

CHI Learning & Development System (CHILD)

Project Title

Reducing the Use of Sterile Crepe Bandage for Post Operation Patient in Operating Theatre (OT) Services

Project Lead and Members

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Organisation(s) Involved

Singapore General Hospital

Healthcare Family Group Involved in this Project

Medical, Nursing

Specialty or Discipline

Surgery

Project Period

Oct 2019

Aims

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



CHI Learning & Development System (CHILD)

Background

See poster appended / below

Methods

See poster appended / below

Results

See poster appended / below

Lessons Learnt

See poster appended / below

Conclusion

See poster appended / below

Additional Information

Singapore Healthcare Management (SHM) Conference 2021 – Shortlisted Project (Supply Chain Management Category)

Project Category

Care & Process Redesign, Quality Improvement, Workflow Redesign, Job
Effectiveness, Value Based Care, Operational Management, Inventory Management,
Training & Education, Learning Approach, Team Based Learning

Keywords

Sterile Crepe Bandage, Operating Theatre, Post-Operative Wound Dressing

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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.

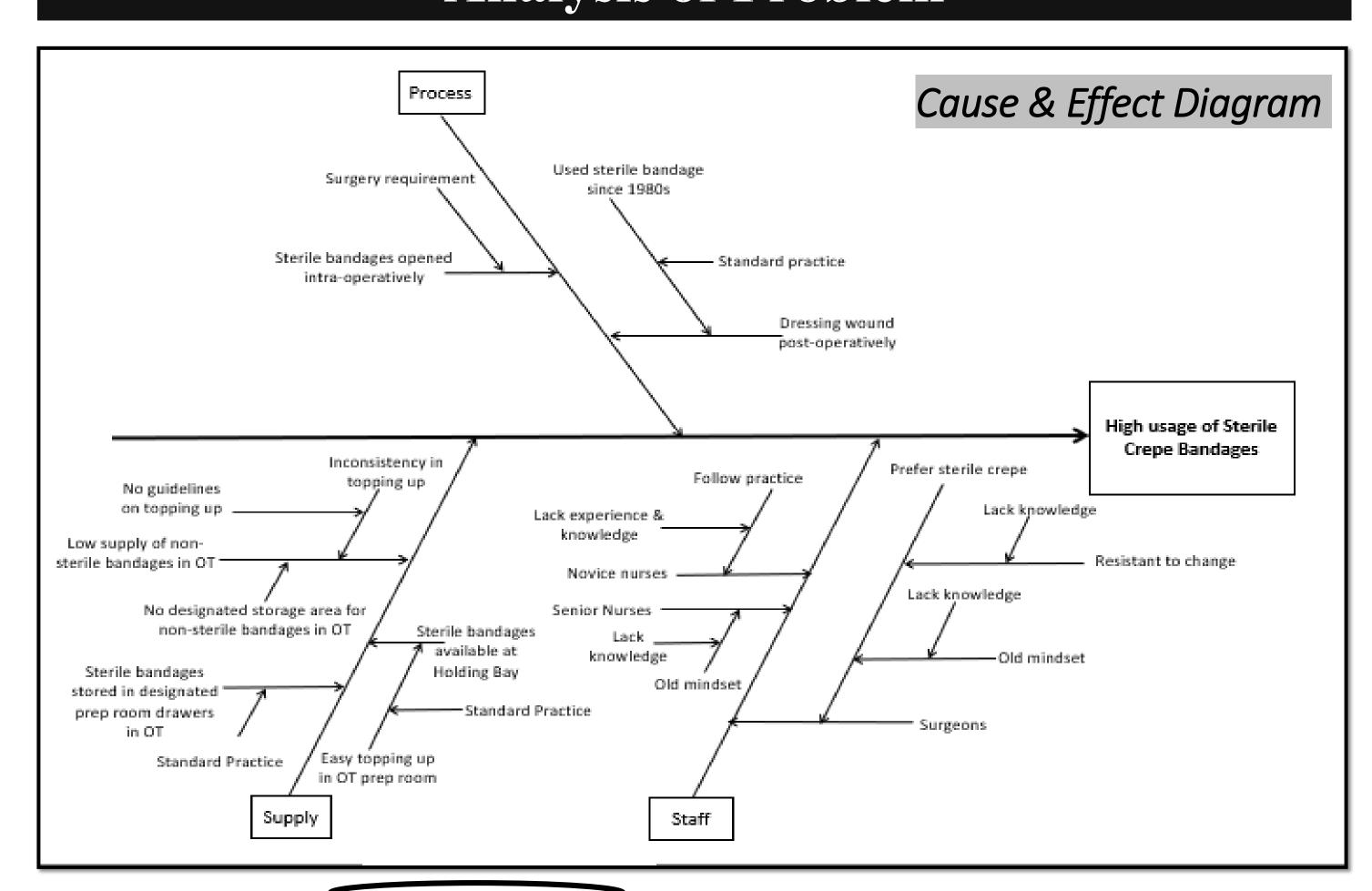
Since the 1980s, Operating Theatres nurses have been using sterile crepe bandages to support the wound dressings post-operatively.

