

**Project Title**

To Eliminate Non-Compliance to Frozen Fibrin Sealant Documentation in Major Operating Theatre (MOT)

**Project Lead and Members**

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**Organisation(s) Involved**

Singapore General Hospital

**Healthcare Family Group(s) Involved in this Project**

Pharmacy, Nursing

**Applicable Specialty or Discipline**

Surgery

**Aims**

To eliminate non-compliance to Froze Fibrin Sealand documentation in Major Operating Theatre (MOT) within 8 months

**Background**

See poster appended/ below

**Methods**

See poster appended/ below

**Results**

See poster appended/ below

**Conclusion**

See poster appended/ below

**Project Category**

Care & Process Redesign

Quality Improvement, Clinical Practice Improvement, Lean Methodology, Value Based Care, Safe Care, Adherence Rate

**Keywords**

Frozen Fibrin Sealant, Zero Harm

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# To eliminate non-compliance to Frozen Fibrin Sealant documentation in Major Operating Theatre (MOT)

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1. Major Operating Theatre 2. Pharmacy

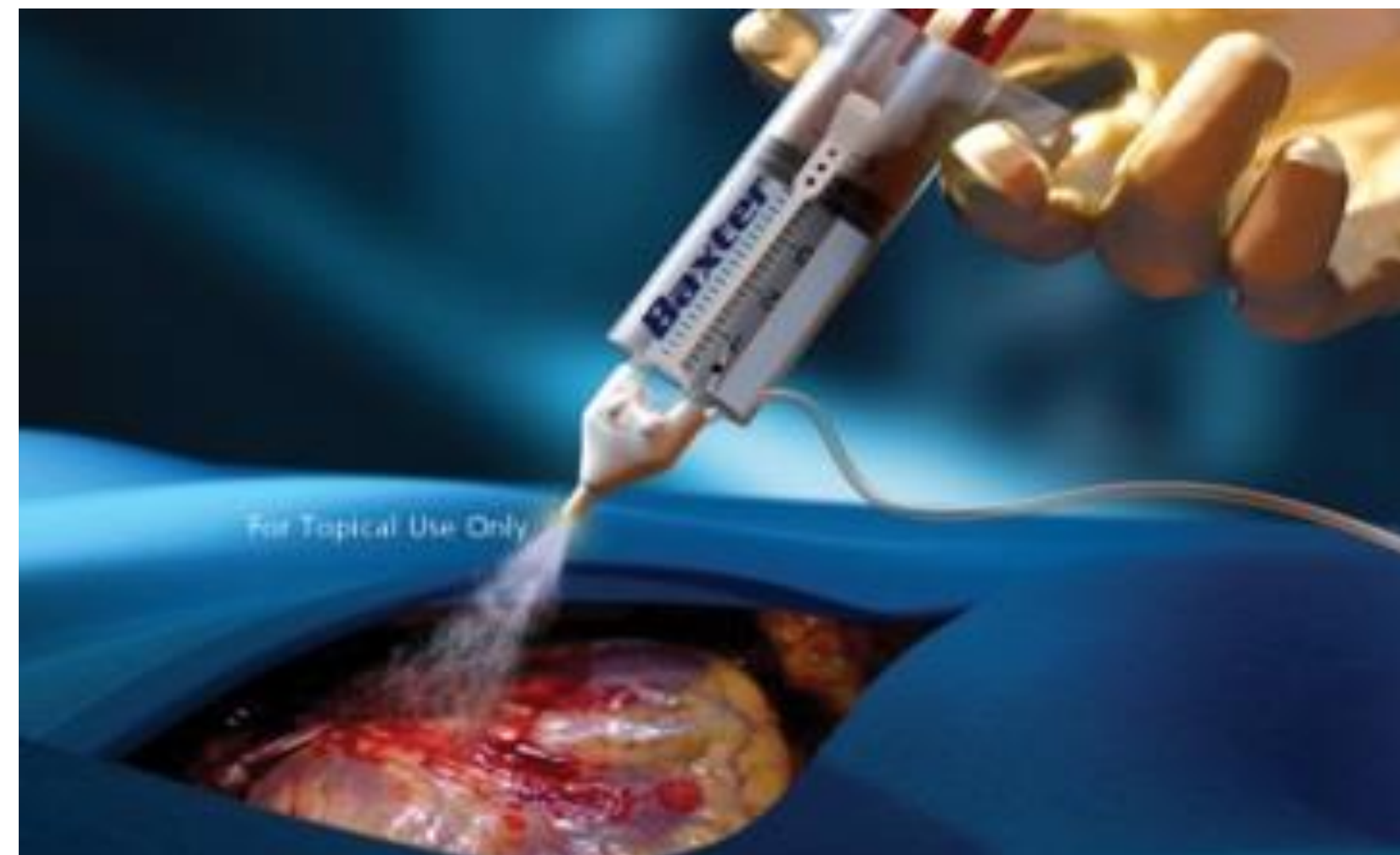


**Singapore General Hospital**  
SingHealth

## Introduction

Frozen Fibrin Sealant usage has grown exponentially due to increasing demand by surgeons in various surgical procedures. It is used to achieve hemostasis in patients when control of bleeding by suturing and cautery become ineffective during surgery.

## Use of Frozen Fibrin Sealant during surgery



## Background

There were problems pertaining to Frozen Fibrin Sealant usage documentation:

- Missing OR number
- Missing patient details
- Missing surgical discipline
- Missing name of surgeon
- Missing name of staff

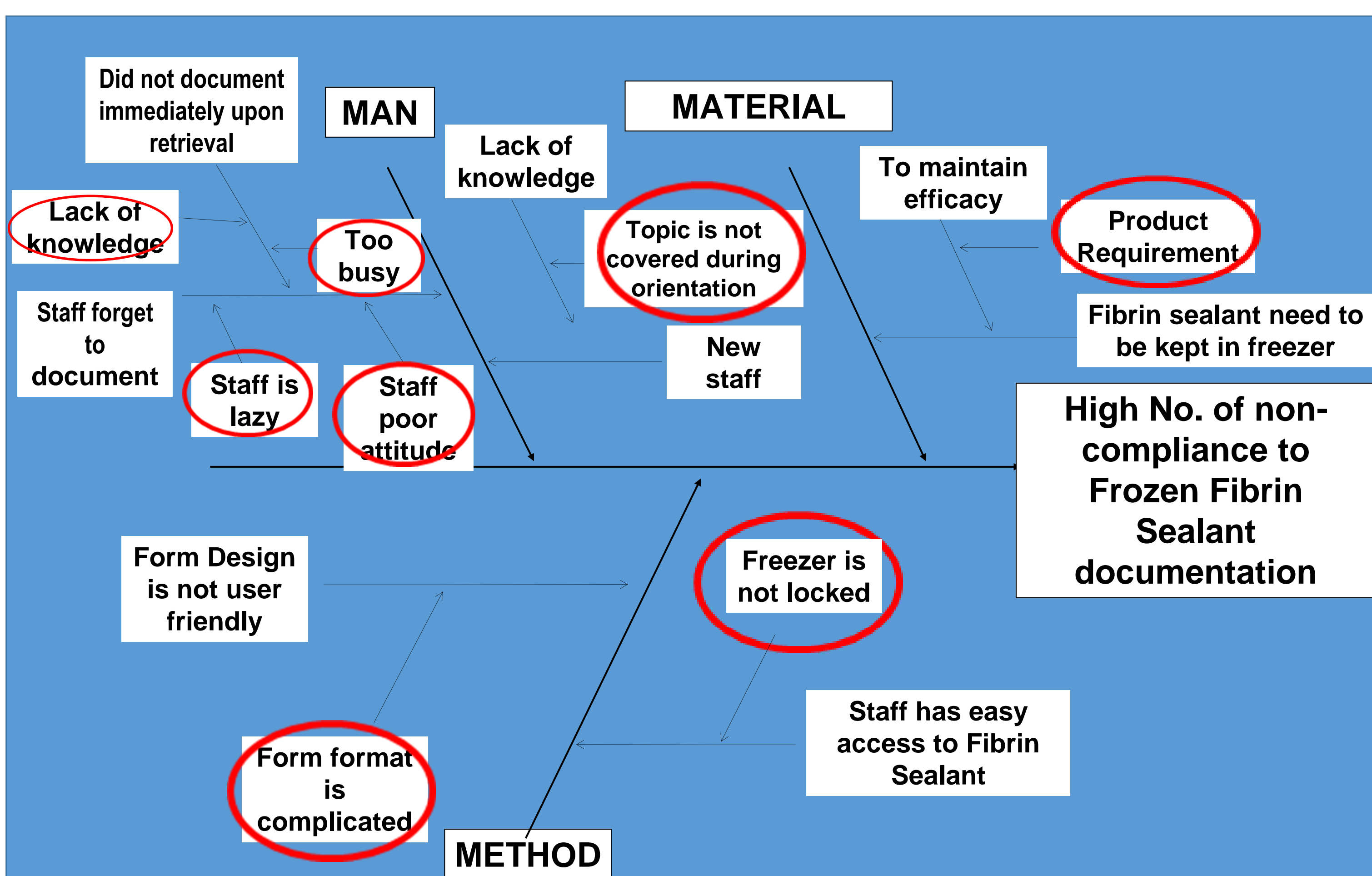
This may result in failure to trace patients in a situation of a product recall, which may affect patient safety as treatment or surgery may be delayed.

