



NATIONAL OPERATING ROOM NURSING AUDIT (NORNA) ELEMENT 5: PERIOPERATIVE CONTINUUM OF CARE

5.7 SCRUBBING, GOWNING AND GLOVING

1. INTRODUCTION

Scrubbing, gowning and gloving are vital steps before surgery. The standard of practice must be adhered to prevent infection. OT nurses need to maintain competency in these procedures as the skin can never be sterilized. Therefore, scrubbing, gowning and gloving must be done correctly before participating in surgery.

2. STANDARD

Scrub nurses must abide to the principles of scrubbing, gowning and gloving before carrying out operative procedures.

3. OBJECTIVES

1. To prevent surgical site infection.
2. To ensure scrub nurses perform proper technique of scrubbing, gowning and gloving.

1. CRITERIA

Structure	Process	Outcome
<p>1. Scrub room</p> <p>1.1 Antimicrobial cleansing agent.</p> <p>1.2 Sterile brush</p> <p>1.3 Goggle</p> <p>1.4 Face Mask</p> <p>1.5 Plastic apron.</p> <p>1.6 Sterile gown</p> <p>1.7 Sterile Gloves</p>	<p>1. Pre Scrubbing:</p> <p>1.1 Finger nails must be short and no abrasions on skin.</p> <p>1.2 Remove watch, ring and all jewellery.</p> <p>1.3 Wear face mask</p> <p>1.4 Fold up sleeves of OT attire to >5 cm above the elbow.</p> <p>2. Scrubbing:</p> <p>2.1 Wet hands until 5 cm above elbow.</p> <p>2.2 Dispense a small amount of anti-microbial cleansing agent on palm of hand.</p> <p>2.3 Perform initial hand washing using friction and hand rubbing to 5 cm above the elbow.</p> <p>2.4 Rinse hands thoroughly under running water with hands upright.</p> <p>2.5 Pick a sterile brush.</p> <p>2.6 Dispense a small amount of anti-microbial cleansing agent on the brush.</p> <p>2.7 Brush the fingernails of both hands</p>	<p>1. Scrub nurses perform correct method of scrubbing, gowning, and gloving.</p> <p>2. Compliance to aseptic technique.</p>

- 2.8 Drop the brush.
- 2.9 Rinse fingernails of both hands.
- 2.10 Dispense a small amount of anti-microbial cleansing agent on the palm.
- 2.11 Perform hand-rub:
Rub the palms and back of both hands with fingers interlaced. Perform friction and hand rubbing to 5 cm above the elbow of both forearms.
- 2.12 Rinse both hands.
- 2.13 Apply antimicrobial agent on the palm. Perform final handrub on the palm until 5 cm below the wrist of both forearms.
- 2.14 Rinse both hands thoroughly.

3. GOWNING:

- 3.1 Scrub nurse open 2nd layer of gown packs.
- 3.2 Dap hands with sterile hand towel correctly.
- 3.3 Grasp collar of sterile gown, hold gown up and allow bottom of gown to unfold downwards.
Don gown correctly

4. GLOVING:

Wear sterile surgical gloves using closed method.

- 4.1 Keep hands well within the sleeves.
- 4.2 Pick the right side glove using the left hand.
- 4.3 Place glove on the palm of right / left hand.
- 4.4 Fingers of glove pointing towards wearers.
- 4.5 Right /left thumb of glove parallel to right /left thumb of hand.
- 4.6 Stretch and unfold the cuff to cover the right / left ahead within the sleeve.
- 4.7 Pull the gloves to cover the sleeve. Repeat the procedure for the other hand
- 4.8 Tie sterile gown by sterile operating team member.

5. METHODOLOGY

- 5.1 Design : Direct observation of Scrubbing, Gowning and Gloving.
- 5.2 Setting : Operating Room
- 5.3 Inclusion criteria : All scrub nurses
- 5.4 Exclusion criteria : -
- 5.5 Population : Scrub Nurse
- 5.6 Sample Design : Convenient sampling
- 5.7 Sample size : 30% of scrub nurse working in Specialist Hospital and 50% for Hospital Pakar Major and Hospital Pakar Minor.
- 5.8 Time frame : 2 months
- 5.9 Instrument : Audit Form NORNA E5 AF 5.7 – one check list for one observation.