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



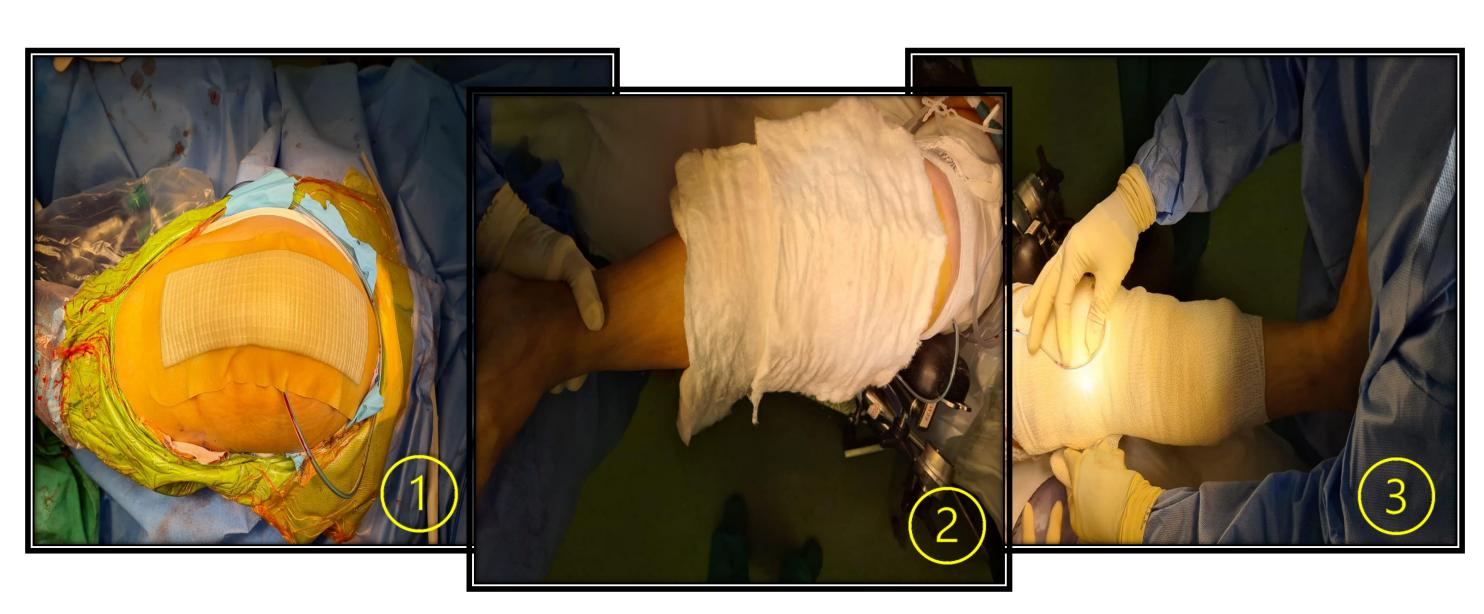
The final root causes were:

