



# Clinical IS Update

**Topic:** USP 800: Safe Handling Precautions for Hazardous Medications

**Facility:** IU Health and Union Health

**Audience:** Cerner Users

**Effective Date**

Rolling Go-Live,  
Beginning July 2019

**Contact**

IU Health Help Desk  
helpdesk@iuhealth.org

**Overview:** Safe handling procedures, guidelines, and standards are published in the United States Pharmacopeia Convention (USP) to minimize the risk of exposure to hazardous drugs (HDs). IU Health is adopting the new national standards in the new system USP 800 policy & procedures.

- Order comments and patient care tasks will be out of sync during initial go live – please follow patient care task directives.
- A hybrid state of old and new classifications will exist for the duration of orders placed prior to Go-live – please follow patient care task directives.

## New Nomenclature for Hazardous Drugs

**Current State:**

- CLASS A HAZARDOUS
- CLASS B HAZARDOUS

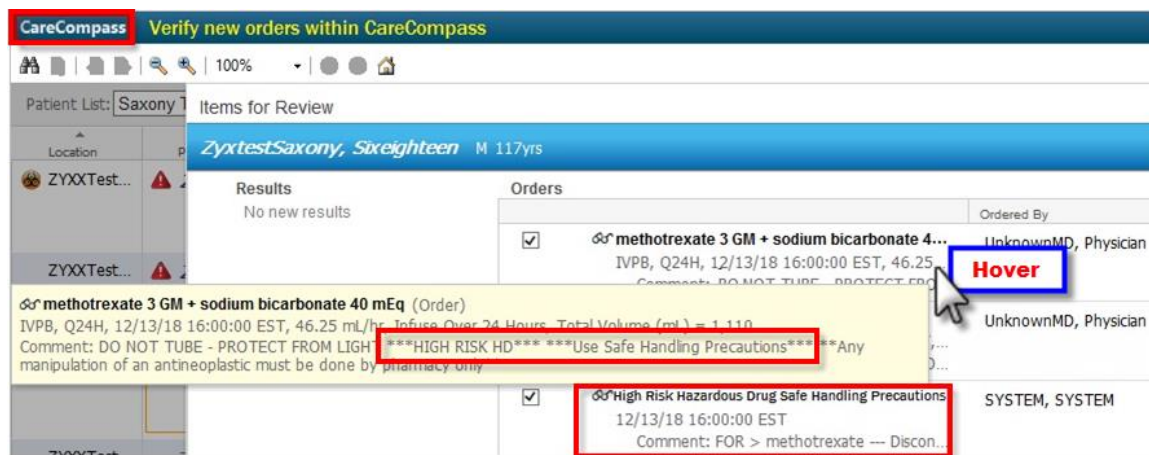
**Future State:**

- High Risk Infectious HD
- High Risk HD
- Low Risk HD
- Reproductive Risk HD

**New nomenclature will display in multiple locations, including in Cerner, Pyxis, and AccuDose, as shown below:**

**Note:** How you prescribe, review orders, access tasks, and document administration of Hazardous Drugs in Cerner will **NOT** change.

- **Order Comments** and **Patient Care Orderables** will show the new designations for Hazardous Drugs.




