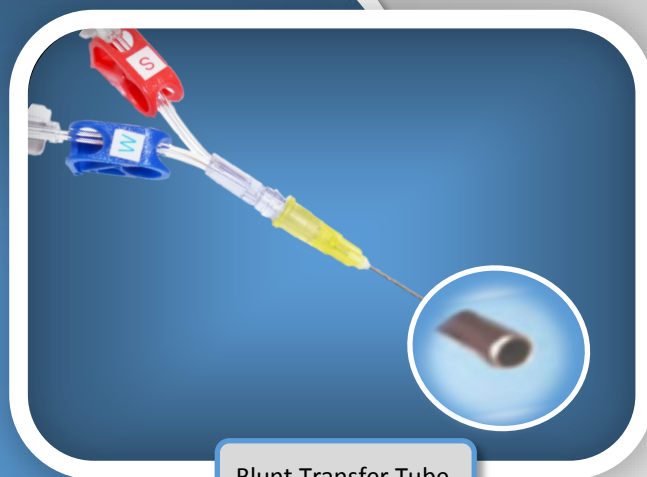
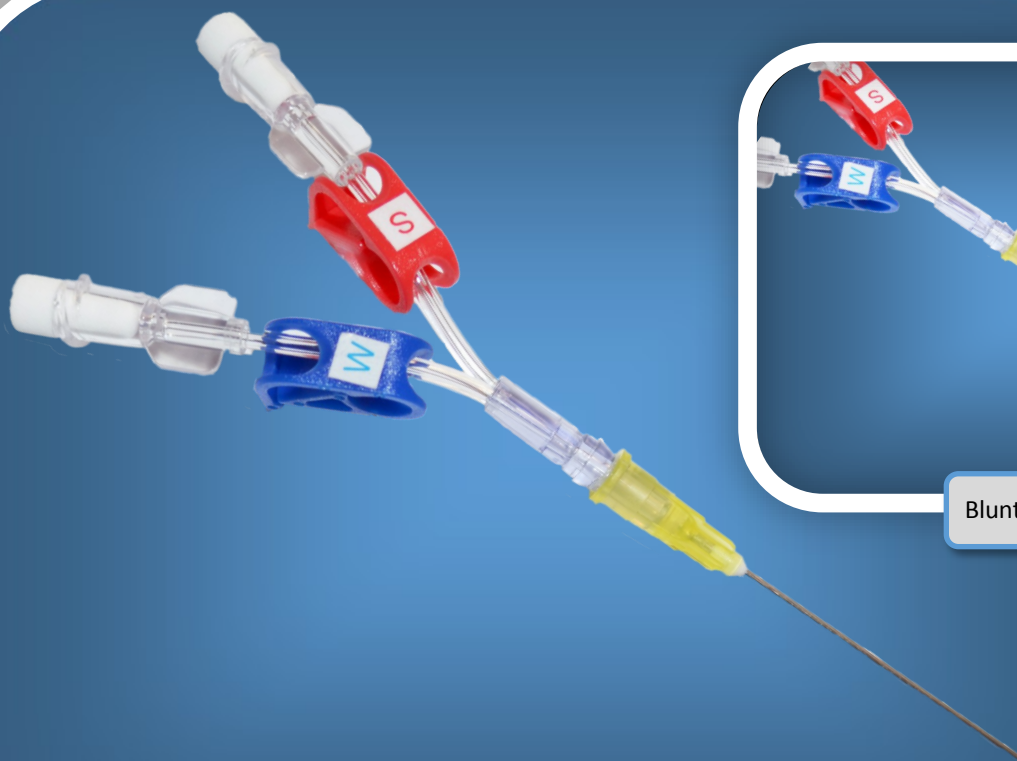


# Hummingbird Med

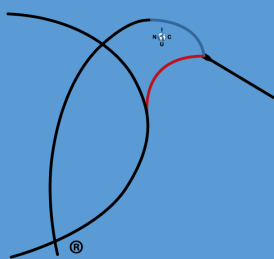
*"Micro Solutions" for the Neonate*

## Hummi Closed Needleless Micro-Draw Blood Transfer Device



Blunt Transfer Tube

The Hummi Micro-Draw Blood Transfer Device significantly improves arterial line blood sampling from a UAC/UVC catheter to a blood collection device



