

<b>Date:</b>		<b>Unit:</b>	
<b>Nurse/Doctor assessed:</b>			
<b>Non-Compliant:</b>	<80% Compliance		
<b>Compliant:</b>	80-100% Compliance		

<b>Equipment required:</b>		
1. Live baby	2. Trolley & Neonatal procedure pack	3. Sterile gloves, mask & cap
4. Oral sucrose	5. Sterile blade (24G)	6. 5Fg luer lock umbilical catheter & clotless connector
7. Strapping	8. 5ml Syringe & Saline Ampoules	9. Chlorhexidine 0.5% in 70% isopropyl alcohol

<b>Scenario</b>				
<i>Select a baby requiring an umbilical venous catheter &amp; inform the health care worker of the history and patient demographics.</i>				
<b>NO.</b>	<b>INDICATOR</b>	<b>NC</b>	<b>C</b>	<b>Comment</b>
<b>Prepares Mother</b>				
1.	Communicates with mother and obtains informed consent			
<b>Prepares baby</b>				
2.	Performs hand hygiene			
3.	Identifies baby-checks ID band information			
4.	Provides pain relief (sucrose, and dummy)			
5.	Ensures the baby is kept warm (ICU crib) and is monitored			
6.	Measures the shoulder to umbilical-length (vertically)			
7.	Performs hand hygiene			
<b>Prepares trolley/equipment</b>				
8.	Uses formula/graph to estimate UV catheter insertion depth			
9.	Ensures good light source available			
10.	Cleans trolley and covers with sterile drape			
11.	Opens sterile neonatal procedure pack & opens sterile items onto it			
<b>Prepares for aseptic technique</b>				
12.	Dons mask and cap			
13.	Performs sterile procedure hand wash			
14.	Dons gown and sterile gloves			
<b>Prepares umbilical catheter and cord</b>				
15.	Primes catheter with saline and leaves syringe attached			
16.	Asks assistant to hold clamp and cord off skin			
17.	Using forceps and swabs, cleans the umbilical cord & skin with chlorhexidine in alcohol solution for 30 seconds			
18.	Allows to dry for 2 minutes			
19.	Loosely ties the umbilical tape at the base of the stump about 1cm above the abdominal skin & cuts the cord about 2cm above the skin			
20.	Places a sterile fenestrated drape around the umbilicus & abdomen			
<b>State: "How do you differentiate between the vein and artery?"</b>				
21.	Vein is a single vessel usually at the 12 o'clock position-2 arteries usually at the bottom at 5 and 7 o'clock			
22.	Vein is thin walled and artery is thick walled			
<b>State: "Please proceed to catheterise the umbilicus"</b>				
<b>Catheterises umbilical vein</b>				
23.	Uses artery forceps to secure the umbilicus			
24.	Uses forceps to clear thrombi and dilate the vein			
25.	Inserts the saline filled catheter into the vein in a cephalic direction to the correct measured distance.			
26.	Checks for back flow, flushes line and connects infusion			
<b>State: "Please tell me what you would do if the catheter did not reach the calculated depth or there was no back flow?"</b>				
27.	States he would remove the catheter if repositioning is unsuccessful			
<b>A. Totals</b>				

Secures catheter and records procedure		NC	C	
28.	Cleans skin again with chlorhexidine in alcohol			
29.	Secures catheter using "goalpost" method. (Or unit specific method-ensuring umbilicus can be cleaned)			
30.	Removes sterile drape and doffs PPE			
31.	Performs hand hygiene			
32.	Records procedure and catheter depth in clinical notes, central line insertion checklist, procedure chart (in Inpatient support pack) and on incubator card			

**Knowledge check**

*State: "Please tell me 2 indications and 2 contraindications to UVL placement?"*

33.	Indications: Emergency venous access/central venous access (medication, fluids, PN)/exchange transfusions/CVP monitoring			
34.	Contraindications: Omphalitis/Peritonitis/NEC/Abdominal wall defects			

*State: "What are 4 possible complications?"*

35.	Bleeding/ Infection / NEC /Perforation/ Creation of a false luminal tract/ Hepatic abscess/necrosis/ Portal vein thrombosis/ Air embolism/Catheter tip embolism/ Dysrhythmias/Pericardial tamponade.			
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*State: "What are 2 drugs that should not be administered via a UVL?"*

36.	50% Glucose and 8 % sodium bicarbonate			
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<b>B. Total</b>				
<b>A. Total brought forward</b>				
<b>Combined Totals</b>				
<b>Compliant total /36</b>				
<b>Final Percentage X100 =</b>				%

**In Discussion with the Individual:**

<b>Gaps Identified:</b>	
<b>Action Plan:</b>	

**Assessed by:**

<b>Sign:</b>		<b>Print:</b>		<b>Desig:</b>	
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