

# **Assessing Available Pressure Injury Predictor Tools in the Perioperative Setting**

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## Background

Pressure injuries (PI) have been observed in patients across the perioperative setting, particularly among patients undergoing prolonged surgical procedures.

Yet the majority of tools developed to assess risk for pressure injury has been developed in the acute, intensive or long-term care settings.

As part of a quality improvement initiative at a comprehensive cancer center, 2 validated PI prediction tools were applied retrospectively to patients who developed a PI post-operatively and prospectively to a trial group of Head and Neck patients.

## **Objective**

The aim of this project was to evaluate the sensitivity of the Braden Scale and Scott Trigger Tool to predict the development of a PI post-operatively in a surgical oncology population.

## **Methods**

An interprofessional team representing perioperative nursing, physician assistants, unit nursing and material management reviewed data of 12 patients who developed an intraoperative related pressure injury identified by the safety intelligence event reports over an 18 month period (September 2016-January 2018.

- The preoperative Braden Score and Scott Trigger assessment were used to evaluate risk for PI development in this cohort of patients.
- □ When applied prospectively to the 93 Head and Neck patients, the Three nurses completed the initial Braden Scale suggested that 6.7% of the patients were at risk while retrospective scoring which was the Scott Trigger score suggested 97.8% of the patients would have then reviewed with the team to skin breakdown. validate the results.
- □ In reality only one of the trial patients developed a pressure injury Both tools were then prospectively related to their intraoperative period. Our observations suggest that used to assess preop risk on the the Braden Score is not predictive of intraoperative PIs and the trial group of Head and Neck Scott Trigger assessment may be too sensitive. patients.



### Results

#### The retrospective review suggested that risk scoring with the Braden Scale was not predictive of intraoperative risk identifying 1 out of 12 patients with known PIs. The Scott Trigger Tool predicted 100%.



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Findings suggest the need for further evaluation of these tools, specifically in the surgical oncology population and possibly in broader populations to evaluate sensitivity and specificity among individuals undergoing prolonged surgery. The ability to refine instruments to predict PI in this population is fundamental to reducing risk for PI events in the perioperative setting.

## **Team Members**

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Scott Risk Factors for 12 Pts with Pls"	Average
Age	67.2
BMI	29.9
ASA	3.1
# of Hours in OR	11.6
*9 Pts had Pls with Stage >1	

Scott Risk Factors for Pts on the Trial	Average
Age	59.6
BMI	27.8
ASA	3
# of Hours in OR	8.3
*1out of 93 trial Pts developed Pl with Stage >1	