

# Inserting an Emergency Umbilical Vein Catheter *(using nanoclave)*

Use **STERILE** technique • wear a **MASK** • use **STERILE GLOVES** • wear **HEAD COVER**

1	2	3	4	5	6	7
<p><b>Prepare Meds and UVC</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Draw up epinephrine 0.1 mL/kg in 1 mL syringe</li> <li><input type="checkbox"/> Attach nanoclave extension set to catheter</li> <li><input type="checkbox"/> <b>Flush nanoclave med port then the flush port and rest of UV catheter</b></li> </ul>	<p><b>Prepare site</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Assistant holds cord up</li> <li><input type="checkbox"/> Clean cord with 2% chlorhexidine</li> <li><input type="checkbox"/> Lay down sterile drape</li> </ul>	<p><b>Tie Tape</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Place tie tape around Wharton's jelly or on skin as close as possible to abdominal wall</li> <li><input type="checkbox"/> Using a single overhand knot, tighten only enough to prevent bleeding</li> </ul>	<p><b>Cut Cord</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cut cord above tie tape, leaving approximately 2 cm length of cord from abdominal wall</li> </ul>	<p><b>Insert UVC</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify umbilical vein (<i>12 o'clock</i>), dilate if needed</li> <li><input type="checkbox"/> <b>Insert catheter into UV 2 to 3 cm beyond abdominal wall</b> (approx. 5 cm total)</li> <li><input type="checkbox"/> Aspirate until blood return</li> <li><input type="checkbox"/> Hold UVC in place with fingers until secured</li> </ul>	<p><b>Inject Meds</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Attach 1 mL epinephrine syringe to med port</li> <li><input type="checkbox"/> Clamp 0.9% NaCl port</li> <li><input type="checkbox"/> Push epinephrine</li> <li><input type="checkbox"/> Unclamp and flush with 3 mL 0.9% NaCl</li> </ul>	<p><b>Secure Catheter</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Suture catheter to cord if keeping in place for transport</li> <li><input type="checkbox"/> Apply bridge tape or alternative securement method</li> </ul>

## Equipment

<p>Syringe with 10 mL 0.9% NaCl</p> <p>Umbilical catheter Size 5 French</p> <p>Nanoclave extension set</p> <p>Rapid fill connector</p> <p>Epinephrine 0.1 mg/mL (1:10,000)</p> <p>1 mL syringe</p> <p>30 mL syringe for volume</p> <p>0.9% NaCl</p>	<p>Chlorhexidine 2% swab sticks</p> <p>Sterile drape</p>	<p>Umbilical tie tape</p>	<p>Scalpel with blade</p>	<p>Forceps</p> <p>Dilator</p> <p>Gauze</p>	<p>3.0 or 4.0 silk suture set</p> <p>Needle driver</p> <p>Scissors</p> <p>Roll of ½" hypoallergenic tape</p>
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# Equipment List for Umbilical Vein Catheter (UVC) Insertion

## (using nanoclave)

The table below is intended for care providers preparing an UVC insertion kit for use during a home birth. Preparation of a complete UVC insertion kit should occur well in advance of a planned home birth and should be complete and readily available for every home birth.

Supplies/Equipment listed on “Inserting an Umbilical Vein Catheter” instructions	Where to access item	Comments
20 mL syringe pre-loaded with 0.9% NaCl	order from PDC*	PDC order #6505174328
10 mL syringe pre-loaded with 0.9% NaCl	PDC	PDC #6505174324
Umbilical catheter <ul style="list-style-type: none"> <li>• Size 5 French</li> <li>• Single lumen</li> </ul>	PDC	PDC #6515508641
Nanoclave extension set	PDC	PDC #6515110146
Fluid Dispensing Valve <ul style="list-style-type: none"> <li>• AKA: Rapid Fill Connector</li> </ul>	PDC	PDC #6515110672
1 mL syringe	PDC	PDC #6515508637
Chlorhexidine 2% swabs	PDC	PDC #6510870177
Drape - Sterile	PDC	PDC #8540870096
Umbilical tie tape	PDC	PDC #6515508621
Scalpel with blade - Sterile	PDC	PDC #6515563509
Forceps	Contained within UVC Set** (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Tissue Forceps - 5¾"</li> <li>• 1 Mosquito forceps - 5" straight</li> </ul>
Dilator <ul style="list-style-type: none"> <li>• AKA: “Probe”</li> </ul>	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Probe - 6"</li> </ul>
Gauze	PDC	PDC #6510870840
3.0 or 4.0 silk suture	PDC	PDC #6515528400
Needle Driver	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Needle holder - 5½" Halsey Needle holder</li> </ul>
Scissors	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Scissors - 5¾" Metzenbaum</li> </ul>
Roll of 1" waterproof hypoallergenic tape	PDC	PDC #6510098511
Epinephrine 0.1 mg/mL (1:10,000)	PDC	Requires completion of <i>Non-Refrigeration Prescription Item</i> on-line order form at: <a href="http://www.pdc.gov.bc.ca/Account/LogOn">www.pdc.gov.bc.ca/Account/LogOn</a>

\* PDC = Product Distribution Center.

Online ordering through the Product Distribution Center requires a PDC account number.

\*\* UVC Set = Umbilical Vein Catheter set. This set of instruments is one of the Hospital Instrument Sets that are loaned to care providers for home births by their Primary Hospital Site. The instruments contained in all of the Hospital Instrument Sets are the property of the Health Authority and should be returned to the care provider’s Primary Hospital Site following use for reprocessing. At that time, another UVC set can be loaned out to the care provider.