Hummingbird Med Devices, Inc.  
1283 Elger Bay Road, suite D  
Camano Island, WA 98282  
Ph: 360-572-2011

[www.Hummingbirdmed.com](http://www.Hummingbirdmed.com)

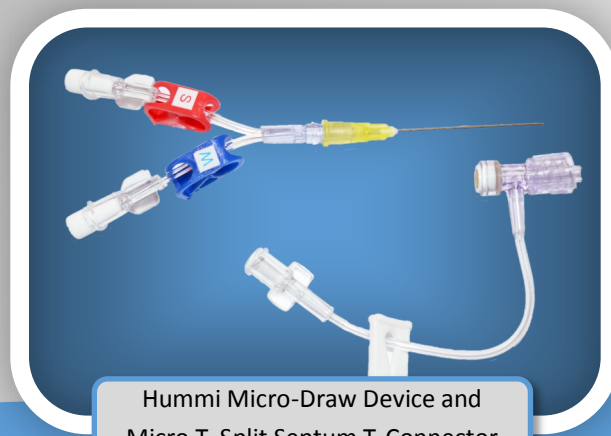
# Hummi Closed Needleless Micro-Draw Blood Transfer Device

## Reducing the Risk in Umbilical Catheter Blood Sampling

**A new improved method for blood sampling from umbilical arterial catheters that may also reduce risks vs current methods**

### Hummi Micro-Draw

- Reduces bolusing by reducing blood clearance and flush volume
- Reduces UAC clearance volumes prior to drawing blood to 0.5mL
- Reduces flush volumes for UAC after sampling to 0.3mL
- Reduces overall blood/fluid movement during UAC blood draws from 4mL to 6mL down to 1.3mL
- Approximately a 70% reduction in overall blood/fluid movement required for UAC blood sampling
- Transfers blood directly from the catheter hub to the collection device



Hummi Micro-Draw Device and Micro T Split Septum T-Connector

Current methods of UAC blood sampling “significantly decreases cerebral blood volume and cerebral oxygenation, as measured by near-infrared spectroscopy”<sup>1</sup>

“Changes in cerebral hemodynamics and oxygenation are thought to be major causes of intracranial hemorrhage and periventricular leukomalacia in premature infants”<sup>2</sup>

- Maintains a closed system access through a closed port split septum
- Reduces line accesses to 1 per blood draw (vs 4 for open stopcocks)
- Eliminates the need for complex and bulky in-line closed systems
- Eliminates setup time, in-line air issues and wave from damping seen with current in-line blood draw devices
- Draws NO blood into the arterial line during sampling procedure
- Provides for needleless access and reduced blood exposure
- Standardizes blood waste to a very low volume for each draw, less than 0.2mL

### Improves PAL Sampling Methods

- Eliminates the Open Drip Method for PAL sampling
- May extend the life of the PAL catheter due to lower volume movement
- No positive or negative pressure applied to radial artery
- No flushing required after PAL blood draw
- Disposable after single use. Use only when needed



Hummi Micro-Draw Device Inserted into Micro T Split Septum T-Connector

### Technical Specifications

- Accepts luer lock / luer slip syringes or needleless collection devices

UAC Closed Blood Draw Kit						Ordering Information		Hummi Micro-Draw & Accessories	
Catalog	Description			Material	Qty	Catalog	Description	Qty	
UAC-HM-50P	5.0 fr.	32cm	Polyurethane	PU	5 / bx	ABG-HM-1	Hummi Micro-Draw Blood Transfer Device	50 / bx	
UAC-HM-50S	5.0 fr.	32cm	Silicone	S	5 / bx	NMT8046	Micro T Split Septum T-Connector	100 / bx	
UAC-HM-43P	4.3 fr.	32cm	Polyurethane	PU	5 / bx	DPD-HM-2	Dual Port Device with two integral silicone valves	10 / bx	
UAC-HM-35P	3.5 fr.	32cm	Polyurethane	PU	5 / bx	ABG-3601-VS	1mL Self-venting syringe with 15 units Heparin	100 / bx	
UAC-HM-35S	3.5 fr.	32cm	Silicone	S	5 / bx	ABG-3603-VS	3mL Self-venting syringe with No Heparin	100 / bx	
UAC-HM-25P	2.5 fr.	25cm	Polyurethane	PU	5 / bx	Dual Lumen Configuration Available on Special Order			