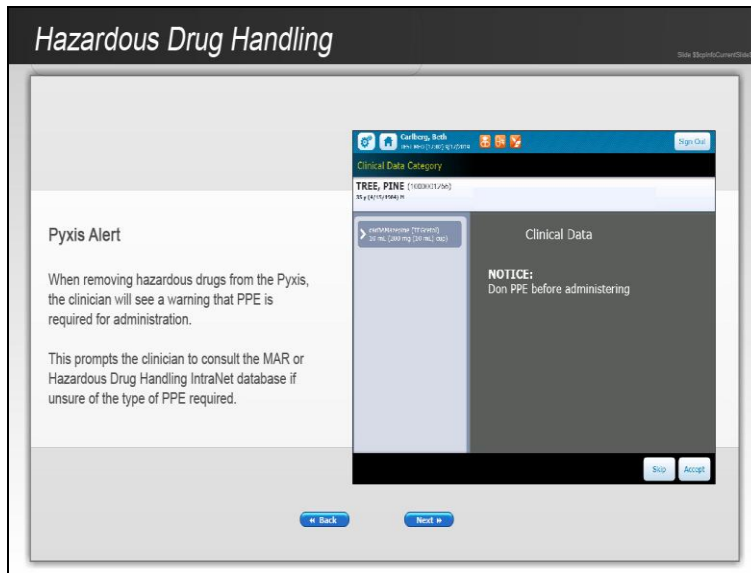


Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

1) Text Caption : Administration

**Slide24****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

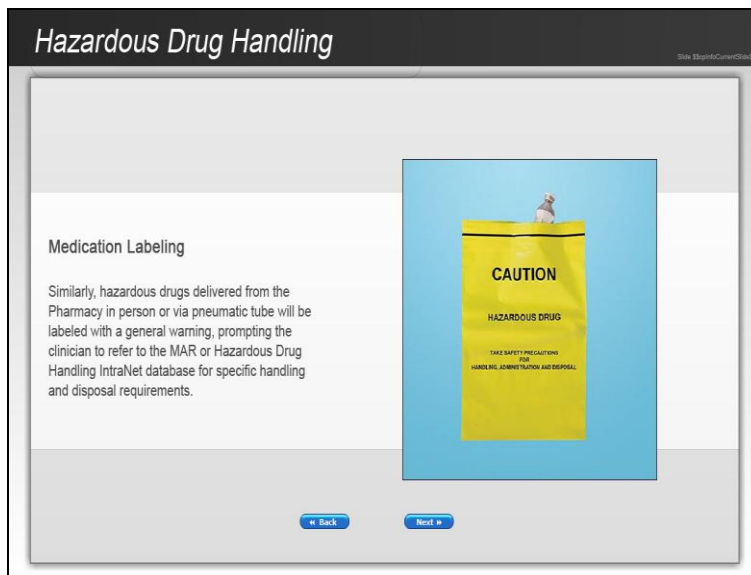
1) Text Caption : Pyxis Alert

When removing hazardous drugs from the Pyxis, the clinician will see a warning that PPE is required for administration.

This prompts the clinician to consult the MAR or Hazardous Drug Handling IntraNet database if unsure of the type of PPE required.

2) Image : C:\Users\ Pictures\USP8000\cropepd.png



**Slide25****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Medication Labeling

Similarly, hazardous drugs delivered from the Pharmacy in person or via pneumatic tube will be labeled with a general warning, prompting the clinician to refer to the MAR or Hazardous Drug Handling IntraNet database for specific handling and disposal requirements.

- 2) Image : C:\Users\ Pictures\USP8000\med bags.jpg

**Slide26**

**Hazardous Drug Handling**

Size: 800x600px Slide 26

**Pneumatic Tube**

Do not tube any Table 1 (antineoplastic) drugs nor any liquid hazardous drugs.

A "Do Not Tube" warning will appear on the EMR label, on the medication bag, and in the Hazardous Drug Handling database.

Drug Name	Brand Name	Table 1 Antineoplastic	Table 2 Hazardous	Table 3 Biological	Table 4 Chemical	Table 5 Radiation	Table 6 Other	Pneumatic Tube
Abacavir/namivudine tabs	Epivir	N	N	N	N	N	N	May be tubed
Abiraterone tab	Zytiga	N	N	N	N	N	N	May be tubed
Acetic acid solution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Do not tube
Acetaminophen tabs	Soriatane	N	N	N	N	N	N	May be tubed
Adalimumab inj	Humira	N/A	N/A	N/A	N/A	N/A	N/A	Do not tube
Ado-trastuzumab inj	Kadcyla	Y	N	N	N	1	N	Do not tube
Atorvastatin tab	Glaxo	N	N	N	N	N	N	May be tubed
Albuterol inhaler	Ventolin, Proventil, ProAir	N/A	N/A	N/A	N/A	N/A	N/A	May be tubed

