

**LEGACY HEALTH**

## USP <800> & FormWeb

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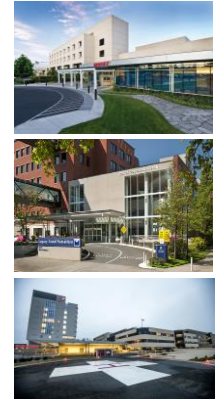
EMANUEL | GOOD SAMARITAN | MERIDIAN PARK | MOUNT HOOD | SALMON CREEK | SILVERTON  
RANDALL CHILDREN'S HOSPITAL | LEGACY MEDICAL GROUP | LEGACY HEALTH PARTNERS | LEGACY HOSPICE | LEGACY LABORATORY | LEGACY RESEARCH

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May 24, 2018 LEGACY HEALTH 2

### Legacy Health

- Legacy is a 7-hospital health system with locations throughout Portland-Vancouver metro area to the Mid-Willamette Valley
  - Two tertiary, teaching medical centers
    - Emanuel – Level 1 Trauma Center
    - Good Samaritan
  - One pediatric medical center
    - Randall Children's – Level 1 Trauma Center
  - Four community medical centers
- EHR: Epic Hyperspace (currently 2017)



May 24, 2018 LEGACY HEALTH 2

### USP <800>

- "There was a known risk of hazardous drug [HD] exposure in healthcare settings from published medical reports, but there was no enforceable standard to minimize the potential risk of exposure" – USP <800> FAQ's
- Applies to all healthcare personnel who handle HD preparations and all entities that store, prepare, transport, or administer HDs
- Anticipated to become official on December 1, 2019



May 24, 2018 LEGACY HEALTH 3

### Early Adoption of USP <800> at Legacy Health

- Need for Hazardous Drug handling policy update found in 2015
  - USP <800> first published March 2014 for public comment



May 24, 2018 LEGACY HEALTH 4

### Early Adoption of USP <800> at Legacy Health

The chapter is organized into the following main sections:

1. Introduction and Scope
2. List of Hazardous Drugs
3. Types of Exposure
4. Responsibilities of Personnel Handling Hazardous Drugs
5. Facilities and Engineering Controls
6. Environmental Quality and Control
7. Personal Protective Equipment
8. Hazard Communication Program
9. Personnel Training
10. Receiving
11. Labeling, Packaging, Transport, and Disposal
12. Dispensing Final Dosage Forms
13. Compounding
14. Administering
15. Deactivating, Decontaminating, Cleaning, and Disinfecting
16. Spill Control
17. Documentation and Standard Operating Procedures
18. Medical Surveillance



May 24, 2018 LEGACY HEALTH 5

### Developing our Hazardous Drug Policy

#### Two Challenges...

"An entity must maintain a list of HDs, which must include any items on the current NIOSH list that the entity handles. The entity's list must be reviewed at least every 12 months. Whenever a new agent or dosage form is used, it should be reviewed against the entity's list."

– USP <800>; Section 2

"Personal Protective Equipment (PPE) provides worker protection to reduce exposure to HD aerosols and residues. Additional PPE may be required to handle the HDs outside of a C-PEC, such as treating a patient or cleaning a spill."

– USP <800>; Section 7



May 24, 2018 LEGACY HEALTH 6

“maintain a list of HDs”...

- NIOSH lists as 3 groups
  - > [Group 1](#) – antineoplastic drugs
  - > [Group 2](#) – non-antineoplastic drugs meeting 1+ criteria for HD
  - > [Group 3](#) – drugs that primarily pose a reproductive risk
  
- Risk categories – categories based upon the type of hazardous drug defined and an assessment of risk performed by Legacy Health to guide in the personnel handling of hazardous drugs.
  - > [High risk](#) – these selected agents shall encompass NIOSH Group 1 identified medications.
  - > [Medium risk](#) – these selected agents shall encompass NIOSH Group 2 identified medications.
  - > [Low risk](#) – these selected agents shall encompass NIOSH Group 3 identified medications.

“maintain a list of HDs”...

The screenshot shows the Legacy Health Approved Hospital Formulary interface. It includes search filters for Pharmacy, Inpatient, and Outpatient. A list of drugs is displayed with columns for drug name, NIOSH Group, and Risk Category. A yellow arrow points to the 'High Alert' section of the list.

Developing our Hazardous Drug Policy

Two Challenges...

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Personal Protective Equipment (PPE)...

The screenshot shows the drug information page for bleomycin. It lists brand names, dosage forms, and additional information. A red circle highlights the PPE requirements: High Alert: CAUTION, See Hospital Medication Policy; HazD High: Chemo PPE and Disposal; HazD High: HazD Policy; Black Box Warning: Pulmonary fibrosis, idiosyncratic reactions.

Personal Protective Equipment (PPE)...

Information Information: Hazardous Drug (HD)

**MEDIUM RISK HD**

Definition: Medium risk HDs are all HDs not listed as High Risk. Some medium risk HDs are exempt from PPE for handling and disposal of waste. Some require special PPE.

PPE (Personal Protective Equipment) required for MEDIUM RISK HDs:

Contaminant	Activity	Wear	Remove	Use	Precaution
Antineoplastic	Dispensing, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes
Antineoplastic	Preparation, handling, and disposal	Gloves, Goggles, Apron	Gloves	Yes	Yes

DISPOSAL OF MEDIUM RISK HDs with HD Waste Stream: Indicated with HD.

1. If drug, remove, in full, after emptying with the remaining. 2. If drug, remove, in full, after emptying with the remaining. 3. Handling from use to disposal (the report) 4. Handle, empty, and seal container.



LHS FormWeb and Epic Demo



## The initial FormWeb Build

- Focused on ability to update easily
  - > Eliminate need to make eRx changes within Epic
  - > Using Listings (vs "additional information", which we house policy)
  - > Uploaded PPE data sheets on FormWeb Server with simple naming
- With each drug addition, evaluation of HazD level...
  - > Monoclonal antibodies (mAb) (*NIOSH 2016 change*)
  - > Investigational Drugs
  - > Patient's Own Medications (POM) (*ex: alitretinoin*)
  - > Clinic-specific drugs (*ex: belimumab*)
- Can extract lists (Admin / Reports ) as needed
- Education for all pharmacy and nursing staff (SLM)
- Legacy provided the information and worked with FormWeb team for initial build



## Maintaining FormWeb monographs

- USP <800> anticipated to become official on December 1, 2019
- NIOSH 2016 → NIOSH 2018 (coming September 2018)
- The entity's list must be reviewed at least every 12 months
- Each new medication requires an assessment of risk



Questions?

