



Hummingbird Med Devices

HUMMI Micro-Draw Blood Transfer Device

A Closed System for Blood Transfer and Collection

Knowledge and Skills Competencies:

Implementation of a single access closed system for Arterial Blood Sampling and Closed System Flush with the Hummi Micro-Draw Blood Transfer Device:

- * UAC Blood Transfer Guidelines using Self-Venting Syringe
- * UAC Blood Transfer Guidelines using Aspirating Syringe
- * PAL Blood Transfer Guidelines using Self-Venting Syringe
- * PAL Blood Transfer Guidelines using Aspirating Syringe

Competency Statement:

Upon completion of the orientation, the clinician will understand the impact of the Hummi Closed Micro-Draw Blood Transfer Device on obtaining arterial blood samples and the need for providing of a closed system flush.

The clinician will also have the knowledge to discuss the benefits of a Closed Micro-Draw Blood Transfer Device system as it relates to decreasing line accesses, reduction of blood exposure, providing for reduced volume of holding/waste clearance blood and providing for a low volume of flush.

Name: _____ Date: _____ Validator: _____
Printed / Signature

Performance Criteria	Validation Performance	Self-Assessment		Competency Met Date / Validator's Initials			Learning Options, Action Plan, Comments
	Preceptor Confirms: Performs according to standards, guidelines, and / or protocol.	Are you knowledgeable, and / or competent to perform?		A. Verbalizes Understanding; needs to perform (if applicable) B. Performs competently C. Needs to repeat / practice			<ul style="list-style-type: none"> * In-Service * Read Assigned Materials * Skill demo / return demo * Patient Care with preceptor
		YES	NO	A.	B.	C.	
Understands the indications for the need of a UAC/PAL catheter.	Frequent monitoring of arterial blood gases & appropriate values. Continuous monitoring of arterial blood gases and pressures.						Competency defined by the hospital and user has been identified as a competent in the use and care of these lines. Completed the reading and the assignments of the hospital as defined when caring for a patient with a UAC/PAL catheter.
Utilizes best practice guidelines for maintenance of Umbilical Arterial Lines. Utilizes best practice guidelines for insertion and Maintenance of Peripheral Arterial Lines. UAC French and PAL catheter gauge sizes	UAC maintenance guidelines according to hospital / unit protocols. PAL catheter maintenance guidelines according to hospital / unit protocols. Knowledge of the size of the UAC/PAL catheter and the volume of the catheter and the fluid volume needed to flush the catheter.						Competency defined by the hospital and user. Observations of an insertion and maintenance of the UAC/PAL line. Product information and usage guidelines provided / supplied by Umbilical Arterial Catheter and Peripheral Arterial Catheter manufacturer.

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		YES	NO	A.	B.	C.	
<p>Recognizes the need for the implementation/use of the Hummi Micro-Draw Blood Transfer Device system and obtains the appropriate supplies to set-up and use the system.</p> <p>Understands the blood transfer process using the Hummi Micro-Draw Blood Transfer Device.</p>	<p>The Hospital will have selected the type of syringes (Self-Venting and/or Aspirating syringes) to be used in collection of the transferred blood from the Micro Draw device to the syringe of choice.</p>						<p>Attends an in-service or has been coached after viewing the Hummi Micro-Draw Blood Transfer Device system clinical use guidelines provided below:</p> <p><u>Hummi Clinical Education Guidelines</u></p> <p><u>UAC / PAL instructional video</u></p> <ul style="list-style-type: none"> • UAC Guidelines Using Self-Venting Syringe • UAC Guidelines Using Aspirating Syringe • PAL Guidelines Using Self-Venting Syringe • PAL Guidelines Using Aspirating Syringe <p><u>UAC / PAL Written Guidelines</u></p> <ul style="list-style-type: none"> • UAC Guidelines Using Self-Venting Syringe • UAC Guidelines Using Aspirating Syringe • PAL Guidelines Using Self-Venting Syringe • PAL Guidelines Using Aspirating Syringe <p>Observe demo - repeat demo (if required)</p> <p>The Hummi Micro-Draw Blood Transfer Device system instructional videos can be self-instructed.</p> <p>Understands the use of the Hummi Micro-Draw Blood Transfer Device system with both the Self-Venting syringe and Aspirating syringe.</p> <p>Utilizing principles of sterile / aseptic technique during implementation and use.</p>