Back Next

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

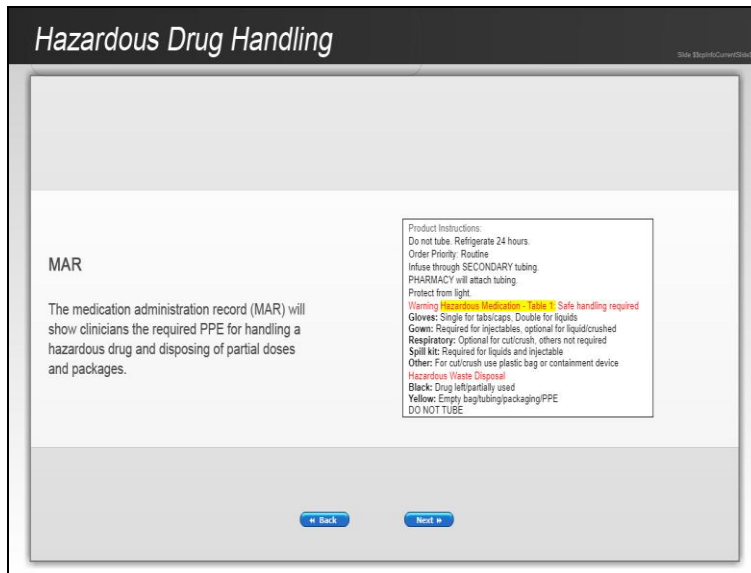
**Objects:**

1) Text Caption : Pneumatic Tube

Do not tube any Table 1 (antineoplastic) drugs nor any liquid hazardous drugs.

A "Do Not Tube" warning will appear on the EMR label, on the medication bag, and in the Hazardous Drug Handling database.

2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634420816906.BMP

**Slide27****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : MAR

The medication administration record (MAR) will show clinicians the required PPE for handling a hazardous drug and disposing of partial doses and packages.

- 2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634420950421.BMP

## Slide28

**Hazardous Drug Handling**

Size: 1000x700px

**Search Key**

- ← Hazardous drug NIOSH Table 1
- ← Hazardous drug NIOSH Table 2
- ← Waste stream only - EPA regulated

**Personal Protective Equipment Required**

Drug Name	Brand Name	Clinical			Transport			Unpacking		
		Gloves	Goggles	Respiratory	Gloves	Goggles	Respiratory	Gloves	Goggles	Respiratory
Abacavir/zidovudine tabs	Epivir	Y	N	N	Y	N	N	Y	N	N
Abraxane tab	Lyrica	Y	N	N	Y	N	N	Y	N	N
Acetic acid solution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetron caps	Solstice	Y	N	N	Y	N	N	Y	N	N
Adalimumab inj	Humira	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ado-trastuzumab inj	Kadcyla	Y	Y	N	Y	N	N	Y	N	N
Atorvastatin tab	Lipitor	Y	N	N	Y	N	N	Y	N	N

**PPE Requirements**

Chemotherapy gloves are used for more than just chemo drugs.

One pair of chemotherapy gloves is required when administering intact tablets or capsule forms of hazardous drugs (Tables 1 & 2).

Back Next

## Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

## Objects:

1) Text Caption : PPE Requirements

Chemotherapy gloves are used for more than just chemo drugs.

One pair of chemotherapy gloves is required when administering intact tablets or capsule forms of hazardous drugs (Tables 1 & 2).

2) Image : C:\Users\AppData\Local\Temp\Clipboard1634421234687.BMP

3) Image : C:\Users\AppData\Local\Temp\Clipboard1634421399609.BMP

**Slide29**

**Hazardous Drug Handling**

Size: 1000x700px

**Search Key**

- Hazardous drug NIOSH Table 1
- Hazardous drug NIOSH Table 2
- Waste stream only - EPA regulated

**Personal Protective Equipment Required**

Drug Name	Brand Name	Clinical			Transport			Unpacking		
		Gloves	Gown	Respiratory	Gloves	Gown	Respiratory	Gloves	Gown	Respiratory
Abacavir/zidovudine tabs	Epivir	N	N	N	N	N	N	N	N	N
Abraxane tab	Lyrica	N	N	N	N	N	N	N	N	N
Acetic acid solution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetron caps	Solstice	N	N	N	N	N	N	N	N	N
Adalimumab inj	Humira	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ado-trastuzumab inj	Kadcyla	2	Y	N	N	N	N	1	N	N
Atorvastatin tab	Lipitor	N	N	N	N	N	N	N	N	N

**PPE Requirements**

Two pairs of chemotherapy gloves and a chemotherapy gown are required when administering injectable neoplastic (Table 1) hazardous drugs.

**Navigation:** Back, Next

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : PPE Requirements

Two pairs of chemotherapy gloves and a chemotherapy gown are required when administering injectable neoplastic (Table 1) hazardous drugs.

