



Improving the Hospital Transition Process: Optimizing Medication Reconciliation & Hospital Follow-Up

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AMERICAN ACADEMY OF FAMILY PHYSICIANS



4FM Residency:

- Springfield
- Quincy
- Decatur
- Carbondale

FQHC:

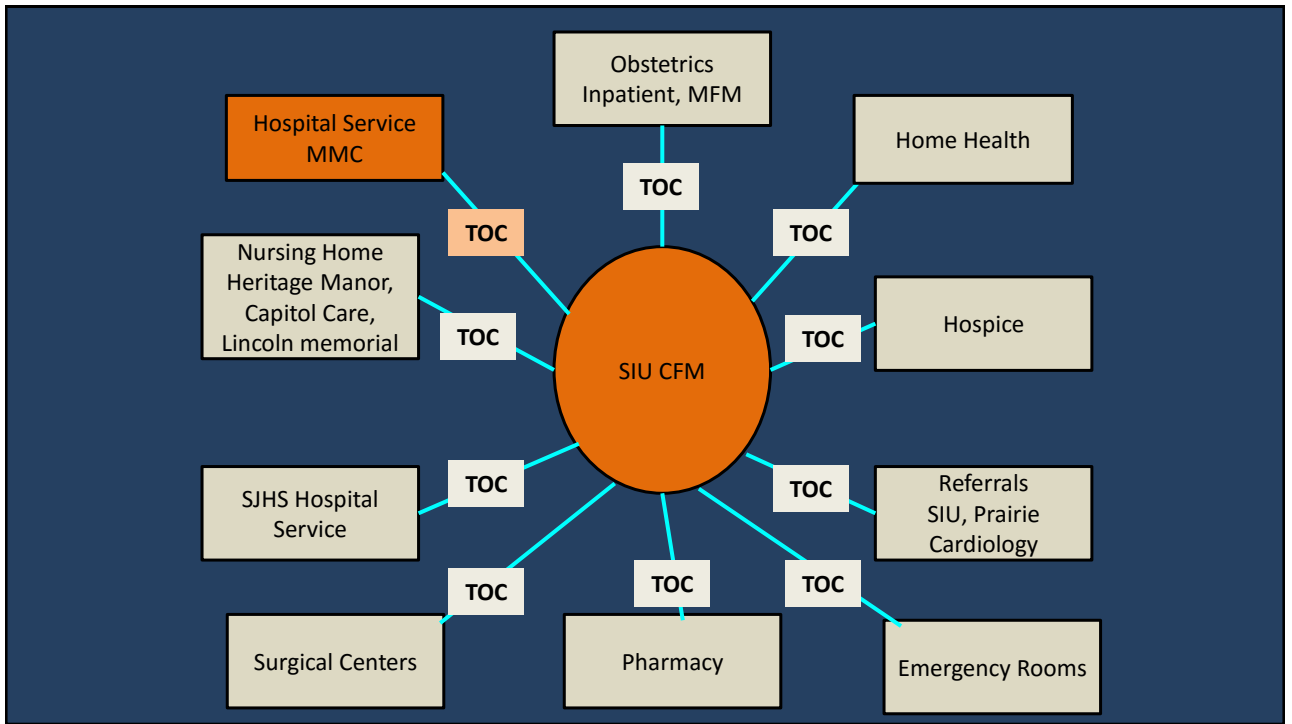
- Lincoln
- Jacksonville

8 Hospitals:

- Memorial Spfd
- St Johns Spfd
- Memorial T-ville
- Memorial Lincoln
- Blessing Quincy
- Passavant J-ville
- Memorial Dct

EHR Platforms:

Touchworks (4 platforms do not interface)
Epic (2 platforms do not interface)
PowerChart
Meditech
NextGen
McKesson
Centricity



**First Step when your System does not meet
Process requirements ????**

A Work Around



If it Continues to Fail ????



For Most of Us

Process Management Consists of:

- Workarounds
- Finger Pointing

Take Home #1:

Can't Fix it if you Don't Know about it.

"In God We Trust.

