# Increasing Pressure Injury Awareness in the Emergency Department

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### Introduction

Evidence Based pressure injury prevention guidelines have been in place since 1994, however, 60,000 Americans die from the complications from Pressure Injury (PI) annually.

According to Chou et al., 3 million Americans are impacted annually.

The cost of treating one patient with a PI is between \$37,800 – 70,000.

- Emergency Department (ED) utilization has increased by over 15% from 1993 – 2006. (Schuur & Venkatesh, 2012)
- Pressure Injury may occur in 1-2 hours and patients may wait for 4-6 hours on a flat immobile surface for an inpatient bed.

## **Purpose**

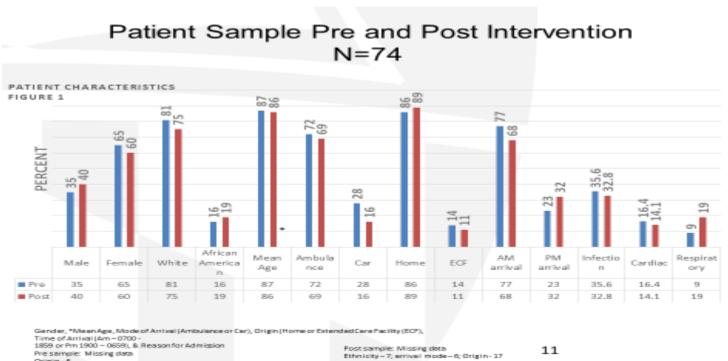
The purpose of this quality improvement project is to expand the current inpatient pressure injury prevention protocol to include the emergency department; with a focus on adult patients 80 and older admitted to a medical surgical unit, and to promote pressure injury (PI) education amongst the ED registered nursing team.

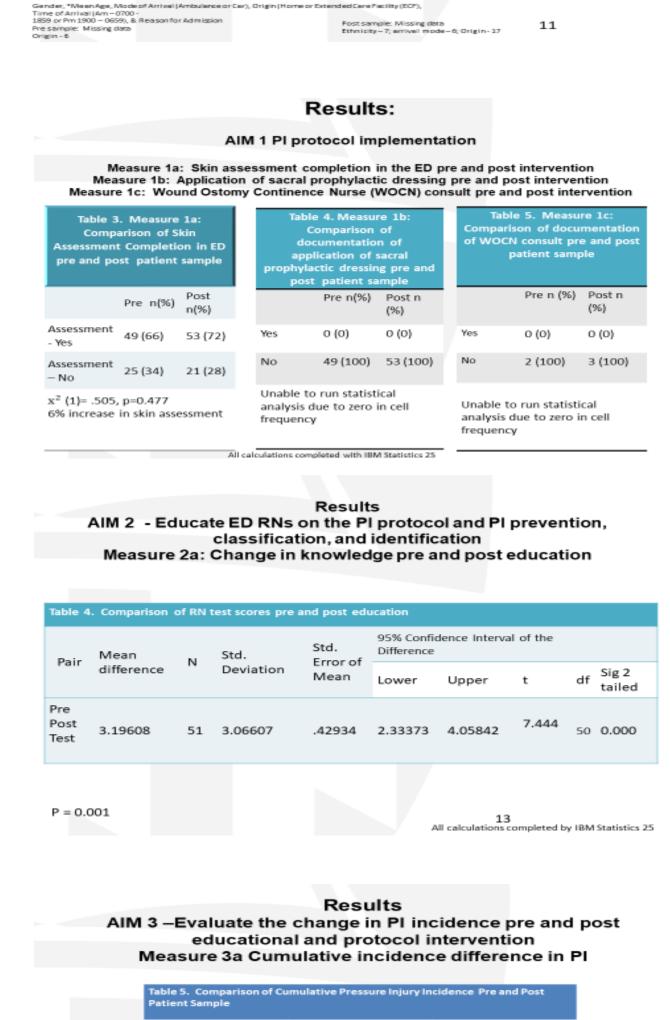
# Methods

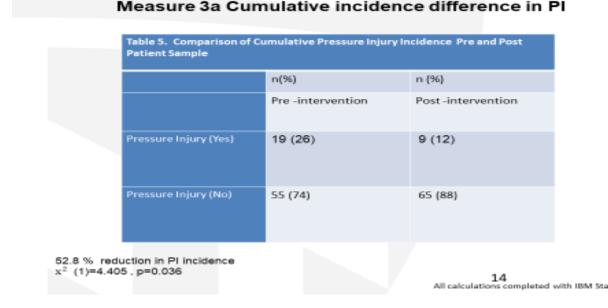
- Convenient patient and RN sample
- Power 80% and alpha 0.5 a priori
- Patient sample for power 67
   therefore powered at 74 pre and post sample
- RN sample for power 86 –
   therefore not powered at 51
- Implementation of PI prevention protocol a) ED skin assessment; b) application of sacral prophylactic dressing; c) Wound Ostomy Continence Nurse Consult (WOCN)
- Education of ED RNs on the PI protocol and PI prevention, classification, and identification
- Educate using National Pressure Ulcer Advisory Panel (NPUAP) power point – "Pressure Injury Definitions and Stages, 2016."
- Test knowledge of education pre and post using 14 NPUAP PI pictures. The PI pictures are Stages I – IV, Unstageable, and Deep Tissue Injury
- Evaluate the change in PI incidence pre and post education and protocol intervention

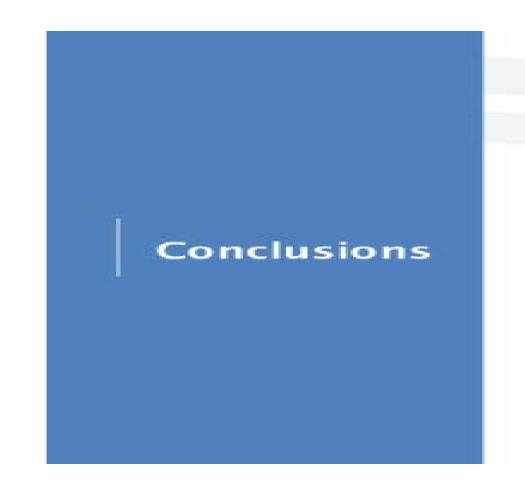
#### Results

Table 1. Demographic of Registered Nurse	
Study Sample (n = 51)	
	n (%)
Gender	
Female	48 (94.1)
Male	3 (5.9)
RN experience in years	
n=49(%)	
0-2	8 (15.7)
3-5	18 (35.3)
6-10	9 (17.6)
11-15	6 (11.8)
21 plus	8 (15.7)
Highest RN Education n=49 (%)	
ADN	29 (60)
BSN	20 (40.8)









Education on PI prevention, identification, and classification is beneficial for RNS to intervene to prevent PI

Demand for ED services outweighing the supply and a consequence is increase risk for PI

Prevention should start with earliest access point to healthcare – the ED

Healthcare resources must be protected

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