



CLINICAL GUIDELINE

Aseptic Non Touch Technique (ANTT®)

A guideline is intended to assist healthcare professionals in the choice of disease-specific treatments.

Clinical judgement should be exercised on the applicability of any guideline, influenced by individual patient characteristics. Clinicians should be mindful of the potential for harmful polypharmacy and increased susceptibility to adverse drug reactions in patients with multiple morbidities or frailty.

If, after discussion with the patient or carer, there are good reasons for not following a guideline, it is good practice to record these and communicate them to others involved in the care of the patient.

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Important Note:

The online version of this document is the only version that is maintained. Any printed copies should therefore be viewed as 'Uncontrolled' and as such, may not necessarily contain the latest updates and amendments.

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Greater Glasgow and Clyde (NHSGGC) would like to acknowledge the kind permission granted by the Association for Safe Aseptic Practice (www.antt.org). for the use and reproduction of ANTT® resources in the making of this local guideline.

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Introduction

This guideline aims to outline the principles and practices of Aseptic Non Touch Technique (ANTT®) when carrying out any clinical procedure that involves a risk of infection to the patient. NHSGGC are committed to the delivery of high-quality care, this includes reducing the incidence of healthcare associated infections (HAI).

This document is organised with core information followed by exemplar templates. Quality improvement, audit and research within clinical areas signifies that the evidence base is constantly evolving. Practitioners should endeavour to use the most up-to-date evidence on which to base their practice.

Invasive clinical procedures are regularly performed in community and hospital settings. The definition of aseptic technique is often misunderstood and appears to have contributed to practice variability, inadequate risk assessment and uncontrolled standards of practice. Implementing ANTT®:

- Provides a robust set of principles to teach safe and effective aseptic technique that practitioners can apply to all clinical procedures. This is identifiable in practice as the 'The ANTT®-Approach'
- Reduces variability in practice

This approach is supported by EPIC 3 (2014), Royal College of Nursing (RCN) Standards for Infusion Therapy (2016) and The National Institute for Clinical Excellence (NICE) (2017).

To access ANTT® website for further information click [here](#)

Scope

The ANTT® guideline applies to practitioners in NHSGGC adult (acute, mental health and community), paediatric and neonatal services when performing an aseptic procedure. The term practitioner refers to all health care workers and students involved in carrying out aseptic procedures.

Examples of aseptic procedures include, but are not limited to:

- Insertion and maintenance of vascular access devices
- Administration of Intravenous (IV) medication / maintenance fluids and flush
- Care of wounds, surgical incisions, removal of drains and / or sutures
- Insertion of a urinary catheter

This guideline should be used in conjunction with other relevant legislation, guidelines and standards. **Standard Infection Control Precautions (SICPs)** should be embedded into all care delivery.

Roles and Responsibilities

All practitioners should be appropriately trained and supervised in all clinical procedures until considered competent. A practitioner can be described as competent if they have had the necessary training, clinical experience, skills and knowledge to undertake a task safely and without supervision. If a practitioner deems it appropriate to adapt the guidelines, a risk assessment must be undertaken and documented appropriately.

ANTT® definitions

Aseptic technique: the method by which precautions are taken during invasive clinical procedures to prevent the transfer of microorganisms from the health care practitioner, procedure equipment or the immediate environment to the patient. Regardless of the setting, the aim is always to prevent the transfer of pathogenic microorganisms into or onto the patient.

Non-touch technique (NTT): An integral component in achieving asepsis whereby Key-Parts and Key-Sites avoid contamination; if Key-Parts and Key-sites are required to be touched, sterile gloves should be used to carry out the procedure.

Aseptic non-touch technique (ANTT®): a specific type of aseptic technique with a unique theoretical and practice framework that combines the aseptic technique, and non-touch techniques.

Aseptic / asepsis: free from pathogenic organisms.

Key-Parts: The critical parts of procedural equipment that comes in to contact with the patient (a Key-Site) or other procedural equipment. Examples are syringe tips, needles (both the tip and hub), needle free access device or tops of medicine vials.