### Complete list of instruments in a UVC Hospital Instrument Set

Instrument	#	Description	Instrument	#	Description
Tissue forceps	1	5¾" Tissue forceps	Probe	1	6" P-604 ALMEDIC
Scissors	1	5¾" Metzenbaum scissors	Needle holder	1	5½" Halsey Needle holder
Mosquito forceps	1	5" Mosquito forceps (straight)			

# Inserting an Emergency Umbilical Vein Catheter *(using stopcock)*

Use **STERILE** technique • wear a **MASK** • use **STERILE GLOVES** • wear **HEAD COVER**

1	2	3	4	5	6	7
<p><b>Prepare Meds and UVC</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Draw up epinephrine 0.1 mL/kg in 1 mL syringe</li> <li><input type="checkbox"/> Attach 0.9% NaCl syringe to 3-way stopcock</li> <li><input type="checkbox"/> <b>Flush catheter and 3-way stopcock ports</b></li> <li><input type="checkbox"/> Attach 1 mL epinephrine syringe to 3-way stopcock</li> <li><input type="checkbox"/> Close 3-way stopcock</li> </ul>	<p><b>Prepare site</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Assistant holds cord up</li> <li><input type="checkbox"/> Clean cord with 2% chlorhexidine</li> <li><input type="checkbox"/> Lay down sterile drape</li> </ul>	<p><b>Tie Tape</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Place tie tape around Wharton's jelly or on skin as close as possible to abdominal wall</li> <li><input type="checkbox"/> Using a single overhand knot, tighten only enough to prevent bleeding</li> </ul>	<p><b>Cut Cord</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Cut cord above tie tape, leaving approximately 2 cm length of cord from abdominal wall</li> </ul>	<p><b>Insert UVC</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identify umbilical vein (<i>12 o'clock</i>), dilate if needed</li> <li><input type="checkbox"/> Open 3-way stopcock to 0.9% NaCl</li> <li><input type="checkbox"/> <b>Insert catheter into UV 2 to 3 cm beyond abdominal wall</b> (approx. 5 cm total)</li> <li><input type="checkbox"/> Aspirate until blood return</li> <li><input type="checkbox"/> Hold UVC in place with fingers until secured</li> </ul>	<p><b>Inject Meds</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Open 3-way stopcock to epinephrine and deliver push</li> <li><input type="checkbox"/> Open stopcock to 0.9% NaCl and flush with 3 mL</li> <li><input type="checkbox"/> Close stopcock</li> </ul>	<p><b>Secure Catheter</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Suture catheter to cord if keeping in place for transport</li> <li><input type="checkbox"/> Apply bridge tape or alternative securement method</li> </ul>

## Equipment

<p>Syringe with 10 mL 0.9% NaCl</p> <p>Umbilical catheter Size 5 French</p> <p>3-way stopcock × 2</p> <p>Rapid fill connector</p> <p>Epinephrine 0.1 mg/mL (1:10,000)</p> <p>1 mL syringe</p> <p>30 mL syringe for volume</p> <p>0.9% NaCl</p>	<p>Chlorhexidine 2% swab sticks</p> <p>Sterile drape</p>	<p>Umbilical tie tape</p>	<p>Scalpel with blade</p>	<p>Forceps</p> <p>Dilator</p> <p>Gauze</p>	<p>3.0 or 4.0 silk suture set</p> <p>Needle driver</p> <p>Scissors</p> <p>Roll of ½" hypoallergenic tape</p>
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# Equipment List for Umbilical Vein Catheter (UVC) Insertion (using stopcock)

The table below is intended for care providers preparing an UVC insertion kit for use during a home birth. Preparation of a complete UVC insertion kit should occur well in advance of a planned home birth and should be complete and readily available for every home birth.

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20 mL syringe pre-loaded with 0.9% NaCl	order from PDC*	PDC order #6505174328
10 mL syringe pre-loaded with 0.9% NaCl	PDC	PDC #6505174324
Umbilical catheter <ul style="list-style-type: none"> <li>• Size 5 French</li> <li>• Single lumen</li> </ul>	PDC	PDC #6515508641
3-way stopcock	PDC	PDC #6515511627
Fluid Dispensing Valve <ul style="list-style-type: none"> <li>• AKA: Rapid Fill Connector</li> </ul>	PDC	PDC #6515110672
1 mL syringe	PDC	PDC #6515508637
Chlorhexidine 2% swabs	PDC	PDC #6510870177
Drape - Sterile	PDC	PDC #8540870096
Umbilical tie tape	PDC	PDC #6515508621
Scalpel with blade - Sterile	PDC	PDC #6515563509
Forceps	Contained within UVC Set** (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Tissue Forceps - 5¾"</li> <li>• 1 Mosquito forceps - 5" straight</li> </ul>
Dilator <ul style="list-style-type: none"> <li>• AKA: “Probe”</li> </ul>	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Probe - 6"</li> </ul>
Gauze	PDC	PDC #6510870840
3.0 or 4.0 silk suture	PDC	PDC #6515528400
Needle Driver	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Needle holder - 5½" Halsey Needle holder</li> </ul>
Scissors	Contained within UVC Set (one of the Hospital Instrument Sets)	UVC set contains: <ul style="list-style-type: none"> <li>• 1 Scissors - 5¾" Metzenbaum</li> </ul>
Roll of 1" waterproof hypoallergenic tape	PDC	PDC #6510098511
Epinephrine 0.1 mg/mL (1:10,000)	PDC	Requires completion of <i>Non-Refrigeration Prescription Item</i> on-line order form at: <a href="http://www.pdc.gov.bc.ca/Account/LogOn">www.pdc.gov.bc.ca/Account/LogOn</a>

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### Complete list of instruments in a UVC Hospital Instrument Set

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Scissors	1	5¾" Metzenbaum scissors	Needle holder	1	5½" Halsey Needle holder
Mosquito forceps	1	5" Mosquito forceps (straight)			