Everyone else bring your data"

David Nash MD TJU

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Take Home #2:

"A Bad Process Will Defeat a Good Person Every Time"

W.E. Deming

Pareto Principle 80/20

80% of errors lie with the process

20% lie with the individual

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Take Home #3:

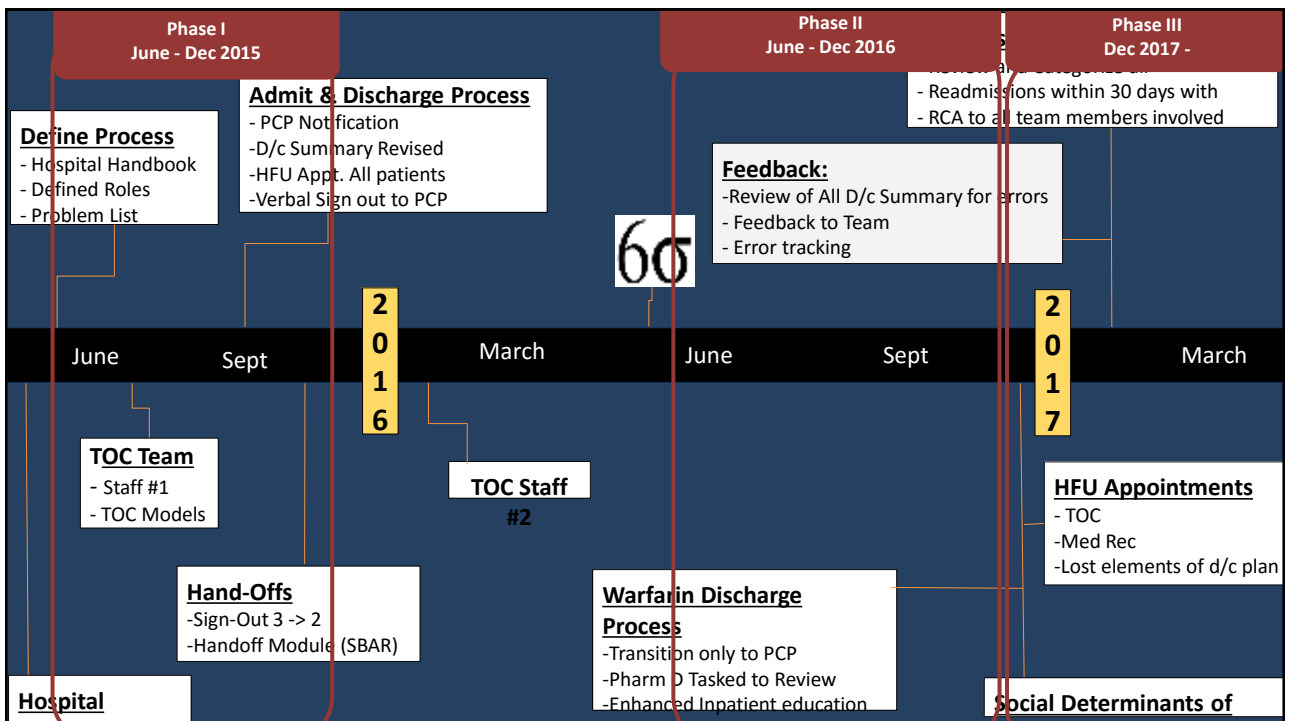
The Importance of Process

In Order to be an Effective Process:

Defined
Ownership
Feedback
Controlled

- measure
- 80/20
- process

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TOC Project
Where to Start?

Take Home #1

Can't Fix it if you Don't Know about it.

