

# PPI Deprescribing: Ascension

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#deRx2018



# Learning Objectives

- Describe the necessary support structure for a deprescribing initiative
- Identify strategies for successful implementation of a deprescribing initiative
- Explain the key learning points in the implementation process

# Deprescribing Initiative: Process Map

Determine team  
leaders and  
stakeholders

Define AIM  
statement

Create Driver  
Diagram

Identify  
Intervention  
Strategies

Measure  
Outcomes



# Ascension PPI Deprescribing: Key System Stakeholders



David Pryor, MD  
Executive Vice President  
Chief Clinical Officer, Ascension



John Pirolo, MD  
Senior Vice President  
Chief Medical Information Officer, Ascension

## Local Stakeholders engaged for each site:



- Physician Champion
- Pharmacist Champion
- Informatics Champion



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# Ascension PPI Deprescribing: Team Leaders

<b>Day-to-Day Leader</b>	 <p>Patrick Leinauer, PMP</p>	Program Manager
<b>Senior Leader/Sponsor</b>	 <p>Ann Hendrich, PhD, RN, FAAN</p>	Senior Vice President of Quality and Safety Executive Director of the <i>Ascension</i> Health Patient Safety Organization (PSO) Chief Nursing Officer
<b>Clinical Champion(s)</b>	    <p>Karen Smethers, PharmD</p> <p>Kevin Grady, MD</p> <p>Said Soubra, MD</p> <p>Gregory James, MD</p>	<p>Director, Clinical Services</p> <p>Chief Medical Officer St John Providence Medical Center</p> <p>Chief Medical Officer Seton Medical Center, Williamson</p> <p>Chief Clinical Officer Saint Thomas Health</p>
<b>Informatics Team Lead</b>	 <p>Dan Leffler, DPh, MS</p>	Senior Director, Pharmacy Information Systems

# Ascension PPI Deprescribing: Team Leaders

## On Site Leaders



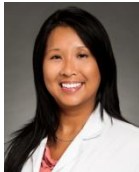
**Leanne Phillips**  
PharmD, BCPS

Clinical Pharmacy Coordinator,  
St. Vincent's East Ascension



**Tamara Knight**  
PharmD, BCPS

Network Clinical Pharmacy Specialist – Internal  
Medicine  
Seton Healthcare Family



**DeeDee Hu**  
PharmD, BCPS

Network Clinical Pharmacy Specialist – Critical  
Care  
Seton Healthcare Family



**Tonya Thomas**  
PharmD

Clinical Pharmacist  
Saint Thomas West Hospital



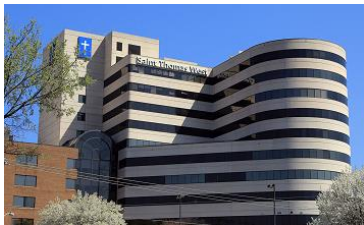
# Ascension PPI Deprescribing: AIM Statement

“By July 2018, reduce the use of Proton Pump Inhibitors by 50% in adult patients at three Ascension pilot sites.”

