

Standardizing Care for Patients with Insulin Pumps

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Background

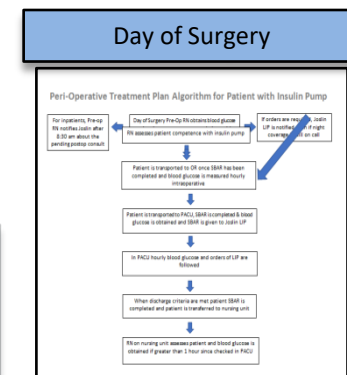
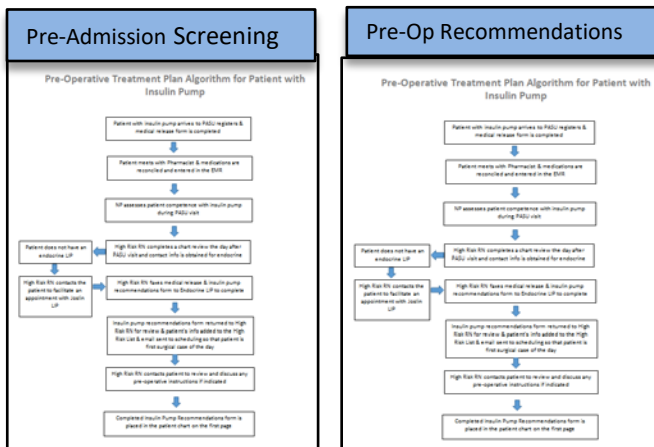
- ❖ It was discovered that the plan of care for patients with insulin pumps was inconsistent and differed for each patient.
- ❖ It was noted that there was an increase in the number of patients with subcutaneous insulin pumps in the surgical population.
- ❖ There was no standardized treatment guideline in place to manage practice. For these patients

Objectives of Project

- ❖ Standardize the perioperative process of insulin pump management
- ❖ Create a clinical practice guideline specific for this population
- ❖ Systematically educate staff of new process and guideline
- ❖ Monitor compliance and sustainability
- ❖ Goal: 95% compliance of new plan of care for six months

Methods

- ❖ A multidisciplinary team was assembled
- ❖ Root cause analysis conducted and gaps identified
- ❖ Policy developed in conjunction with endocrinology hospitalists, nurses and pharmacists to standardize process from preadmission screening to post anesthesia care unit discharge.
- ❖ Pre-op recommendation sheet started in Pre-Admission Screening Unit
- ❖ Pre-op day of surgery orders in chart from endocrinologist
- ❖ All insulin pump patients made first case of day
- ❖ New electronic medical record (EMR) process created to record patients pump, basal rate and bolus amounts given.
- ❖ Staff education developed and distributed hospital wide
- ❖ Compliance monitored monthly then quarterly



Sustainability

This QI project targeted a clinical gap and created a team from nursing, medicine, pharmacy, nutrition, and informatics to standardize practice for a low volume, high risk process. This project ensures that patients with insulin pumps are identified in the pre-screening unit and are assessed for their independence in pump management. A plan is established for the patient **before** the morning of surgery, aiding in efficiency, communication and outcomes. The QI project leader continues to monitor compliance.

Team Members

- Christine A.F. Bell MSN, RN, CAPA, WCC
- Katelynn Cali, BSN, RN
- Denise Cody, MSN, RN, CPAN
- Paula Cote BSN, RN
- Mary Dillon, RN
- Aileen Keating BSN, RN
- Lauren Jasminski, MSN, RN
- Tim Fouché, Pharm D

Patients with subcutaneous insulin pump

