

# **Ethanol Lock Therapy (ELT)**

## **Purpose Statement**

- To prevent central line associated blood stream infection (CLABSI) in patients with recurrent infections and/or limited intravenous (IV) access.
- Attempt to salvage central venous catheters (CVC) in children with limited intravascular access.

### **Goal**

• To standardize the ordering and administration of ethanol locks.

## **ETHANOL LOCK THERAPY (ELT)**

For Salvage of Central Venous Catheters (CVC)



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#### **PURPOSE:**

To attempt salvage of central venous catheters (CVC) in children with limited intravascular access.

# Ethanol Lock Therapy (ELT) may be considered for:

- Prevention of central line associated blood stream infection (CLABSI) in patients with recurrent infections and/or limited intravenous (IV) access
- 2. Require salvage of the current CVC due to inability to place catheter elsewhere

#### **Inclusion Criteria**:

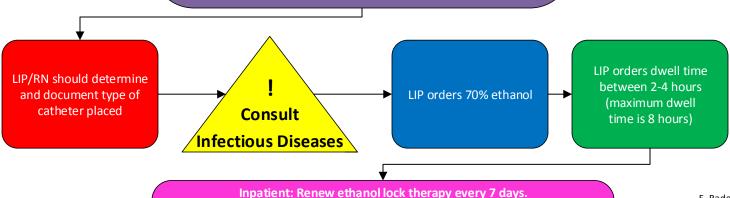
- Weight ≥ 5 kg
- Must be an uncomplicated CLABSI without persistent bacteremia
- Must have another intravenous site available for medications during the ethanol lock period, if required
- Must have an ethanol compatible central catheter. Review manufacturer's instructions for use.

#### **Exclusion Criteria:**

- Weight < 5 kg
- Any signs of exit site infection, sepsis, tunnel infection, or hemodynamic instability
- <2Fr catheter due to thrombosis risk</li>
- Polyurethane catheter
- Known allergy or sensitivity to ethanol, or genetic inability to metabolize ethanol (e.g. aldehyde dehydrogenase deficiency)
- Receiving any of the following medications (PO/IV) within the designated time (days/hours)
  - -Heparin, including TPN (currently)
  - -Metronidazole (48 hours)
  - -Disulfuram (7 days)
  - -Isoniazid (24 hours)
  - -Rifampin (24 hours)
  - -Pyrazinamide (24 hours)
- Use with caution in patients with liver disease/dysfunction
- Objections due to social or religious reasons/recovering alcoholics
- **NOT** compatible with polyurethane

#### Catheter Exclusion Criteria:

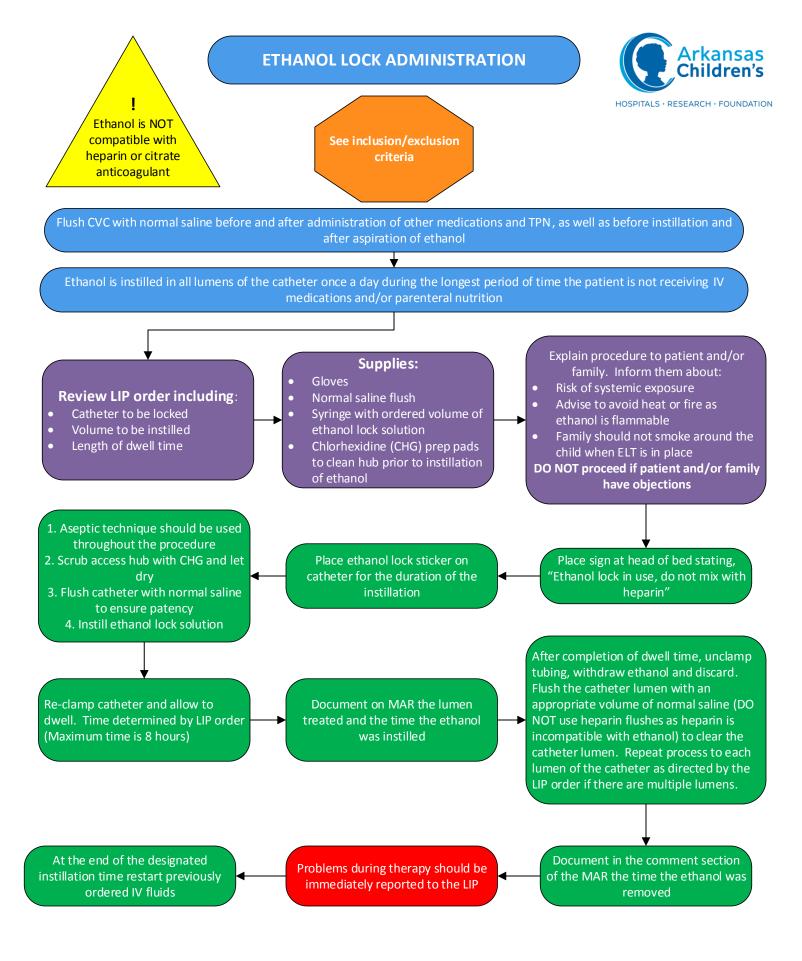
- Catheter tip not located in a central vein
- Catheter manufactured from material other than silicone
- Catheter impregnated with antibiotic or other chemical
- Catheter type unknown



Inpatient: Renew ethanol lock therapy every 7 days.

Upon Discharge: Duration at discretion of physician in charge of ongoing care.

E. Rader 4/19/19





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In progress...



# **Contributing Members**

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# **References**

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https://apps.umchealthsystem.com/forphysicians/medicalorders/Ref%20-%20Ethanol%20Lock%20for%20Central%20IV%20Cath%20Guidelines%20-%20WithOUT%20Table%202.pdf