## St. Joseph Mercy Hospitals Quality Initiative Project PONV 01

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Date: 07/20/2018





BeRemarkable.

## The Sites We Serve



## The Sites We Serve

- St. Joseph Mercy Ann Arbor
- St. Joseph Mercy Chelsea
- St. Joseph Mercy Livingston
- St. Joseph Mercy Brighton
- 206 anesthesia providers

## What is Quality Improvement?

Quality improvement in regards to our anesthesia practice is a systematic approach for improving performance so as to reach the desired clinical outcome. Our goal then was to maximize compliance with the PONV guidelines our Quality Committee endorsed which corresponded with the ASPIRE PONV 01 measure. As a result of using this guideline we believe our patients will have less PONV.

## Our hypothesis

If we could develop a central electronic site of access for all of our anesthesia providers which housed the relevant information regarding our ASPIRE PONV 01 measure and our algorithm for PONV management, we would have better compliance with following the algorithm and, therefore, meet our ASPIRE measure with resultant improvement in our performance. Our goal being >90% compliance with the PONV 01 measure.

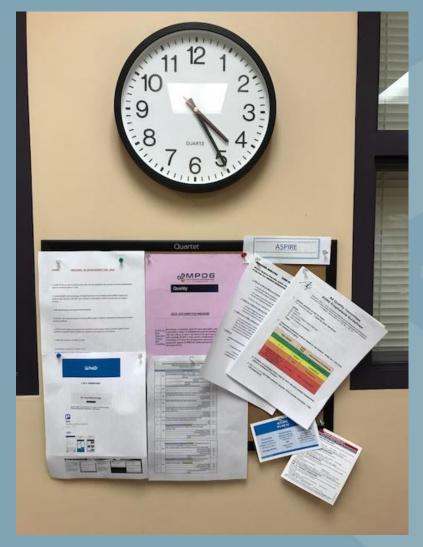
# Systematic Approach Part 1

- 1. Many anesthesia practitioners rely heavily on the internet for access to information including medical information.
- 2. Almost all of them have smart phones.
- 3. Access to an internet app that allows our organization to find protocols, guidelines and ASPIRE measures specific to our practice in a single location would be clinically helpful.
- 4. The portable nature of this information allows practitioners access to it in all the locations where they practice.
- 5. Information can be added and/or changed easily.
- 6. Paper is no longer relevant when electronic means of information is a available.

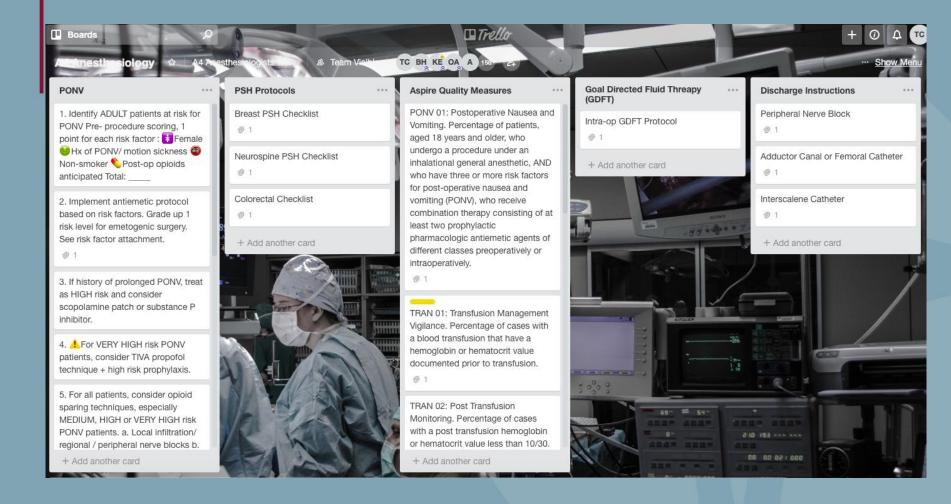
## Along comes Trello...