2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634421234687.BMP

3) Image : C:\Users\\AppData\Local\Temp\Clipboard1634421399609.BMP

**Slide30****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : PPE Requirements

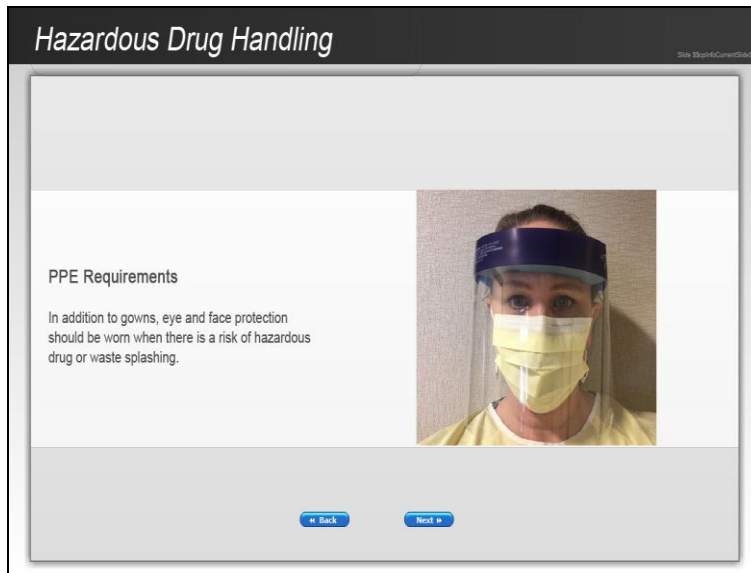
Chemotherapy gowns must:

be disposable

be closed in the back

have closed cuffs

2) Image : C:\Users\\AppData\Local\Temp\Clipboard19384101163281.BMP

**Slide31****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : PPE Requirements

In addition to gowns, eye and face protection should be worn when there is a risk of hazardous drug or waste splashing.


- 2) Image : S:\OLandD\COVID 19\Upskill Content\Images - Cleared for Use\simple-mask.png

**Slide32**

*Hazardous Drug Handling*

Closed-System Transfer

Closed-system transfer devices must be used for administration of Table 1 injectable antineoplastics, if the dosage form allows.



◀ Back    Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Closed-System Transfer

Closed-system transfer devices must be used for administration of Table 1 injectable antineoplastics, if the dosage form allows.

- 2) Image : C:\Users\\Pictures\USP8000\containment device.png



**Slide33**


**Hazardous Drug Handling**

**Crushing and Opening Oral Medications**

Clinicians should avoid crushing or cutting hazardous tablets, as well as opening hazardous capsules if possible.

However, when opening or crushing solid hazardous medications is necessary at the point of care, don a single pair of chemotherapy gloves. Optionally, a chemotherapy gown and respiratory protection may also be worn.

Use a plastic pouch to contain stray particles.



Navigation buttons: Back, Next

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Crushing and Opening Oral Medications

Clinicians should avoid crushing or cutting hazardous tablets, as well as opening hazardous capsules if possible.

However, when opening or crushing solid hazardous medications is necessary at the point of care, don a single pair of chemotherapy gloves. Optionally, a chemotherapy gown and respiratory protection may also be worn.

Use a plastic pouch to contain stray particles.

2) Image : C:\Users\\Pictures\USP8000\silentknight.png

**Slide34**


*Hazardous Drug Handling*

Size: 1024x768px

**Patients & Visitors**

Patients and visitors must be accompanied by staff in antineoplastic (Table 1) injectable administration areas.

For inpatient chemotherapy infusions, patients and visitors should be notified of chemotherapy precautions.



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

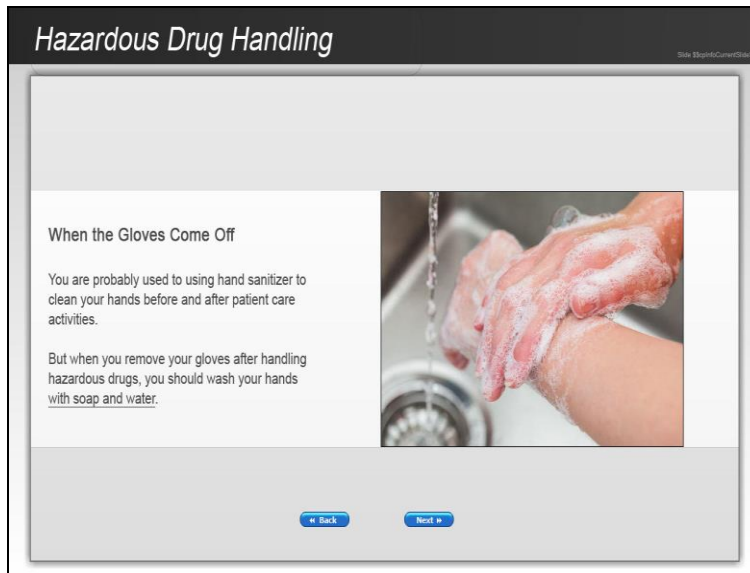
**Objects:**

1) Text Caption : Patients & Visitors

Patients and visitors must be accompanied by staff in antineoplastic (Table 1) injectable administration areas.

For inpatient chemotherapy infusions, patients and visitors should be notified of chemotherapy precautions.

2) Image : C:\Users\ Pictures\Stock Images\discharge\shutterstock\_150773027-sm.jpg

**Slide35****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : When the Gloves Come Off

You are probably used to using hand sanitizer to clean your hands before and after patient care activities.

But when you remove your gloves after handling hazardous drugs, you should wash your hands with soap and water.

