Safe Work Procedure for Preparation of PV/PR Hazardous Drugs

Site Applicability

All Providence Health Care sites, including acute, long term care, and ambulatory care areas, where hazardous drugs are prepared outside of pharmacy.

Practice Level

Basic:

• All clinicians with medication preparation and administration within their scope.

Requirements

A risk assessment (Appendix A) must be in place for this Safe Work Procedure to be followed.

Need to Know

- The final dosage form of a drug is a unit-dose packaged drug, ready to be administered to the patient without any preparation by the clinician.
- Preparation is any action taken to alter a drug product by means other than compounding or repackaging.
- When a hazardous drug is provided in the final dosage form the clinician is to follow the
 precautions outlined in the Control Matrix of the Exposure Control Program (<u>Appendix B</u>) for
 administration.
- This document outlines the steps to follow when preparation of the hazardous drug is required outside of pharmacy.
- Based upon a point of care risk assessment, conduct preparation in a low traffic area such as a medication room, alcove, or the patient's room as appropriate.
- All areas where hazardous drugs are stored, prepared or administered must have a Cytotoxic Spill Kit available

Equipment and Supplies

- Accelerated hydrogen peroxide wipes (i.e. Accel Intervention)
- 4 x 4 Gauze
- Applicator
- Plastic backed pad
- PPE:
 - Two pairs of chemo-approved gloves

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- Chemo-approved gown
- Eye and face protection (i.e. medical mask, and full face shield, or goggles)

Procedure

Work Surface Preparation:

1. For all procedures below, place plastic backed pad on surface on which the hazardous drug will be prepared.

Preparing for dose administration:

- 1. Remove cap from the medicated tube.
- 2. Remove applicator from packaging and screw nozzle end of applicator on to medication tube.
- 3. Hold as a single unit in upright position with applicator on top and medication tube below.
- 4. Gently squeeze the tube from the bottom to force sufficient cream into the barrel to provide the prescribed dose. Unscrew applicator from vaginal cream.
- 5. Wipe off any excess medicated cream from the opening of the tube with gauze.
- 6. Dispose of applicator as per Appendix B Waste Management.

Work Surface Cleaning

1. After procedure above, the work surface must be cleaned and decontaminated using a two-step process using accelerated hydrogen peroxide wipes (i.e. Accel Intervention).

Related Documents

• Low Level Cleaning and Disinfection (Infection Control)

References

Adapted from Elsevier – <u>Medication Administration: Vaginal Instillations – CE</u>

Premarin. (2021). How to Apply Premarin Vaginal Cream. Retrieved from https://www.premarinvaginalcream.com/sites/default/files/2022-04/PP-PVC-USA-0783 PVC How to Apply Guide.pdf

Appendices

- Appendix A: Risk Assessment
- Appendix B: Providence Health Care Hazardous Drug Control Matrix

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Appendix A: Risk Assessment

A. Detailed Risk Assessment

Site:	All PHC acute, long term, and ambulatory sites	Unit:	Generic template
Date of assessment:	02-FEB-2022	Next review date (1 year)	02-FEB-2023
Name of Drug:		Drug Group (1 or 2)	Group 1 or 2
Route of Administration:	Vaginal Instillation	Formulation:	Cream

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1.	Reason pharmacy unable to provide final dosage form. Check all that apply:
	oxtimes Biological safety cabinet (BSC)/ Containment – Primary Engineering Control (C-PEC) not available
	oxtimes Pharmacy staff are not available (e.g. qualifications, outside of operational hours) $oxtimes$ Transportation limitations/restrictions
	Stability of drug
	\square Anticipated urgency (i.e. urgent need for drug administration)
2.	Proposed deviation from standard practice (e.g. drug will be crushed, mixed, combined etc.):
	a) Prepared with an appropriate applicator
3.	Based on the required type of preparation, what are the potential exposure routes (i.e. without
	control measures in place, how could staff be exposed?). Check all that apply:
	□ Absorption (skin and eye contact)
	☐ Inhalation
	☑ Ingestion (eating/drinking)
	☐ Puncture (needle stick)
	☐ Other (describe):
4.	Based on the type of preparation and/or formulation, is there a risk of environmental
	contamination?
	⊠ Yes
	□ No
	LI NO

