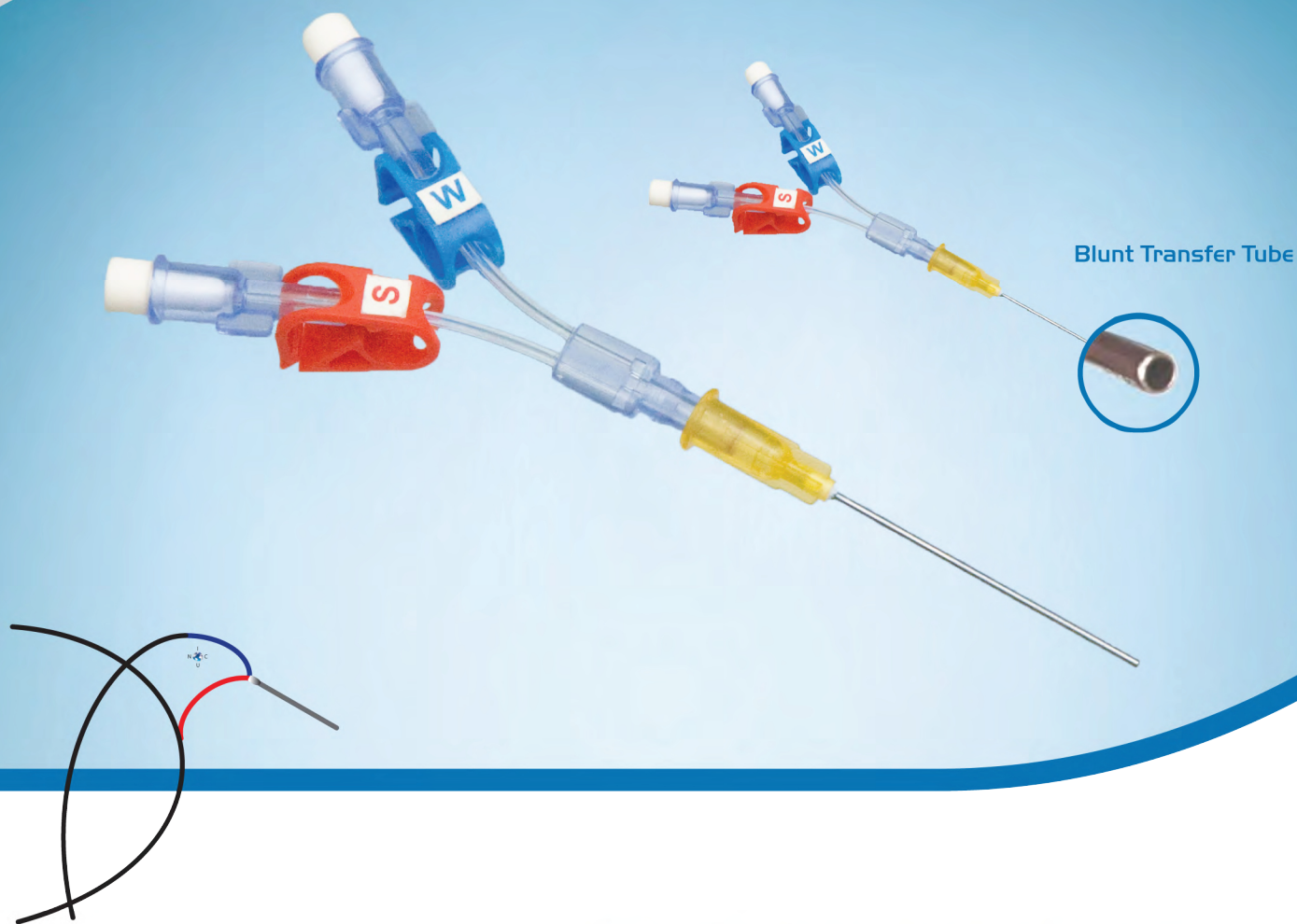


# HUMMI

Closed Needleless Micro-Draw Blood Transfer Device



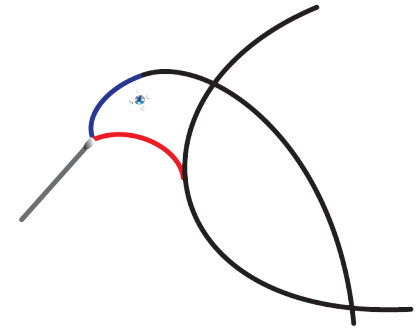
## Micro-Solutions for the Neonate

The Hummi micro-draw significantly improves arterial line blood sampling from a PAL or UAC catheter to a blood collection device.

# 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



- The 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

**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 haemodynamics and oxygenation are thought to be major causes of intracranial haemorrhage and periventricular leukomalacia in premature infants" <sup>2</sup>

### The Hummi Micro-Draw Reduces Overall Blood/Fluid Volume Movement Significantly During UAC Sampling

The Hummi Micro-Draw also provides additional clinical advantages over current methods of blood sampling from Umbilical Arterial Catheters and Peripheral Catheters

- 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 form 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

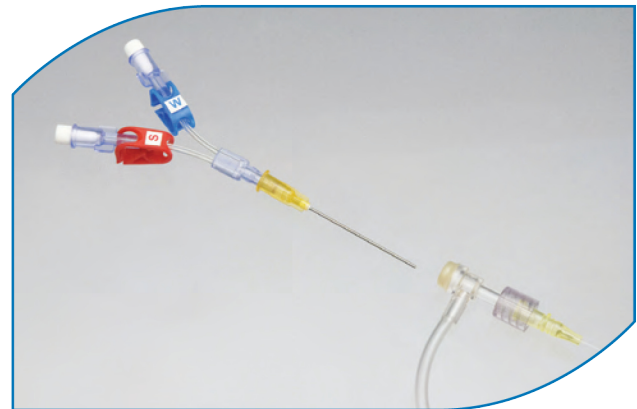
### Hummi Also Improves PAL Sampling Methods

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

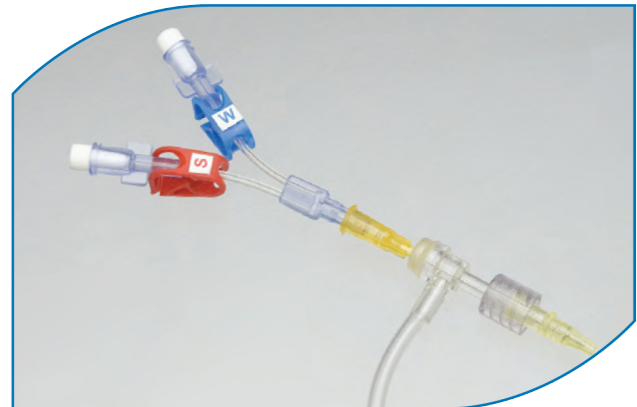
### Technical Specifications

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

\*1, 2 Acta Paediatrica, 2006; 95: 68-73 Roll, Huning, Kaunicke, Krug & Horsch



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



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

Ordering Information		
Catalog Number	Description	Quantity
ABG-HM-1	Hummi Micro-Draw Blood Transfer Device Sterile, Non-DEHP, Latex Free	50/Box

Please contact our customer service department for additional information.



Distributed by:  
 Kentec Medical, Inc.  
 17871 Fitch, Irvine, CA 92614  
 TEL 949.863.0810 FAX 949.833.9730  
 TOLL FREE (USA only) 800.825.5996  
 sales@ameritusmedical.com  
 www.ameritusmedical.com

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