2) Image : C:\Users\ Pictures\USP8000\Shutterstock Order\shutterstock\_630315251.jpg

**Slide36**



Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

- 1) Text Caption : Disposal
- 2) Image :
- 3) Image :
- 4) Image :

**Slide37**



Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

1) Text Caption : Administration

**Slide38**

**Hazardous Drug Handling**

Medication Labeling

Similarly, hazardous drugs delivered from the Pharmacy in person or via pneumatic tube will be labeled with a general warning, prompting the clinician to refer to the MAR or Hazardous Drug Handling IntraNet database for specific handling and disposal requirements.



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Medication Labeling

Similarly, hazardous drugs delivered from the Pharmacy in person or via pneumatic tube will be labeled with a general warning, prompting the clinician to refer to the MAR or Hazardous Drug Handling IntraNet database for specific handling and disposal requirements.

- 2) Image : C:\Users\ Pictures\USP8000\med bags.jpg

## Slide39

**Hazardous Drug Handling**

Size: 1000x700px

**PPE Requirements**

Chemotherapy gloves are used for more than just chemo drugs.

One pair of chemotherapy gloves is required when administering intact tablets or capsule forms of hazardous drugs (Tables 1 & 2).

**Search Key**

- Hazardous drug NIOSH Table 1
- Hazardous drug NIOSH Table 2
- Waste stream only - EPA regulated

**Personal Protective Equipment Required**

Drug Name	Brand Name	Wear Gloves	Wear Goggles	Wear Respiratory	Wear Gloves	Wear Goggles	Wear Respiratory	Wear Gloves	Wear Goggles	Wear Respiratory
		Clinical	Transport	Unpacking						
Abacavir/zidovudine tabs	Epivir	Y	N	N	Y	N	N	Y	N	N
Abraxane tab	Lyrica	Y	N	N	Y	N	N	Y	N	N
Acetic acid solution	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetron caps	Solstice	Y	N	N	Y	N	N	Y	N	N
Adalimumab inj	Humira	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ado-trastuzumab inj	Kadcyla	Y	Y	N	Y	Y	N	Y	Y	N
Atorvastatin tab	Lipitor	Y	N	N	Y	N	N	Y	N	N

Back Next

## Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

## Objects:

1) Text Caption : PPE Requirements

Chemotherapy gloves are used for more than just chemo drugs.

One pair of chemotherapy gloves is required when administering intact tablets or capsule forms of hazardous drugs (Tables 1 & 2).

2) Image : C:\Users\AppData\Local\Temp\Clipboard1634421234687.BMP

3) Image : C:\Users\AppData\Local\Temp\Clipboard1634421399609.BMP

**Slide40**

[illegible]

Properties:

Display Time : 3.00sec  
Transition : No Transition  
Navigation : No Action  
Audio : None

Objects:

- 1) Text Caption : PPE Requirements

Two pairs of chemotherapy gloves and a chemotherapy gown are required when administering injectable neoplastic (Table 1) hazardous drugs.

- 2) Image : C:\Users\\AppData\Local\Temp\Clipboard1634421234687.BMP  
3) Image : C:\Users\\AppData\Local\Temp\Clipboard1634421399609.BMP



**Slide41**

*Hazardous Drug Handling*

PPE Requirements

Chemotherapy gowns must:

- be disposable
- be closed in the back
- have closed cuffs



◀ Back    Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : PPE Requirements

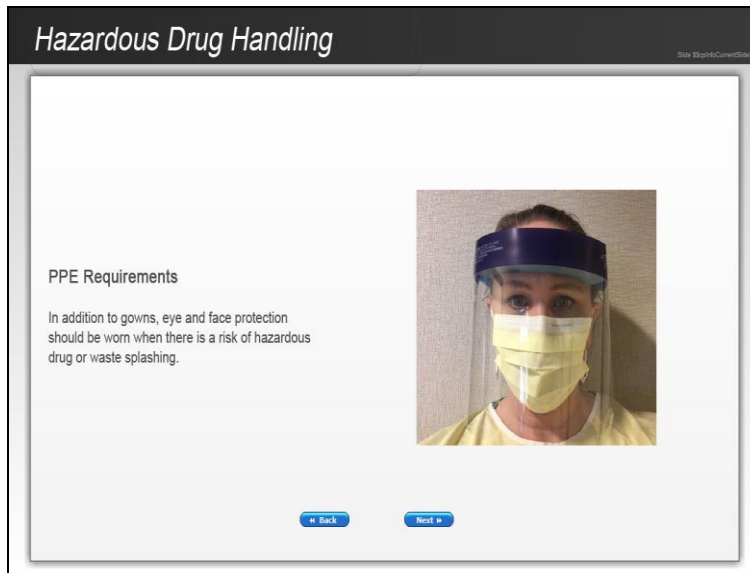
Chemotherapy gowns must:

