

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

Page 1 of 4

Name:		PPS#:
Unit:		Title:
Due Date:	New hire: prior to end of unit orientation period: ____/____/____.	
Current Staff:		

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Skill/Learning

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

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<u>References:</u>	Method of Instruction:	Date	Initials of Preceptor	Method of Evaluation:
1.				
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>				
<ul style="list-style-type: none"> - 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>				
<ul style="list-style-type: none"> - 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>				
<ul style="list-style-type: none"> - 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>				
<ul style="list-style-type: none"> - 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.				
<ul style="list-style-type: none"> - 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>) 				

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Page 2 of 4

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Alaris™ Syringe module (Continued)	Method of Instruction:	Date	Initials of Preceptor	Method of Evaluation:
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<ul style="list-style-type: none"> - 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. 				
<ul style="list-style-type: none"> - Recommend measures to help reduce start-up delays. (<i>Infant and Child Only</i>) 				
<p><u>Demonstrate Basic Programming Without Guardrails™ Safety Software</u></p> <ul style="list-style-type: none"> - Programming of a Basic Infusion. Verbalize safety concerns when this mode is used. 				
<p><u>Demonstrate and Verbalize Measures to help Reduce Start-Up Delays (<i>Infant and Child Only</i>)</u></p> <ul style="list-style-type: none"> - 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	Method of Instruction:	Date	Initials of Preceptor	Method of Evaluation:
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<p><u>Demonstrate PCA Module Setup</u></p> <ul style="list-style-type: none"> - 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. <p><u>Demonstrate Programming the Alaris™ PCA module</u></p> <ul style="list-style-type: none"> - Programing the following • PCA dose + Continuous dose infusion 				
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BD Alaris IV Infusion System Skills Checklist #DAHS-NSCBD18-ALARIS

Page 3 of 4

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Alaris™ PCA module (Continued)	Method of Instruction:	Date	Initials of Preceptor	Method of Evaluation:
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<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></p> <p>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. 				
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I am not responsible for the PCA module.

Alaris™ EtCO₂ module	Method of Instruction:	Date	Initials of Preceptor	Method of Evaluation:
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<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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Page 4 of 4

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<p><u>Demonstrate Pre-silencing Alarm</u></p> <ul style="list-style-type: none"> Understands that this mode will only pre-silence the monitoring alarm for 2 minutes and will not silence infusion alarms. <p><u>Demonstrate Viewing EtCO₂ Trend Data</u></p> <ul style="list-style-type: none"> 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 <p><u>Demonstrate Understanding of Alarms/Alerts/Troubleshooting</u></p> <ul style="list-style-type: none"> 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 				
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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.

Printed Name	Signature	Date
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