- > A smart phone app that is FREE
- Works like a substitution for a bulletin board
- Cards, checklists, file attachments can all be created as reference materials
- Single location for comprehensive clinical information
- Designed specifically for our needs (ASPIRE focus measures, PSH checklists, PONV algorithm)

## So we are moving from this...



## To this... Trello



## Access to the One Pager

#### **Aspire Quality Measures**

PONV 01: Postoperative Nausea and Vomiting. Percentage of patients, aged 18 years and older, who undergo a procedure under an inhalational general anesthetic, AND who have three or more risk factors for post-operative nausea and vomiting (PONV), who receive combination therapy consisting of at least two prophylactic pharmacologic antiemetic agents of different classes preoperatively or intraoperatively.

0 1

PONV 01: Postoperative Nausea and Vomiting. Percentage of patients, aged 18 years and older, who undergo a procedure under an inhalational general anesthetic, AND who have three or more risk factors for post-operative nausea and vomiting (PONV), who receive combination therapy consisting of at least two prophylactic pharmacologic antiemetic agents of different classes preoperatively or intraoperatively.

in list Aspire Quality Measures

	Description	Add	
	Add a more deta	illed description	A Members
)	Attachments		
		PONV 01 Measure One-Pager.pdf [2]	② Due Date
	PDF	Added May 4 at 1:58 PM - Comment - Delete	

## Access to PONV algorithm

#### PONV

- 1. Identify ADULT patients at risk for PONV Pre- procedure scoring, 1 point for each risk factor: Female Hx of PONV/ motion sickness Non-smoker Post-op opioids anticipated Total:
- Implement antiemetic protocol based on risk factors. Grade up 1 risk level for emetogenic surgery.
   See risk factor attachment.

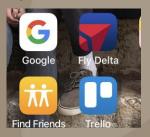
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- If history of prolonged PONV, treat as HIGH risk and consider scopolamine patch or substance P inhibitor.
- For VERY HIGH risk PONV patients, consider TIVA propofol technique + high risk prophylaxis.
- For all patients, consider opioid sparing techniques, especially MEDIUM, HIGH or VERY HIGH risk PONV patients. a. Local infiltration/ regional / peripheral nerve blocks b.

Risk Factors	PONV Risk	Interventions Prophylaxis
0 - 1	Low	Nothing or 1 medication
2 - 3	Medium	2 medications
4	High	3 medications
Multiple Risk Factors + emetogenic surgery -or- prior failure of triple medication, prophylaxis in the past	Very High	TIVA + 3 medications

## Systematic Approach Part 2

- 1. Follow the leader. Our ERP for colorectal surgical patients used this tool for resident education and found it successful for clinical communication
- 2. Hire a low-cost tech-savvy administrative person (like my daughter Catie) to fill your Trello board with relevant information.
- 3. Educate your providers on the app
- 4. Send out the email invitation to join Trello for your providers. This is how they have access to your specific board
- 5. Follow up to see that people have actually signed up



- 1. Trello board created in the beginning of May 2018
- 2. Presentation to anesthesia department on May 14, 2018
- 3. Email invitation to join Trello sent on 5/31/2018
- 4. Email communication to physicians sent on 5/31/2018
- 5. Email CRNA communication sent on 6/1/2018

## Sample Section Breaker Title

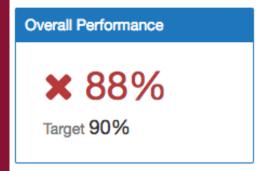
(only use if necessary)



48/158 Have accepted their invitation to Trello That is only 30%

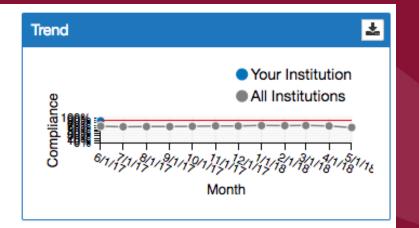
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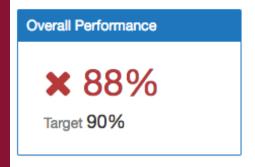
Not quite there yet!!!