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		YES	NO	A.	B.	C.	
Understands each of the components of the Hummi Micro-Draw Blood Transfer Device.	<ul style="list-style-type: none"> • Blood Transfer Tube • "W" Waste Leg • "S" Sample Leg • White sterility venting / line closure plugs 						Review Hummi UAC & PAL Videos Review Hummi UAC & PAL Written Guidelines Hummi Clinical Education Guidelines
Understands the use / function of the Hummi Micro Draw device Blunt Blood Transfer Tube	Demonstrates that the Blunt Blood Transfer Tube must be completely inserted through the T-Connector Split-Septum until the Blunt Tube is fully inserted and the blunt tube tip rests inside the catheter hub.						Review Hummi UAC & PAL Videos Review Hummi UAC & PAL Written Guidelines Hummi Clinical Education Guidelines
Understands the use / function of the Hummi "W" blue blood waste / holding line clamp closure device when doing blood clearance procedure.	Verbalizes understanding that the "W" blue clamp must be closed prior to insertion of the Blunt Blood Transfer Cannula into the T-Connector Split-Septum and at specific times during blood draw.						Review Hummi UAC & PAL Videos Review Hummi UAC & PAL Written Guidelines Hummi Clinical Education Guidelines
Understands the use / function of the Hummi "S" red sample line clamp closure device when doing blood sampling procedure.	Verbalizes understanding that the "S" blue clamp must be closed prior to insertion of the Blunt Blood Transfer Cannula into the T-Connector Split-Septum and at specific times during blood draw.						Review Hummi UAC & PAL Videos Review Hummi UAC & PAL Written Guidelines Hummi Clinical Education Guidelines
Understands the function of the Hummi vented line closure plug.	Understands that the white sterility venting / line closure plugs must be in place and removed only for attachment of syringes prior to inserting the Micro Draw device into the Split Septum T connector.						Review Hummi UAC & PAL Videos Review Hummi UAC & PAL Written Guidelines Hummi Clinical Education Guidelines

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		YES	NO	A.	B.	C.	
<p>UAC Blood Draw – Using Self-Venting Syringe:</p> <p>Understands how to transfer the sampling blood to the appropriate blood collection device from the UAC catheter utilizing the Split-Septum T-connector and the Hummi Micro-Draw Blood Transfer Device using Self-Venting Syringes.</p>	<p>Demonstrates and verbalizes the following:</p> <ul style="list-style-type: none"> * Obtains the appropriate syringes and antiseptic swabs. * Antimicrobial swabbing of T-Connector Split-Septum. * Closes both the Red “S” clamp and the Blue “W” clamp. * Closes the T-Connector Slide Clamp prior to inserting blood blunt transfer tube. * Pre-set self-venting syringe to desired blood volume and attach blood collection sample syringe to Hummi Micro Draw device. * Pre-set self-venting syringe to desired blood volume and attach blood collection Waste / Holding syringes to Hummi Micro Draw device. * Establishes good blunt transfer tube positioning in preparation for insertion through the T-Connector Split-Septum. (90 degree angle to T Connector split septum surface. 						<p>Review Hummi UAC using Self-Venting Syringe Videos</p> <p>Review Hummi UAC using Self-Venting Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

UAC Blood Draw – Using Self-Venting Syringe: - continued		<u>YES</u>	<u>NO</u>	<u>A.</u>	<u>B.</u>	<u>C.</u>	
<p>Understands how to transfer the sampling blood to the appropriate blood collection device from the UAC catheter utilizing the Split-Septum T-Connector and the Hummi Micro-Draw Blood Transfer Device using Self-Venting Syringes.</p>	<ul style="list-style-type: none"> * Inserts Micro Draw device blunt tube through split septum until tube is fully inserted through the septum and rests inside the catheter hub. * Open “W” blue clamp to obtain the appropriate waste / holding volume. Hold syringe with a tip down orientation to allow air to escape during the fill. * Re-clamp the “W” blue clamp. * Open the “S” red clamp to obtain the blood sample for testing. Hold syringe with a tip down orientation to allow air to escape during the fill. *Re-clamp the “S” red clamp. <p>Demonstrates and verbalizes the following:</p> <ul style="list-style-type: none"> * Positioning “W” syringe tip down for reinfusion of waste/holding and reinfusion of the waste / holding syringe blood to the patient per hospital policy. * Re-clamp the “W” blue clamp. * Removal of the sample syringe for testing. * Removal of Micro Draw device and connected waste syringe from T-Connector and disposal in sharps container. * Opens the T-Connector Slide Clamp to allow flushing of UAC. * Flushing of UAC catheter as per hospital policy * Final Antimicrobial swabbing of T-Connector Split-Septum. 						<p>Review Hummi UAC using Self-Venting Syringe Videos</p> <p>Review Hummi UAC using Self-Venting Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