be disposable

be closed in the back

have closed cuffs

2) Image : C:\Users\\AppData\Local\Temp\Clipboard19384101163281.BMP

**Slide42****Properties:**

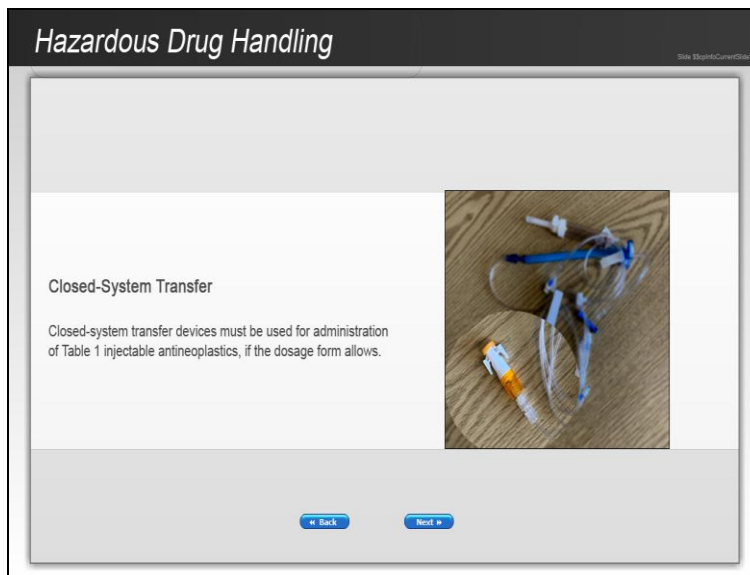
Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : PPE Requirements

In addition to gowns, eye and face protection should be worn when there is a risk of hazardous drug or waste splashing.

2) Image : S:\OLandD\COVID 19\Upskill Content\Images - Cleared for Use\simple-mask.png

**Slide43**

**Slide44**

*Hazardous Drug Handling*

When the Gloves Come Off

You are probably used to using hand sanitizer to clean your hands before and after patient care activities.

But when you remove your gloves after handling hazardous drugs, you should wash your hands with soap and water.



◀ Back    Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : When the Gloves Come Off

You are probably used to using hand sanitizer to clean your hands before and after patient care activities.

But when you remove your gloves after handling hazardous drugs, you should wash your hands with soap and water.

2) Image : C:\Users\ Pictures\USP8000\Shutterstock Order\shutterstock\_630315251.jpg

**Slide45**



**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Disposal
- 2) Image :
- 3) Image :
- 4) Image :

**Slide46**

*Hazardous Drug Handling*

**Yellow Waste**

Yellow waste is generated during preparation and administration of hazardous drugs. In order to qualify as Yellow Waste, they must have only trace amounts of hazardous drug in or on them.

Examples of Yellow Waste include:

- PPE and other barriers
- Chemotherapy (Table 1) empty bags, vials, and IV tubing

Trace chemo sharps are disposed of in a yellow sharps container that is marked for disposal by incineration.



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:****1) Text Caption : Yellow Waste**

Yellow waste is generated during preparation and administration of hazardous drugs. In order to qualify as Yellow Waste, they must have only trace amounts of hazardous drug in or on them.

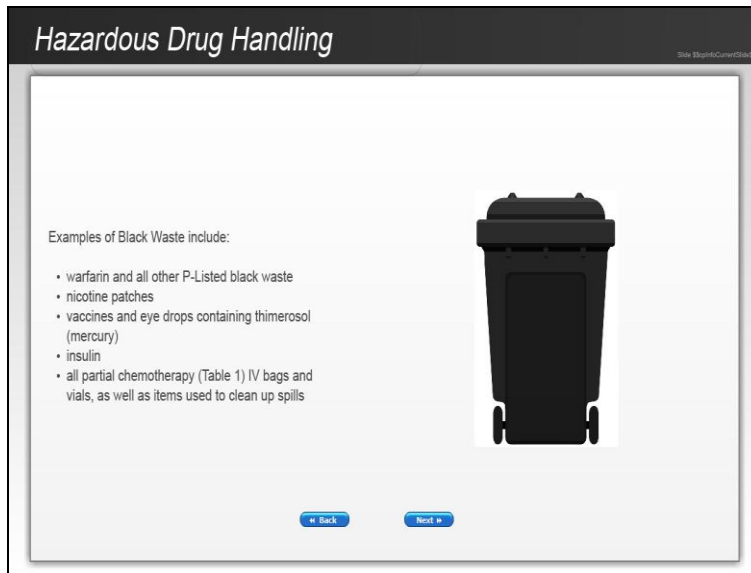
**Examples of Yellow Waste include:**

PPE and other barriers

Chemotherapy (Table 1) empty bags, vials, and IV tubing

Trace chemo sharps are disposed of in a yellow sharps container that is marked for disposal by incineration.

**2) Image :**

**Slide47****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Examples of Black Waste include:

warfarin and all other P-Listed black waste

nicotine patches

vaccines and eye drops containing thimerosal (mercury)

insulin

all partial chemotherapy (Table 1) IV bags and vials, as well as items used to clean up spills


2) Image :

**Slide48**

*Hazardous Drug Handling*

Dispose of all sharps in red containers designed for this purpose. This includes needles, syringes with needles attached, and broken ampules.

Intact vials are not considered sharps.



◀ Back    Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Dispose of all sharps in red containers designed for this purpose. This includes needles, syringes with needles attached, and broken ampules.

Intact vials are not considered sharps.

- 2) Image : C:\Users\\Pictures\USP8000\sharps.jpg




**Slide49**

**Hazardous Drug Handling**

Put controlled substance and narcotic waste in the designated container near the pyxis. Put the empty container in the regular garbage.