Examples:

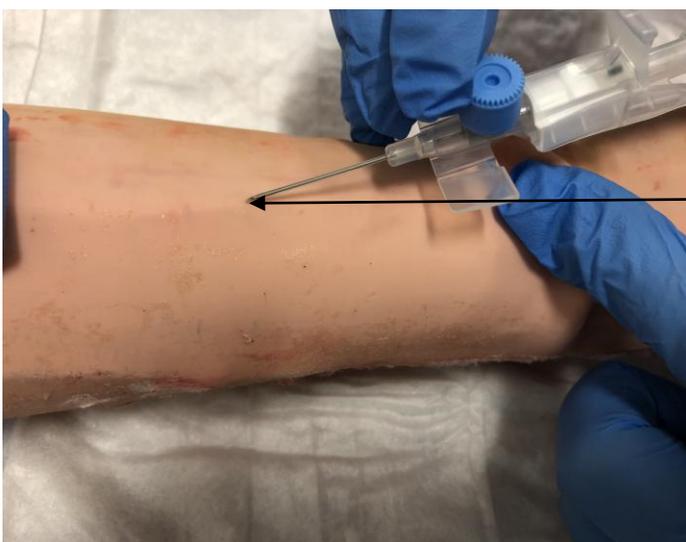


Key parts:

- Tip of needle
- Neck of ampoule
- Hub of needle
- Tip of syringe

Key-Site: The point where the patient's skin is breached. Examples may include wounds, the insertion site of peripheral venous catheter (PVC) or central venous catheter (CVC).

Example:



Key site:

- PVC insertion site

Aseptic field: a designated aseptic working space. This space contains and protects the procedure equipment. When utilising an aseptic non-touch technique there may be differing aseptic fields.

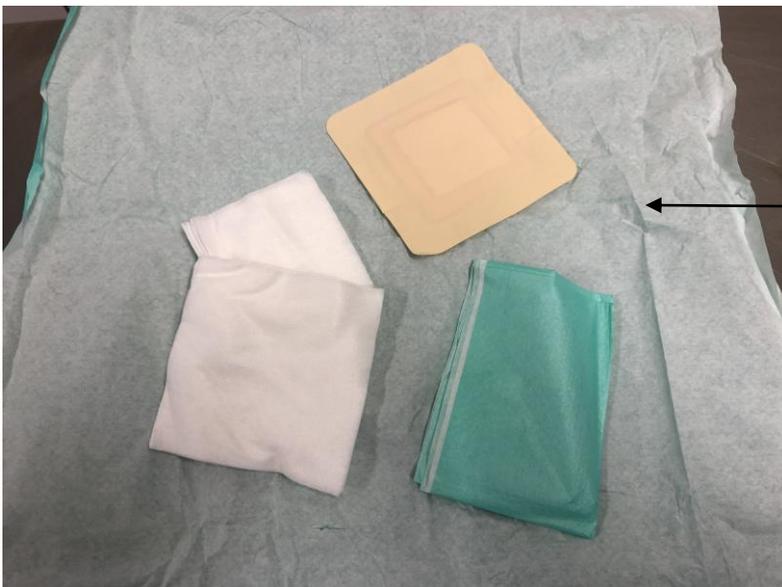
General Aseptic Field: a term used to promote asepsis rather than ensure it. This may be with decontaminated and disinfected procedure tray or trolley. The maintenance of equipment asepsis is by protecting Key-Parts individually with micro critical aseptic fields (caps and covers).

Examples:



Critical Aseptic Field: an example of this is a dressing pack or sterile drape. It is used when Key-Parts and / or Key-Sites cannot be easily protected from contamination during a procedure. These critical aseptic fields require only sterile equipment to be placed within it; sterile gloves are required to maintain asepsis.