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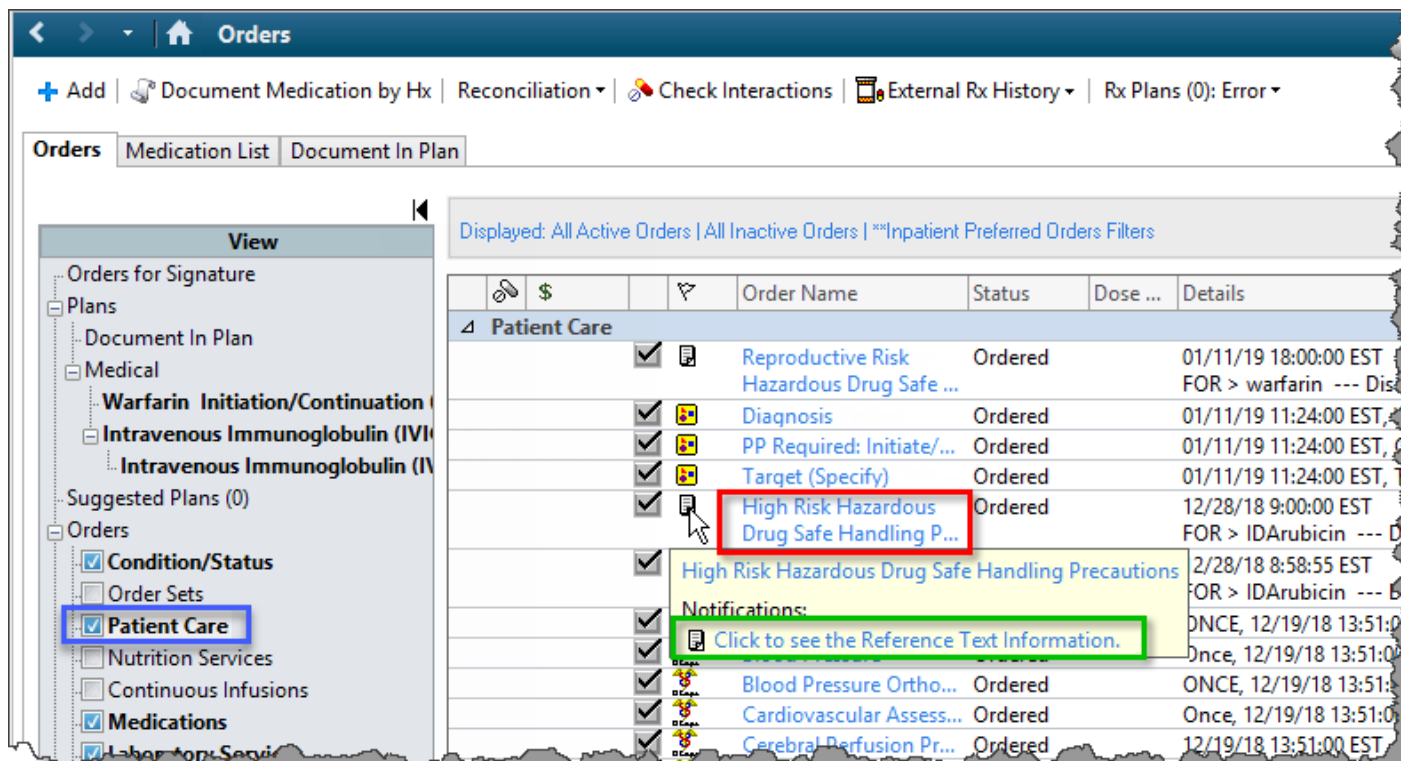
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# Clinical IS Update

## New Nomenclature (continued)

- The **Reference Text** icon  next to the **Hazardous Drug Safe Handling Precautions** order under **Patient Care Orders** indicates additional information is available by clicking the **Reference Text Information** hyperlink



Orders

Medication List Document In Plan

View

Orders for Signature

Plans

Document In Plan

Medical

Warfarin Initiation/Continuation

Intravenous Immunoglobulin (IVI)

Intravenous Immunoglobulin (IVI)

Suggested Plans (0)