Counts	<b>±</b>
PONV-	Count
01	
Result	
Passed	653
Failed	89
Exclu	3,128
	3,870

Breakdown of Primary Cause		
PONV-01 Result	PONV-01 Result Reason	Case Count
Excluded	Received General	1,883
Excluded	Risk Factor Count	957
Excluded	Patient Age	163
Excluded	Primary Anesthesi	92
Excluded	Labor Epidural	33
Failed	Anti-Emetic Class	89
Passed	Anti-Emetic Class	653
		3,870





Counts	<u>±</u>
PONV-	Count
01	
Result	
Passed	1,863
Failed	265
Exclu	8,621
	10,749

Trend	<u> </u>
	<ul><li>Your Institution</li></ul>
8	<ul><li>All Institutions</li></ul>
reig 1 <b>911 3−3−3−</b>	0-0-0-0-0-0-0
unidemoo	94.10.11.12.14.24.34.44.54
0 41/15/14/5/1/1	<i>ૹ૾૽ઌૺ૱ઌ૽ૺ૱૽ૺ૱૽ૺઌ૽</i> ૢ૽ઌૺ૱ૡ૽ઌ૱૾ૺઌ
	Month

Breakdown of Primary Cause		
PONV-01 Result	PONV-01 Result Reason	Case Count
Excluded	Received General	5,316
Excluded	Risk Factor Count	2,631
Excluded	Patient Age	352
Excluded	Primary Anesthesi	237
Excluded	Labor Epidural	84
Excluded	Responsible Provi	1
Failed	Anti-Emetic Class	265
Passed	Anti-Emetic Class	1,863
		10,749

#### **Overall Performance**

**✓** 91%

Target 90%

Counts	*
PONV- 01	Count
Result	
Passed	2,013
Failed	206
Exclu	9,109
	11,328

Trend	<u>±</u>
	● Your Institution  ■ All Institutions  ■ All Institutions  ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Breakdown of Primary Cause		
PONV-01 Result	PONV-01 Result Reason	Case Count
Excluded	Received General	5,649
Excluded	Risk Factor Count	2,557
Excluded	Primary Anesthesi	452
Excluded	Patient Age	345
Excluded	Labor Epidural	101
Excluded	Responsible Provi	4
Excluded	Valid Anesthesia D	1
Failed	Anti-Emetic Class	206
Passed	Anti-Emetic Class	2,013
		11,328

#### **Overall Performance**

**✓** 91%

Target 90%

Counts	*
PONV- 01	Count
Result	
Passed	1,842
Failed	185
Exclu	8,756
	10,783

Trend	±
Compliance	Your Institution  All Institutions  Friday 14 for 1

Breakdown of Primary Cause			
PONV-01 Result	PONV-01 Result Reason	Case Count	
Excluded	Received General	4,348	
Excluded	Risk Factor Count	2,640	
Excluded	Primary Anesthesi	1,351	
Excluded	Patient Age	325	
Excluded	Labor Epidural	89	
Excluded	Responsible Provi	3	
Failed	Anti-Emetic Class	185	
Passed	Anti-Emetic Class	1,842	
		10,783	



Overview

Providers

Case Lists

# Overall Performance 90% Target 90%

Counts	<u></u>
PONV-	Count
01	
Result	
Passed	1,031
Failed	113
Exclu	6,541
	7,685

Trend	<b>±</b>
	r Institution nstitutions

Breakdown of Primary Cause			
PONV-01 Result	PONV-01 Result Reason	Case Count	
Excluded	Received General	2,695	
Excluded	Primary Anesthesi	2,145	
Excluded	Risk Factor Count	1,427	
Excluded	Patient Age	234	
Excluded	Labor Epidural	38	
Excluded	Responsible Provi	2	
Failed	Anti-Emetic Class	113	
Passed	Anti-Emetic Class	1,031	
		7,685	

## What can A4 do?

- 1. Encourage our physicians to discuss PONV risk assessment with our CRNA colleagues on every case and create a plan.
- 2. Ongoing education regarding the algorithm and the ASPIRE measure.
- 3. Re-invite those that have not signed up to Trello. Provide a resource for help if needed to access the information.
- 4. Create an intra-op electronic reminder that is linked to the patient's risk assessment to ensure the proper anti-emetics are given.

