

ACIPC

Australasian College
for Infection Prevention and Control

Aseptic Technique Symposium

Sue Atkins

Grampians Region Infection Control Consultant
Service and Workforce Development
Department of Health
Victoria

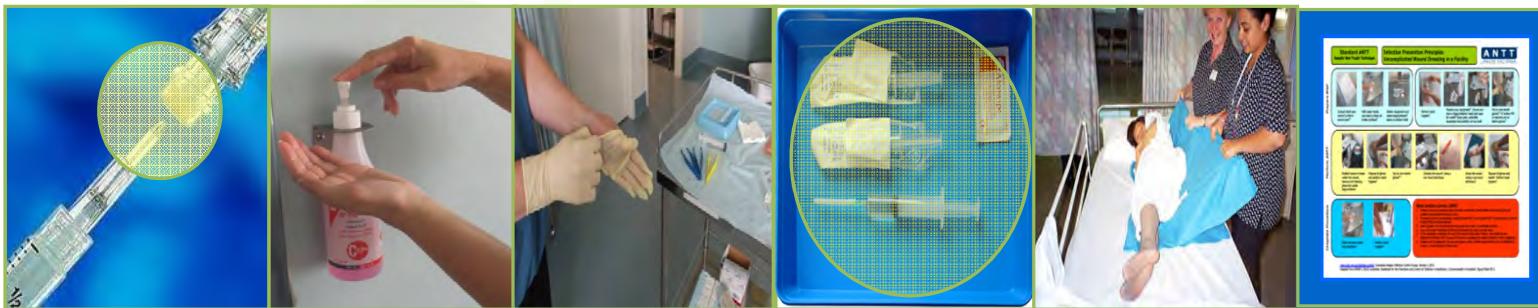


Session Two

- Principles versus prescriptive steps
- The importance of understanding terminology
- Aseptic technique principles in practice
- Summary



Aseptic Technique in Practice





Standard clinical practice frameworks

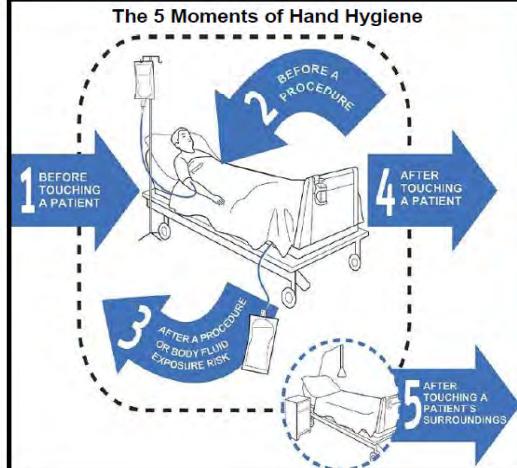
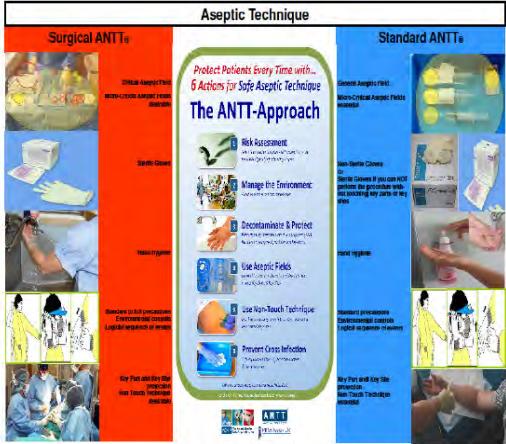
Using frameworks based on principles rather than relying on prescriptive steps will:

- ✓ enable healthcare workers to make safe practice choices
- ✓ eliminate ritualistic practices
- ✓ enable healthcare workers to understand the consequences of their actions
- ✓ contribute to a reduction in HAI