Two people must witness and document this disposal.



« Back    Next »

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Put controlled substance and narcotic waste in the designated container near the pyxis. Put the empty container in the regular garbage.

Two people must witness and document this disposal.


- 2) Image : C:\Users\\Pictures\USP8000\stericycle.jpg

**Slide50**

*Hazardous Drug Handling*

While there are several types of medications and clinical items that require special handling, there are some items that can be disposed of in the regular trash.

These include empty needle-less syringes and most oral medication packages.



◀ Back   Next ▶

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

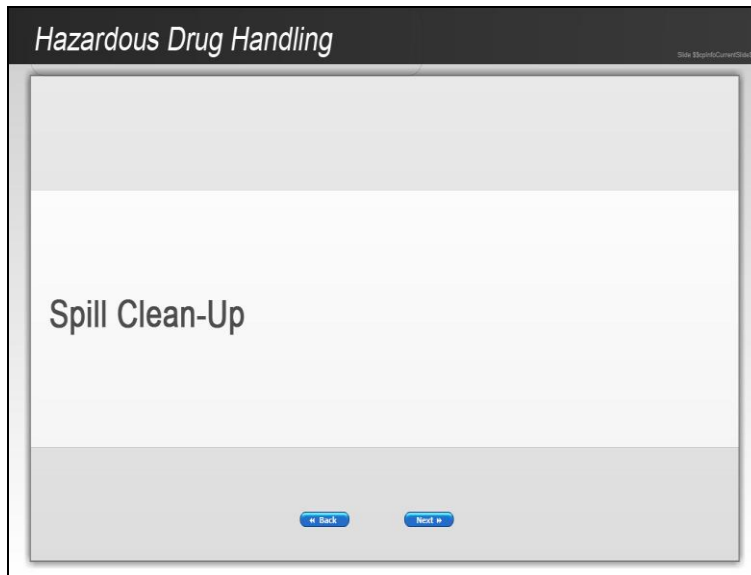
**Objects:**

- 1) Text Caption : While there are several types of medications and clinical items that require special handling, there are some items that can be disposed of in the regular trash.

These include empty needle-less syringes and most oral medication packages.

- 2) Image : C:\Users\AppData\Local\Temp\Clipboard19384102552828.BMP

**Slide51**



Properties:

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

Objects:

1) Text Caption : Spill Clean-Up


**Slide52**

**Hazardous Drug Handling**

Personnel trained in hazardous drug spill clean-up must be available whenever hazardous drugs are being handled.

If they may be required to clean up a spill larger than a single spill kit can contain (>1000ml), they must be trained and fitted for a respirator.

If liquid hazardous drugs are handled on-site, a spill kit and appropriate cleaner, such as Surface Safe, must be available.



Navigation buttons: Back, Next

**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Personnel trained in hazardous drug spill clean-up must be available whenever hazardous drugs are being handled.

If they may be required to clean up a spill larger than a single spill kit can contain (>1000ml), they must be trained and fitted for a respirator.

If liquid hazardous drugs are handled on-site, a spill kit and appropriate cleaner, such as Surface Safe, must be available.

- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png

**Slide53****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : First, obtain a drug spill kit. Post the enclosed warning sign near the spill.
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png
- 5) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

**Slide54****Properties:**

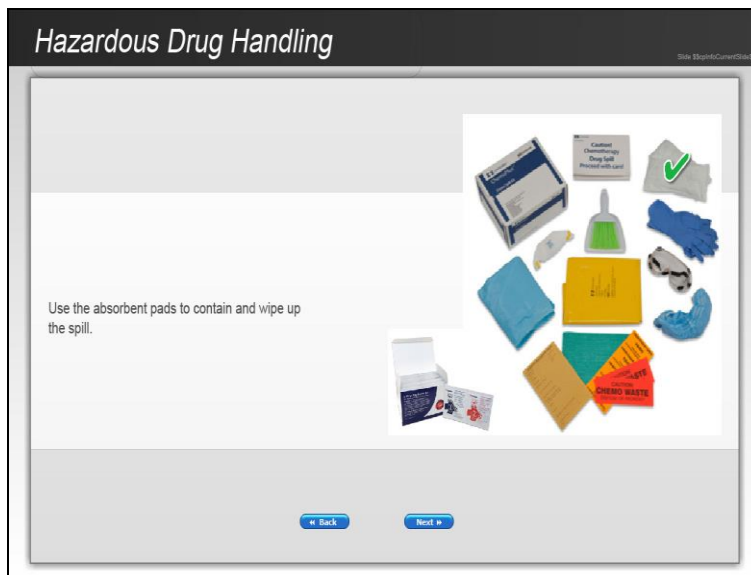
Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Next, don PPE, including a gown, eye protection, shoe covers, and 2 pairs of gloves.

Don a respirator if the spill is larger than 1000 ml.