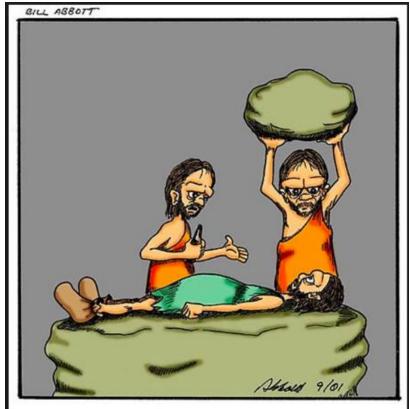
### **Desired Clinical Outcome**

#### What can ASPIRE do next?

- Extract our PACU data to see who has gotten rescue treatment for PONV. Who still has PONV after the recommended treatment was given?
- Extract our pre-op data to see who has gotten an anti-emetic prior to the OR (this would include floor medications that were received pre-op as well as the the pre-op OR area). This would be a comprehensive list of pre-op anti-emetic treatment.
- Assess patient populations and anti-emetics given and provide recommendations for specific subsets of populations.

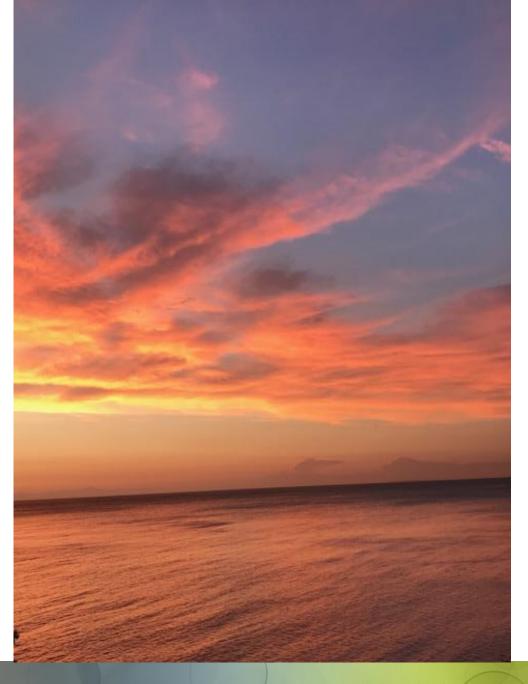
## Ultimate Desired Clinical Outcome

## **Patient Satisfaction**



"...and this is Ralph, your anesthesiologist."

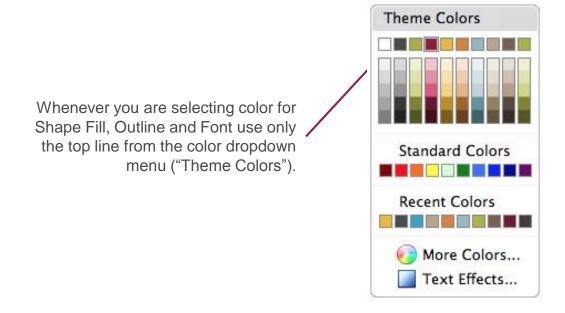
## Thank you!



# Instructions for Using the St. Joe's Template

## Using St. Joe's Brand Colors

The St. Joe's brand colors have been incorporated into every element of this template (Font, Shape Fill, Outlines, Tables, Charts and SmartArt).



## Using St. Joe's Brand Colors

The St. Joe's brand colors have been incorporated into every element of this template (Font, Shape Fill, Outlines, Tables, Charts and SmartArt).

When selecting colors for SmartArt...

1. Start by clicking the Design tab under the SmartArt Tools tab



2. Then, click the "Change Colors" button to select the desired brand colors for your SmartArt



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The St. Joe's brand colors have been incorporated into every element of this template (Font, Shape Fill, Outlines, Tables, Charts and SmartArt).

1. Start by clicking the Design tab under the Table Tools tab

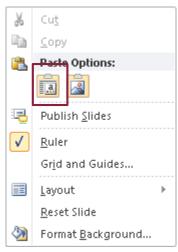


2. Then, choose your desired brand colors from the options provided in the toolbar ribbon



## Importing Content

To maintain the integrity of the template, when importing content from other sources be sure to select "Use Destination Theme" from the Paste Options



## Secondary Base Slide Option