Orders

Condition/Status

Order Sets

Patient Care







Nutrition Services

Continuous Infusions

Medications

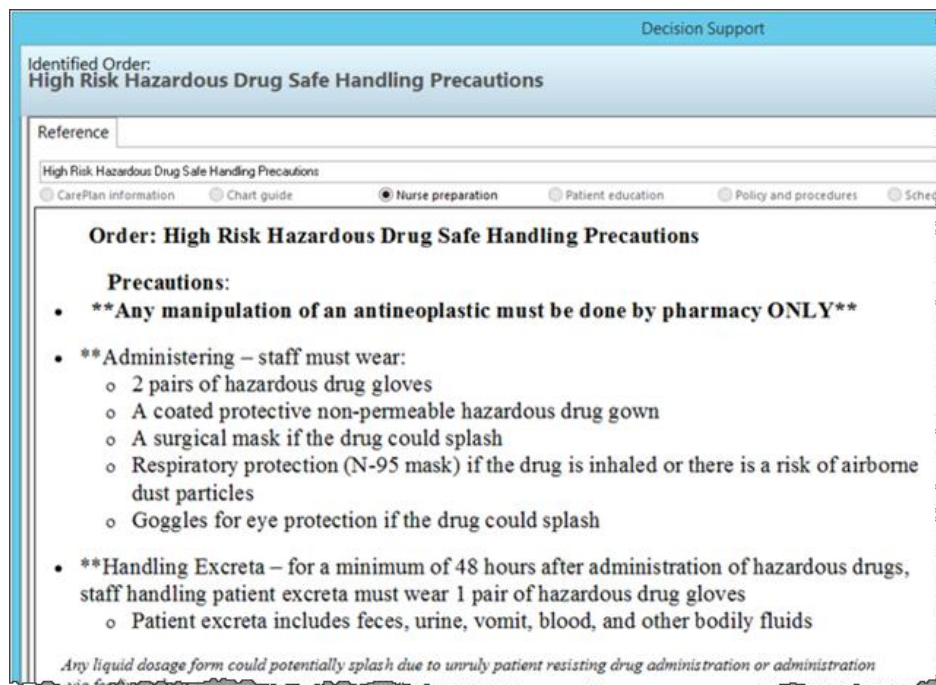
Laboratory Services

Displayed: All Active Orders | All Inactive Orders | \*\*Inpatient Preferred Orders Filters

		Order Name	Status	Dose ...	Details
✓		Reproductive Risk Hazardous Drug Safe ...	Ordered		01/11/19 18:00:00 EST
✓		Diagnosis	Ordered		01/11/19 11:24:00 EST
✓		PP Required: Initiate/...	Ordered		01/11/19 11:24:00 EST
✓		Target (Specify)	Ordered		01/11/19 11:24:00 EST
✓		High Risk Hazardous Drug Safe Handling P...	Ordered		12/28/18 9:00:00 EST
✓		High Risk Hazardous Drug Safe Handling Precautions			2/28/18 8:58:55 EST
✓		Notifications:			OR > IDArubicin --- D
✓		Click to see the Reference Text Information.			ONCE, 12/19/18 13:51:0
✓		Blood Pressure Ortho...	Ordered		ONCE, 12/19/18 13:51:0
✓		Cardiovascular Assess...	Ordered		ONCE, 12/19/18 13:51:0
✓		Cerebral Perfusion Pr...	Ordered		12/19/18 13:51:00 EST

This opens reference text information identifying safe handling precautions for the Hazardous Drug.

**Note:** The patient care orderable contains information to minimize HD exposure to personnel when manipulating, administering, and caring for patients. These personal protective equipment requirements are also in the IU Health policy.



Decision Support

Identified Order:  
High Risk Hazardous Drug Safe Handling Precautions

Reference

High Risk Hazardous Drug Safe Handling Precautions

CarePlan information Chart guide Nurse preparation Patient education Policy and procedures Sched

Order: High Risk Hazardous Drug Safe Handling Precautions

Precautions:

- **\*\*Any manipulation of an antineoplastic must be done by pharmacy ONLY\*\***
- **\*\*Administering – staff must wear:**
  - 2 pairs of hazardous drug gloves
  - A coated protective non-permeable hazardous drug gown
  - A surgical mask if the drug could splash
  - Respiratory protection (N-95 mask) if the drug is inhaled or there is a risk of airborne dust particles
  - Goggles for eye protection if the drug could splash
- **\*\*Handling Excreta – for a minimum of 48 hours after administration of hazardous drugs, staff handling patient excreta must wear 1 pair of hazardous drug gloves**
  - Patient excreta includes feces, urine, vomit, blood, and other bodily fluids

*Any liquid dosage form could potentially splash due to unruly patient resisting drug administration or administration*

