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## Background

Crepe bandages are used vastly in multi-disciplinary surgeries such as Orthopaedic, Hand, Vascular and Plastic surgeries. They are also ideal for securing and protecting surgical wound dressings post-operatively.

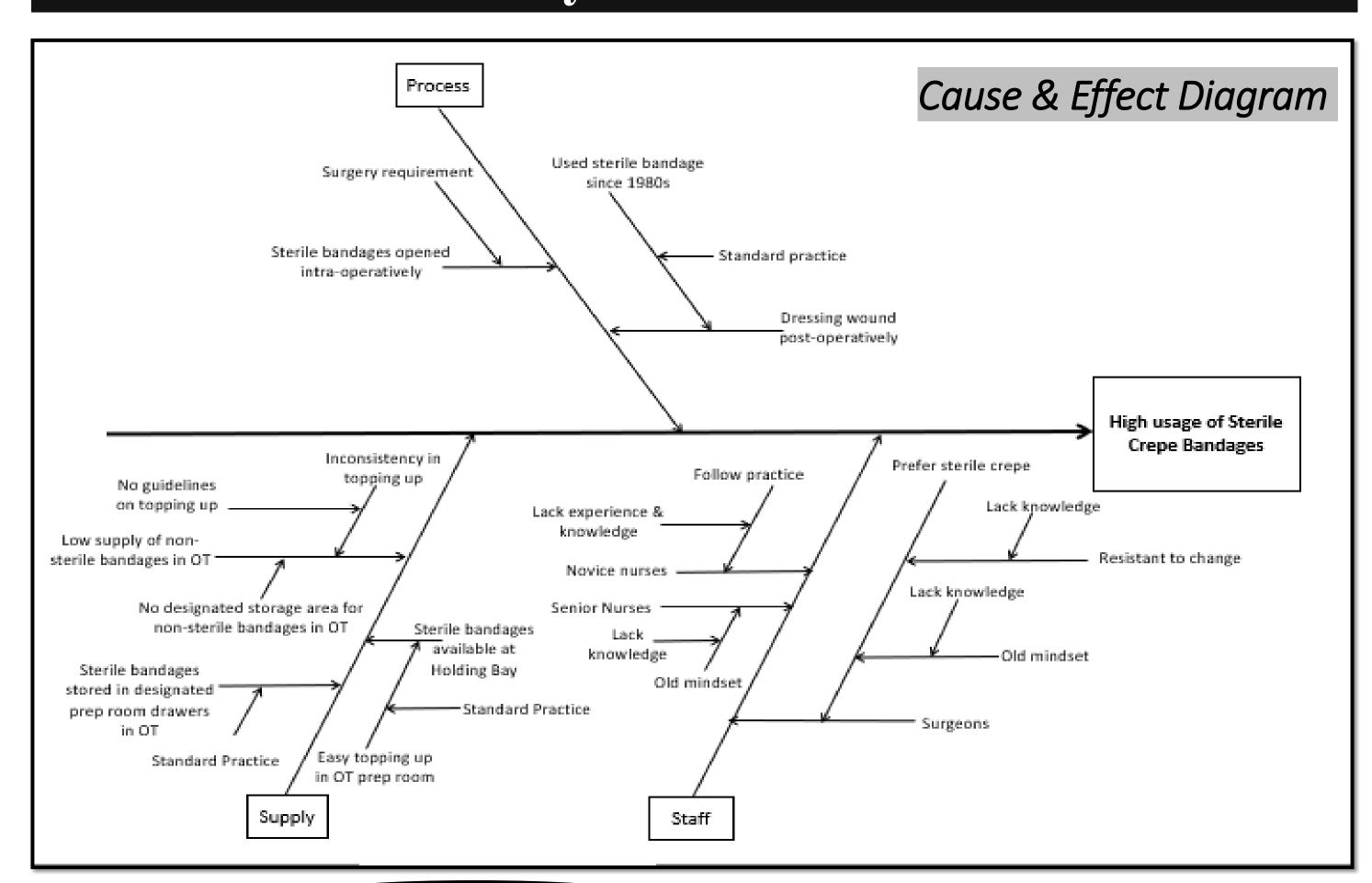
Since the 1980s, Operating Theatres nurses have been using sterile crepe bandages to support the wound dressings post-operatively.