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	Preceptor Confirms: Performs according to standards, guidelines, and / or protocol.	Are you knowledgeable, and / or competent to perform?		A. Verbalizes Understanding needs to perform (if applicable) B. Performs competently C. Needs to repeat / practice			<ul style="list-style-type: none"> * In-Service * Read Assigned Materials * Skill demo / return demo * Patient Care with preceptor
		YES	NO	A.	B.	C.	
<p>UAC Blood Draw– Using Aspirating Syringe:</p> <p>Understands how to transfer the sampling blood to the appropriate blood collection device from the UAC catheter utilizing the Split- Septum T-Connector and the Hummi Micro-Draw Blood Transfer Device using Aspirating Syringes.</p>	<p>Demonstrates and verbalizes the following:</p> <ul style="list-style-type: none"> * Obtains the appropriate syringes and antiseptic swabs. * Antimicrobial swabbing of T-Connector Split-Septum. * Aseptically open Micro Draw package and closes both the Red “S” clamp and the Blue “W” clamp on the extension lines. * White vent plugs should be in place on both extension lines. * Closes the T-Connector Slide Clamp prior to inserting blood blunt transfer tube. * Leaves white vent plugs in place on both extension lines. * Establishes good blunt blood transfer tube positioning in preparation for insertion through the T-Connector Split-Septum. Insertion should be at a 90 degree angle to split septum surface. * Releasing “W” blue clamp to allow waste blood to fill extension tube to white vent plug. * Close “W” blue clamp and attach appropriate waste collection syringe. * Re-open “W” blue clamp and aspirate desired volume of waste/holding blood. 						<p>Review Hummi UAC using Aspirating Syringe Videos</p> <p>Review Hummi UAC using Aspirating Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

UAC Blood Draw – Using Aspirating Syringe - continued		YES	NO	A.	B.	C.	
<p>Understands how to transfer the sampling blood to the appropriate blood collection device from the UAC catheter utilizing the Split-Septum T-Connector and the Hummi Micro-Draw Blood Transfer Device using Aspirating Syringes.</p>	<ul style="list-style-type: none"> * Re-clamp “W” blue clamp. * Open “S” red clamp and allow sample blood to fill to white vent plug. * Re-clamp “S” red clamp. * Remove white vent plug from sample line and attach appropriate aspirating syringe for sampling. * Aspirate the desired amount of sample blood into the syringe. * Re-clamp “S” red clamp. * Positioning “W” Waste / Holding syringe for reinfusion of the waste / holding syringe blood to the patient as per hospital policy. Syringe should be held in tip down position for re-infusion of waste/holding. * Takes care not to infuse air from the syringe into the Hummi Micro Draw device. * Removal of Hummi Micro Draw device with attached waste syringe from T-Connector and disposal in sharps container. * Opens the T-Connector Slide Clamp to allow flushing of UAC. * Flushing of UAC catheter as per hospital policy. * Final Antimicrobial swabbing of T-Connector Split-Septum. 						<p>Review Hummi UAC using Aspirating Syringe Videos</p> <p>Review Hummi UAC using Aspirating Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

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		YES	NO	A.	B.	C.	
<p>PAL Blood Draw – Using Self-Venting Syringe:</p> <p>Understands how to transfer the sampling blood to the appropriate blood collection device from the PAL catheter utilizing the Split-Septum T-Connector and the Hummi Micro-Draw Blood Transfer Device using Self-Venting Syringes.</p>	<p>Demonstrates and verbalizes the following:</p> <ul style="list-style-type: none"> * Obtains the appropriate syringes and antiseptic swabs. * Antimicrobial swabbing of T-Connector Split-Septum. * Aseptically open the Hummi Micro Draw package. Inspect for integrity of device. Closes both the Red “S” clamp and the Blue “W” clamp on the extension lines. * White vent plugs should be in place on extension lines. * Closes the T-Connector Slide Clamp prior to inserting blood blunt transfer tube. * Pre-set self-venting syringe to desired blood collection volume and attach self-venting syringe to extension line with “S” red clamp. 						<p>Review Hummi PAL using Self-Venting Syringe Videos</p> <p>Review Hummi PAL using Self-Venting Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

