

CHI Learning & Development System (CHILD)

Project Title

Reducing Incidences of Patients from Sustaining Broken Skin in Ophthalmic Day Surgery Setting

Project Lead and Members

- Andrea Voo
- Shen Hongyu
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- Thiri Mya San
- Jasline Lee

Organisation(s) Involved

Singapore National Eye Centre, SingHealth

Healthcare Family Group(s) Involved in this Project

Medical, Nursing

Specialty or Discipline

Opthalmology

Project Period

Start date: Feb-2018

Completed date: Apr-2018

Aims

To achieve zero broken skin incidents for 6 months and reduce patient's experience from discomfort and additional treatment for broken skin

Background

See poster appended / below



CHI Learning & Development System (CHILD)

Methods

See poster appended / below

Results

See poster appended / below

Lessons Learnt

Identification of the 2 specific high risk factors in the assessment form for the high risk patients had reduced the incidences of broken skin in ophthalmic surgeries.

Conclusion

See poster appended / below

Additional Information

Singapore Healthcare Management (SHM) Conference 2018 – Risk Management Category

Project Category

Care & Process Redesign, Value Based Care, Risk Management, Quality Improvement, Clinical Practice Improvement

Keywords

Zero Broken Skin

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Reducing incidences of patients from sustaining broken skin in Ophthalmic Day Surgery Setting

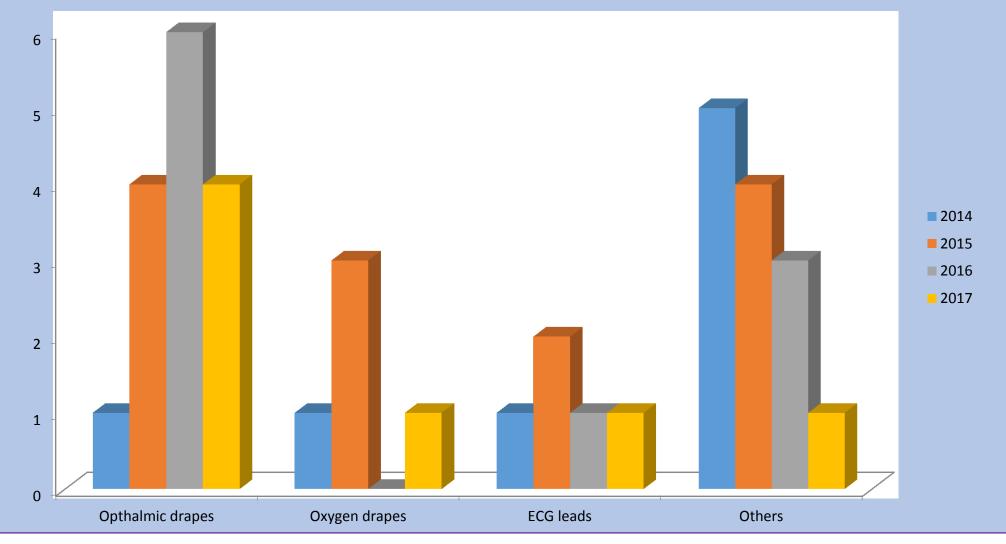


Andrea Voo ¹, Shen Hongyu, Yolane Chew, Thiri Mya San, Jasline Lee

Background

SNEC performs approximately 17,000 surgeries annually and 77% of our patients are elderly with an average age of 60 years. Most of these elderly patients have dry skin due to loss of oil glands, underlying health problems or medication therapy which resulted in fragile and poor skin conditions.

Between 2014 to Aug 2017, we saw a total of 37 incidences of broken skin intra and post-operatively which translated to one incident per month. Our data discovered various products causing broken skin, such as ophthalmic surgical drapes, oxygen trident drape and ECG leads. We also found that highest incidences of broken skin present in patients with either bruises or thin skin and were on anticoagulant therapy.





Objectives

To achieve zero broken skin incidents for 6 months and reduce patient's experience from discomfort and additional treatment for broken skin.