Standard clinical practice frameworks

Infection Prevention and Control - Standard Clinical Practice Frameworks

Hand Hygiene	Standard Precautions	Aseptic Technique
The 5 Moments Framework <ol style="list-style-type: none">1. Before touching a patient2. Before a procedure3. After a procedure or body fluid exposure risk4. After touching a patient5. After touching a patient's surroundings The 5 Moments of Hand Hygiene 	Infection Prevention Framework <p>It is essential that standard precautions are applied at all times regardless of a patients, client or residents actual or perceived infection status</p> <ul style="list-style-type: none">• Hand hygiene• PPE• ANTT®• Safe use and disposal of sharps• Environmental cleaning• Reprocessing of reusable equipment and instruments• Respiratory hygiene• Waste management• Appropriate handling of linen	Aseptic Non Touch Technique (ANTT®) Framework <ol style="list-style-type: none">1. Key part and key Site identification and protection1. Hand hygiene2. Glove use and no touch technique3. Aseptic fields—Surgical/Standard ANTT®4. Environmental controls5. Logical sequencing of events  <p>Grampians Region Infection Control Group: Infection Prevention and Control Standard Clinical Frameworks Version 3:2014 Adapted from NHMRC (2010) Australian Guidelines for the Prevention and Control of Infection in Healthcare, Commonwealth of Australia.</p> <p>www.grhc.org.au/infection-control</p>



Terminology

Accurate terminology is required in order to promote clarity of practice. An understanding of aseptic technique begins with recalling the definitions of three important terms:

- Sterile free from microorganisms
- Asepsis freedom from infection or infectious (pathogenic) material
- Clean free from dirt, marks or stains

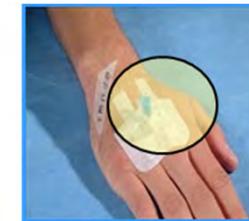
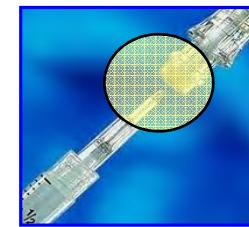
Understanding these terms will guide safe practice choices



Core Infection Prevention Components of Aseptic Technique using the ANTT® Framework

In ANTT®, asepsis is promoted and/or ensured by the use of six core infection prevention and control components:

1. Key-Part and Key-Site identification and protection
2. Hand hygiene
3. Glove use and a non touch technique
4. Aseptic Fields to ensure or promote asepsis
5. Environmental controls
6. Sequencing of procedure events





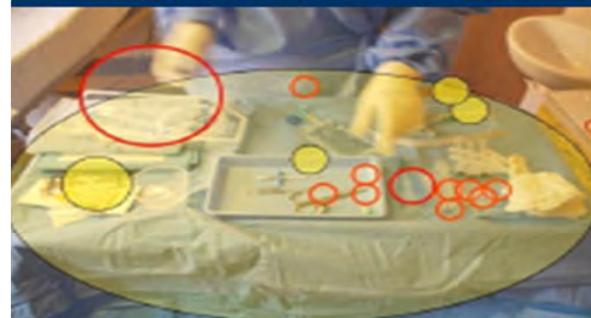
Promoting or ensuring asepsis!

Surgical ANTT

Critical aseptic field

(Must be managed critically*)

Micro critical aseptic fields desirable



Standard ANTT

General aseptic field

(Doesn't require to be managed critically*)

Micro critical aseptic fields essential



Micro critical aseptic fields





Surgical or Standard ANTT®

Surgical ANTT®

Surgical ANTT® is demanded when procedures are technically complex, involve extended periods of time (usually longer than 20 minutes), large open Key-Sites or large or numerous Key-Parts.

To counter these risks, a Main Critical Aseptic Field and sterile gloves are required and often full protective precautions. Surgical ANTT® should still utilise Critical-Micro Aseptic Fields and non touch technique where practical to do so.

Examples:

- Surgical procedures
- Large complex wound dressings
- CVC insertion



Standard ANTT®

Clinical procedures managed with Standard ANTT® will usually be technically simple, short in duration (approximately less than 20 minutes), and involve relatively few and small Key-Sites and Key-Parts.

