UC DAVIS HEALTH | Center for Professional Practice of Nursing

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

Name:	**Employee ID #:**
Unit:	**Title:**
Due Date:	**New hire:** prior to end of unit orientation period: __/__/__. **Current Staff:**

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Not all skills are applicable to all Nursing areas – if not applicable mark as N/A

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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		
Demonstrate Pump Setup – 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 Demonstrate System Start Up and Operation – Understanding of what happens when [NEW PATIENT] is selected – Understanding of the Patient Care Profile and how to change it Demonstrate Programming with Guardrails™ Safety Software – 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 Demonstrate Basic Programming ***Without*** Guardrails™ Safety Software – Programming of a Basic Infusion. Verbalize safety concerns when this mode is used		
Alaris™ Syringe module		
Demonstrate Syringe Module Setup 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." ***(Infant and Child Only)*** – Proper priming technique when using an administration set with Pressure Sensing Disc tubing. ***(Infant and Child Only)***		

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Alaris™ Syringe module *(Continued)*	**Date Completed (or N/A)**	**Verifier Initials**
– 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. (***Infant and Child Only***)		
Demonstrate Basic Programming ***Without*** Guardrails™ Safety Software – Programming of a Basic Infusion. Verbalize safety concerns when this mode is used		
Demonstrate and Verbalize Measures to help Reduce Start-Up Delays ***(Infant and Child Only)*** – 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 value 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		
Demonstrate PCA Module Setup – The patient's heart level should be in line with [**CHANNEL SELECT**] key. – System Start Up and Security key lock feature. • 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 • 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 • 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. Demonstrate Programming the Alaris™ PCA module – Programing the following • PCA dose + Continuous dose infusion		

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Alaris™ PCA module *(Continued)*	**Date Completed (or N/A)**	**Verifier Initials**
– How to modify PCA parameters during an active PCA infusion (PCA dose, Lockout interval, Continuous dose, Maximum limit). Demonstrate Accessing Patient History and the Alaris™ PCA module – 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. Demonstrate Pausing the infusion, Changing the syringe and Restoring the infusion – 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 Drug, Therapy, Concentration and Dosing Units remain the same. Demonstrate Understanding of the Alaris™ PCA Pause Protocol The Alaris™ PCA module will pause when hospital-established parameters on the Alaris™ $etCO_2$ module are met. Demonstrate Understanding of the near end of infusion (NEOI) option. – 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™ $EtCO_2$ module	**Date Completed (or N/A)**	**Verifier Initials**
$EtCO_2$ Monitoring – Understanding of the basic parameters monitored using the Alaris™ $etCO_2$ module, including basic Ventilation vs. Oxygenation and a normal $etCO_2$ waveform. – Locating the Gas Inlet on the Alaris™ $etCO_2$ module and attach the disposable. Using the directions for use insert as a reference before attaching the disposable to the patient. Alarms and Limits – How to view $etCO_2$ alarm limits, RR alarm limits, and $etCO_2$ waveform from the main display. – How change $etCO_2$, RR, and No Breath limits.		

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Alaris™ $EtCO_2$ module *(Continued)*	**Date Completed (or N/A)**	**Verifier Initials**
Demonstrate Pre-silencing Alarm – Understands that this mode will only pre-silence the monitoring alarm for 2 minutes and will not silence infusion alarms. Demonstrate Viewing $EtCO_2$ Trend Data – Understand how to view the trend data. • 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 Demonstrate Understanding of Alarms/Alerts/Troubleshooting – Verbalize meaning and response to: • Auto zero in progress Alarm • Disposable Disconnected Alarm • Clearing Disposable Alarm • Disconnect Occluded Disposable Alarm – Verbalize possible causes and possible actions to: • Low etCO2 Alarm • High etCO2 Alarm • High FiCO2 Alarm • No Breath Detected Alarm		
I am not responsible for the $etCO_2$ module.		

PRECEPTOR SIGNATURE

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

Initial:	Print Name:	Signature:

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.

Printed Name	**Signature**	**Date**

Scan Page and email to: hs-cppn@ucdavis.edu