

Infection Prevention

for Ultrasound Guided Peripheral/Intravenous Catheter Insertion

Step by Step Checklist

Step 1: Hand Hygiene

Wash hands or use alcohol-based hand rub for 20 seconds.



Step 2: Skin Antisepsis

Use chlorhexidine gluconate to clean the insertion site. Allow solution to dry.



Step 3: Apply Sterile Barriers

Put on gloves, gown, mask, and drape sterile field.



Step 4: Catheter Insertion

Insert catheter while maintaining sterile technique.



Key Reminders:

- Always use maximal sterile barrier precautions.
- Ensure antiseptic solution is completely dry before insertion.

Troubleshooting Tips

If sterile field is compromised:

- Discard all equipment in the compromised area and start fresh with new sterile supplies.

If catheter becomes contaminated:

- Remove and replace the catheter. Do not attempt to sterilize a contaminated catheter.

Compliance Alert

Allow antiseptic to dry completely before catheter insertion.

Antiseptic Solution	Use	Dry Time
Chlorhexidine	Best for skin antisepsis (high efficacy)	30 seconds to 1 minute
Iodine-based solutions	Suitable for some surgical sites	30 seconds
Alcohol-based rub	Hand hygiene (for quick hand cleaning)	No dry time needed