# PPI Deprescribing: Ascension

## Proton Pump Inhibitor Therapy De-Prescribing In the inpatient health-system setting

St. Thomas West  
Nashville, TN



Seton Healthcare Family  
Austin, TX



St. Vincent's East  
Birmingham, AL



- Three pilot sites that joined the initiative in June 2017



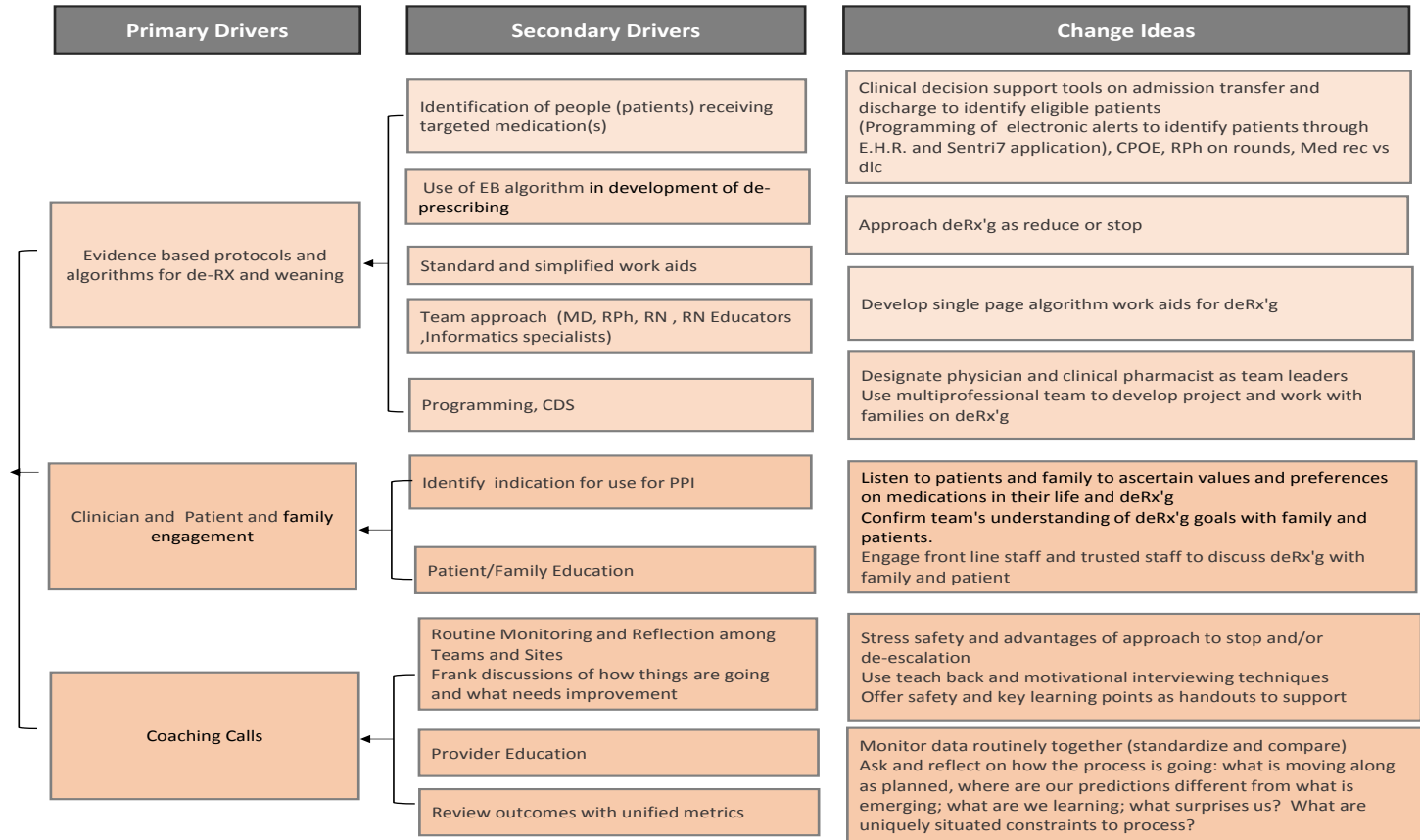
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# Ascension PPI Deprescribing: Driver Diagram

By July 2018, reduce the use of Proton Pump Inhibitors by 50% in adult patients at three Ascension pilot sites.



# Ascension PPI Deprescribing: Implementation Strategies

- Healthcare Professional Education
  - Indications
  - Criteria for Use
  - Adverse Effects
- Removal of PPI from order sets
- Clinical Decision Support
  - Senti 7 monitoring
  - Order entry Alert
    - PRN order frequency




# Ascension PPI Deprescribing: Senti 7 Alert

The screenshot shows the Senti7 dashboard interface. At the top left is the Ascension Health logo. The main header includes the Senti7 logo and navigation tabs for Dashboard, Rules, Patients, Reports, and Admin. A search bar is present with the text 'Searching Active Patients' and a 'Search' button. A yellow warning banner states: 'There are New Susceptibility Test value(s), New Organism Name value(s), New Susceptibility Result value(s) that aren't matched' with an 'Edit Values' link. Below this is a horizontal menu of various clinical rules, including 'ASC AMS (0)', 'ASC Anticoagulation (0)', 'ASC PK Monitoring (0)', 'ASC Renal Dose (Abx) (0)', 'ASC Renal Dose (Non-Abx) (0)', 'ASC IV to PO (Abx) (0)', 'ASC IV to PO (Non-Abx) (0)', 'ASC Therapeutic Init. (0)', 'ASC Quality & Safety (0)', 'ASC TPN Assessment (0)', 'ASC Heart Failure (0)', 'ASC Open Follow De-Prescribing Initiative (0)', 'Seton Initiatives (0)', and 'DeeDee review (0)'. A checkbox for 'Show Rules with No Patients' is checked, and a 'SELECT FILTER' button is visible. Two data tables are shown, one for 'PPI Injectable Orders (0) (6)' and one for 'PPI Oral Orders (0) (28)'. Both tables have columns for Patient Id, Name, Location, Events in Last 7 Days, Admit Date, Gender, and Age. A 'Suggested Action' for both is 'Please review all PPI orders for appropriateness.' The interface also includes pagination controls showing '0 of 0'.

