# ALARIS MEDLEY IV PUMP
**(Version 9.0)**

## Validation of Competency Worksheet

<table>
<thead>
<tr>
<th></th>
<th>√ Mark</th>
<th>Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Identify yellow sticker on the Pumping module and the programming module means pump has been upgraded</td>
<td></td>
</tr>
</tbody>
</table>

2. **Review upgrade changes**
   - Patient Care Profiles increase from 10 to 15
   - Drug Library increases from 1000 to 1500 drugs
   - Guardrail IV Fluid Library has hard and soft rate limits by profile
   - Dosing Units-added millimole, total dosing, nanograms
   - Initial starting values pre-populates screen with VTBI and rate
   - Bolus dose-added rapid bolus feature and Bolus dose admin rate limits
   - Non-editable concentration limits
   - BSA – added
   - Total dose limits for the following: Chemotherapy, Primary & secondary intermittent infusions
   - Secondary open clamp prompt
   - Channel Status review page
   - Default Audio Alarm per profile – customized by profile

3. **Review Data set Status page.**
   - Select system options key
   - Scroll down to Data Set Status
   - Select Data Set Status
   - View status (pending, none available or transferring)

4. **Patient Identifier (patient location)**
   - Can be changed as long as you are in the same profile
   - If changing profile, must shut pump down and then enter patient identifier
   - Select “options”
   - Select patient identifier (this is patient location)
   - Select the identifier for your unit
   - Confirm

5. **Programming infusion with Guardrails drug**
   - Load set into pump module
   - Select YES for new patient
   - Select profile appropriate for your area (there are now 8 different profiles
   - Select Patient ID and enter the unit identifier for your area
   - Select GUARDRAILS DRUG LIBRARY
   - Select HEPARIN units per hour 25000u/250 ml
   - Select YES to confirm Drug and Concentration
   - View Clinical Advisory and Select CONFIRM
   - Select NEXT to confirm correct concentration
   - Select DOSE (enter heparin dose of 500 u/hr)
   - Select VTBI (enter 200 ml.)
   - Note rate.
   - Press START (Note drug and dose scrolling on Pump Module)

6. **Program prepopulated volume in Guardrail**
   - Press Channel Select on pump module
   - Select Guardrail drugs
   - Select Ampicillin
   - Select 1GM in 50 ml
   - View 50 ml prepopulates into the VTBI and sets duration for Ampicillin
   - Select START
7. Audible Guardrail alert
   - Review a hard and Soft limit alert.
   - Select Dopamine (or Medication more commonly used in area)
   - Select dose that is higher than recommended.
   - Confirm dose (hear an audible alert and see the Advisory)
   - Select YES
   - View the G on the right side of screen
   - Press the G and it will show all medications that have out of range limits

8. Guardrails alert for duration rate
   - Press Guardrail drugs
   - Select Phenytoin
   - Select concentration
   - Confirm concentration
   - Select next
   - Select and enter duration of 3 minutes
   - Advisory "Maximum rate exceed (will not let you proceed"

9. Bolus and Rapid bolus (not all drugs are programmed to have a bolus function)
   - Press channel select
   - Select GUARDRAILS DRUG LIBRARY
   - Select HEPARIN
   - Select non-weight based heparin
   - Screen will show Heparin 25000u/250 ml. is this correct?
   - Select YES
   - Select NEXT to confirm correct concentration
   - Select VTBI (enter 250 ml.)
   - Select DOSE (enter heparin dose of 1000 u/hr) it is calculate the rate
   - Press start (note scroll bar)
   - Press channel select
   - Press bolus at bottom of screen
   - Enter 5000 units
   - Select Duration and enter 3 minutes
   - Press the Rapid bolus soft key
   - Press start
   - When bolus is complete, it will go back to original primary rate

10. Changing profiles
    - Power down pump
    - Turn back on and if will ask if this is a new patient
    - Select yes
    - It will ask yes or no to previous profile
    - Select no
    - Select appropriate profile
    - Confirm

11. Review Patient safety issues
    - Back flow priming secondary tubing
    - Clean needless ports and let dry for 30 seconds before connecting

    Avoid “Air-in-Line” alarms by:
    - Pausing pump to change primary bag
    - Adequate back priming
    - Be sure tubing is seated properly in pump
    - Label all lines appropriately
13. For VCH only - weight based medications
   - Load set into pump module
   - Select YES for new patient
   - Select PCCU profile
   - Select Patient ID and enter the unit identifier for your area
   - Select GUARDRAILS DRUG LIBRARY
   - Select cefotaxime
   - Select $\leq 40$kg
   - Cefotaxime ____mg in ____mL, is this correct?
   - Select Yes
   - Select Drug amount enter 150 mg
   - Select Diluent volume enter 10 ml
   - Select Patient weight enter 2.2 kg
   - Press next to confirm
   - Press start

Signature of staff

__________________________  Area: ______________  Date: __________

Signature of Educator/Superuser

__________________________  Area: ______________  Date: __________