- 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

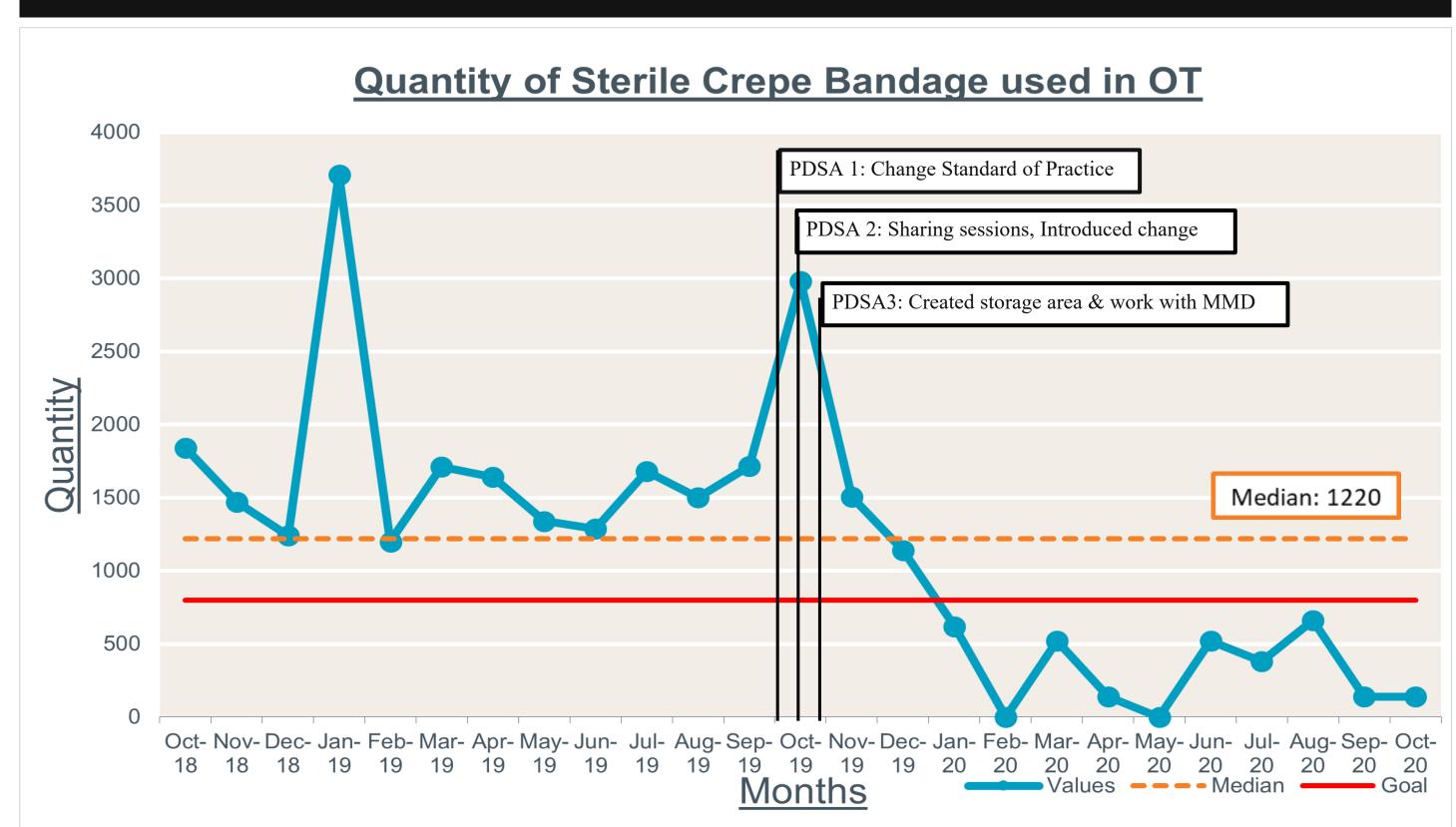
- Removed sterile bandages from holding bay area.
- Created storage area to place nonsterile crepe bandages in OT preparation room.
- Provided projection to MMD to place order for non-sterile crepe bandages.
- Member from ALPS/MMD created an ordering format/system for individual theatre supplies.



-		MOT - CSSD SOFTGO	ODS STOCK	S ORDERING	TO MMD		
Y	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>
	1110-01-010-A	Bandage Cotton, Sterile, (6inch), 150x360mm	200	pieces	15	45	<u>50</u>
	1110-02-009-A	Bandage, Crepe, Sterile, (2inch), 50 x 4mtr	300	pieces	10	30	<u>30</u>
	1110-02-010-A	Bandage, Crepe, Sterile, (3inch), 75 x 4mtr	180	pieces	15	45	45
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New Storage Area CREPE BANDAGE 6" SINGLE

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.