

## **Project Title**

Efficacy of Clean Technique in Tracheostomy Dressing

## **Project Lead and Members**

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- Sarah Jane Basa
- May Zin Soe
- Alyanna Saquilayan
- Ang Ah Chee

## **Organisation(s) Involved**

Kwong Wai Shiu Hospital

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

Nursing

## **Applicable Specialty or Discipline**

Community Health

## **Aim(s)**

To use clean technique for tracheostomy dressing with a Zero reported incidence of tracheostomy site infection for a 6-month duration. It also aims to save 50% of man-hours.

## **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**

This project was featured at the Central Health Action & Learning Kampung (CHALK) Poster Showcase 2022.

## **Project Category**

Care & Process Redesign

Clinical Practice Improvement: Plan-Do-Study-Act; Value Based Care: Productivity: Time/Cost/Man-Hour Saving; Safe Care; International Patient Safety Goals: Reduce the Risk of Healthcare Associated Infections

## **Keywords**

Tracheostomy Dressing, Clean Technique, Tracheostomy Site Infection

## **Name and Email of Project Contact Person(s)**

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# Efficacy of Clean Technique in Tracheostomy Dressing

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## Team Members

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## INTERVENTIONS

### Challenges

Currently, CSW has a total of 21 tracheostomy patients who require once or more change of tracheostomy dressing daily. Tracheostomy dressings are performed using sterile technique which consume at least 8 minutes per patient. Only Staff nurses and Enrolled nurses are trained to perform the tracheostomy dressing. Due to minimal available trained staff, most of the other ward routines have to be compromised or it would be delayed.

### Objective of Project

To use clean technique for tracheostomy dressing with a zero-incidence report of tracheostomy site infection for a 6-month duration. It also aims to save 50% of man-hours. Once proven the efficacy and effectiveness of using clean technique, modification of the existing SOP will be feasible.

### **Approach**

Took a Plan-Do-Check-Act approach of understanding the current situation, identified the root causes, proposed solutions, acted on the selected solution, and monitored sustainability and time motion study approach to evaluate the steps that it takes to achieve to complete the procedure, time consumed, efficacy, and man hours. The project took the collaborative approach involving members, SNs and ENs from F7.

### **Solution**

Implemented use of clean technique in performing Tracheostomy care that provides the same qualitative and efficient nursing care and maintaining a Zero reported of tracheostomy site infection.

### **Outcomes**

Reduced Man-hours on performing tracheostomy dressing from 168 hours to 12.6 hours per month.

Dressing products cost reduced from \$378 to \$63 per month.

Staff reported increased team synergy, ease of routine workload of trained nurses who can have more time to be involved in patients' bedside care and more productive.

Safety and well-being of all tracheostomy patients are not compromised with the modified procedure

Lessen delays for other allied health colleagues to provide care and therapy that are necessary for the patient  
e.g.: PT/OT session, TCM, ST, etc.

The issue of lack of storage space is resolved as we no longer require ordering large numbers of sterile dressing sets.