## Mission Statement

To eliminate non-compliance to Frozen Fibrin Sealant documentation in Major Operating Theatre (MOT) within 8 months

## Methodology

### Cause & Effect Diagram



## Solutions Implementation

### Intervention 1: Review and revise recording form

Feedback – Complicated recording form with too much details required for entry. Revised and simplified recording form. Further improvement, adopted format used for Controlled Drug documentation. Sample Recording Form kept in Frozen Fibrin Sealant file for reference.

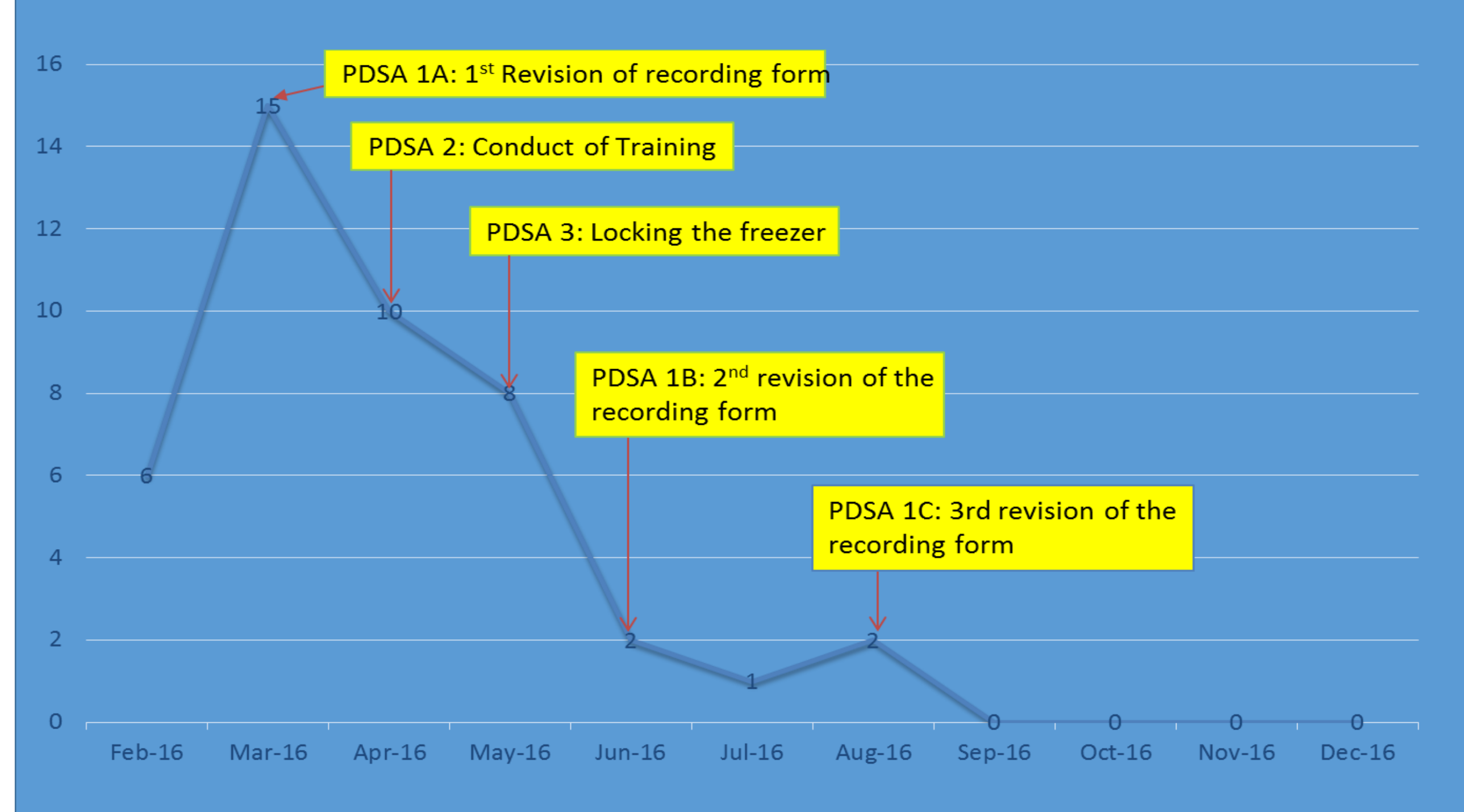
### Intervention 2: Conduct training

Training by team members on retrieval of Frozen Fibrin Sealant, preparation and completion of documentation. Reminder for nurses to ask surgeon before start of case and when it is about to be used.

### Intervention 3: Lock freezer

Nurses are to call EOT Nurse Clinician (NC) on duty to unlock freezer to retrieve Frozen Fibrin Sealant. NC only issues Frozen Fibrin Sealant when the nurse brings along patient's name sticker and completes the required documentation.

## Run Chart



**Results - 100% compliance to Frozen Fibrin Sealant documentation**

## Tangible Benefits

- **Time savings of up to 3hrs** – no time wastage in tracing for missing documentation and more time spent on patient care
- **Cost savings of \$11 232 per yr** based on maximum number of times (mins/hrs) to investigate for missing documentation.

## Intangible Benefits

- Enhanced Patient Safety**
  - as Frozen Fibrin Sealant used is traceable
- Increase staff knowledge**
  - in proper handling and managing of Frozen Fibrin Sealant enabling better perioperative care to patients
- Reduce Pharmacist worries**
  - as patient can be traced quickly in case of product recall
- Reduce Surgeon's stress**
