

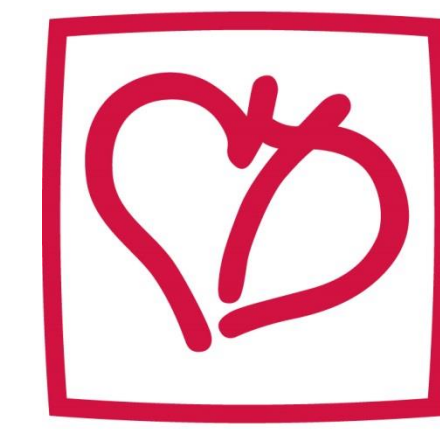


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Development and Implementation of a Hospital-Acquired Pressure Ulcer (HAPU) Assessment and Preventive Management System.

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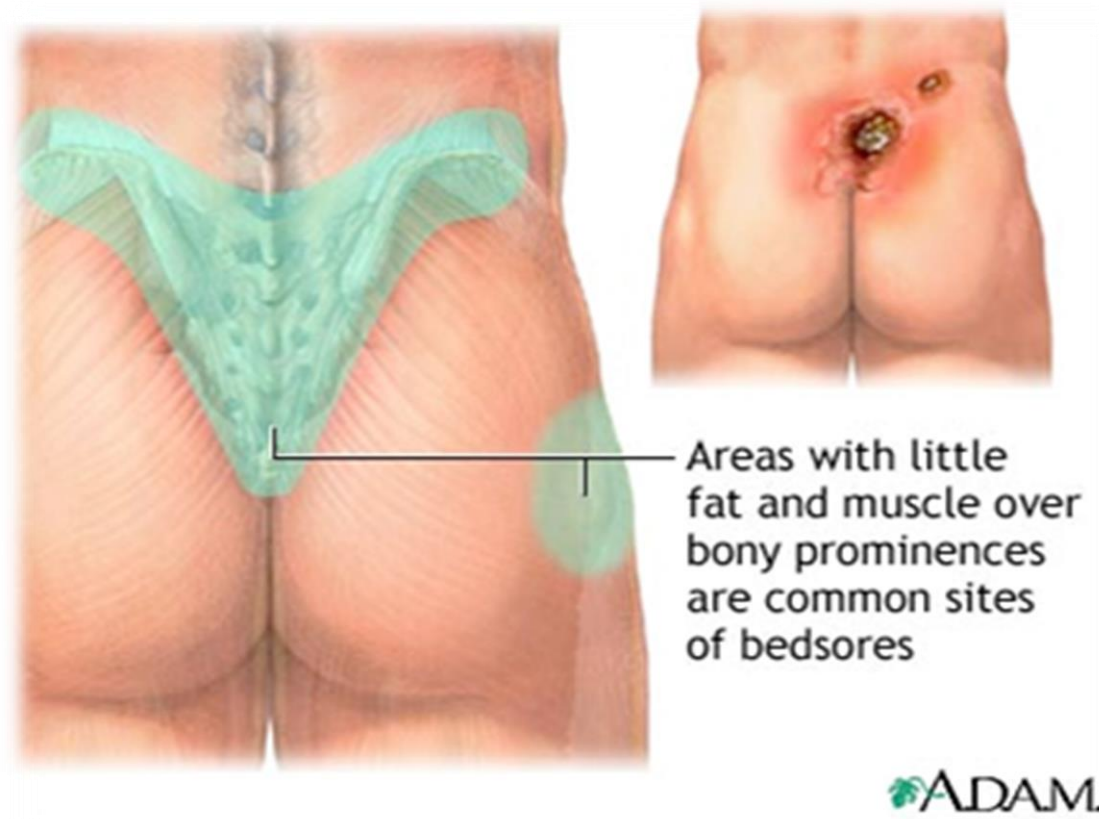


National Heart Centre Singapore
SingHealth

BACKGROUND

The rapid change in population health status due to aging population and a sharp rise in the incidence of diabetes and obesity worldwide have led to the increase in complicated cardiovascular diseases. Pre-existing medical conditions or comorbidity issues such as diabetic, neuropathy, renal diseases and others add on the risk of developing PU caused by poor blood circulation. The hospital has faced new challenges of increase in PU developments in this group of patients.

