

Supplement 1

CENTRAL VENOUS CATHETER (CVC) INSERTION TEMPLATE

Inserting clinician (name)**Responsible for CVC insertion checklist being followed (name)****Indication (tic boxes, multiple choices allowed)**

- Cardiac surgery
- Parenteral nutrition
- Administration of drugs known to cause tissue injury with extravasation
- Hemodynamic monitoring
- Peripheral venous catheter not possible
- Blood sampling
- Fluid resuscitation
- Introducer

On-going anticoagulant therapy at time for insertion (tic boxes, multiple choices allowed)

- Warfarin
- NOACs¹
- Platelet inhibitors
- LMWH², thromboprophylaxis
- LMWH, therapeutic
- Other

Procoagulants administered before insertion (tic boxes, multiple choices allowed)

- Platelet transfusion
- Prothrombin complex concentrate (4-factor)
- Vitamin K
- Fibrinogen
- Plasma
- Tranexamic acid
- Desmopressin

Time for insertion (date)**Room for insertion (drop-down list, only one choice allowed)**

- Operating theatre
- Intensive care unit
- General ward
- Room reserved for CVC insertions
- Emergency room
- Other

Vascular insertion site (drop-down list, only one choice allowed)

- Right internal jugular vein
- Left internal jugular vein
- Right external jugular vein
- Left external jugular vein
- Right subclavian vein
- Left subclavian vein
- Right femoral vein
- Left femoral vein

Insertion technique (drop-down list, only one choice allowed)

- Ultrasound before insertion only
- Real-time ultrasound guidance, in-plane
- Real-time ultrasound guidance, out-of-plane
- Landmark method
- Change of catheter over guidewire

Catheter position at skin (drop-down list, only one choice allowed)

- Fully inserted
- Centimetre mark

Anaesthetic method (drop-down list, only one choice allowed)

1 Non-vitamin-K oral anticoagulants

2 Low molecular weight heparin

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- General anaesthesia

- Local anaesthesia

Catheter tip position control (tic boxes, multiple choices allowed)

- Ultrasound at insertion

- Blood gas at insertion

- CVP³ at insertion

- ECG⁴ at insertion

- X-ray after insertion

- Can be used directly

- Can be used after correct position verified on chest X-ray

Catheter information

- Number of lumens

- Manufacturer

- Model

- Bore size

- Length

Insertion-related complication (tic boxes, multiple choices allowed)

- No suspected complication

- Unsuccessful insertion – no CVC placed

- Change of vessel

- Change of operator

- Arterial puncture

- Arterial catheterisation

- Aspiration of air in the syringe

- Arrhythmia, self-terminating

- Arrhythmia, specific treatment needed

- Nerve injury

- Pneumothorax

Bleeding (drop-down list, only one choice allowed)

- Bleeding/hematoma at injection site; compression/sutures needed

- Bleeding/hematoma at injection site; vascular surgical intervention needed

- Bleeding/hematoma; transfusion needed

- Bleeding/hematoma; life-threatening

Number of punctures through skin

Number of punctures through vessel wall

3 Central venous pressure

4 Electrocardiogram