Standard ANTT® requires a Main General Aseptic Field and typically non-sterile gloves (sterile gloves should be used if it is necessary to touch key parts and key sites directly). The use of Critical Micro-Aseptic Fields and a non touch technique is essential to protect Key-Parts and Key-Sites.

Examples:

- Change of supra pubic catheter
- Uncomplicated wound dressings
- IV insertion
- Taking blood/blood cultures
- Antibiotic preparation





Risk Assessment

Consider the practice variables:

- The 6 core IP components
 - the complexity of the procedure
 - how invasive the procedure is
 - the duration of the procedure
 - number and size of key parts and key sites
- Your competency or confidence



Aseptic Technique

Surgical ANTT®



Critical Aseptic Field
Micro-Critical Aseptic Fields
desirable



Sterile Gloves



Hand Hygiene



Standard to full precautions
Environmental controls
Logical sequence of events



Key Part and Key Site
protection
Non Touch Technique
desirable

Protect Patients Every Time with...
6 Actions for Safe Aseptic Technique

The ANTT-Approach



1 Risk Assessment

Select Standard or Surgical-ANTT according to the technical difficulty of achieving asepsis



2 Manage the Environment

Avoid or remove contamination risks



3 Decontaminate & Protect

Hand cleaning, personal protective equipment (PPE). Disinfecting equipment, surfaces and Key-Parts



4 Use Aseptic Fields

General, Critical and Micro Critical Aseptic Fields protect Key-Parts & Key-Sites



5 Use Non-Touch Technique

Key-Parts must only come into contact with other Key-Parts & Key-Sites



6 Prevent Cross Infection

Safe equipment disposal, decontamination & hand cleaning



www.grhc.org.au/infection-control

Standard ANTT®

General Aseptic Field
Micro-Critical Aseptic Fields
essential



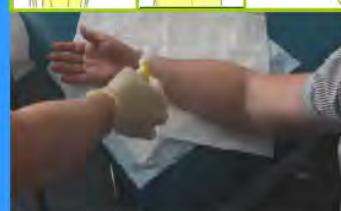
Non-Sterile Gloves
Or
Sterile Gloves if you can NOT perform the procedure without touching key parts or key sites



Hand Hygiene



Standard precautions
Environmental controls
Logical sequence of events



Key Part and Key Site
protection
Non Touch Technique
essential

Grampians Region Infection Control Group: ANTT Framework Overview Version 3:2014: Adapted from NHMRC (2010) Australian Guidelines for the Prevention and Control of Infection in Healthcare. Commonwealth of Australia.



Antibiotic Preparation



Emptying an IDC



**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique

**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique





Blood Collection



IV Medication



**Standard
Aseptic Technique**

**General
Aseptic Field**
**Micro-Critical
Aseptic Field**

Non Touch Technique

Non Sterile
Gloves

**Standard
Aseptic Technique**

**General
Aseptic Field**
**Micro-Critical
Aseptic Field**

Non Touch Technique



Non Sterile
Gloves



Cannulation



IDC Insertion



**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique

**Surgical
Aseptic Technique**

**Critical
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique





Wound Care—Facility



Copyright Medetec (<http://www.medetec.co.uk>)