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# Clinical IS Update

## New Nomenclature (continued)

- The **Hazardous Drug order comment** is displayed on the eMAR

Medications		12/13/18 16:00 EST
Scheduled		
methotrexate 3 GM sodium bicarbonate 40 mEq IVPB, Q24H, 12/13/18 16:00:00 EST, 46.25 mL/hr, Infuse Over 24 Hours, Total Volume (mL) = 1,110 DO NOT TUBE - PROTECT FROM LIGHT ***HIGH RISK HD*** ***Use Safe Handling Precautions*** **Any manipulation of		Overdue Not previously given
methotrexate	methotrexate 3 GM + sodium bicarbonate 40 mEq	
sodium bicarbonate	IVPB, Q24H, 12/13/18 16:00:00 EST, 46.25 mL/hr, Infuse Over 24 Hours, Total Volume (mL) = 1,110	
Dextrose 5% in Water		
mycophenolate mofetil		
500 mg, IVPB, BID, 12/13/18 18:00:00 EST, 50 mL/hr, Infuse Over 2	DO NOT TUBE - PROTECT FROM LIGHT	
*** DO NOT TUBE *** ***LOW RISK HD*** *****Use Safe Handlin	***HIGH RISK HD***	
mycophenolate mofetil	***Use Safe Handling Precautions***	
Dextrose 5% in Water	**Any manipulation of an antineoplastic must be done by pharmacy only**	

- The **Hazardous Drug** text displays in Pyxis next to **Administration Instructions** on the medication list screen

**CTPHARM, EVAN** (000396540825)  
28 y (1/1/1990) U Location: 4JMS 432125 Status: Admitted Allergies: See eMAR for allergy information

Due Now (5) PRN (2) All Orders

Name/Dose	Due	Name/Dose	Due
<b>Amoxicillin (Amoxil)</b> 500 mg Capsule Dose: <b>500 mg Orally</b> Frequency: <b>Every eight hours (06:00, 14:00, 2...</b> Last Removed: 500 mg Capsule 10/17/2018 13:32 RN1, 14:00			
<b>Anastrozole (Arimidex)</b> 1 mg Tablet Dose: <b>1 mg Orally</b> Frequency: <b>One time only (15:00); once a day (0...</b> Last Removed: Never 15:00			
<b>Administration Instructions</b> ***Low Risk HD*** *****Use Safe Handling Precautions***** ***Any manipulation of an antineoplastic must be done by pharmacy ONLY**			
Generic Name: Anastrozole Brand Name: Arimidex MedID: 1787549 Order# 15493182649 Physician: UnknownMD, Physician Frequency: One time only (15:00); once a day (09:00) Route: Orally Start: 10/25/2018 15:00 End: --			

Past Removed Override System Kits Cancel Remove Med

TEST ENVIRONMENT

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# Clinical IS Update

- The **Hazardous Drug** text also displays in **Administration Instructions** in the medication removal screen

**Remove**

**CTPHARM, EVAN** (000396540825)  
28 y (1/1/1990) U Location: 4JMS 43212S Status: Admitted Allergies: See eMAR for allergy information

**Anastrozole (Arimidex) 1 mg Tablet**  
Dose: 1 mg  
Last Removed: Never

**Administration Instructions:** \*\*Low Risk HD\*\*  
\*\*\*\*\*Use Safe Handling Precautions\*\*\*\*\*  
\*\*Any manipulation of an antineoplastic must be done by pharmacy ONLY\*\*

**Remove 1 Tablet**  
From **Main Drw 1-Pkt 4**

Change Order Amount Cancel Med Accept

- Hazardous Drug** alert messages display in the **Safe Handoff** and **Patient Transportation Reports**

**Indiana University Health  
IUH Methodist Hospital  
Safe Handoff / Pt Transportation Report**

Date: 03/07/2019

**Ctp Pharm, Drc** MRN: 76023220 Locat

Date of Birth: 08/07/1968 Admission Date: 08/07/2018 LOS: 212.0 Days FIN: 0003  
Age: 50 Years Sex: Male  
Code Word for Release of Information: Code Status: 0  
Advance Directive Notes:  
IntraOP Antibiotic:  
Reason for Visit: alert fatigue Chief Complaint: Acc. Code  
Attending: EVTEST, OEPEDSCAPP Admitting: Botkin, John A, MD Consulting  
MED SVC: Hospitalist Specialty B

**Allergies**  
Drug: ondansetron; encorafenib; elagolix  
Environment:  
Food:  
Other:  
Ebola Risk:  
Vaccine:  
Precautions:  
Non-Chemo Vesicant Precautions -  
Fall Precautions -  
**High Risk Hazardous Drug Safe Handl -**  
**Reproductive Risk Hazardous Drug Sa -**

*This notifies health care providers the patient has received Hazardous Drugs within the last 48 hours.*

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