Example:

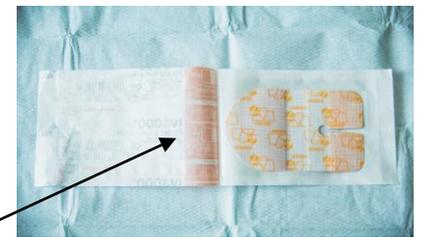
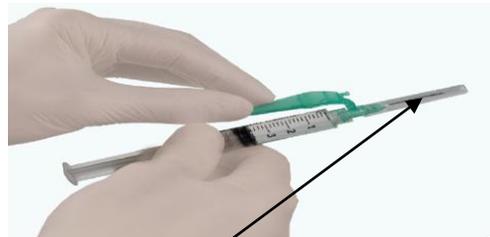


Critical Aseptic field (dressing pack) containing:

- Sterile dressing
- Sterile swabs
- Sterile drape

Micro Critical Aseptic Field: a small critical aseptic field used to protect a specific key part.

Examples:



Micro critical aseptic field, protecting the contents from contamination

- Needle free device wrapper
- Needle cover
- PVC dressing wrapper

Critical aseptic management: the complete main aseptic field (usually a sterile drape) requires critical aseptic maintenance, i.e. only sterile or aseptic equipment can come in to contact with the critical aseptic field. Sterile gloves maintain aseptic continuity.