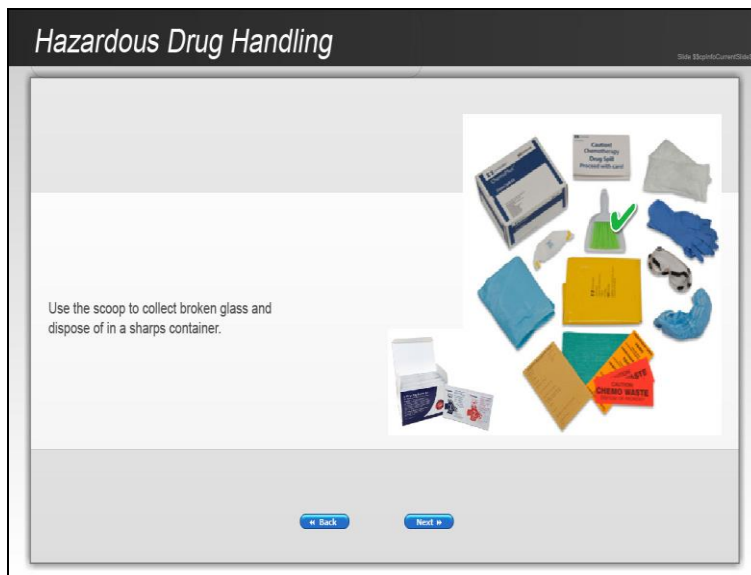
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png
- 5) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png
- 6) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png
- 7) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png
- 8) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

**Slide55****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Use the absorbent pads to contain and wipe up the spill.
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

**Slide56****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Use the scoop to collect broken glass and dispose of in a sharps container.
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

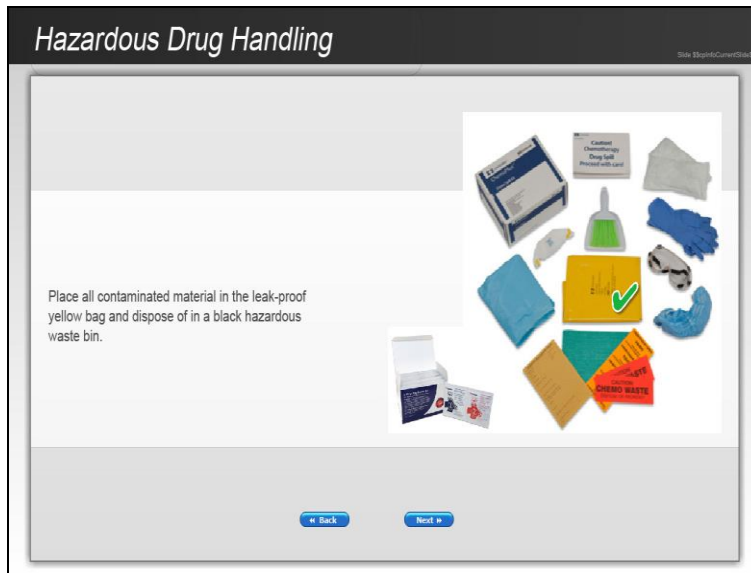


**Slide57****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

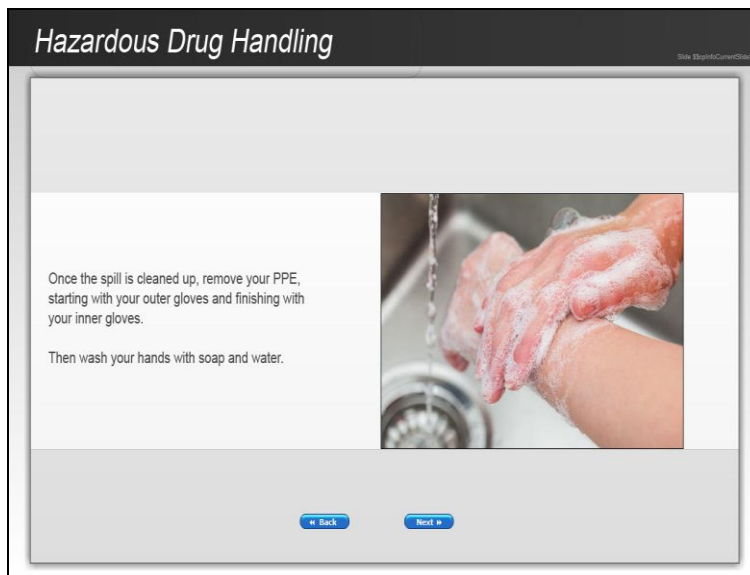
- 1) Text Caption : Decontaminate the spill area with the two-part inactivator.
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

**Slide58****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Place all contaminated material in the leak-proof yellow bag and dispose of in a black hazardous waste bin.
- 2) Image : C:\Users\\Pictures\kit1.png
- 3) Image : C:\Users\\Pictures\kit2.png
- 4) Image : Y:\EDSERV\Instructional Design\Stock Images\check-green.png

