

**Introduction:**

Status asthmaticus is a frequent reason for pediatric hospital admission. Our hospital has an asthma pathway that effectively treats acute status asthmaticus with albuterol and systemic steroids in a standardized way with a short length of stay and focused our efforts on preparing patients for after discharge. As part of a system-wide quality initiative to improve asthma care, the inpatient team sought to prevent these patients from returning to the hospital by providing them optimal inpatient care with asthma treatment plans(ATP), asthma education, and influenza vaccines (seasonally). Admission prevention requires proper use of emergency/preventative medications and medication delivery devices.

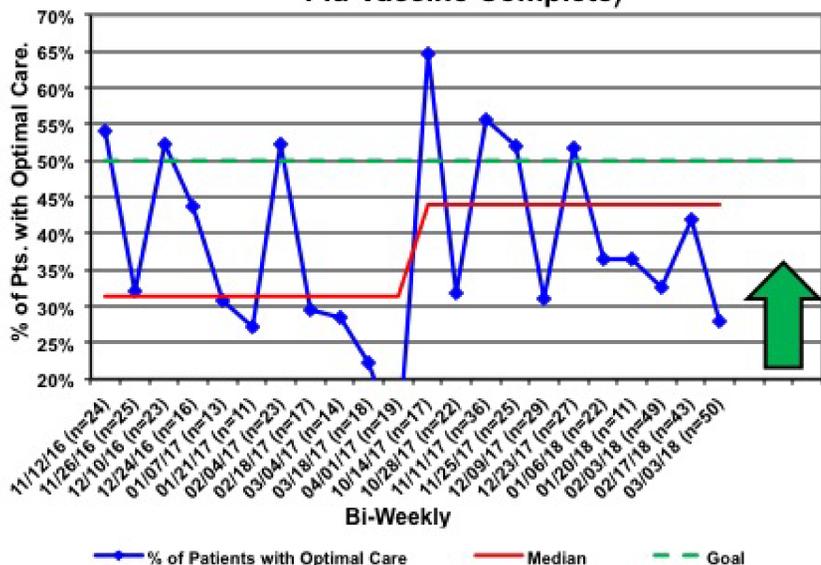
**Aim:**

50% of all patients admitted with status asthmaticus/asthma exacerbation get will get optimal inpatient care (asthma treatment plan, asthma education, and influenza vaccine) prior to discharge by 12/2018.

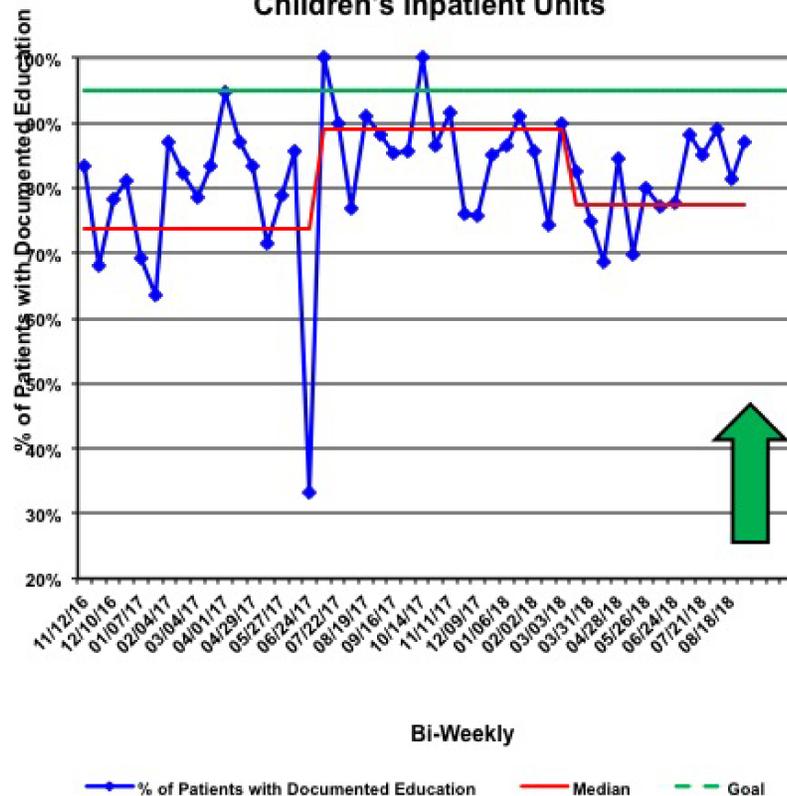
**Actions Taken:**

The Asthma Care Management Team was formed with a social worker and respiratory therapist to address the complex needs of asthma patients. Asthma education included options of a class, videos and bedside education with teach-back of device technique. Revised videos were created and were more easily accessible through hospital TV system. Electronic health record improvements included best practice advisories, influenza vaccines protocol, order set/worklist improvements and discharge checklists. Influenza vaccines were stocked on the inpatient units and an improved publicity campaign was created to combat vaccine hesitancy. Patients were cohorted by resident teams with standard asthma training every rotation. Initiative performance was tracked real time and transparently.

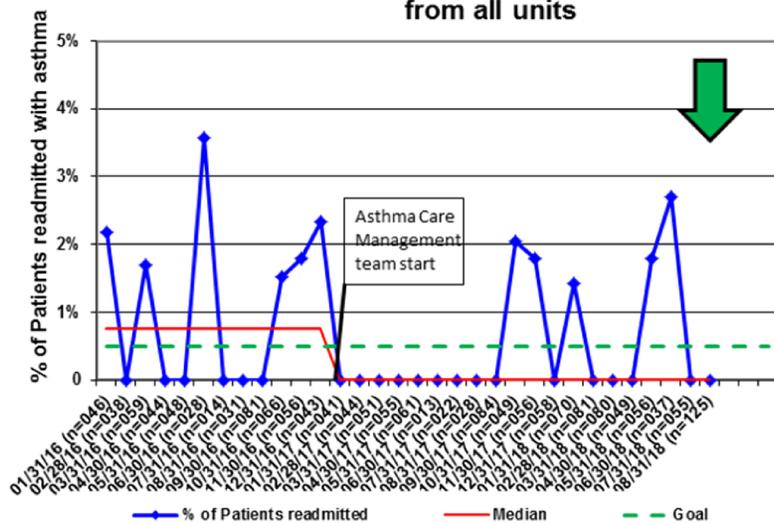
**IP Asthmatics with Optimal Care at Time of DC for all ACH IP Units (Optimal Care = ATP, Edu. & Flu Vaccine Complete)**



**Inpatient Asthmatics with Documented Education at Time of Discharge for all Akron Children's Inpatient Units**



**Status Asthmaticus Readmissions within 7 days from all units**



**Summary of Results:**

Improvement occurred in overall optimal care and education rates resulting decreased 7 day asthma readmission rates. Barriers include resistance to influenza vaccines and off-hour care management resources as well as consistency among the large number of nurses, physicians, and respiratory therapists caring for asthmatics in the hospital. Future opportunities include improvements to the nurse driven influenza vaccine protocol and expanded care management.

**Team Included:**

- Hospitalists
- Pulmonologists
- Allergists
- Respiratory Therapists
- Nurses
- Social Worker
- Asthma Educators
- Quality Improvement Specialist
- Resident Physicians