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1. Proposed Engineering Control(s):

B. Alternate Control Measures for Development of Safe Work Procedures

Use the list below to identify control measures for the development of Safe Work Procedures (SWP) or reviewing an existing Safe Work Procedure for applicability. Note that when identifying control measures, **the hierarchy of controls must be considered**. In this process, engineering controls must be considered prior to or, in addition to, personal protective equipment (PPE).

The following lists can help to identify control options. Check all that applies and provide details in the SWP on how the control measures are utilized to prevent exposure. Refer to the Exposure Control Plan: Managing the Risks.

	☐ Closed System Transfer Device
	☐ Filtered Venting Device
	☐ Pill crusher (enclosed system)
	☐ Pill dissolver (enclosed system)
	☐ Pill cutter (enclosed system)
	oximes Other (describe): Appropriate applicator to connect to medicated tube is required.
	□ None.
2.	Proposed Administrative Control(s):
	oxtimes Education on the safe preparation technique and equipment (e.g. filtered venting device
	oxtimes Identification of a location(s) for preparation which minimizes the number of individuals
	(staff, patients etc.) potentially exposed to hazardous drugs.
	oxtimes Methods used for minimizing surface contamination identified (e.g. using dedicated
	equipment, put an absorbent pad down)
	Products and processes are in place for cleaning space post-preparation
	☑ Drug transportation and storage practices identified
	☐ Hazardous Drugs Spill kit is available and staff are trained on how to use it.
3.	Required PPE (refer to ECP Control Matrix, Decision Support Tools, and consider all potential
	routes of exposure):
	□ Chemo-approved gloves (two pairs)
	□ Chemo-approved gown
	⊠ Eye/face protection
	☐ Respiratory protection
	☐ Other (describe):

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C. Safe Work Procedure

A Safe Work Procedure must be written considering all of the factors identified in both the **A. Detailed Risk Assessment** and **B. Alternative Control Measures** sections above. The SWP must be approved as per this risk assessment process prior to the administration of the drug.

Recommendation for SWP: ☐ Utilize a standardized Safe Work Procedure, all components are achievable. ☐ Modify an existing standardized Safe Work Procedure. ☐ Develop a unit or area based Safe Work Procedure. ☐ No appropriate alternate practices or SWP can be identified, consult with your Health Authority Hazardous Drugs Working Group.

Risk Assessment and Safe Work Procedure Developed By:					
Occupational Health and Safety	Hygienist, Occupational Health and Safety				
Pharmacy	Pharmacy Coordinator				
Professional Practice and Nursing	Practice Consultant				
Risk Assessment and Safe Work Procedure Endorsed By:					
Clinical Operations	Executive Director Acute Care				
	Program Director Seniors Care				
Occupational Health and Safety	Director, Occupational Health and Safety				
Professional Practice and Nursing	Director, Professional Practice and Nursing				
Pharmacy	Director, Pharmacy (Acute Care)				
	Director, Pharmacy (Long Term Care)				

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Appendix B: Providence Health Care Hazardous Drug Control Matrix

