

BD Alaris IV Infusion System Skills Checklist #DAHS-NSCBD18-ALARIS

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Unit:	Title:
PERFORMANCE CRITERIA - Unless otherwise specified all skills will be demonstrated in accordance with the appropriate UC Davis Health Policy and Procedure.	
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References: 1. UC Davis Health Policy 13056: Parenteral Infusion Pump Use 2. UC Davis Health Policy 13016: Intravenous Patient Controlled Analgesia Infusion - Adult/Pediatric 3. UC Davis Health Policy 13033: Administration of Adult and Pediatric IV Medications		
Complete the assigned Alaris eLearning modules in UC Learning		
BD Alaris IV Infusion System policies and procedures reviewed		
Alaris™ Pump module		
<u>Demonstrate Pump Setup</u> – The patient’s heart level should be in line with [CHANNEL SELECT] key – Closes the administration set roller clamp when the safety clamp is open, to prevent free flow – Does not use needles or blunt cannulas to access a SmartSite™ Needle-Free Valve – Swabs the SmartSite™ Needle-Free Valve with a sterile 70% isopropyl alcohol wipe prior to any connection <u>Demonstrate System Start Up and Operation</u> – Understanding of what happens when [NEW PATIENT] is selected – Understanding of the Patient Care Profile and how to change it <u>Demonstrate Programming with Guardrails™ Safety Software</u> – Programming a primary infusion on the Alaris™ Pump module – Responding to a Guardrails™ Soft or Hard Limit alarm with audio alerts and visual prompts – Programming an intermittent infusion on the Alaris™ Pump module – Programming a Volume/Duration infusion on the Alaris™ Pump module – Use of the "RESTORE" feature (previous programming, VTBI, bolus) – Programming a medication bolus and describing the "Rapid Bolus" infusion feature – Pausing an infusion by pressing the [PAUSE] hard key on the pump module and the PC unit – The appropriate head height differential when hanging a 2° medication bag, or a 2° medication bottle <u>Demonstrate Basic Programming Without Guardrails™ Safety Software</u> – Programming of a Basic Infusion. Verbalize safety concerns when this mode is used		
Alaris™ Syringe module		
<u>Demonstrate Syringe Module Setup</u> The patient’s heart level should be in line with [CHANNEL SELECT] key. – Priming the set using the Syringe Channel Option feature "Prime Set with Syringe." (<i>Infant and Child Only</i>) – Proper priming technique when using an administration set with Pressure Sensing Disc tubing. (<i>Infant and Child Only</i>) – Clamping the tubing after priming to prevent uncontrolled flow – Loading and unloading a syringe into the Alaris Syringe module – Correct selection of syringe manufacturer and size – Recommend measures to help reduce start-up delays. (<i>Infant and Child Only</i>)		

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Alaris™ Syringe module continued	Date	Verifier Initials
<u>Demonstrate Basic Programming <i>Without</i> Guardrails™ Safety Software</u> – Programming of a Basic Infusion. Verbalize safety concerns when this mode is used		
<u>Demonstrate and Verbalize Measures to help Reduce Start-Up Delays (<i>Infant and Child Only</i>)</u> – Use the smallest syringe size possible (e.g., if infusing 2.3 mL of fluid, use a 3 mL syringe) – Use compatible components which have the smallest internal volume or “dead space” – Ensure the device is as close to level of the patient’s heart as possible. Patient’s heart should be in line with [CHANNEL SELECT] key – Use the [PRIME SET WITH SYRINGE] channel option on the Alaris™ Syringe module to speed up the engagement of the device’s mechanical components and decrease the syringe’s internal friction – If utilizing a pre-run infusion practice (to allow for medication equilibration prior to connection to the patient), ensure the distal end of the administration set is level with or higher than the device – Avoid use of manifolds with ports containing high pressure valves. These valves require at least 50-200 mmHg pressure to open and allow fluid flow. These high-pressure valves may cause a significant delay in therapy followed by a sudden bolus once the valve is opened, particularly at low infusion rates – Note: These recommendations are especially important when infusing high-risk or life- sustaining medications at low infusion rates (for example, <5mL/h and especially at flow rates <0.5mL/h)		
Alaris™ PCA module	Date	Verifier Initials
<u>Demonstrate PCA Module Setup</u> – The patient’s heart level should be in line with [CHANNEL SELECT] key. – System Start Up and Security key lock feature. <ul style="list-style-type: none"> • Use of the security key or security code when installing a new syringe or changing the syringe. – Priming the set using the “Prime Set with Syringe” feature <ul style="list-style-type: none"> • Prime set prior to attaching to patient. • The tubing should be clamped to prevent inadvertent or uncontrolled flow with a primed administration set. – Loading the syringe into the Alaris™ PCA module <ul style="list-style-type: none"> • Hold the installed syringe plunger to prevent accidental push on the plunger when lowering the drive head. • Clamp off fluid flow to the patient before loading and unloading a syringe. • Check that the installed syringe matches the manufacturer and size displayed on the pump. <u>Demonstrate Programming the Alaris™ PCA module</u> – Programing the following <ul style="list-style-type: none"> • PCA dose + Continuous dose infusion 		

