

# **IV Link Staff**



# Infection Prevention & Control A Learning Package for IV Link Staff

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#### Te Poari Hauora ō Waitaha

#### Purpose

This learning package provides key infection prevention messages and direction for knowledge that you require as a IV Link Rep in your area.

It is recommended that you seek further information on any topic that you are unfamiliar with.

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#### Introduction

Every year our patients acquire infections through the use of peripheral intravenous catheters.

Infection prevention and control measures have been recognised as effective in minimising this risk.





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# **Overview of Content**

- Phlebitis
- Risks and sources of infection
- The 5 Moments for Hand Hygiene
- Aseptic Non-Touch Technique (ANTT)
- Glove use
- Maintenance
- Documentation

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# **Infective Phlebitis**

- The main infective complication of a peripheral intravenous device
- 50% of patients may develop phlebitis
- Early recognition is key to prevention of further complications
- First signs are pain and erythema





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# Your Responsibility

#### Assessment

- Use the phlebitis scale
- Assess each shift
- Continue to assess three days post removal for phlebitis
- Remove cannula when not required
- Management
  - Observe each shift
  - Maintain patency
  - Remove when not required
- Documentation



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# **Phlebitis Scoring Scale**

Visual Phlebitis Score			
0	No Symptoms	Observe Cannula	
1	Erythema at insertion site, with or without pain	Observe Cannula	
2	All the above plus oedema	Resite Cannula	
3	All the above, plus streak formation/Palpable Cord	Resite Cannula – Consider Treatment	
4	All the above, plus palpable venous cord > 1 inch (2.54cm) and discharge	Resite Cannula – Consider Treatment	-

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# What did you learn?



1.How often should you assess the site of a peripheral intravenous device for phlebitis?



# **Risks for IV Infections**

#### **KEY MESSAGE**

An IV device presents a risk for infection as it penetrates and bypasses the patient's protective skin barrier

- Site of insertion of IV cannula lower extremity and over mobile joints
- Emergency placement of IV cannula
- Poor aseptic technique
- Non-adherence to the 5 Moments for Hand Hygiene



# **Sources of Infection**

- The source of infection may be endogenous (part of the patient's own skin flora) or exogenous (from the surrounding environment or people)
- The most common source of infection is the patient's skin surrounding the IV site



# **Portals of Entry for Bacteria**



- Bacteria from the patient's skin
- Bacteria contaminating the hub
- Seeding of infection from remote sites in the body
- Bacteria from other external body
- HCW hands
- Contaminated infusate or IV fluid (rare)



# What did you learn?



- 2. Which of the following is the most common source of infection for a peripheral IV device?
- a. Contaminated IV fluid
- b. Patient's skin around the site
- c. Patient's bedside locker

## The 5 Moments for Hand Hygiene

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- Extremely important with IV practice
- BEFORE and
  AFTER patient
  contact
- A patient includes any equipment or tubing attached to them e.g. IV pump or syringe driver



#### IV Related Hand Hygiene Moments



#### Moment 1: Before Touching a Patient

- Touching a patient in any way
  - Touching any invasive medical device connected to the patient (e.g., IV pump)



#### IV Related Hand Hygiene Moments



#### Moment 2: Before a Procedure

- Insertion of a needle into a patient's skin, or into an invasive medical device
  - > Venipuncture, Arterial blood gas, IV flush
- Preparation and administration of any medications given via an invasive medical device, or preparation of a sterile field
  - IV medication
- Insertion of, or disruption to, the circuit of an invasive medical device
  - Vascular access systems

## 5 Moments Example: Altering the rate of an IV pump

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## 5 Moments Example: Replacing an IV fluid bag

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# What did you learn?



#### 3. True or False?

- a) Moment 2 is a hand hygiene opportunity practiced prior to giving an IV flush
- b) Hand hygiene is NOT required prior to altering the rate on an IV pump or syringe driver as the patient is not touched

# Aseptic Non-Touch Technique



- A modified aseptic procedure may be used where the susceptible site is not touched during a procedure. This involves a non-touch technique (ANTT) and the use of nonsterile gloves.
- Sterile gloves **must** be used where a susceptible site may be touched by the gloved hand, if the procedure is likely to be complex or prolonged, and if the susceptible sites cannot be kept aseptic by the non-touch technique.
- Aseptic technique is an integral component of every infusionrelated procedure.

# **Preventing Contamination**



- Never contaminate key parts
- Touch non key parts with confidence



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## What did you learn?



# 4. What does ANTT stand for?

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# **Glove Use and Abuse**

- Gloves are used to protect the healthcare worker from blood and body fluids
- Hand hygiene must be performed before donning and after removing gloves
- Gloves cannot be decontaminated with ABHR or hand gel



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# **Glove Use and Abuse**

- Gloves are not required when reconstituting antibiotics
- If gloves are used to draw up medications they must be changed prior to administering the drug at the patient bedside
- Gloves are NOT a substitute for hand hygiene





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# Documentation

- Documentation is an important part of preventing IV related infections
- Documentation is reviewed by the IP&C service when undertaking audits and surveillance of IV related infections
- Use stickers to document insertion of IV
- Document date on IV dressing
- Document phlebitis score accurately



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## **Answers to Questions**

- Question 1: Every shift
- Question 2: Patient's skin around the site
- Question 3: 3(a) TRUE 3(b) FALSE
- Question 4: Aseptic Non-Touch Technique



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