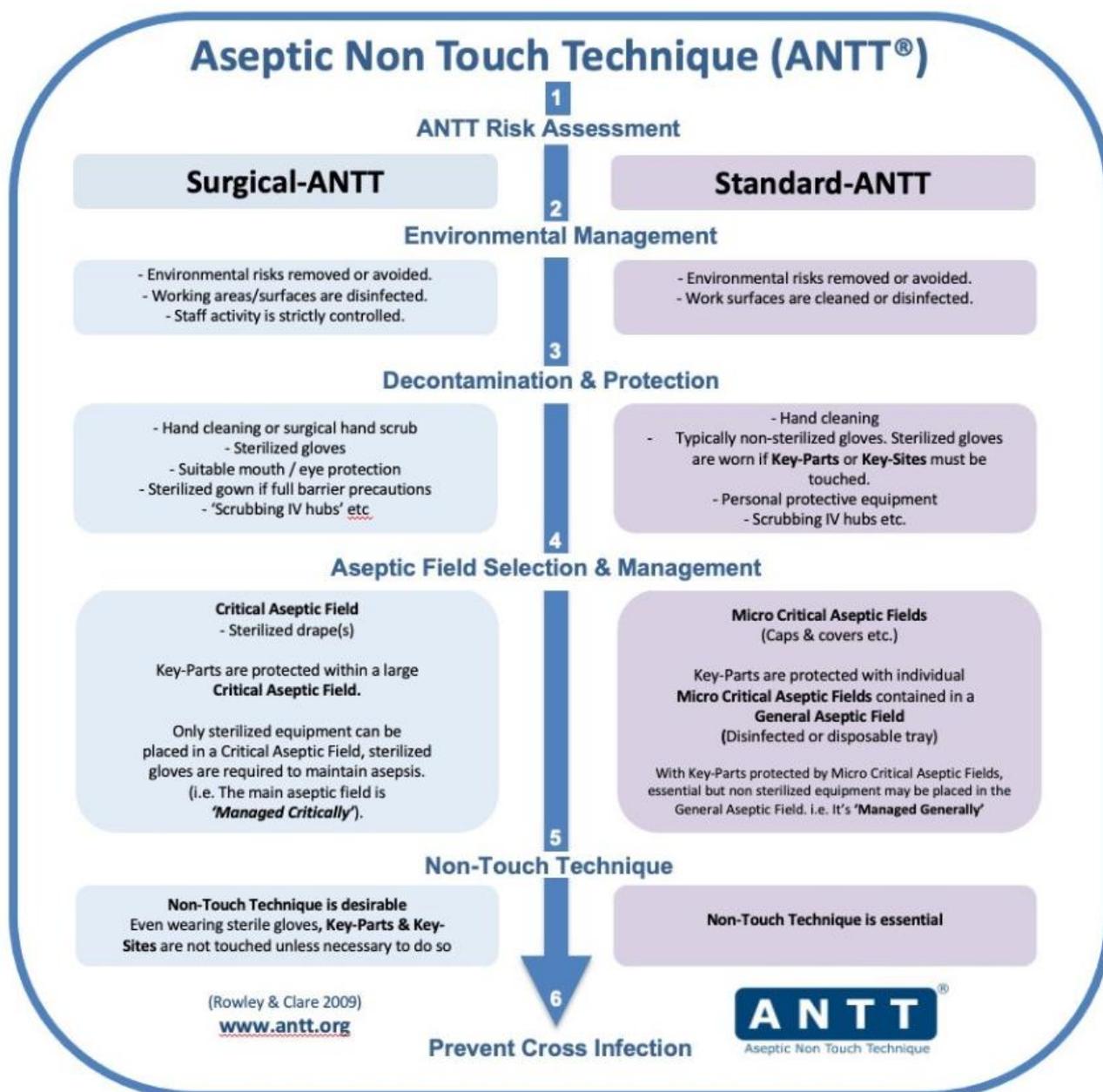
The ANTT® Clinical Practice Framework

The ANTT® Clinical Practice Framework provides a logical and standard set of principles and safeguards that practitioners need to understand and comply with, in order to apply safe aseptic technique to a wide range of clinical procedures. In addition, it provides healthcare organisations with a robust practice framework to ensure standardisation and effective clinical governance of this critical clinical competency.

For further information on the ANTT® principles click [here](#)

The aim of ANTT® is asepsis, which is achieved through 'Key-Part' and 'Key-Site' protection. ANTT® states that the key principle to preventing infection is to maintain the asepsis of **Key-Parts** and **Key-Sites**. A **Key-Part** (e.g. tip of syringe) being any part of a device that will come into direct contact with **Key-Sites**, or other aseptic **Key-Parts** (e.g. insertion point / needle free access device). These **Key-Parts** can be protected by the use of **Micro Critical Aseptic Fields** such as the inside of a syringe wrapper, or a sterile cap. This minimizes the risk of contamination of **Key-Parts** and **Key-Sites** which can potentially lead to infection.

See diagram below for information of the 6 ANTT® actions for safe aseptic technique:



Determining Standard or Surgical ANTT®

There are two types of ANTT® approach: Standard-ANTT® and Surgical-ANTT®. To determine the correct approach practitioners must undertake a risk assessment based on the technical difficulty of achieving asepsis and length of procedure time.

Surgical-ANTT® is used for complicated procedures where one or more of the following criteria are met:	Standard ANTT® can be used for shorter, less complicated procedures when the following criteria are met:
Large or numerous 'Key-Parts' are involved, where it is difficult to perform procedure without touching 'Key-Parts' directly	The procedure involves minimal 'Key-Parts' and 'Key-Sites'
It is a significantly invasive procedure e.g. insertion of central venous catheter (CVC)	The procedure is not significantly invasive e.g. insertion of peripheral venous catheter (PVC)
The procedures is technically complex	The procedure is technically straightforward, with negligible / no risk of contamination of 'Key-Parts' and 'Key-Sites'
The procedure involves an extended time to complete - greater than 20 minutes can be used as a guide. The longer 'Key-Parts' and 'Key-Sites' are exposed to the physical and air environment, the greater potential for environmental (or inadvertent touch) contamination	The procedure is of short duration e.g. less than 20 minutes can be used as a guide
Surgical-ANTT® uses Critical Aseptic Fields (e.g. dressing pack or sterile drape) and only introduces sterilised aseptic equipment into the aseptic field	Standard-ANTT® uses General Aseptic Fields (e.g. plastic procedure tray) and asepsis is managed by using Micro Critical Aseptic Fields (e.g. sterile caps or syringe packets)
Both ANTT® approaches include standard infection control precautions.	
Both ANTT® approaches, aseptic 'Key-Parts' must only come into contact with other aseptic 'Key-Parts' or 'Key-Sites'.	

For further information on choosing standard or surgical approach, visit [ANTT website](#).

Note: If a Key-Part or Key-Site is not aseptic it is considered an '**Inactive** Key-Part / Key-Site', in order to use it the site or component must be disinfected to create an '**Active** Key-Part / Key-Site' (e.g. IV port disinfection prior to access).