**Slide59****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

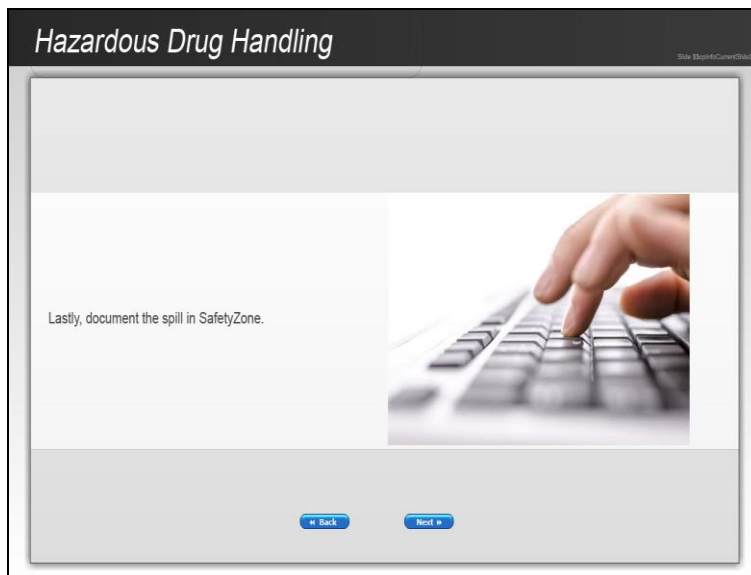
**Objects:**

1) Text Caption : Once the spill is cleaned up, remove your PPE, starting with your outer gloves and finishing with your inner gloves.

Then wash your hands with soap and water.

2) Image : C:\Users\\Pictures\USP8000\Shutterstock Order\shutterstock\_630315251.jpg

**Slide60**

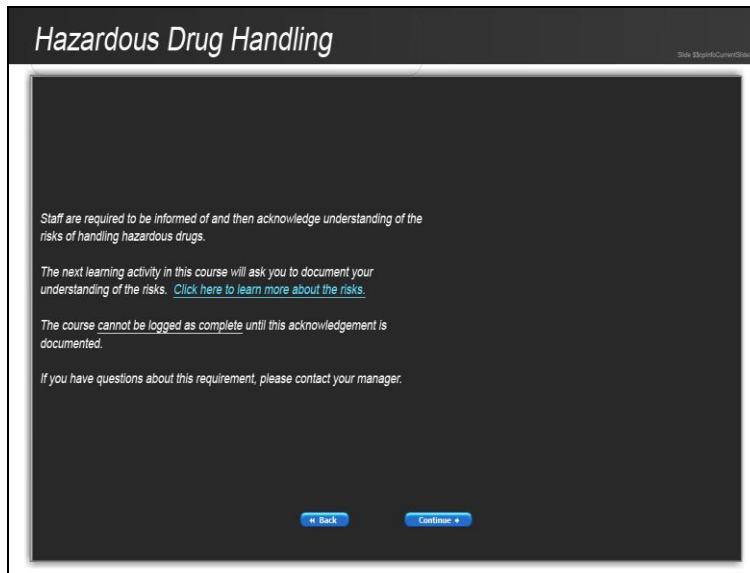


**Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

- 1) Text Caption : Lastly, document the spill in SafetyZone.
- 2) Image : Y:\EDSERV\Instructional Design\Stock Images\keyboard.png

**Slide61****Properties:**

Display Time	: 600.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

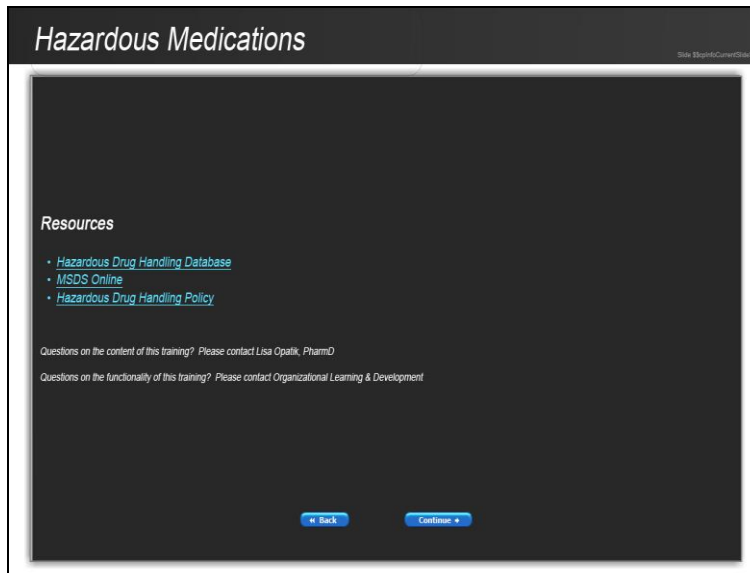
**Objects:**

- 1) Text Caption : Staff are required to be informed of and then acknowledge understanding of the risks of handling hazardous drugs.

The next learning activity in this course will ask you to document your understanding of the risks.  
Click here to learn more about the risks.

The course cannot be logged as complete until this acknowledgement is documented.

If you have questions about this requirement, please contact your manager.

**Slide62****Properties:**

Display Time	: 3.00sec
Transition	: No Transition
Navigation	: No Action
Audio	: None

**Objects:**

1) Text Caption : Resources

Hazardous Drug Handling Database

MSDS Online

Hazardous Drug Handling Policy

Questions on the content of this training? Please contact Lisa Opatik, PharmD

Questions on the functionality of this training? Please contact Organizational Learning & Development