- Identification of all PPI orders
  - Intravenous
  - PO

# Ascension PPI Deprescribing: Order Alert

Discern: (1 of 2)

 **Proton Pump Inhibitor Therapy Alert**

zzTest, ClinDocRegression DOB: 06/01/1950

An indication is required for use of - Protonix .

The overuse of proton pump inhibitors (PPIs) is associated with increased risk for enteric infections (i.e. c.diff), community acquired pneumonia, bone fractures, and nutritional deficiencies.

For symptomatic relief See Below. If scheduled PPI is needed, please select "Continue Ordering" below to enter med indication.

**Alert Action**

Cancel Protonix order

Continue ordering - med indication required\*

**Add Order for:**

Protonix -> 40 mg, ER Tablet, PO, QDay, PRN Indigestion

famotidine -> 20 mg, tablet PO, BID

Maalox -> 30 mL, suspension, PO, q4hrs, PRN Indigestion

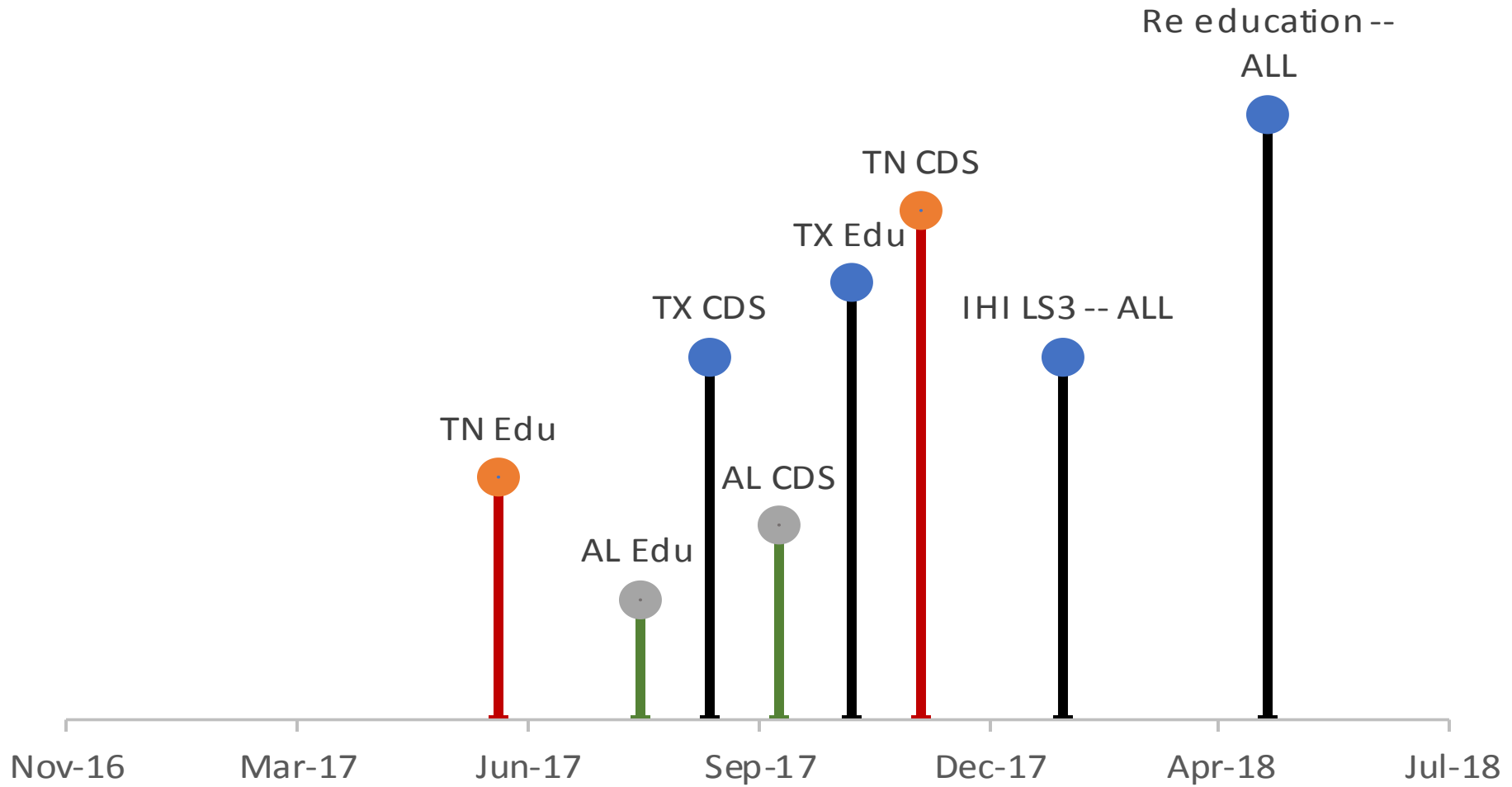
Tums -> 500 mg, tabChew, Chewed, TID, PRN Indigestion