Hospital Acquired Pressures Ulcer(HAPU) can result in serious medical complications, costly medical treatment, prolonged hospital stay and frequent readmissions but can potentially be prevented with good nursing care.



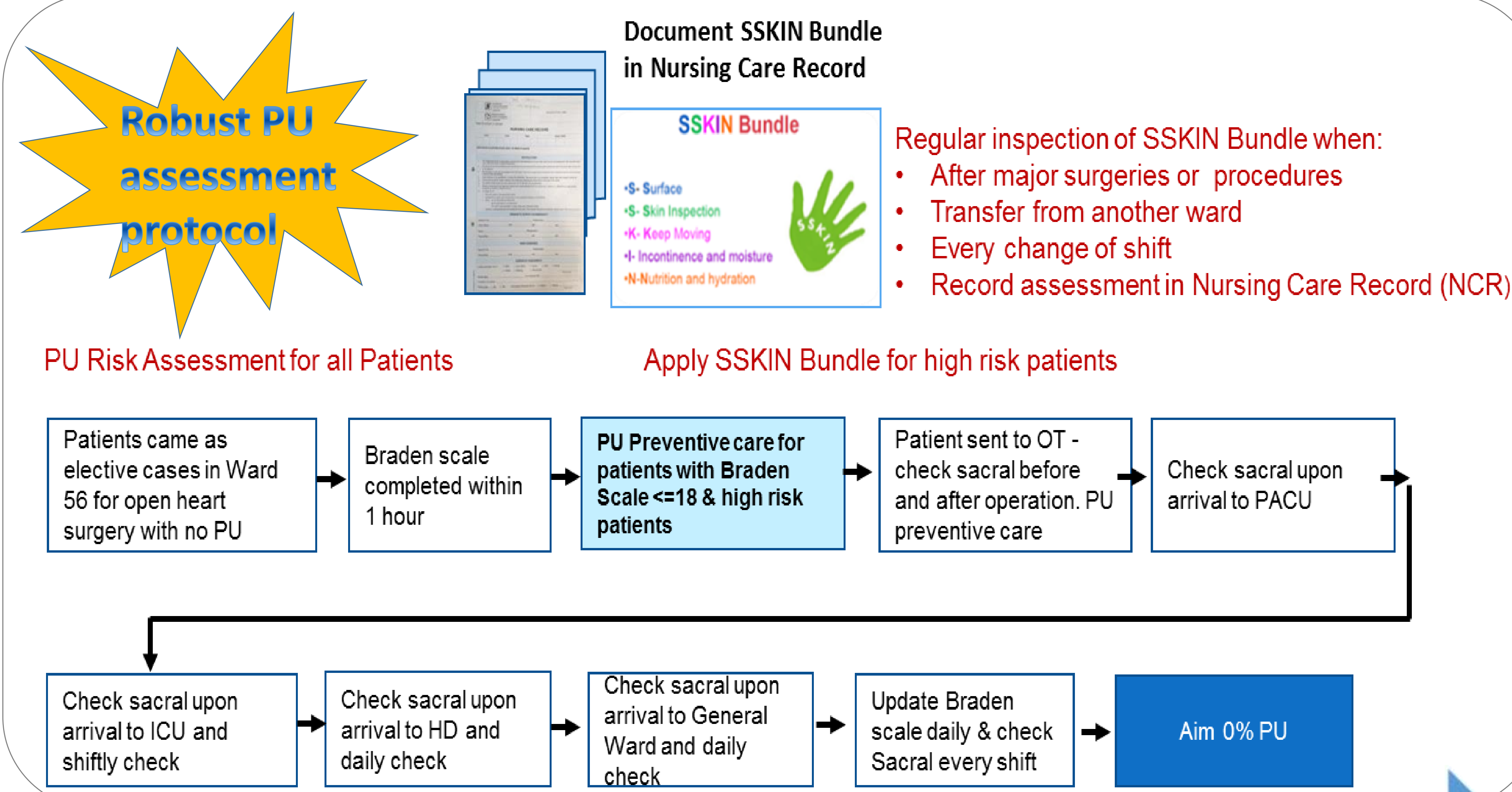
Areas with little fat and muscle over bony prominences are common sites of bedsores

ADAM

OBJECTIVE

This project aims to develop a rigorous pressure ulcer assessment, treatment and preventive system for patients at high risk of developing HAPU, particularly, patients who undergo open heart surgery, where they would be subjected to long hours of immobility on the operating table (> 6hrs) during the surgery.