PROVIDENCE HEALTH CARE - HAZARDOUS DRUGS CONTROL MATRIX

BC Hazardous Drug Control Matrix Nursing Section		Group 1 🛦								
		Parenteral (IV, IVe, IM, SUBCUT, IT, IP)	Oral Solid (Tablet, Capsule)	Oral Liquid	Topical, Rectal & Vaginal	Implants and Ophthalmic		Inhalation Therapy		
LABELLING MEDICATION			Passadous Drug SRCLP 1							
			Do not use tube system	Do not use tube system Do not use tube system Do not use tube system if liquid						
TRANSPORT IN FACILIT	ΓY		If transporting drugs in a reusable outer container - two pairs of chemo-approved gloves are required							
			If transporting drugs in a disposable outer container (e.g. plastic bag), PPE is not required							
PREPARATION OF	PERSO	IAI	 Ensure a Hazardous D 	rugs spill kit accompanies dru	ug transport or is readily available					
DRUGS BY NURSING	PROTE(See Safe Work Procedures							
PRIMING I	V LINES		 Do not prime IV lines w 	ith hazardous drugs						
MEDICATION ADMINISTRATION		Gloves	two pairs of chemo- approved gloves	two pairs of chemo- one pair of two pairs of chemo-approved gloves						
Drugs in final dosage	PPE	Gown	chemo-approved gown	None	chemo-approved gown if risk	of splash			chemo-approved gown	
form (including when		Eye/Face	eye/face protection	None	eye/face protection if risk of sp	lash			eye protection	
using CSTDs)		N95	None						N95 Required	
WORK SURFAC	E CLEAN	ING			gown, eye/face protection if risk of	fsplash				
				gen Peroxide 0.5% (e.g. Acc						
				18 hours following each admir	nistration of a Group 1 HD					
PRECAUTIONA	ARY PERI	OD	During precautionary period							
Place precautionary sign	age at the	hodeido or	 Required PPE: two pairs of chemo-approved gloves, chemo-approved gown, eye/face protection if risk of splash for any activities for which there is a risk of contact with pair. 							
entrance to c			with BBF							
entrance to client room			Outside precautionary period Follow routine precautions when handling blood and body fluids							
			During an individual's precautionary period all blood, urine and stool samples; other body fluids visibly contaminated with blood (except swabs and sputum) and tissues or							
			 During an invalvous is precadurary period an above, orne and successful pressions and pression organs not in fixatives must be labelled with a laboratory HD1 label 							
LABORA	TORY		All laboratory specimens from a patient in the precautionary period are to be placed in an outer sealed plastic bag. Blood specimens may be tubed, and must be labelled and							
			 An inaccious y speciments into in a parient in the prevaount of years. Proposed in two sealed bass, with the outer bad jabelled 							
		During precautionary period: All linen to be placed in Group 1 HD labelled laundry bag								
LAUNI	nev		Required PPE: two pairs of chemo-approved gloves, chemo-approved gown, eyelface protection if risk of splash							
LACINE	JIX I		Outside precautionary period: All linen to be placed in regular laundry bag							
			Required PPE: Follow routine practices							
			Drug V	/aste					e (e.g. PPE and packaging)	
			Intact solid dosage form • Manage spills according to Hazardous Drug Spill Cleanup Procedures for size of spill. See Appendix L in ECP							
SPILL MANA	GEMENT		Required PPE: one pair of chemo-approved gloves							
Hazardous drug spill ki	Hazardous drug spill kits in all areas where									
hazardous drugs are handled		All other dosage forms: Manage spills according to Hazardous Drug Spill								
		Procedures for size of spill. See Appendix L in ECP								
			Controlled Substances:		Cytotoxic Sharps Container	Where possible, dis	posed of	Cytotoxic con	ntainer	
			Pharmaceutical Waste Bin			through the sewer.	Where not			
						disposed of through				
WASTE MANAGEMENT		Non-Controlled Substance	S:		leak-proof cytotoxic	container.				
			Cytotoxic Waste Bin							
Acute/Long Term Ca	are (i.e., in	facility)	Required PPE:							
			two pairs of chemo-approved gloves							
			chemo-approved gown if risk of splash eyelface protection if risk of splash							
A OFTD C'					- CURCUIT Colombia	Interest ID In 1	in and a		Florid IID Harrandon D	
Acronyms: CSID = Closed	oystem Tra	anster Device	iv = intravenous ive = intra	vesicular IM = Intramuscul	ar SUBCUT = Subcutaneous IT	= intrathecal IP = intraper	itoneal BBF = E	slood and Body	riuid HD = Hazardous Drug	