Due to overwhelming demands, the company which supplies sterile crepe bandages were unable to meet with delivery demands in a timely manner. With that, OT Nurses and Surgeons worked together to explore the possibilities of using non-sterile crepe bandages for patients post-operatively.

### Mission Statement

To reduce the high usage of Sterile Crepe Bandages (4" & 6") in SGH Operating Theatres by an estimated quantity from 20,332 pieces to 10,166 pieces within 6 months.

### **Analysis of Problem**



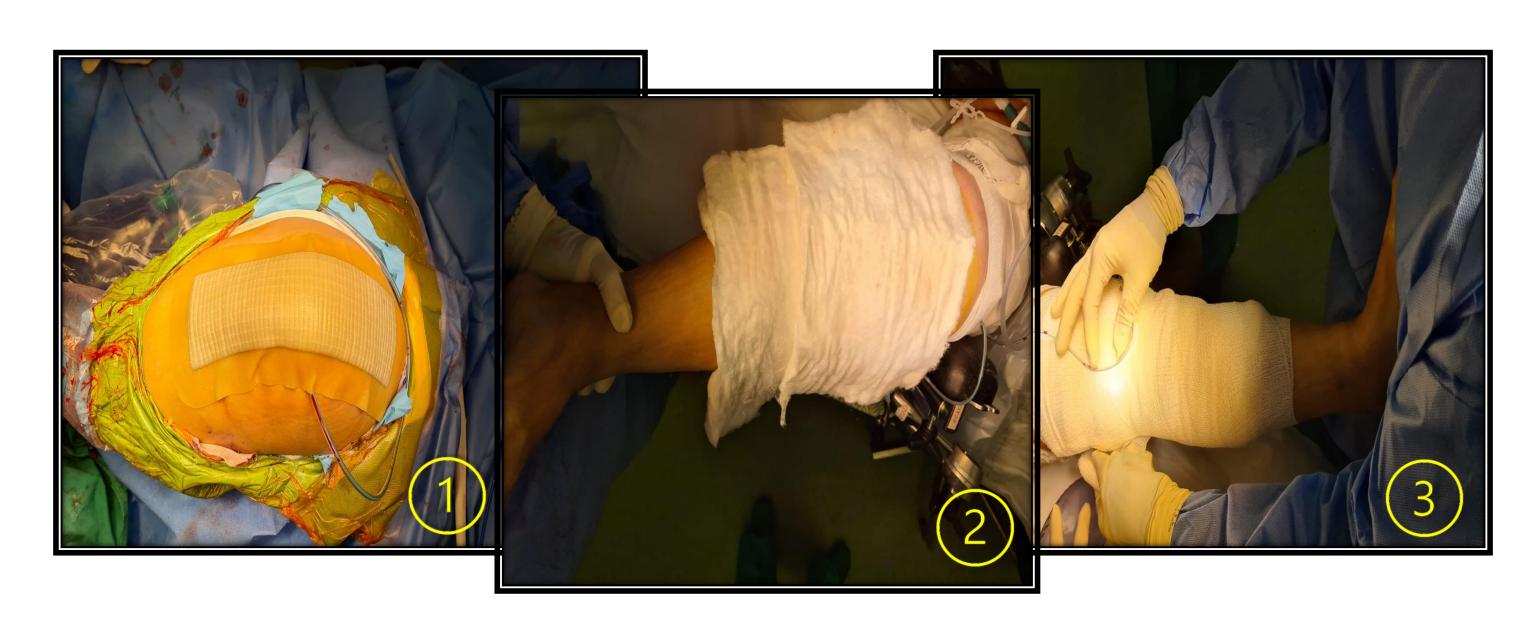
## The final root causes were:

- 1. Standard practice of using sterile bandage post-operatively.
- 2. Lack knowledge on the proper use of sterile bandage.
- 3. No designated storage area for non-sterile bandages in OT as only sterile bandages were stored.