Wound Care—Home



**Surgical
Aseptic Technique**

**Critical
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique

**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique





Blood Glucose Test



Staple Removal



**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique

**Standard
Aseptic Technique**

**General
Aseptic Field**

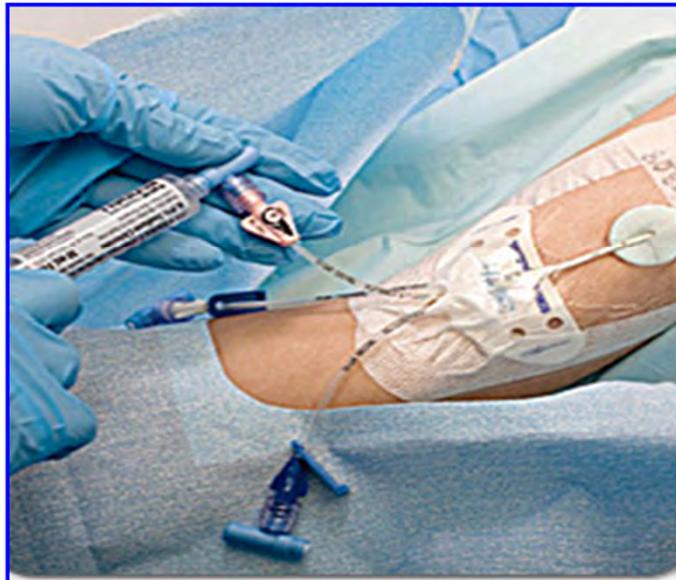
**Micro-Critical
Aseptic Field**

Non Touch Technique





PICC Insertion



PICC Dressing



**Surgical
Aseptic Technique**

**Critical
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique

**Standard
Aseptic Technique**

**General
Aseptic Field**

**Micro-Critical
Aseptic Field**

Non Touch Technique





The wrong way! and The Right Way!

Anaesthetic Videos

These videos were kindly made and supplied to ANTT by Dr Toby Everett – Anaesthetist

Please note: These videos use HUMOUR to convey some serious points about practice. The poor practice examples shown are INTENDED to demonstrate poor practice.

The video clips demonstrate that performing safe aseptic technique with suitable equipment does not take significantly longer to perform than poor aseptic technique with poor equipment.



Wrong Way!



Right Way!





Summary

Aseptic Technique

Surgical ANTT®

Critical Aseptic Field
Micro-Critical Aseptic Fields desirable
Sterile Gloves
Hand Hygiene
Standard to full precautions Environmental controls
Logical sequence of events
Key Part and Key Site protection
Non Touch Technique desirable

Protect Patients Every Time with... 6 Actions for Safe Aseptic Technique

The ANTT-Approach

- 1 Risk Assessment
- 2 Manage the Environment
- 3 Decontaminate & Protect
- 4 Use Aseptic Fields
- 5 Use Non-Touch Technique
- 6 Prevent Cross Infection

ANTT is a unique type of aseptic technique (NICE 2012)
For the ANTT Clinical Practice Framework see - www.antt.org

ASAP The Australian Society for Safe Aseptic Practice
ANTT Australasian Non-Touch Technique
MRSA Action UK

Standard ANTT®

General Aseptic Field
Micro-Critical Aseptic Fields essential
Non-Sterile Gloves Or Sterile Gloves if you can NOT perform the procedure without touching key parts or key sites
Hand Hygiene
Standard precautions Environmental controls
Logical sequence of events
Key Part and Key Site protection
Non Touch Technique essential

Grampians Region Infection Control Group: ANTT Framework Overview Version 3:2014; Adapted from NHMRC (2010) Australian Guidelines for the Prevention and Control of Infection in Healthcare. Commonwealth of Australia.



References / Acknowledgments

This presentation has largely been based on the national infection control guidelines listed below to ensure the content reflects healthcare in Australia. These guidelines can be accessed from the below web link.

NHMRC. (2010). Australian guidelines for the prevention and control of infection in healthcare. Commonwealth of Australia. Sections B1.7 and B5.4.

www.nhmrc.gov.au/node/30290

This presentation has also been based on the resources provided by the Association for Safe Aseptic Practice (ASAP) UK to maintain the integrity of the ANTT® framework founded by ASAP. These resources can be accessed from the below web link.

Aseptic Non Touch technique (ANTT®) A Practice Framework for Clinical Practice V2.8 2012.
The Association for Safe Aseptic Practice (ASAP)

www.antt.org.uk



Questions or Access to Resources

Sue Atkins

Grampians Region Infection Control Consultant
Service and Workforce Development

Department of Health

Victoria

sue.e.atkins@health.vic.gov.au