Equashield CSTD

Closed System Transfer Devices - CSTD

- **A CSTD is a drug transfer device that mechanically prohibits the transfer of environmental contaminants into the system and the escape of hazardous drug (HD) or vapor concentrations outside the system.**
  - CSTDs are designed to protect the sites prone to leakage during HD compounding and administration activities.
    - Protects the individual working with and around HDs.
    - Prevents the release of aerosols, vapors and droplets into the environment.
    - Decreases surface contamination of HDs.
- **This device is not only used for antineoplastic, but other hazardous drugs as well**
- **Continue to use current PPE until otherwise notified**

Equashield CSTD Supplies

Leur Lock Adaptor:	Female Connector:	Protective Plug:
Purpose: connects to needleless connector	Purpose: connects to syringe	Purpose: protects the end of female connector from contamination

Medication delivery with CSTD

Elastomeric C-Series with CSTD

Changes:

1. Female connector placed at the end of the tubing
2. New spike connector

CADD Solis Administration Bag with CSTD

Single Lumen Lab Draw via CSTD

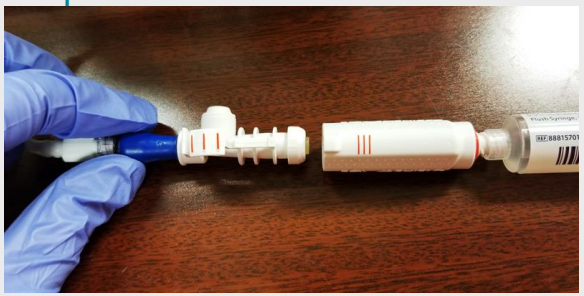
1. Gather Supplies:
   a) Lab draw kit
   b) Lab in a bag
   c) Alcohol wipe
   d) 1 – protective plug
   e) 1 – female connector
   f) 1 – leur lock adaptor

2. Set up supplies and attach female connector to prefilled syringe

3. Stop infusion and place protective plug on end of female connector

4. Scrub end of leur lock adaptor with alcohol for 15 seconds

5. Remove red protective plug. Line up red to red, and push-on female connector to leur lock adaptor



6. Aspirate for blood return and pulse flush

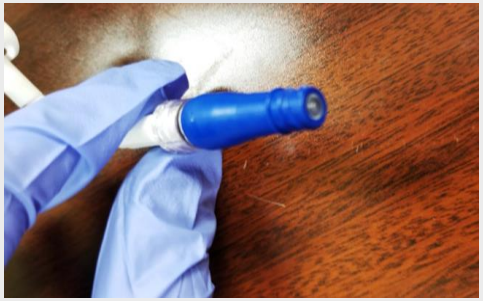
FAIRVIEW

Single Lumen Lab Draw via CSTD - Continued

7. Press red lever and pull to remove female connector from leur lock adaptor

8. Remove leur lock adaptor from needleless connector

9. Preform lab draw from needleless connector, per protocol



10. Change needleless connect and connect new leur lock adaptor

11. Reconnect medication. Red to red and push female connector onto leur lock adaptor

12. Place all CSTD devices, and PPE in black hazardous waste container

Double Lumen or Y-site Lab Draw

1. Don appropriate PPE	2. If Y-site, apply clamp to medication	9. Connect pre-filled 0.9% syringe to needleless connector. Aspirate for blood return and pulse flush. (Note, if any CSTD is connected to needleless connector, remove and proceed)
10. Preform lab draw from needleless connector, per protocol	11. Change needleless connect per FHI procedure	12. Unclamp medication line, if applicable. Dispose of PPE in black hazardous waste container.

Disconnecting Medication via CSTD

Gather supplies:

a) N95 mask
b) Chemo disconnect kit (2 – pairs chemo rated gloves, chemo rated gown, absorptive mat, blue cap, yellow bag, 0.9% sodium chloride flush)
c) Alcohol wipe
d) 1 – female connector
e) Heparin, if applicable

2. Set up field and connect female connector to prefilled syringe. Place unwrapped heparin on field, if applicable.

3. Don PPE and disconnect medication by pressing on red lever and pulling apart.

4. Scrub end of leur lock adaptor with alcohol for 15 seconds

5. Remove red protective plug. Line up red to red, and push-on female connector to leur lock adaptor

6. Aspirate for blood return and pulse flush

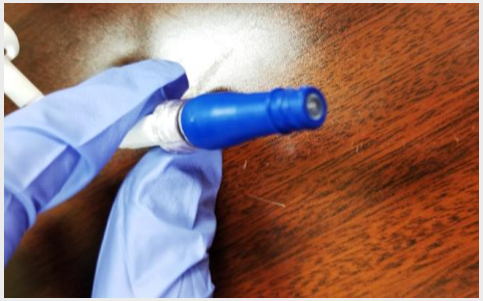
FAIRVIEW

Disconnecting Medication via CSTD - Continued

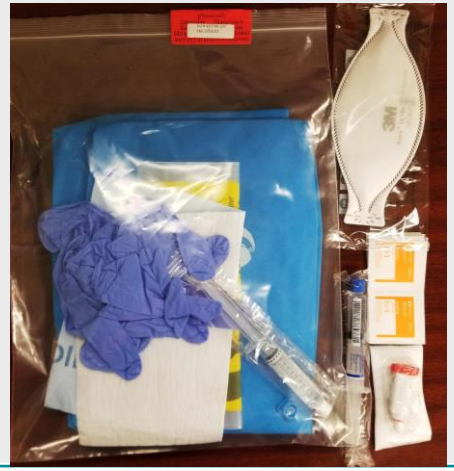
7. Press red lever and pull to remove female connector from leur lock adaptor

8. Remove leur lock adaptor from needleless connector

9. Scrub needleless connector with alcohol for 15 seconds. Flush with heparin, if applicable



10. If applicable, de-access patient

11. Place medication container, tubing, all CSTD devices, PPE, and port needle, if applicable, in black hazardous waste container

Supplies for disconnect: