

# SFHCHS75

## Insert a central venous access device



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### Overview

This standard covers the insertion of a central venous access device for the purpose of delivering treatment to adult patients. It includes the assessment of the patient's fitness for the procedure, the selection of an appropriate device, the insertion of the device and education of the patient with regard to potential complications and impact on their lifestyle.

Users of this standard will need to ensure that practice reflects up to date information and policies.

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### Performance criteria

*You must be able to:*

- P1 check the environment and equipment to ensure that everything is properly prepared for the procedure
- P2 apply standard precautions for infection control and other relevant health and safety measures
- P3 accurately identify the patient and introduce yourself and any colleagues involved in the procedure to the patient and/or carer
- P4 ensure that the appropriate consent procedure has been completed
- P5 read the patient's history, notes and prescription and identify any special instructions, investigations or issues for which you need to seek advice
- P6 determine the appropriate central venous access device (CVAD) and the type of anaesthetic to be used, and the location where the procedure is to be undertaken
- P7 ensure that the required personnel are available to undertake the procedure
- P8 assess the patient's physical condition, fitness for the procedure and psychological and emotional state and respond appropriately
- P9 explain the procedure, the type of CVAD and potential complications (and their management) to the patient and/or carer and accurately answer any questions at a level and pace that is appropriate to the patient's needs
- P10 determine whether or not the patient is willing to proceed and concurs with the type of CVAD selected
- P11 position the patient correctly for the procedure, respecting their dignity and ensuring their comfort within the constraints of the procedure
- P12 ensure the patient is adequately anaesthetised/sedated, if appropriate, and that the insertion area for the CVAD is adequately anaesthetised
- P13 insert the CVAD using imaging where appropriate, according to local and manufacturer's guidelines
- P14 check that the catheter is patent by observing blood return and flushing according to local guidelines, secure the catheter and dress the exit site
- P15 remove the CVAD correctly at the conclusion of the procedure
- P16 assess the patient's condition (both physical and emotional) during and at the conclusion of the procedure and take appropriate action
- P17 record the details of the procedure in the patient's notes and patient held records, as appropriate, according to local guidelines

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### Knowledge and understanding

*You need to know and understand:*

- K1 the national and local guidelines for invasive procedures and appropriate imaging
- K2 the local infection control and COSHH guidelines
- K3 the national and local guidelines for consent to invasive procedures
- K4 the local central venous access devices guidelines
- K5 the local guidelines for waste and sharps handling and disposal
- K6 the local guidelines for patient identification
- K7 the local guidelines for patient records, their storage and confidentiality of information
- K8 the local guidelines for risk management and adverse incidents
- K9 the potential problems, indications and contra-indications of the insertion of CVADs
- K10 the anatomy and physiology of the vascular system relevant to central venous catheter insertion
- K11 the signs and symptoms of the patient's physical and emotional status
- K12 the indications and contra- indications for general anaesthesia and/or sedation
- K13 the range of local anaesthetics available, their correct use and contraindications
- K14 the images relevant to insertion of CVAD
- K15 the local procedures and manufacturer's guidelines for the use of CVADs
- K16 the risk factors for insertion of CVADs and appropriate remedial actions
- K17 the high risk to patients of the procedure
- K18 the normal parameters for routine investigations
- K19 the criteria for appropriate insertion of CVAD for specific patient group
- K20 the correct patient position for chosen insertion point for CVAD
- K21 the local thromboprophylaxis guidelines
- K22 the types of cannulae, guide wires, catheters and introducers used for CVADs
- K23 the importance of timely equipment fault recognition and local guidelines for dealing with these
- K24 equipment limitations and routine maintenance
- K25 how to select the appropriate type of device according to individual patient need
- K26 the types of CVADs available for use, their advantages and disadvantages
- K27 the roles and responsibilities of other team members, associated professionals and agencies
- K28 the limits of own one's knowledge and experience and the importance of not operating beyond these
- K29 how to communicate effectively with patients and carers

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### Additional Information

#### External Links

This standard links with the following dimension within the NHS Knowledge and Skills Framework (October 2004):

Dimension: HWB7 Interventions and treatments

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<b>Developed by</b>	Skills for Health
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<b>Originating organisation</b>	Skills for Health
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<b>Original URN</b>	CHS75
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<b>Relevant occupations</b>	Health, Public Services and Care; Medicine and Dentistry; Nursing and Subjects and Vocations Allied; Health Professionals
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<b>Suite</b>	Clinical Health Skills
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<b>Key words</b>	venous, catheter, central catheter, central venous catheter, central access devices.
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