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PROVIDENCE HEALTH CARE - HAZARDOUS DRUGS CONTROL MATRIX

PROVIDENCE HEALTH CARE – HAZARDOUS DRUGS CONTROL MATRIX										
BC Hazardous Drug Con Nursing Section	trol Matr	ix	Group 2 HD2							
rival string decators			Parenteral (IV, IVe, IM, SUBCUT, IT, IP)	Oral Solid (Tablet, Capsule)	Oral Liquid	Topical, Rectal & Vaginal	Implants and Ophthalmic		Inhalation Therapy	
LABELLING MEDICATIO	ON		Precautions Hazardous Drug Required GROUP 2 HD2							
			Do not use tube system Do not use tube system Do not use tube system if liquid							
TRANSPORT IN FACILI	TY		If transporting drugs in a reusable outer container - two pairs of chemo-approved gloves are required If transporting drugs in a disposable outer container (e.g. plastic bag), PPE is not required Ensure a Hazardous Drugs spill kit accompanies drug transport or is readily available							
PREPARATION OF DRUGS BY NURSING PROTECTIVE EQUIPMENT (PPE)			See Safe Work Procedures							
PRIMING I	LINES		Do not prime IV lines	with hazardous drugs						
MEDICATION ADMINISTRATION		Gloves	two pairs of chemo- approved gloves	one pair of chemo- approved gloves		two pairs of chemo-approved gloves				
Drugs in final dosage	PPE	Gown	chemo-approved gown	None	chemo-approved gown if risk of		None		Chemo approved gown	
form (including when using CSTDs)	'''	Eye/Face	eye/face protection if risk of splash	None	eye protection if risk of splash	eye protection if risk of splash None eye protection				
using control	N95		None N95 required							
WORK SURFACE CLEANING			Wear two pairs of chemo-approved gloves, chemo-gown, eye/face protection if risk of splash Use Accelerated Hydrogen Peroxide 0.5% (e.g. Accel Intervention wipes™)							
PRECAUTIONARY PERIOD		RIOD	Not applicable to Group 2 HD							
LABORA	TORY		Use routine practices for collection, labelling and transport							
LAUNE	RY		All linen to be placed in regular laundry bags							
				Waste	Sharps		BBF Waste 0		Other Waste (e.g. PPE and packaging)	
SPILL MANAGEMENT		Intact solid dosage form Required PPE: one pair of chemo-approved gloves		Follow routine precautions						
Hazardous drug spill kits in all areas where hazardous drugs are handled			All other dosage forms: Manage spills according to Hazardous Drug Spill Procedures for size of spill. See Appendix L in ECP							
			Controlled Substances: Pharmaceutical Waste Bin		Regular Sharps Container	through th disposed		possible, disposed of the sewer. Where not d of through sewer ular garbage or		
WASTE MANAGEMENT		Non-Controlled Substances:			ana	atomical or biohazardous				
Acute/Long Term Care (i.e., in facility)		Cytotoxic Waste Bin Required PPE:		waste per usual practices.						
7.04tor.comg 13fff 00	Acuter Long Term Care (i.e., in lacility)			oved gloves	Follow routine practices	Follow routine practices and standard procedures				
			chemo-approved gown eye/face protection if risk of splash							

Acronyms: CSTD = Closed System Transfer Device | IV = Intravenous | IV

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	Program Director Seniors Care				
	Director, Occupational Health and Safety				
	Director, Professional Practice and Nursing				
	Director, Pharmacy (Acute Care)				
	Director, Pharmacy (Long Term Care)				
Owners:	PHC				
	Occupational Health and Safety				

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