6. DEFINITION OF OPERATIONAL TERMS :

6.1 Scrubbing is a procedure whereby the scrub nurse uses antimicrobial cleansing agent to scrub her hands and forearms;

6.2 Sterile brush is a brush used to scrub fingernails. It is packed and sterilized.

6.3 Sterile gown is a gown which has been packed and sterilized and used during surgery.

6.4 Sterile surgical gloves are pre-packed sterile gloves used during surgery.

7. COMPLIANCE OF SCRUBBING, GOWNING AND GLOVING

7.1 Every step in the process must be performed.

- Perform hand scrubbing.
- Open 2nd layer sterile gown pack
- Donning a sterile gown
- Tie sterile gown
- Wear sterile surgical gloves

7.2 Score: 100% compliance of scrubbing, gowning and gloving.

8. AUDIT FORM

NATIONAL OPERATING ROOM NURSING AUDIT	VERSION 3/2018
ELEMENT 5 : PERIOPERATIVE CONTINUUM OF CARE	DATE: 29/11/2018
TOPIC: 5.7 SCRUBBING, GOWNING AND GLOVING	PAGE NO 1/5
DOCUMENT NO : NORNA E5 AF 5.7	

3. STANDARD:

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4. OBJECTIVES:

- 1.To prevent surgical site infection.
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Date of Audit:.....

Locality :

Auditor:-

Auditee:-.....

NB. Instruction for Auditors

1. To tick [✓] at the appropriate column.

S/N	ITEM	SOURCE OF INFORMATION	YES	NO	N/A
T1	Pre Scrubbing:				
	T 1.1 Fingernails should not reach beyond the fingertip (short)	Observe nurse			
	T1.2 No watch, ring and jewelry.	Observe nurse			
	T1.3 Wear face mask	Observe nurse			
T1.4 Sleeves of OT attire folded up to 5 cm above the elbow.	Observe nurse.				
T2	Scrubbing:				
	T2.1 Wet hands until 5 cm above elbow.	Observe nurse.			
	T2.2 Dispense a small amount of anti-microbial cleansing agent on palm of hand.	Observe nurse			
	T2.3 Perform initial hand washing using friction and hand rubbing to 5 cm above the elbow.	Observe nurse			
	T2.4 Rinse hands thoroughly under running water with hands upright.	Observe nurse.			
T2.5 Pick a sterile brush	Observe nurse.				

	T2.6 Dispense a small amount of anti-microbial cleansing agent on the sterile brush.	Observe nurse			
	T2.7 Brush fingernails of one hand then rinse. Repeat for the other hand.	Observe nurse			
	T2.8 Drop the scrub brush.	Observe nurse			
	T2.9 Rinse fingernails of both hands.	Observe nurse			
	T2.10 Dispense a small amount of anti-microbial cleansing agent on the palm.	Observe nurse			
	T2.11 Perform correct hand-rubbing technique.	Observe nurse			
	T2.12 Rinse both hands.	Observe nurse			
	T2.13 Dispense antimicrobial agent on the palm. Perform final hand rub on the palm until 5 cm below the wrist of both forearms.	Observe nurse			
	T2.14 Rinse both hands thoroughly	Observe nurse			
T3	GOWNING:				
	T3.1 Scrub nurse open 2 nd layer of sterile gown pack.	Observe nurse			
	T3.2 Dap hands with sterile hand towel correctly.	Observe nurse.			

	T3.3 Grasp collar of sterile gown, hold gown up and allow bottom of gown to unfold downwards.	Observe nurse.			
	T3.4 Don gown correctly	Observe nurse.			
T4.	GLOVING:				
	T4.1 Keep hands well within the sleeves.	Observe nurse			
	T4.2 Pick the right side glove using the left hand	Observe nurse			
	T4.3 Place glove on the palm of right / left hand.	Observe nurse			
	T4.4 Fingers of glove pointing towards wearers.	Observe nurse			
	T4.5 Right / left thumb of glove parallel to right / left thumb of the hand.	Observe nurse			
	T4.6 Stretch and unfold the cuff and pull glove to cover the sleeve. - Repeat the procedure for the other hand.	Observe nurse			
	T4.7 Tie sterile gown with the help of operating team member	Observe nurse			

AUDIT REPORT

(please [√] the appropriate box)

RATING

Technical	Conformance	Non Conformance
Scrubbing		
Gowning		
Gloving		

REMARKS :-

Auditor (name and signature):.....

**Calculation: $\frac{\text{Item conformance}}{\text{Total item} - \text{item N/A}} \times 100$