

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 1st 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		GRADE
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

Domain	Complete on at least 3 occasions	Self-Assessment	Assessor		
1. Competence in achieving venous access					
Demonstrate knowledge of the venous arterial and cardiovascular systems in relation to vascular access 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 child's 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 out 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				
Following the procedure					
1, 2, 3, 4	Demonstrates knowledge of decontamination procedure of ultrasound machine and probe according to hse 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				



ACTION PLAN

Action Plan No. 1 (if unsuccessful at 1st Assessment)

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Re-assessment of Competence (Please circle as appropriate)

Demonstrates Competence: **Yes** **No**

Signature of Assessor: _____ **Date:** _____

Signature of Candidate: _____ **Date:** _____

If candidate is **unsuccessful** refer to **Action Plan No. 2**

Action Plan No. 2 (if unsuccessful at 2nd Assessment)

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Re-assessment of Competence (Please circle as appropriate)

Demonstrates Competence **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:** _____

ABA Number: _____ **Clinical Area/Unit:** _____

The nurses' practice has been supervised on three occasions and he/she has completed the competence assessment in the following	Date	Signature of Assessor

Outcome of Assessment: (Please tick ✓ as appropriate)

Demonstrates Competence: **Yes** **No**

Signature of Assessor: _____ **Date:** _____

Signature of Candidate: _____ **Date:** _____

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.

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



Notes