  - New workflow ensures complete documentation and in times of product recall, patient can be traced immediately
- Better inventory control**
  - Ensure stocks are always available for use
- Prevent revenue leakage**
  - Complete and accurate documentation includes

## Sustainability

Team members continue to check and audit the nurses. To date, incomplete and missing documentation have not surfaced. However, issue on stock balance and incorrect entry by EOT NCs when receiving stocks occur. Reminders to all NCs to check stock every shift so that discrepancy can be rectified immediately. New work flow is incorporated into department operating procedures. New nurses are orientated on handling and preparation of Frozen Fibrin Sealant during their on-the-job training. We plan to add this to our Unit Competency Checklists.

## Conclusion

This project helps to enhance hospital image as it meets the hospital's target of ZERO Harm to patients. With better traceability and accountability, patients will have the "Best outcome, Best experience".

## Tree Diagram & Decision Matrix

To reduce high number of non-compliance to Frozen Fibrin Sealant documentation to Zero in Major Operating Theatre (MOT) within 8 months	Intervention	Effective	Manageable	Cost Effective	Sustainable	Meets organisation goal	Total	PDSA
Revise the recording form	1)Review and simplify the recording form	5	5	5	5	5	25	PDSA 1
	2)Create online recording	5	3	3	5	5	21	
Improve staff knowledge	1)Conduct training for Staff	5	5	5	5	5	25	PDSA 2
	2)Put up Flyer at strategic place	3	3	1	3	5	15	
To control the accessibility of Frozen Fibrin Sealant by staff	1)Lock the freezer	5	5	3	5	5	23	PDSA 3
	2)Install CCTV Camera near the freezer	3	1	1	1	1	7	

1. Meets criteria least      3. Meets criteria moderately      5. Meets criteria most