Aseptic Technique

Infection Prevention Society

Infection Prevention Safety Steps

Administration of an intravenous infusion

1. Setting up a new infusion

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Your 5 moments for hand hygiene[1]



Version 1 Oct 2026

Safety steps

A
1. Clean* tray and allow to dry
2. Open outer packaging on IV infusion bag and administration set

Moment 2 - hand hygiene[1]

B
Expose the spiking port on the new infusion bag and connect to the administration set spike protecting both key parts using a non-touch technique[2]

C
Prime the administration set by running the IV fluid through the line

Moment 1 - hand hygiene[1]

D
1. Check the insertion site of the device
2. Record its condition

Moment 2 - hand hygiene[1]

E
1. Disinfect the hub with 2% chlorhexidine alcohol-based solution for at least 15 seconds
2. Allow to dry protecting the key parts from contamination
3. Flush the VAD to ensure patency

F
Remove the cap on the administration set and connect to the hub ensuring key parts are protected using a non-touch technique[2]

G
1. Safely dispose of waste
2. Clean* the tray
3. Remove gloves (if worn)

Moment 4 - hand hygiene[1]

Safety points

Ensure hands are clean before starting task
Check packaging is intact
Check expiry dates

If the IV infusion contains hazardous medicines put on non-sterile gloves

Hang on the drip stand ensuring the key part[2] is protected from contamination

Is the dressing intact?
Is the patient complaining of pain?
Are there any signs of complications?

Use active disinfection with scrub the hub or passive disinfection with an alcohol impregnated cap and allow the alcohol to dry
VAD = Vascular access device

If preparing medicines as an additive to the infusion refer to ATIPSS Administration of injectable medicines (hazardous or non-hazardous) and inject the additive directly into the medicine port on the infusion bag.

* e.g. using detergent or disinfectant wipe

1. WHO guidelines on hand hygiene in health care: World Health Organization, 2009. Licence: CC BY-NC-SA 3.0 IGO.
2. Association for safe aseptic practice https://www.antt.org

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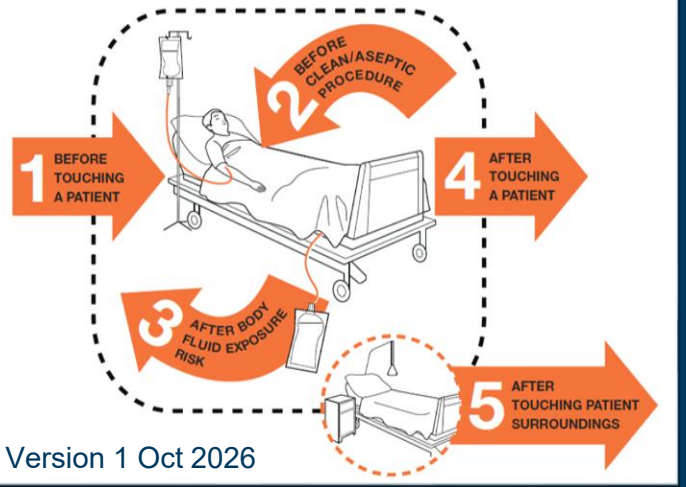
Infection Prevention Safety Steps

Administration of an intravenous infusion

2. Changing the infusion bag

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Your 5 moments for hand hygiene[1]



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Safety steps

A If tray required, clean* tray and allow to dry

Moment 1 - hand hygiene[1]

B
1. Check the insertion site of the device
2. Record its condition

C Open the outer packaging on the IV infusion bag (if present)

Moment 2 - hand hygiene[1]

D Disconnect the empty bag ensuring the spike on the administration set is protected from contamination

E Expose the spiking port on the new infusion bag and connect to the administration set spike protecting both key parts using a non-touch technique[2]

F
1. Safely dispose of waste
2. Clean* the tray (if used)
3. Remove gloves (if worn)

Moment 4 - hand hygiene[1]

Safety points

Use a tray if intending to carry multiple pieces of equipment to the bedside
Ensure hands are clean before starting task
Check packaging is intact
Check expiry dates

Is the dressing intact?
Is the patient complaining of pain?
Are there any signs of complications?

If the IV infusion contains hazardous medicines put on non-sterile gloves

Adding medication to an infusion bag
If preparing medicines as an additive to the infusion refer to A-TIPSS Administration of injectable medicines (hazardous or non-hazardous) and inject the additive directly into the medicine port on the infusion bag

* e.g. using detergent or disinfectant wipe

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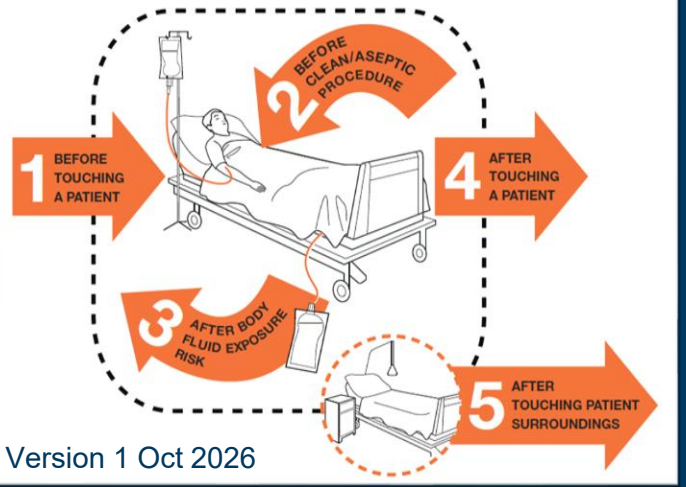
Infection Prevention Safety Steps

Administration of an intravenous infusion

3. Disconnecting the infusion line

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Your 5 moments for hand hygiene[1]



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Safety steps	Safety points
A If tray required, clean* tray and allow to dry	Use a tray if intending to carry multiple pieces of equipment to the bedside Ensure hands are clean before starting task
Moment 1 - hand hygiene[1]	
B 1. Check the insertion site of the device 2. Record its condition 3. Ensure the infusion line clamp is closed	Is the dressing intact? Is the patient complaining of pain? Are there any signs of complications?
Moment 2 - hand hygiene[1]	
C Disconnect the infusion line from the needle free device, protecting key parts using a non-touch technique[2]	If the IV infusion contains hazardous medicines put on non-sterile gloves
D 1. Disinfect the hub with 2% chlorhexidine alcohol-based solution for at least 15 seconds 2. Allow to dry protecting the key parts from contamination 3. Flush the VAD as indicated	Removing any residual fluid reduces the risk of bacterial growth. The infusion set should not be reconnected but discarded VAD – Vascular access device
E 1. Safely dispose of waste 2. Clean* the tray (if used) 3. Remove gloves (if worn)	
Moment 4 - hand hygiene[1]	

* e.g. using detergent or disinfectant wipe

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