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Alaris™ PCA module continued	Date	Verifier Initials
<ul style="list-style-type: none"> - How to modify PCA parameters during an active PCA infusion (PCA dose, Lockout interval, Continuous dose, Maximum limit). <p><u>Demonstrate Accessing Patient History and the Alaris™ PCA module</u></p> <ul style="list-style-type: none"> - How to view and clear patient history. - Verbalize that patient history data is stored as a rolling 24-hour time period. - Verbalize what actions will delete the PCA patient history. <p><u>Demonstrate Pausing the infusion, Changing the syringe and Restoring the infusion</u></p> <ul style="list-style-type: none"> - Clamping off fluid flow to the patient before loading and unloading a syringe. - Pause the infusion, change the current syringe, and then use the [RESTORE] key to restore the previous programming parameters. - Verbalize that the [RESTORE] key should only be used if the <u>Drug</u>, <u>Therapy</u>, <u>Concentration</u> and <u>Dosing Units</u> remain the same. <p><u>Demonstrate Understanding of the Alaris™ PCA Pause Protocol</u> The Alaris™ PCA module will pause when hospital-established parameters on the Alaris™ etCO₂ module are met</p> <p><u>Demonstrate Understanding of the near end of infusion (NEOI) option.</u></p> <ul style="list-style-type: none"> - Near end of infusion (NEOI) option allows an alert to sound at a hospital-established remaining syringe volume before the infusion is complete (Empty Syringe alert). - An audio prompt will sound at NEOI, which requires being silenced just once, and will not re-occur following the initial silencing until the empty syringe alert sounds. 		

I am not responsible for the PCA module.

Alaris™ EtCO₂ module	Date	Verifier Initials
<p><u>EtCO₂ Monitoring</u></p> <ul style="list-style-type: none"> - Understanding of the basic parameters monitored using the Alaris™ etCO₂ module, including basic Ventilation vs. Oxygenation and a normal etCO₂ waveform. - Locating the Gas Inlet on the Alaris™ etCO₂ module and attach the disposable. Using the directions for use insert as a reference before attaching the disposable to the patient. <p><u>Alarms and Limits</u></p> <ul style="list-style-type: none"> - How to view etCO₂ alarm limits, RR alarm limits, and etCO₂ waveform from the main display. - How change etCO₂, RR, and No Breath limits. 		

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Alaris™ EtCO₂ module continued	Date	Verifier Initials
<u>Demonstrate Pre-silencing Alarm</u> – Understands that this mode will only pre-silence the monitoring alarm for 2 minutes and will not silence infusion alarms. <u>Demonstrate Viewing EtCO₂ Trend Data</u> – Understand how to view the trend data. <ul style="list-style-type: none"> • How to tell which value has triggered an alarm (bell icon). • If there is no data for time period displayed, dashes (---) will be displayed. – Current patient data will not be displayed while Trend Data feature is being viewed <u>Demonstrate Understanding of Alarms/Alerts/Troubleshooting</u> – Verbalize meaning and response to: <ul style="list-style-type: none"> • Auto zero in progress Alarm • Disposable Disconnected Alarm • Clearing Disposable Alarm • Disconnect Occluded Disposable Alarm – Verbalize possible causes and possible actions to: <ul style="list-style-type: none"> • Low etCO₂ Alarm • High etCO₂ Alarm • High FiCO₂ Alarm • No Breath Detected Alarm 		
I am not responsible for the etCO₂ module.		

PRECEPTOR SIGNATURE

Signature and Printed Name of Preceptor or other verified personnel who have initialed on this form:

Initial:	Print Name:	Signature:
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PRECEPTEE STATEMENT AND SIGNATURE:

I have read and understand the appropriate UC Davis Health Policies/Procedures and/or equipment operations manual, I have demonstrated the ability to perform the verified skills as noted, and I have the knowledge of the resources available to answer questions.

Name:	Signature:	Date:
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