

# Implementation of CVC Care Bundle: CVC bundle checklist

Jenny Tong May Geok  
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Langkawi

# Introduction

2 aspects to this study

1. CVC care bundle compliance checklist
2. Audit on CR-BSI  
Determine rates

## The Team

- All ICU staff will be involved-doctors and nurses/medical assistants
- You are the champion
  - provide ongoing teaching
  - you may need to change and serve as model for change
  - communicate with your staff
  - constantly motivate and remind your team to succeed
- Doctors will be inserting *CVC*
- Nurses will witness procedure before and during insertion
- Nurses to be empowered to tell doctors when they are not adhering to the bundle components and advice accordingly
- Doctors/nurses will carry out daily review at 8pm for every *CVC* (first 20 of the month) till the *CVC* is removed

## Setting Aims

- Improvement requires setting aims-numerical goals
- Difficult now as we do not have a baseline rate for CR-BSI
- But may be useful in future for trending and comparing

## Getting started

- Have a meeting with your staff.  
Explain about CR-BSI and its morbidity and mortality
- Introduce the CVC care bundle and its components. Explain its importance in reducing CR-BSI
- Introduce the CVC compliance checklist to nurses and doctors
- Explain in detail to the nurses how to assess compliance

## Getting started

- Assess where you stand presently?

What precautions have been taken when placing CVC previously? Is there a need for change?

You may need to implement changes to your usual established practices in CVC insertion and management.

Eventually, these changes will become established

## Getting started

- Ensure all needed equipment and supplies for compliance are sufficient and available at the point of care

Chlorhexidine 2% for skin antisepsis

Sterile gown and gloves

Cap, mask

Sterile dressing towel/drapes

4% chlorhexidine in 4% isopropyl alcohol for hand washing

## Getting started

- Place one copy of the CVC compliance checklist form for each patient on the ICU chart
- Begin using the bundle with one patient from time of catheter placement
- Work with each nurse to be sure they are able to follow the bundle and implement the checklist and daily review sheet
- 2 Measurements will be determined
  - CR-BSI rate per 1000 catheter days
  - CVC care bundle compliance

## CVC care bundle checklist

No. : ..... Month : .....

Name of patient: ..... R/N : .....

Name of Dr. : .....Name of attending SN:.....

## CVC care bundle checklist

Indicate Yes/ No for each of the following

### 1. Hand hygiene

Did the doctor wash his/her hands with chlorhexidine 4% with 4% isopropyl alcohol?

Yes / No

## CVC care bundle checklist

### 2. Maximal barrier precautions

Did the doctor doing the procedure, wear cap?	Yes / No
wear mask to cover nose and mouth?	Yes / No
wear sterile gown?	Yes / No
wear sterile gloves?	Yes / No
use large drapes to cover the site of insertion?	Yes / No
Did the assistant dropping items onto the field, wear cap?	Yes / No
wear mask to cover nose and mouth?	Yes / No
Is there any other doctor assisting in the insertion?	Yes / No
If 'Yes', did he/she follow all the above barrier precautions?	Yes / No

## **CVC care bundle checklist**

### **3. Chlorhexidine skin antisepsis**

Did the doctor clean the site of insertion with chlorhexidine 2% aqueous or chlorhexidine 2% in 70% alcohol?

Yes / No

## CVC care bundle checklist

### 4. Catheter site selection

Is the subclavian route of insertion chosen? Yes / No

If 'No', doctor to fill the reason/s :-

High risk of bleeding Yes / No

Failed subclavian insertion Yes / No

Infected insertion site Yes / No

Inexperience Yes / No

Distorted anatomy Yes / No

No more subclavian site Yes / No

Risk of subclavian vein thrombosis in dialysis catheters  
Yes / No