METHODOLOGY



RESULTS



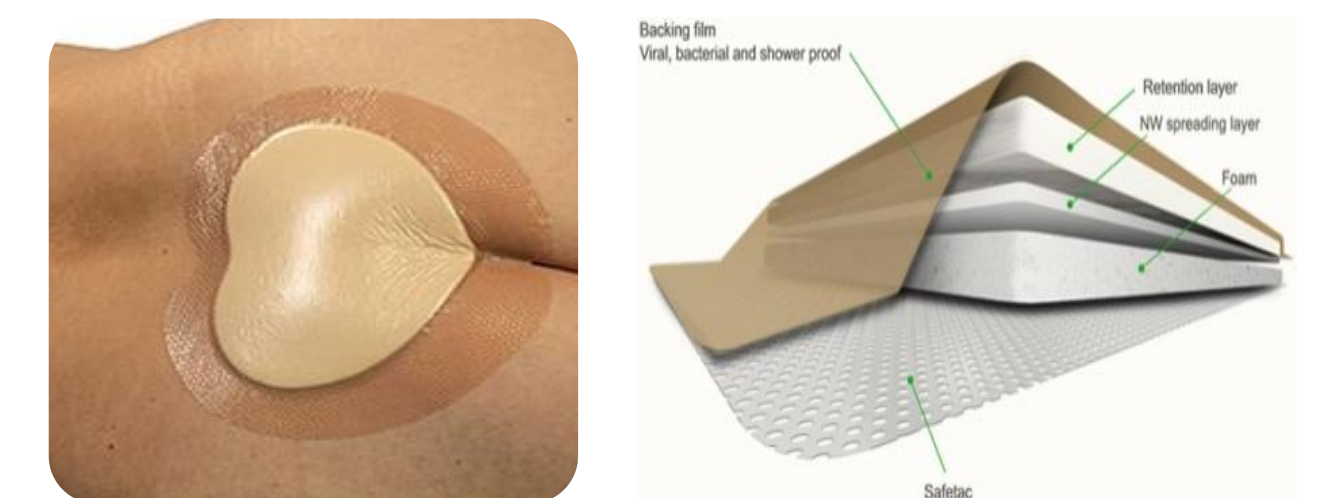
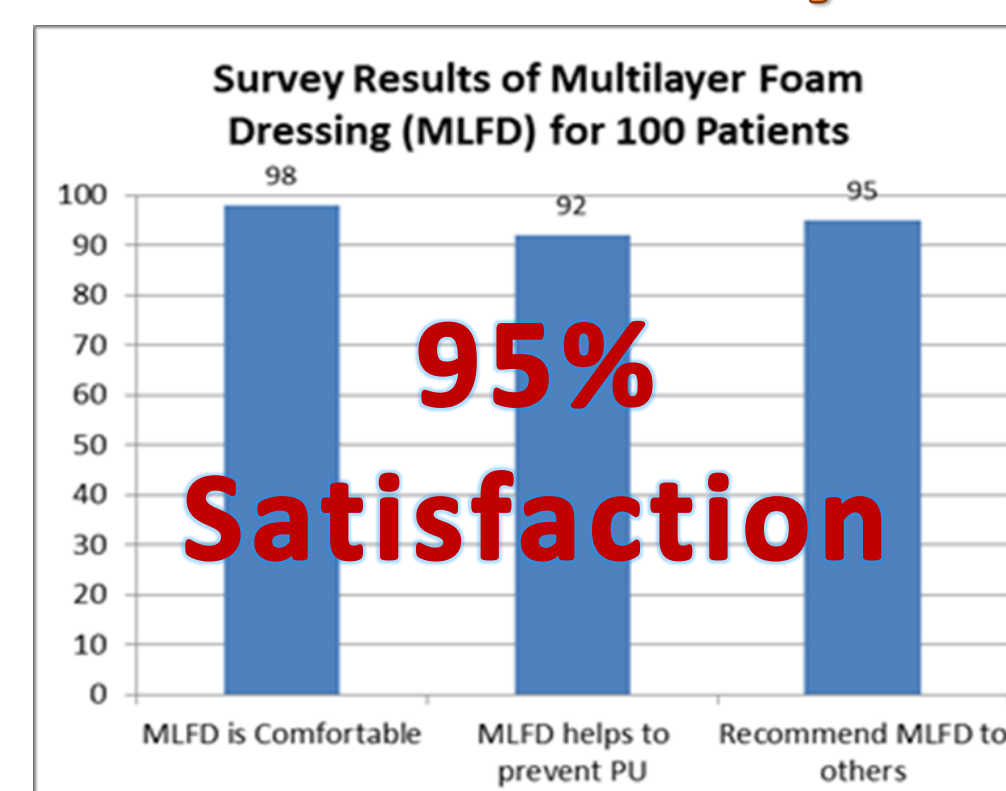
NHCS have seen **0% PU rate** in our elective open heart surgery patients without post-operative complications since implementation of the SSKIN Bundle.