Example:



Needle free access device (NFAD) being decontaminated with 2% chlorhexidine in 70% isopropyl alcohol for 15 seconds, prior to accessing it and allow to dry

Use of gloves

Hand hygiene is the single most effective way to prevent the spread of infection and is a fundamental aspect of ANTT®. Both sterile and non-sterile gloves are part of Protective Personal Equipment (PPE) for healthcare practitioners from exposure to blood and body fluids. The choice of sterile versus non-sterile gloves should be based on a risk assessment by the practitioner. The best possible way of not contaminating a 'Key-Part' is simply not to touch it. If the procedure requires direct contact with 'Key-Parts' or 'Key-Sites' sterile gloves must be worn. All gloves should be well fitting.



Non-sterile gloves are typically worn to protect practitioners from blood, body fluid or medicine exposure. As these gloves are not sterile, they will not protect from contamination if 'Key-Parts' and 'Key-Sites' are touched. Non-sterile gloves are satisfactory for administering IV medications, accessing vascular access devices, simple wound care, venepuncture or peripheral venous cannulation where it is possible to undertake the procedure without contaminating 'Key-Parts' or 'Key-Sites'. Micro Critical Aseptic Fields (e.g. sterile caps or syringe packets) are used to protect 'Key-Parts' and 'Key-Sites'.

Sterile gloves are a necessity for urinary catheterisation or central venous catheter insertion and complex wound care as examples of procedures that direct contact with 'Key-Parts' or 'Key-Sites' may occur.

*** Please refer to Nutrition Resource Manual for managing patients on parental nutrition.**

Note: Glove use is not a substitute for hand hygiene, and gloves must be used appropriately and in accordance with manufacturers' instructions, together with standard infection control and transmission based precautions, policies and mandatory legislative requirements (e.g. COSHH Standards).

Good practice points for maintaining ANTT®

- Remember to use a plastic procedure tray or procedure trolley. Always decontaminate and disinfect correctly, as per local procedures with a general-purpose detergent wipe before and after use and dry thoroughly.
- All equipment/packs should be **peeled open** to avoid contamination of Key-Parts and maintain asepsis.
- Do not drop your equipment into your plastic procedure tray. There is a risk Key-Parts may become contaminated by contact with the tray. Use a Micro Critical Aseptic Field (such as the inside of syringe packets) to protect Key-Parts (such as the syringe tip).
- Ensure other equipment in the plastic procedure tray does not come into contact with the Key-Parts (e.g. blood bottles rolling around tray, extension tubing being placed on top of equipment / Key-Parts).
- Take care when inserting the needle into vials/ampoules not to touch the outer sides.
- Take care not to contaminate syringe tips when placing and removing sterile syringe caps.
- The dorsal bung (top port) of a PVC **must** only be used on insertion or in emergencies.

Review of the ANTT® Guideline

This document has been developed by a Short Life Working Group (SLWG) consisting of staff representing services across NHSGGC. Following agreement with Chief Nurses/Chief of Medicine, it was then reviewed and ratified by the following groups:

- NHSGGC Acute Services Clinical Governance Forum
- NHSGGC Mental Health Clinical Governance Forum
- NHSGGC Partnerships Clinical Governance Forum
- NHSGGC Board Clinical Governance Forum

This document will be due for a fifth review in February 2028 (2 years).

Resources

[Aseptic Non Touch Technique® \(ANTT\)](#)

Loveday H.P., Wilson J.A., Pratt R.J., Golsorkhi, A., Bak J.B., Prieto J. and Wilcox M. (2014) Epic 3: National Evidence-Based Guidelines for Preventing Healthcare-Associated Infections in NHS Hospitals in England. *Journal of Hospital Infection*. Supplement S1-S70.

NHS Services Scotland [National Infection Prevention and Control Manual](#).

NHS Education for Scotland [Scottish Infection Prevention and Control Education](#)

NHSGGC [Infection Prevention and Control](#)

NHSGGC [Vascular Access Device, Care and Maintenance Guideline](#)

NHSGGC [IV medicine and flush administration policy](#)

NHSGGC [Sharps](#)

NICE [Infection Prevention and Control](#)

NICE [Healthcare-associated infections: prevention and control](#).