PAL Blood Draw – Using Self-Venting Syringe - continued		<u>YES</u>	<u>NO</u>	<u>A.</u>	<u>B.</u>	<u>C.</u>	
<p>Understands how to transfer the sampling blood to the appropriate blood collection device from the PAL catheter utilizing the Split-Septum T-Connector and the Hummi Closed Micro-Draw Blood Transfer Device using Self-Venting Syringes.</p>	<ul style="list-style-type: none"> * Establishes good blunt blood transfer tube positioning in preparation for insertion through the T-Connector Split-Septum. Insertion should be at a 90 degree angle to split septum surface. * Inserts Micro Draw device blunt tube through split septum until tube is fully inserted through the septum and rests inside the catheter hub. * Unclamp “W” Blue clamp to obtain PAL line clearance volume. Allow blood to flow up the extension line to the white vent plug. * Re-clamp “W” blue clamp. * Open the “S” red clamp to obtain the blood sample in the self-venting syringe for testing. * Re-clamp “S” red clamp. * Removal of the blood sample syringe from the Micro Draw device for testing. * Removal of the Micro Draw device from the T-Connector and dispose in sharps container. * Open the T-Connector slide clamp to allow IV Pump flushing of PAL line catheter. * Final Antimicrobial swabbing of T-Connector Split-Septum. 						<p>Review Hummi PAL using Self-Venting Syringe Videos</p> <p>Review Hummi PAL using Self-Venting Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

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		YES	NO	A.	B.	C.	
<p>PAL Blood Draw – Using Aspirating Syringe:</p> <p>Understands how to transfer the sampling blood to the appropriate blood collection device from the PAL catheter utilizing the Split-Septum T-Connector and the Hummi Micro-Draw Blood Transfer Device using Aspirating Syringes.</p>	<p>Demonstrates and verbalizes the following:</p> <ul style="list-style-type: none"> * Obtains the appropriate syringes and antiseptic swabs. * Antimicrobial swabbing of T-Connector Split-Septum. * Aseptically open the Hummi Micro Draw package. Inspect for integrity of device. Closes both the Red “S” clamp and the Blue “W” clamp on the extension lines. * White vent plugs should be in place on extension lines. * Closes the T-Connector Slide Clamp prior to inserting blood blunt transfer tube. * Establishes good blunt blood transfer tube positioning in preparation for insertion through the T-Connector Split-Septum. Insertion should be at a 90 degree angle to split septum surface. 						<p>Review Hummi PAL using Aspirating Syringe Videos</p> <p>Review Hummi PAL using Aspirating Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>

PAL Blood Draw – Using Aspirating Syringe - Continued		<u>YES</u>	<u>NO</u>	<u>A.</u>	<u>B.</u>	<u>C.</u>	
<p>Understands how to transfer the sampling blood to the appropriate blood collection device from the PAL catheter utilizing the Split-Septum T-Connector and the Hummi Closed Micro-Draw Blood Transfer Device using Aspirating Syringes</p>	<ul style="list-style-type: none"> * Inserts Micro Draw device blunt tube through split septum until tube is fully inserted through the septum and rests inside the catheter hub. * Unclamp “W” Blue clamp to obtain PAL line clearance volume. Allow blood to flow up the extension line to the white vent plug. * Re-clamp “W” blue clamp. * Unclamp “S” Red clamp and allow blood to flow up extension line to white vent plug. * Re-clamp “S” red clamp. * Remove white vent plug on “S” sample line, and attach appropriate aspirating syringe to extension. * Aspirate the desired amount of sample blood into syringe. * Re-clamp “S” red clamp. * Remove sample syringe from extension line for testing. * Remove Micro Draw device from T-Connector and dispose in sharps container. * Opens the T-Connector slide clamp to allow IV Pump flushing of PAL line catheter. * Final Antimicrobial swabbing of T-Connector Split-Septum. 						<p>Review Hummi PAL using Aspirating Syringe Videos</p> <p>Review Hummi PAL using Aspirating Syringe Written Guidelines</p> <p>Hummi Clinical Education Guidelines</p>