# Alaris IV pump module Competency

**PLEASE PRINT CLEARLY.** To receive credit on your educational record, email the staff member's name and course code to FHCompetency@froedterthealth.org

| Name: ___________________________ | Unit: ___________________________
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee Identification Number: __________________</td>
<td>Date: ___________________________</td>
</tr>
</tbody>
</table>

Instructions: Place a check mark in each box to indicate level of competency. Rate each task/skill from 1 to 3 using the following scale:

- 1 = NI Needs Improvement - Unable to perform skill or task without additional education/training
- 2 = AG Assistance Given - Performs the task/skill with the assistance of a resource person
- 3 = I Independent - Performs the task/skill independently

85% minimum required for successful completion

<table>
<thead>
<tr>
<th>Skills/Tasks</th>
<th>I 3</th>
<th>AG 2</th>
<th>NI 1</th>
<th>Preceptor Initial/Date</th>
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## Pump Description
- Safety Software and pump technology
- Guardrails Drug Library
  - Profiles are Patient Care Areas: i.e Critical Care, Med surg, ED
  - Medication library will have hard and soft limits in programming

## Anatomy of device

1. **Alaris® PC Unit**
   - Screen
   - Soft Keys
   - Hard Keys
   - On/Off
   - Silence

2. **Alaris® Pump module**
   - Channel Select
   - Pause
   - Channel Off
   - Air Inline detector
   - IUI Connector

3. **Modular System**
   - Attaching module – 45 degree angle
   - Blue Lever to release or remove module
   - IUI connectors

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**FOR STAFF DEVELOPMENT USE ONLY**

Successful completion 85%

Date Created: 09/11/2013
Course Code: EDS1300658
Created by: LO/CE
### Starting Pump

<table>
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<tbody>
<tr>
<td>1.</td>
<td>System On</td>
<td></td>
<td>Yes/NO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>New Patient</td>
<td></td>
<td>Yes/No</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3.</td>
<td>What Profile pump was last used</td>
<td></td>
<td>Yes/NO</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4.</td>
<td>Patient ID#</td>
<td></td>
<td>Enter Unit ID number</td>
<td></td>
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<td></td>
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### Programming – Primary Infusion (Maintenance IV)

1. Channel Select
   - Guardrails® Drugs
   - Guardrails® IV Fluids
   - Basic Infusion
2. Use quick tabs on right side of screen to scroll to find Maint. IV fluid
   Select “YES”
3. Select VTBI
4. Select Rate
5. Press Start

### Titrating Rate

1. Channel Select
2. Highlight Rate and enter new rate
3. Select Enter

### KVO and Restore Fluid

1. Channel Select
2. Highlight VTBI and enter 0.2 mL/hr and press start
3. Alarm will sound – Lighthouse on module will light up red.
4. Channel Select again
5. Highlight VTBI and re-enter volume
6. Press Start

### Secondary – IV Piggyback

1. Channel Select on module running Maint IV fluid
2. Look at bottom of screen and select SECONDARY
3. Use quick Tabs and locate medication
4. Select “YES”
5. View Settings and press NEXT to confirm
6. VTBI will be pre-populated
   • Pre-populated VTBI may be adjusted if appropriate to do so
7. Enter DURATION
8. Note: When duration is entered Rate will be automatically calculated
9. Review settings and press Confirm

### Secondary Complete

1. Channel Select
2. Highlight VTBI
3. Enter 0.2 mL
   • in several seconds Secondary Infusion will complete and revert back to

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**PRIMARY infusion.**

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### Titratable Infusion

1. Channel Select  
2. Program INSULIN at 10 Units/hr  
3. Enter 35 units/hr  
4. **NOTE:** Guardrails Alert – dose exceeds Guardrails® limits of –units/hr  
5. Select YES  
   • Note that after select YES, there are three arrows ↑↑↑ pointing UP on the marquee channel label and a "G" next to the medication on the main screen to clearly indicate that that drug is running outside Guardrails® limits.  
   • Any subsequent entries above the Guardrails® limits will receive an alert until it is back within the Guardrails® limits.

### Wild Card Entry

• Some medications come in several concentrations outside of the standard mix. These medications are represented as ___mg/___ml and the clinician will enter the ordered concentration.

### Programming a WEIGHT BASED DRUG

1. Press Channel Select  
2. Select Guardrails® Drugs  
3. Use quick tabs to find DOPamine  
4. select 200mg/250mL  
5. Select YES  
6. Enter Patient Weight 75kg and  
7. press NEXT to confirm  
8. VTBI should be pre-populated (maybe edited if appropriate)  
9. Select DOSE and enter 3.0 mcg/kg/min  
10. Verify settings and press START.

### Titrating Dose

1. Channel select on module running DOPamine  
2. Highlight Dose and enter 4 mcg/kg/min  
3. Press START

### TROUBLE SHOOTING

Air – In – Line – Light house is RED  
“Air – In – Line” Scrolls in channel label message display  
Assess the amount of air in the line  
• If amount of air is clinically significant, clear air from the line as recommended by hospital policy and procedure  
• If amount of air is clinically insignificant, use the RESTART key on the appropriate Alaris Pump Module to resume the infusion. This action moves air

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through the device and resets the Air-In-Line detector

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<tr>
<td><strong>If no air is seen:</strong></td>
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<td></td>
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<tr>
<td>• Ensure that the air sensor is clean and free from debris</td>
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<td></td>
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<tr>
<td>• Ensure that the set is properly seated in the Air-In-Line Detector</td>
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<tr>
<td>(using fingertip, firmly push tubing toward the back of the Air-In-Line Detector)</td>
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<td><strong>OCCLUDED - PATIENT SIDE – Lighthouse is RED</strong></td>
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<td>– Clear occlusion on patient side of the infusion below affected Alaris® Pump module</td>
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<td>– Include in your assessment the IV site, roller clamp, catheter and filter patency</td>
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<tr>
<td>– After clearing occlusion, press RESTART on the Alaris® Pump module to resume infusion</td>
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<tr>
<td><strong>PARTIAL OCCLUSION – PATIENT SIDE - Lighthouse is RED</strong></td>
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<td><strong>Turn device off</strong></td>
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<tr>
<td>1. Options</td>
<td></td>
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<tr>
<td>2. Power Down All Channels</td>
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