The following templates are for guidance on implementing an ANTT® approach. The equipment shown is for demonstration of the ANTT®-approach. Practitioners will still be required and have responsibility to make appropriate decisions on using particular equipment (such as drapes/dressings or passive disinfection caps).

These posters are available from Medical Illustration:

Peripheral Cannulation using standard ANTT: MI351546

Venepuncture/phlebotomy using standard ANTT: MI351549

Intravenous (IV) medicine preparation and administration using standard ANTT: MI351550

Simple Wound Care using standard ANTT: MI369188

Peripherally Inserted Central Catheter (PICC) dressing change using surgical ANTT: MI369189

NOTE: Patients may have allergies or intolerance to particular products. Practitioners are responsible to ensure that suitable alternative products are used. Local policies and guidelines should be adhered to.

NHSGGC Peripheral cannulation using Standard-ANTT



Preparation zone



1



2



3



4



5



6

Patient Zone



7



8



9



10



11



12



13



14



15



16

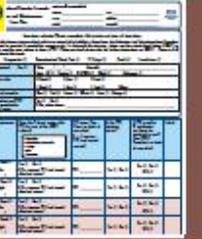
Decontamination zone



17



18



19

NHSGGC Venepuncture/Phlebotomy using Standard-ANTT



Preparation zone



1
Gain consent, explain procedure and position patient. Patient cleans hand and arm.



2
Perform hand hygiene with soap and water or alcohol based hand rub (ABHR)



3
Clean tray or trolley creating a General Aseptic Field. If using gloves – remove and perform hand hygiene before next step.



4
Gather all equipment



5
Perform hand hygiene with ABHR or soap and water



6
Prepare Equipment protecting Key-Parts with non-touch technique (NTT) and Micro Critical Aseptic Fields (Caps & Covers)

Patient Zone



7
Perform hand hygiene with ABHR or soap and water and apply apron



8
Position arm, apply disposable tourniquet and palpate vein, loosen tourniquet after suitable vein located



9
Perform hand hygiene with ABHR or soap and water



10
Apply non-sterile gloves, reapply tourniquet



11
Clean skin with a 2% chlorhexidine and 70% isopropyl alcohol wipe/ applicator and cross hatch method for 15 secs



12
Allow skin to dry. Access patient's vein protecting Key-Parts and Key-Sites using NTT (if repalpation is necessary, reclean the skin)

If attempt to draw blood is unsuccessful, return to Step 8



13
Dispose of sharps, and equipment



14
Dispose of PPE



15
Perform hand hygiene with ABHR or soap and water

Decontamination zone



16
Clean tray according to local policy.



17
Perform hand hygiene with ABHR or soap and water

Complete documentation and ensure samples are labelled appropriately, before leaving patient

NHSGGC Intravenous (IV) medicine preparation and administration using Standard-ANTT



Preparation zone

1
Gain consent, and explain procedure.
Perform hand hygiene with soap and water or alcohol based hand rub (ABHR)

2
Clean tray, creating a general aseptic field. If using gloves – remove and decontaminate hands before next step

3
Gather all equipment place around the tray

4
Perform hand hygiene with ABHR or soap and water

5
Apply PPE (use sterile gloves if you must touch the Key-Parts)

6
Prepare Equipment protecting Key-Parts with non-touch technique (NTT) and Micro Critical Aseptic Fields (Caps & Covers)

7

7
Remove gloves, Perform hand hygiene with ABHR or soap and water

Omit steps 7 & 8 if able to proceed directly to step 9 without glove contamination

8

8
Perform hand hygiene with ABHR or soap and water

9

9
Apply non-sterile gloves (use sterile gloves if you must touch the Key-Parts)

10

10
Remove passive disinfection cap, if in use, and 'Scrub the Hub'

'Scrub the Hub'

- Open a 2% chlorhexidine/70% alcohol wipe
- Scrub the Hub TIP for 15secs creating friction using different areas of the wipe
- Wipe AWAY from the tip
- Allow to dry before use