# Interventions

#### PDSA 1: Changed standard of practice

- Changed SOP and implemented the use of non-sterile bandage for postoperative wound bandaging.
- Incorporated the SOP for post operative wound dressing in department reference file.



This practice is unnecessary as the incisional wound is already covered and dressed with a sterile adhesive dressing, ensuring wound sterility is not compromised.

## Interventions

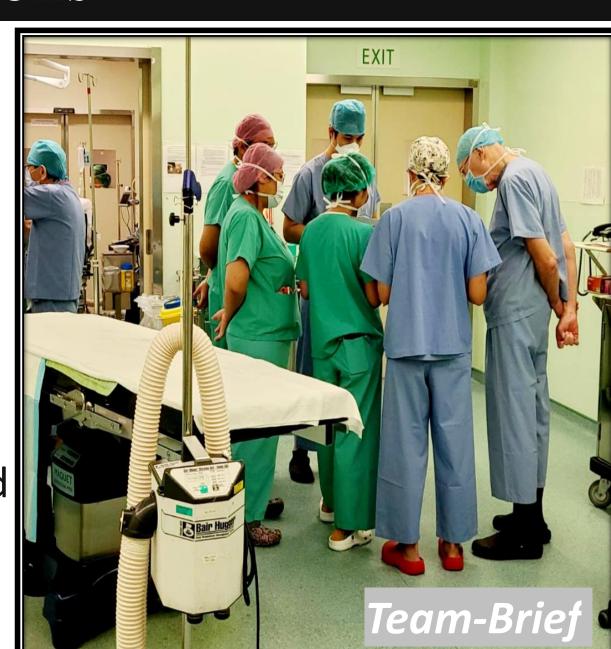
#### PDSA 2: Conducted briefing & sharing sessions

Communicated the use of non-sterile crepe bandages during Surgical Department Meeting, Nurse Leader Meeting and Staff meeting.

- Conducted sharing sessions for nurses during individual disciplinary roll-calls.
- Conducted briefing for team doctors and nurses during daily Team-Briefs.
- Encouraged use of non-sterile crepe bandages with evidence from literature review.