History OK

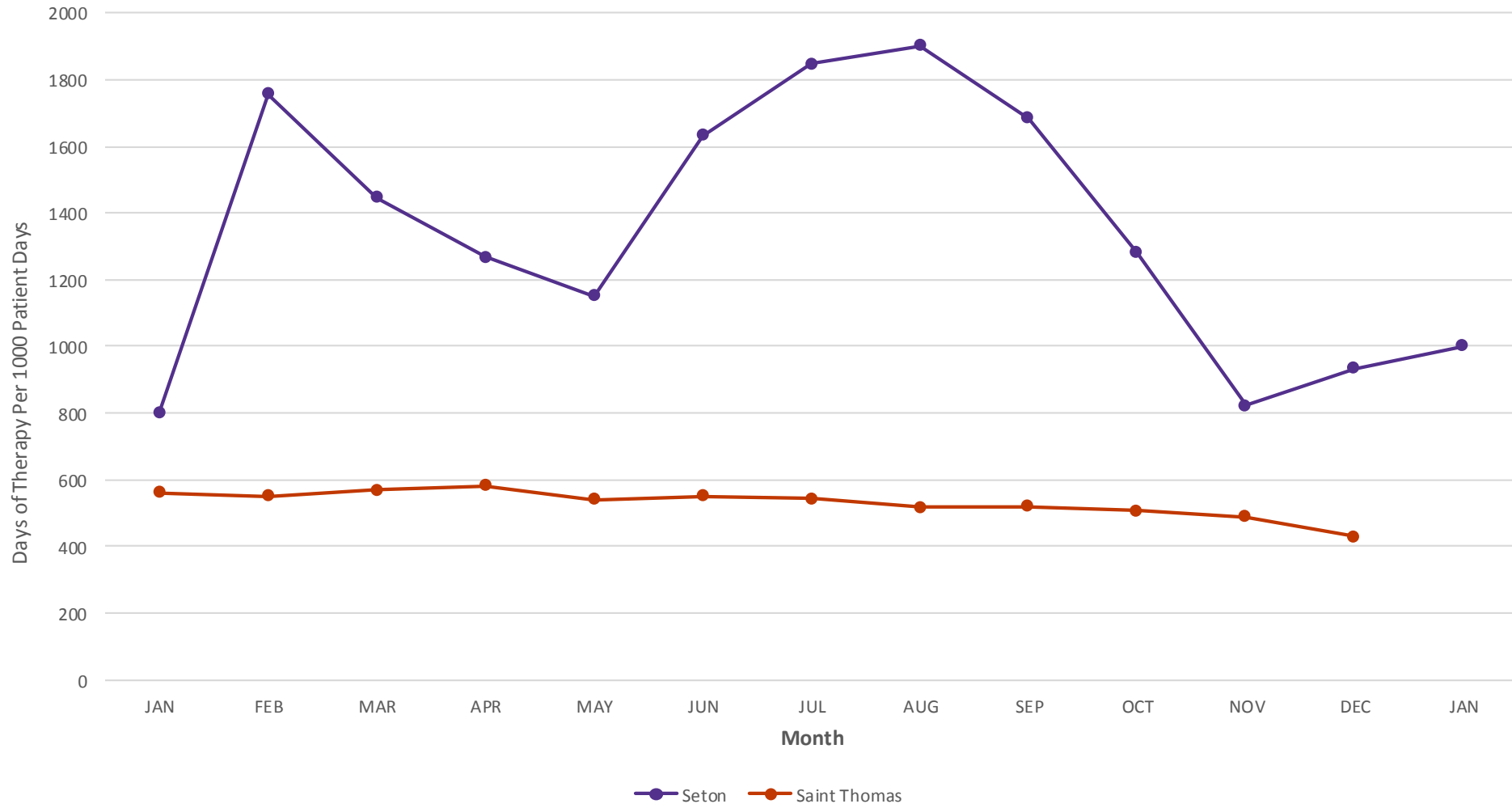
- Requires documentation of medical indication for PPI therapy



# Ascension PPI Deprescribing Strategy Timeline



# Days of Therapy Per 1000 Patient Days – Ascension



# Ascension: Implementation Strategies

- Successes
  - Order Entry Alert
  - Senti 7 Alert
  - Deprescribing as a culture
- Setbacks
  - PRN PPI indication
  - Pilot sites within a health system
  - Conversion of Electronic Medical Records (Upgrade)
  - Prescriptive habits – perpetual education
- Key Learning Points
  - Identification of key stakeholders and leadership for support and success
  - Consistent measure and communication of current status to maintain engagement
  - Education as a foundation for change