Methodology

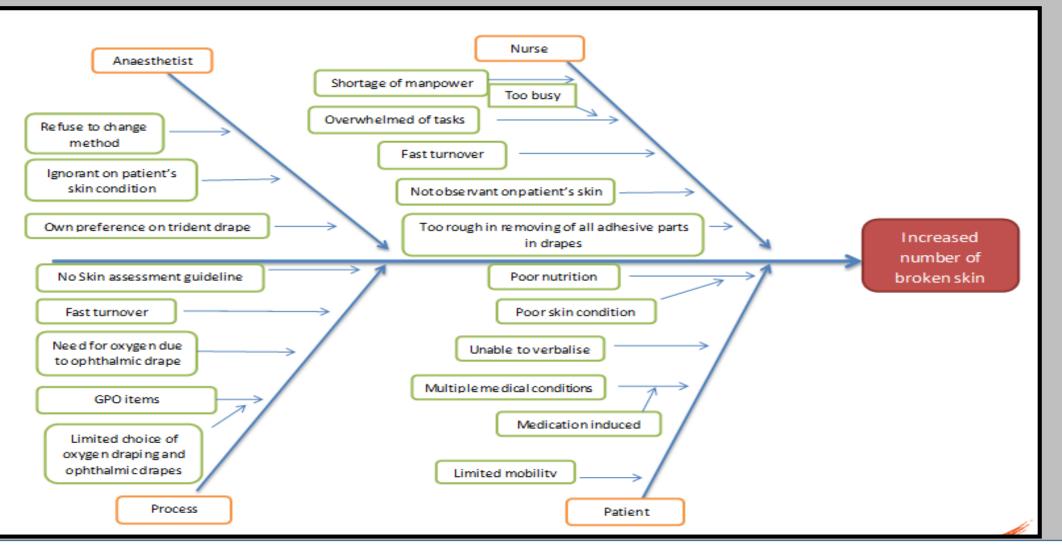
A quality improvement methodology using PDSA cycle was adopted to understand the significance of the existing products in contributing to broken skin and testing of potential interventions. Multi-voting was conducted to focus on oxygen trident drape after comparing the adhesiveness of all 3 products as it was the most difficult to remove.

PDSA 1 - Team brained storm to survey the best alternative method for oxygen delivery between Aug 17 to Jan 2018

Results One incident of broken skin due to oxygen trident draping **What we learnt:**

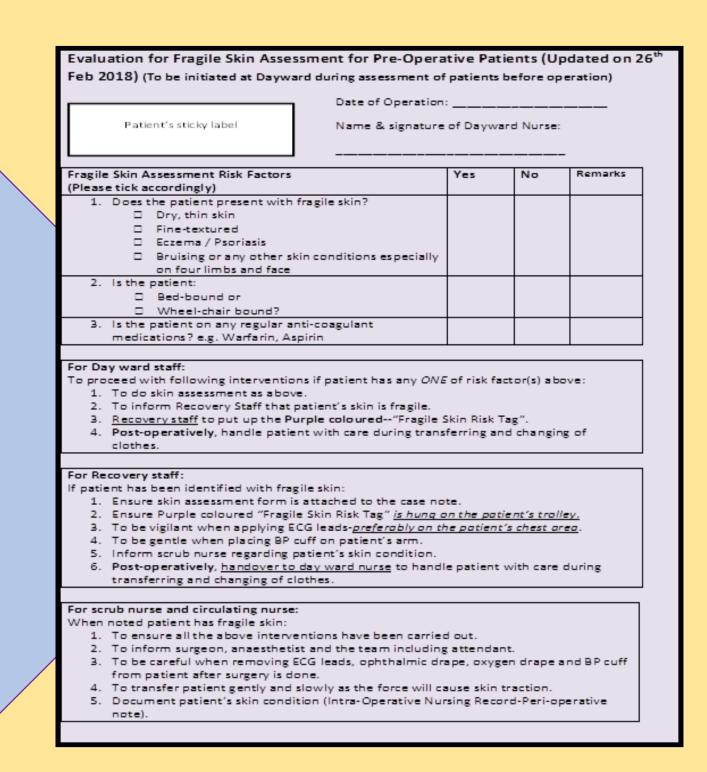
New intervention was safer as it has no contact with patient's skin, but was discontinued for the following reasons:

- > Oxygen saturation was not stable from new delivery method as the tube was not secured in close proximity to the patient's face under ophthalmic drape
- > Anesthetist's negative feedback on the new method of oxygen delivery
- > Other interventions can also cause skin tears



PDSA 2.1

Team decided to increase staff awareness on broken skin between Feb to April 2018 using skin assessment to identify high risk patients



- * Educate Dayward and OT staff
- * Tagging of high risk patients
- * Carry out recommended action



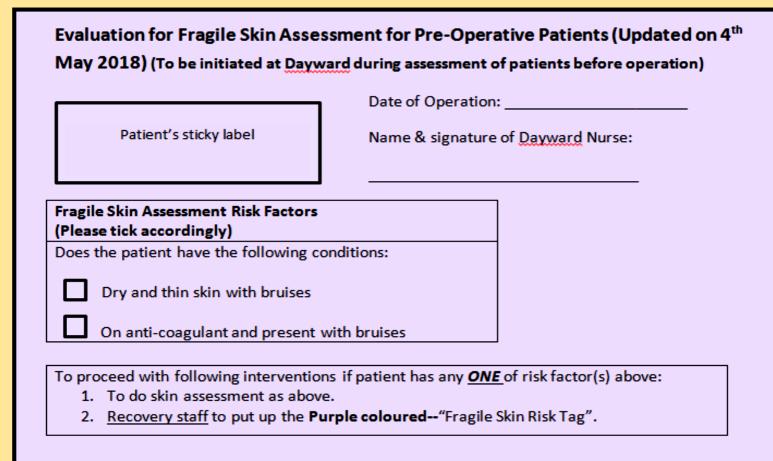
Results – One incident of broken skin due to ophthalmic drape was reported but risk assessment was missed out.

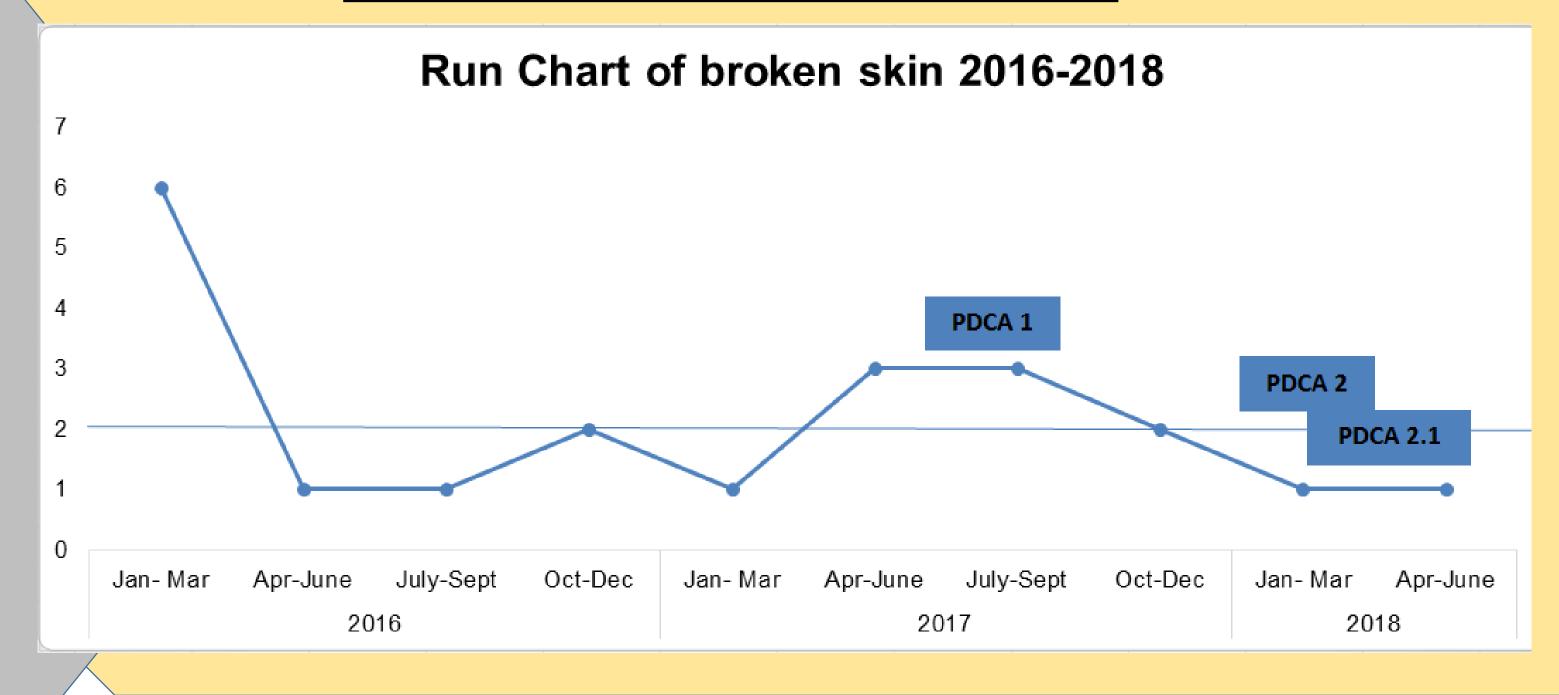
What we learnt:

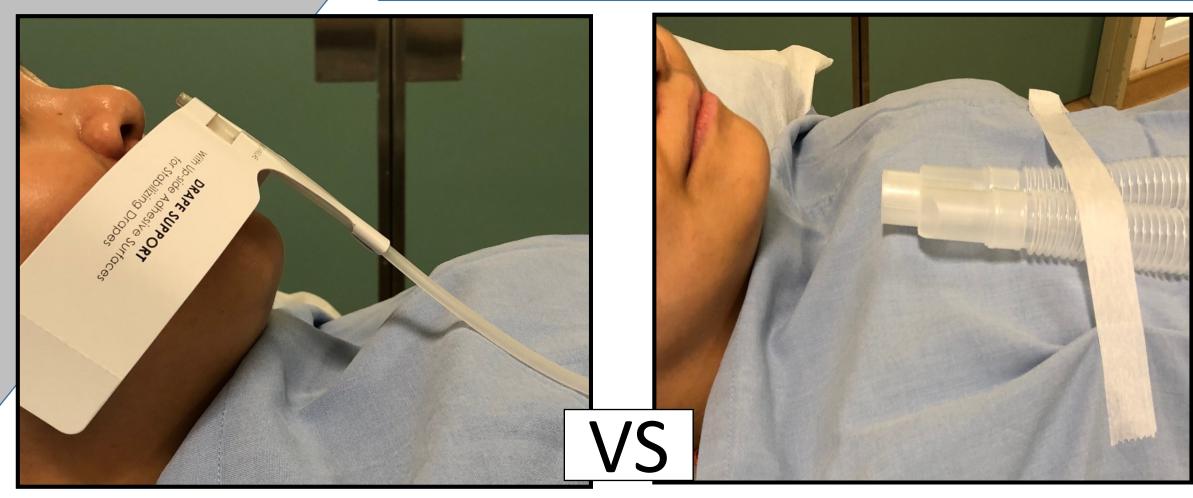
The inclusion criteria was too broad resulting in a excessively large pool of patients to be at risk (>300 patients) and thus staff can miss out due to high volume of cases.

PDSA 2.2 – Team revised the assessment form to combine the two highest risk factors May to July 2018.

Results – No broken skin was reported from the 32 patients identified The new assessment method and flow will be monitored for sustainability until Oct 2018.







Conclusion:

A simple assessment checklist can provide a useful guide to identify patients at risk of broken skin. Collaborative communication structure can be cost-effective and easy to implement with positive results.