#### PDSA 3: Created storage area & worked with MMD

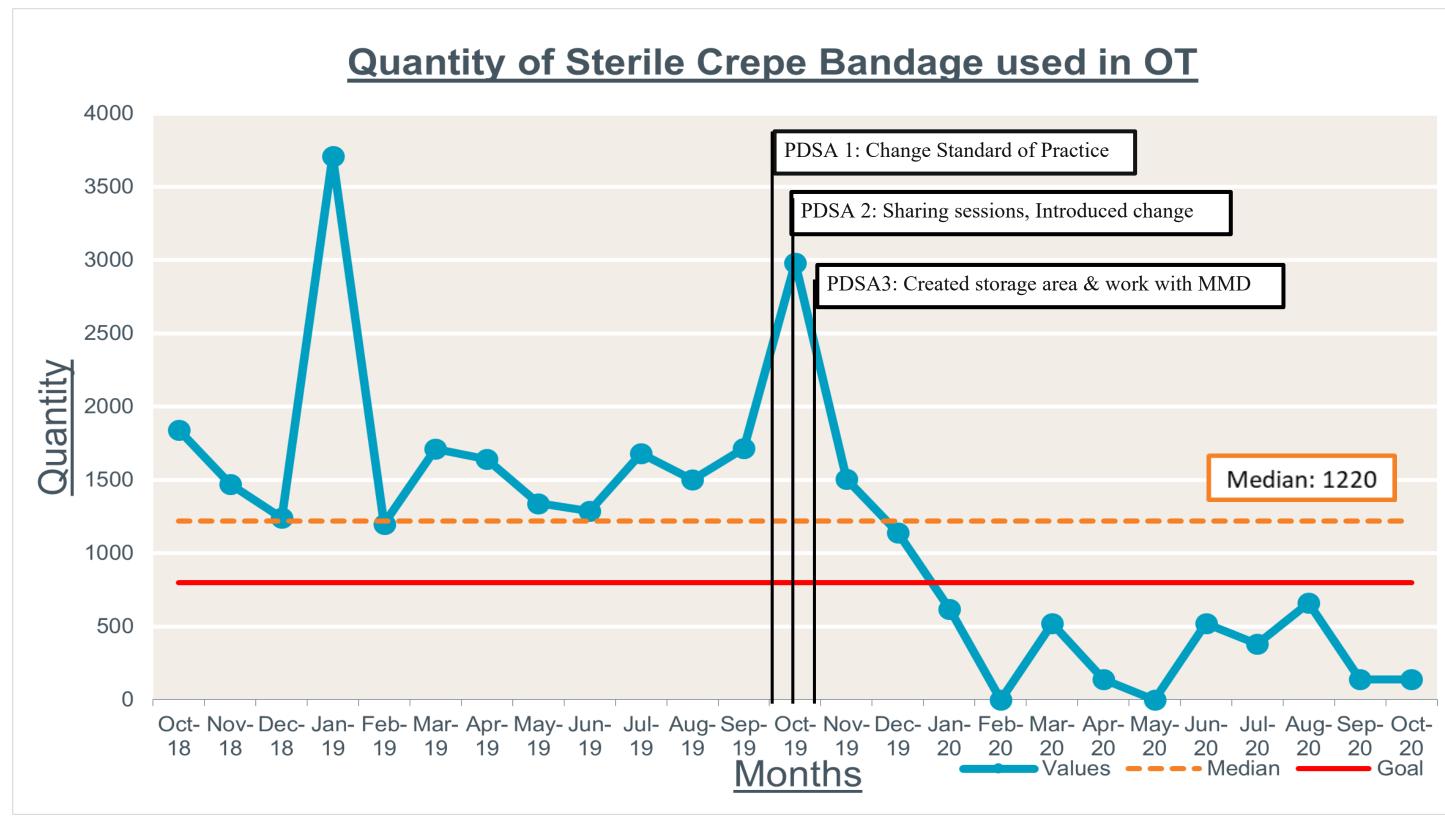
- Removed sterile bandages from holding bay area.
- Created storage area to place nonsterile crepe bandages in OT preparation room.
- Provided projection to MMD to place order for non-sterile crepe bandages.
- Member from ALPS/MMD created an ordering format/system for individual theatre supplies.



MOT - CSSD SOFTGOODS STOCKS ORDERING TO MMD							
N	MMD Item Code	Item Description	No. Of Pcs per Ctn	Unit of Issue	Daily Requirement	3 days stock requirement per level	Required Stock Ordering Quantity
	1160-03-001-A	Abdominal Swab Pack , Gauze, 23cmx40cm (8ply)	40	packet	80	240	<u>160</u>
	1110-01-009-A	Bandage Cotton, Sterile, (4inch), 100x360mm	200	pieces	10	30	<u>30</u>
3	1110-01-010-A	Bandage Cotton, Sterile, (6inch), 150x360mm	200	pieces	15	45	<u>50</u>
4	1110-02-009-A	Bandage, Crepe, Sterile, (2inch), 50 x 4mtr	300	pieces	10	30	<u>30</u>
5	1110-02-010-A	Bandage, Crepe, Sterile, (3inch), 75 x 4mtr	180	pieces	15	45	45
6	1110-02-015-A	Bandage, Crepe, Sterile, (4inch),	120	Dieces	20	60	



#### Results



We have met our target and successfully reduced usage of sterile crepe bandages from 20,332 pieces to 8744 pieces. Total cost savings \$36,011.45 – \$16,206.20= \$19,805.25 **Intangible Benefits** 

 Meet SGH organisational goal of "Green" as non-sterile bandage requires single packaging as compared to double packaging of plastic and paper for sterile bandage.

#### Sustainability Plans

- Continue to use Non-Sterile crepe bandages to support wound dressing post-operatively.
- Monitor for staff compliance on using Non-Sterile crepe bandages.
- Work closely with MMD to always monitor and ensure availability and adequate supply of Non-Sterile crepe bandages.