11

11
Administer IV Medication using NTT. Apply passive disinfection cap, if applicable.

12

12
Dispose of sharps and equipment

13

13
Dispose of PPE

14

14
Perform hand hygiene with ABHR or soap and water

Decontamination zone

15

15
Clean tray, according to local policy

16

16
Perform hand hygiene with ABHR or soap and water

Complete medicine administration in HEPMA or kardex™ and any other appropriate documentation

NHSGGC Peripherally Inserted central Catheter (PICC) – Dressing Change using Surgical-ANTT



Preparation zone	<p>1</p> <p>Perform hand hygiene with soap and water or alcohol based hand rub (ABHR)</p>	<p>2</p> <p>Clean preparation surface creating a General Aseptic Field. If using gloves – remove and perform hand hygiene before next step</p>	<p>3</p> <p>Gather all equipment</p>	<p>4</p> <p>Perform hand hygiene with ABHR or soap and water</p>	Patient Zone	<p>5</p> <p>Perform hand hygiene with ABHR or soap and water</p>	<p>6</p> <p>Apply PPE. Use sterile gloves if Key-Parts or Key-Sites may / could be touched</p>	
	<p>7</p> <p>Remove dressing using non-touch technique (NTT)</p>	<p>8</p> <p>Dispose of waste and remove gloves</p>	<p>9</p> <p>Perform hand hygiene with ABHR or soap and water</p>	<p>10</p> <p>Open equipment onto Critical Aseptic Field. Perform hand hygiene with ABHR or soap & water</p>		<p>11</p> <p>Apply sterile Gloves, organise equipment maintaining asepsis</p>	<p>12</p> <p>Clean exit site using 2% chlorhexidine in 70% isopropyl alcohol using NTT. Use sterile swab to hold line. Allow to dry</p>	<p>13</p> <p>Apply dressing including fixation device using NTT</p>
	<p>14</p> <p>Dispose of equipment, waste and gloves, then remove and dispose of apron</p>	<p>15</p> <p>Perform hand hygiene with ABHR or soap and water</p>	Decontamination zone			<p>16</p> <p>Clean tray, according to local policy. If using gloves – remove and perform hand hygiene with ABHR or soap and water</p>	<p>17</p> <p>Perform hand hygiene with ABHR or soap and water</p>	<p>18</p> <p>Complete relevant documentation</p>

NHSGGC Simple Wound Care using Standard-ANTT



Preparation zone	<p>1 </p> <p>Gain consent, explain procedure and position patient. Patient cleans hand and arm</p>	<p>2 </p> <p>Perform hand hygiene with soap and water or alcohol based hand rub (ABHR)</p>	<p>3 </p> <p>Clean tray, creating a general aseptic field. If using gloves – remove and decontaminate hands before next step</p>	<p></p> <p>Gather all equipment and place on bottom shelf of trolley</p>	<p></p> <p>Perform hand hygiene with ABHR or soap and water</p>		
	<p>5 </p> <p>Perform hand hygiene with ABHR or soap and water and apply apron</p>	<p>6 </p> <p>Apply non-sterile gloves, reapply tourniquet</p>	<p>7 </p> <p>Remove dressing using non-touch technique (NTT). Dispose of dressing</p>	<p>8 </p> <p>Dispose of gloves</p>	<p>9 </p> <p>Perform hand hygiene with ABHR or soap and water</p>	<p>10 </p> <p>Open supplies Protect within Micro-Critical Aseptic Field and NTT on a General Aseptic Field</p>	<p>11 </p> <p>Apply non-sterile gloves</p>
	<p>12 </p> <p>Clean wound using a NTT</p>	<p>13 </p> <p>Dress wound using a NTT</p>	<p>14 </p> <p>Dispose of equipment, waste and gloves, then remove and dispose of apron</p>	<p>15 </p> <p>Perform hand hygiene with ABHR or soap and water</p>	<p>16 </p> <p>Clean tray, according to local policy. If using gloves – remove and perform hand hygiene with ABHR or soap and water</p>	<p>17 </p> <p>Perform hand hygiene with ABHR or soap and water</p>	
	Decontamination zone						