Average length of stay for elective cardiac surgery cases was reduced by **1.55 days**

Total annual hospitalization costs **\$290, 160** avoided per year! (for 1000 elective surgery patients)

Patient Survey



Multi-layer Foam Dressing
✓ Is Comfortable
✓ Helps to prevent PU

SSKIN Bundle - A Consolidation of evidence based practice

SSKIN Bundle

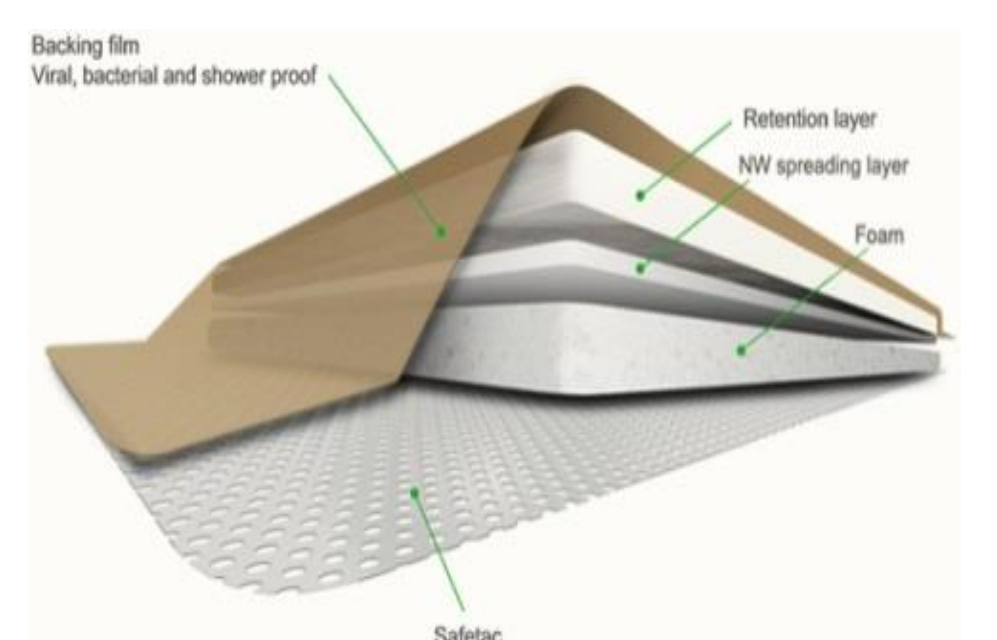
- S- Surface
- S- Skin Inspection
- K- Keep Moving
- I- Incontinence and moisture
- N-Nutrition and hydration



- ✓ Team researched into evidence based practices and developed the SSKIN Bundle.
- ✓ SSKIN Bundle - a 'bundle' of straightforward interventions that when combined, contribute to positive patient outcomes.
- ✓ SSKIN bundle standardised practice and provide guidelines for all staff to follow in PU prevention.

Multi-layer Foam Dressing is a new foam technology for PU Prevention

- ✓ Multi-layer Foam Dressing applied to high risk patient before heart surgery Prevents PU development



CONCLUSIONS

HAPUs have a costly side effect. The **SSKIN** Bundle is a new standardized protocol developed by NHCS based on evidence-based best practices for PU management and prevention. HAPUs can be potentially prevented by the implementation of **SSKIN** bundle strictly.

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