

NHS England and BAPM Central Venous Catheter Group
Literature search strategy May 2015

<p>Search terms (AND, OR, NOT) and truncation (wildcard characters like *)</p>	<p>Central Line Central Line AND Newborn Central Catheter Central Venous Catheter Neonat AND, OR Longline; Neonat AND OR catheter; Neonat AND, OR Central line Umbilical AND, OR Catheter Umbilical venous catheter Umbilical vein catheterization Umbilicus Hepatic haematoma Chlorhexidine AND Neonat Povidone Iodine AND Neonat</p>
<p>Databases searched</p>	<p><i>Primary Search-PubMed, Ovid (1946-2015 May), Embase</i> <i>Supplemented by Google Scholar</i> <i>Textbooks Included (Macdonald & Rennie)</i></p>
<p>Part of journals searched</p>	<p><i>I have used keywords for search in the</i></p> <ol style="list-style-type: none"> <i>1. Title</i> <i>2. Abstract</i> <i>3. As a Text word</i>
<p>Years of search</p>	<p><i>As above</i></p>
<p>Language</p>	<p><i>English and articles which were translated into English</i></p>
<p>Types of studies to be included</p>	<p><i>RCT</i> <i>Prospective observational studies</i> <i>Retrospective Studies</i> <i>Case Reports</i></p>
<p>Inclusion criteria (why did you include it?)</p>	<p><i>Article related to umbilical venous catheter or percutaneous long line which fit into one of the following categories-</i></p> <ol style="list-style-type: none"> <i>1. Background for this work. (Extravasation related)</i> <i>2. Catheter types and material used in neonates</i>

	<ol style="list-style-type: none"> 3. <i>Procedural Asepsis in the neonate</i> 4. <i>Measurement and Preparation</i> 5. <i>Insertion of the catheter</i> 6. <i>Securing and Fixation</i> 7. <i>Complications</i> 8. <i>Literature regarding ideal position</i> 9. <i>Confirming line position (Radiology and Ultrasound)</i> 10. <i>Literature covering duration for which the line is kept in-situ.</i> 11. <i>Examples of good practice (Guidelines,</i>
<p>Exclusion criteria (why did you rule it out?)</p>	

Literature Search (Last completed 17/05/2015)

1. **Image interpretation session. Neonatal bilateral chylothoraces secondary to obstruction of the superior vena cava (as complication of inadvertent placement of a umbilical vein catheter). Radiographics : a review publication of the Radiological Society of North America, Inc. 1990;10(1):152-6.**
2. **[Prospective evaluation of umbilical catheters in newborn infants. The Castrillo Hospital Group]. Anales espanoles de pediatria. 2000;53(5):470-8.**
3. **Editorial II: Safe placement of central venous catheters: where should the tip of the catheter lie? British journal of anaesthesia. 2000;85(2):188-91.**
4. **Use of Chlorhexidine Gluconate with Alcohol for the Prevention of Peripheral Intravenous Device Infections: A Review of Clinical and Cost Effectiveness, and Guidelines. Ottawa ON: 2014 Canadian Agency for Drugs and Technologies in Health.; 2014 Apr 03.**
5. **Abdellatif M, Ahmed A, Alsenaidi K. Cardiac tamponade due to umbilical venous catheter in the new born. BMJ case reports. 2012;2012:bcr-2012-6160.**
6. **Abdeyazdan Z, Sheikhan-Sudani E, Sadeghnia A, Talakoub S. Effect of using static ultrasound technique on peripherally inserted central catheters' insertion success rate in neonates in a neonatal intensive care unit. Iranian journal of nursing and midwifery research. 2014;19(6):643-6.**
7. **ABLOW RC, EFFMAN EL. Hepatic calcifications associated with umbilical vein catheterization in the newborn infant. American Journal of Roentgenology. 1972;114(2):380-5.**

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19. Aladangady N, Roy R, Costeloe KL. The cobweb sign: percutaneous silastic long line tip placement in tributaries of superficial veins. *Journal of perinatology : official journal of the California Perinatal Association.* 2005;25(10):671-3.
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