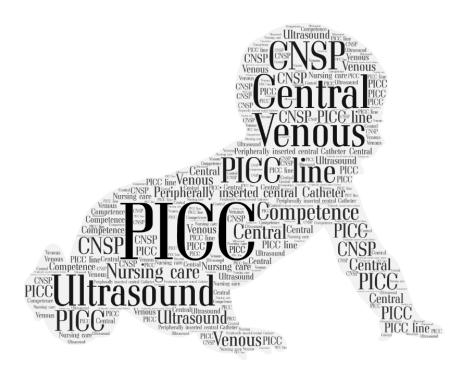


# FOR INSERTION OF Peripherally Inserted Central Catheter (PICC) under Ultrasound guidance

December 2018





# Assessment of Competence in achieving venous access using ultrasound technology

### **Learning Outcomes**

Following completion of the competencies the nurse will demonstrate knowledge and competence of

The use of ultrasound to achieve venous access

### **Competence Assessment Strategy**

To demonstrate practical competence and a sound knowledge base the nurse is required to complete this workbook and competency assessment pack. There are 6 components which will require that on at least three occasions the nurse will undergo assessment of competence for each component under the supervision of the \_\_\_\_\_\_. The assessment grading system is outlined below.

If the candidate is unsuccessful on 1<sup>st</sup> assessment of competence, two further attempts at reassessment may be undertaken. An action plan will be developed and recorded by the assessor.

**Action Plan** The action plan must be documented and should detail the following:

- The area(s) of practice which require development as agreed by the nurse and the assessor
- Specific details of how these area(s) of practice will be addressed in the clinical area
- An agreed period of time for further supervised practice

### **COMPETENCY ASSESSMENT**

### **Guide for Assessors**

An assessor must be a \_\_\_\_\_ who is deemed competent in the use of ultrasound technology. When undertaking supervision of nurses and for the final assessment of competence, it is recommended that the learning outcomes and domains of competence as outlined in the workbook are used as a guide.

ASSESSMENT GRADING SYSTEM			
Learning experience not available	0		
Limited knowledge, observed demonstration of the skill but doubt ability to perform skill safely without guidance/direction	1		
Could perform the skill safely under supervision	2		
Can utilise knowledge and perform the skill safely independently	3		
Confident and competent of the knowledge required and ability to perform the skill safely and efficiently	4		

Domains of Competence					
Domain 1	Competencies in relation to Professional / Ethical Practice				
Domain 2	Competencies in relation to the Holistic approaches to Care and the Integration of Knowledge				
Domain 3	Competencies in relation to Interpersonal Relationships				
Domain 4	Competencies in relation to the Organisation and Management of Care				
Domain 5	Competencies in relation to Personal and Professional Development				



	Our Lady's Children's Hospital Crumlin, Dublin 12	Self-				
Domain	Complete on at least 3 occasions	Assess ment	Assessor			
1. C	ompetence in achieving venous access					
	ate knowledge of the venous arterial and cardiovascular systems in relation to ccess including identification of a suitable vein					
1, 2	Demonstrates knowledge and understanding of vein selection discussing vein patency depth location and vessel width in relation to vascular access gauge					
1,2	Demonstrates understanding of the use of ultrasound guidance, the benefits and risks involved, the potential complications and how to manage them safely and effectively					
1, 2, 4	Demonstrate and identify the child with an appropriate introduction at the bedside and give appropriate explanation to parents/guardians present					
2, 4	Demonstrate awareness of the childs tolerance for the procedure and assess the need for pain relief, giving consideration to comfort and dignity					
Preparing	the child					
1,2,3	Demonstrate correct positioning of the child and limb for line insertion, ensuring comfort for both patient and practitioner					
3,4	Allow time for questions if required					
1, 2,3,	Prepare an aseptic field					
Carries ou	t the procedure					
1,2, 3	Demonstrate knowledge and selects the appropriate skin cleaning solution for the patient					
1, 2, 3	Demonstrates skill and accuracy in mapping of the veins using ultrasound guidance 2d dynamic technique, identifying veins, arteries and nerves correctly					
1, 2, 3	Demonstrates visualisation of the target vein and needle tip for the entire duration of insertion					
1, 2, 3	Demonstrates skill and accuracy in the use of the ultrasound and cannulating using a single practitioner, two handed approach during cannulation					
1, 2, 3	Demonstrates awareness of limitations and seeks advice when required					
1, 2, 3	Demonstrates knowledge of troubleshooting methods that may be required to manage problems					
1, 2, 3	Demonstrates the maintenance of aseptic technique throughout the procedure					
1, 2, 3	Demonstrates the safe disposal of sharps and clinical waste					
1,2,3,5	Demonstrates ability to perform carry out all the elements of the procedure required					
	the procedure				1	
1, 2, 3, 4	Demonstrates knowledge of decontamination procedure of ultrasound machine and probe according to his national guidelines					
1,2,4	Understands and can describe the principles of sharps disposal					
	Understands and can describe the principles of waste disposal					
1,2,4,5	Demonstrate knowledge and skill in troubleshooting complications that can arise with individual patients					
1,4	Correct use of relevant documentation					
	L	l		/		



### **ACTION PLAN**

Action Plan No. 1 (if unsuccessful	l at 1 <sup>st</sup> A	∖ssessm	nent)				
Re-assessment of Competence	(Pleas	e circle	as app	oropriate)			
<b>Demonstrates Competence:</b>	Yes		No				
Signature of Assessor:				Date:		_	
Signature of Candidate:							
If candidate is <b>unsuccessful</b> refer to <b>Ac</b>	ction PI	an No.∶	2				
Action Plan No. 2 (if unsuccessful							
Re-assessment of Competence (Pleas	se circle	e as app	ropria	te)			
<b>Demonstrates Competence</b>		Yes		No			
Signature of Assessor:				_ Date:		_	
Signature of Candidate:				Date:			



# Our Lady's Children's Hospital Crumlin, Dublin 12

# **Completion of Competence Assessment** in the supervision of the management of infants and children with urological conditions.

### **Summary Sheet**

Full Name: Date:						
A Number:	Clinical Area/Unit:	:				
three occasions and h	as been supervised on e/she has completed the nent in the following	Date	Signature of Assessor			
Outcome of Ass	essment: (Please tick ✓ as a	ppropriate)				
Demons	rates Competence: Yes		o 🗆			
Signature of Ass	essor:	Da	ite:			
	didate:	<b>.</b>	ate:			

If candidate is unsuccessful refer to Action Plan. Appendix 1

It is advisable to keep a copy of summary sheet for one's own personal records/portfolio.



Notes	-	•		