June

Sept

2
0
1
6

March

June

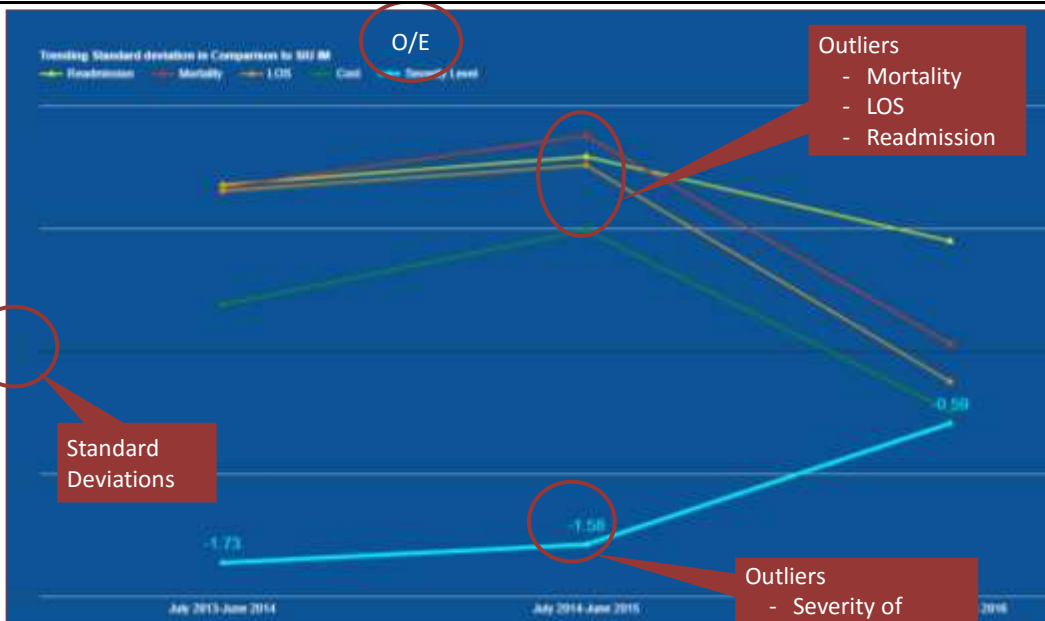
Sept

2
0
1
7

March

Hospital
Metrics

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What did we do?

Take home #2 & #3

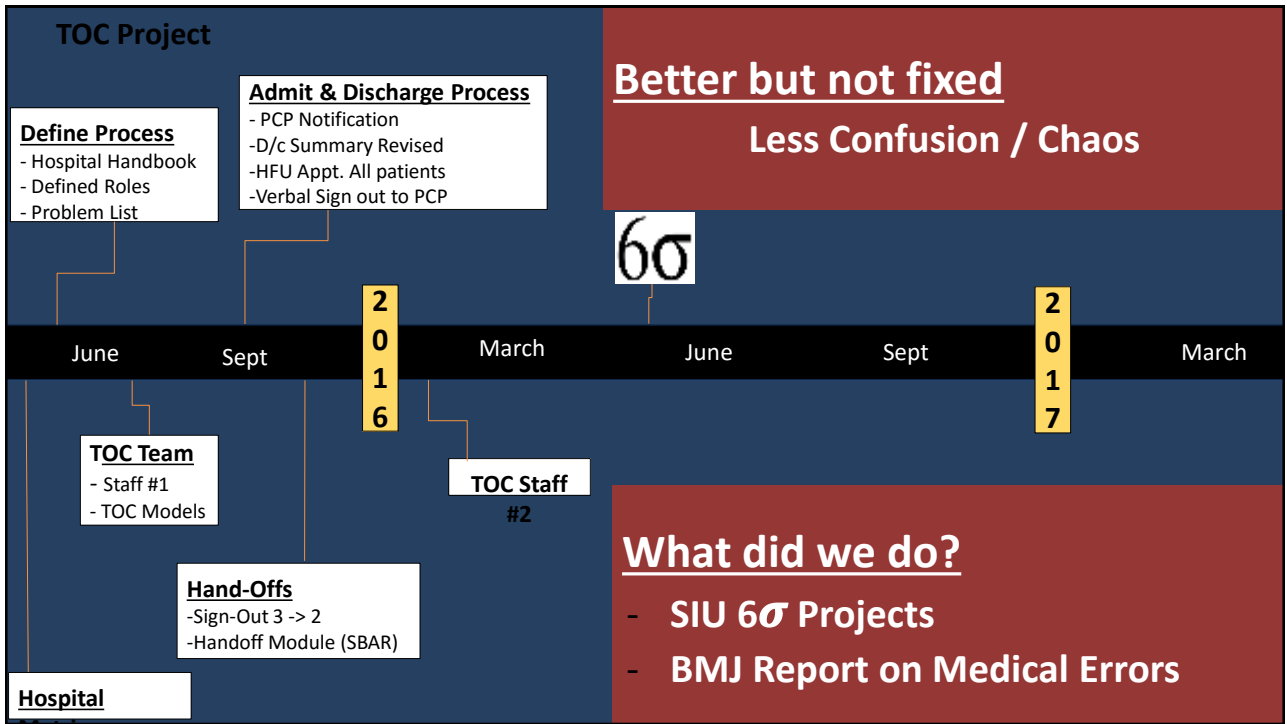
“A Bad Process will Defeat a Good Person Every Time”

Process Focus:

Defined
Ownership
Feedback
Controlled

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<div><div>TOC Project: Phase II June – Nov 2015</div><div>Define Process<ul style="list-style-type: none">- Hospital Handbook- Defined Roles- Problem List</div><div>Admit & Discharge<ul style="list-style-type: none">- PCP Notification- D/c Summary- HFU Appt. All- Verbal Sign off</div><div>JuneSept</div><div>2015</div><div>????</div><div>Hospital</div></div>		TOC Results	Nov14 -15 Historical	Phase I results
		30 Day Readmission (Mean)	16.6%	15.79%
		Mortality	2.6%	1.3%
		Complication	1.3%	1.8%



thebmj

BMJ 2016;353:j2139 doi: 10.1136/bmj.j2139 (Published 3 May 2016) Page 1 of 5

med rec --> Med error --> #1 Med injury --> #3 death

- 250,000 deaths per year
- \$1.2 Trillion of QAYL

700 deaths a day — almost 10 % of all deaths in the US

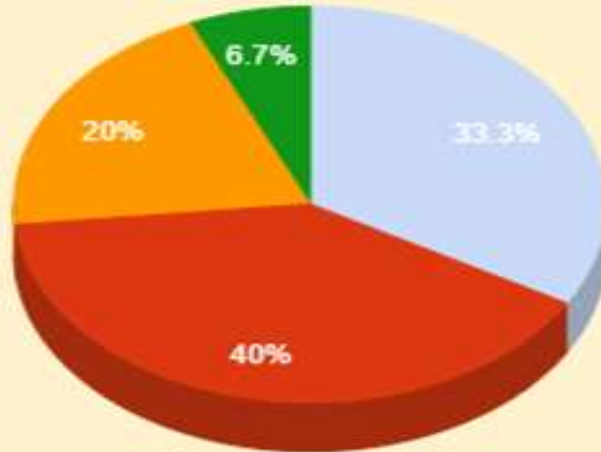
“Medication Safety was the #1 Problem”

J Health Care Finance. 2012 Fall;39(1):39-50. The economics of health care quality and medical errors

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66% of Medication Lists had at least 1 Error HFU
46% had Multiple Errors

--> 6σ



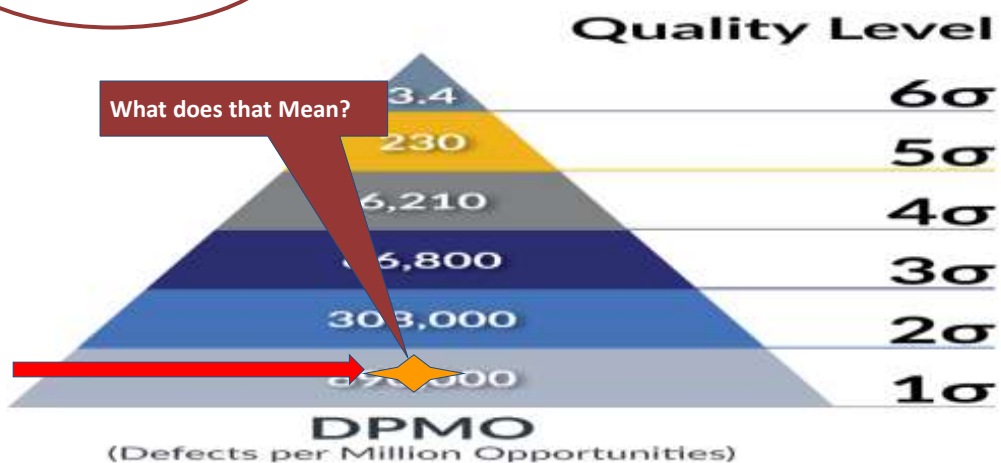
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66% Error Rate

Baseline DPMO: 666,667

Z score of 1.1

What does that Mean?



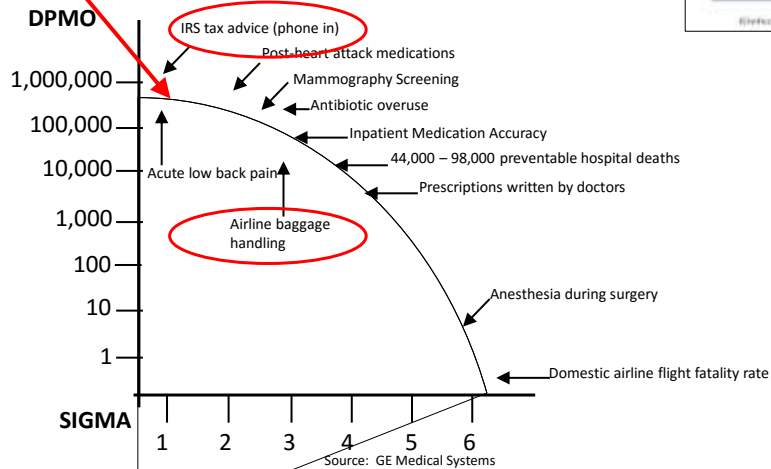
What does that Mean?

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66% Error Rate

Baseline DPMO: 666,667

Z score of 1.1



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19

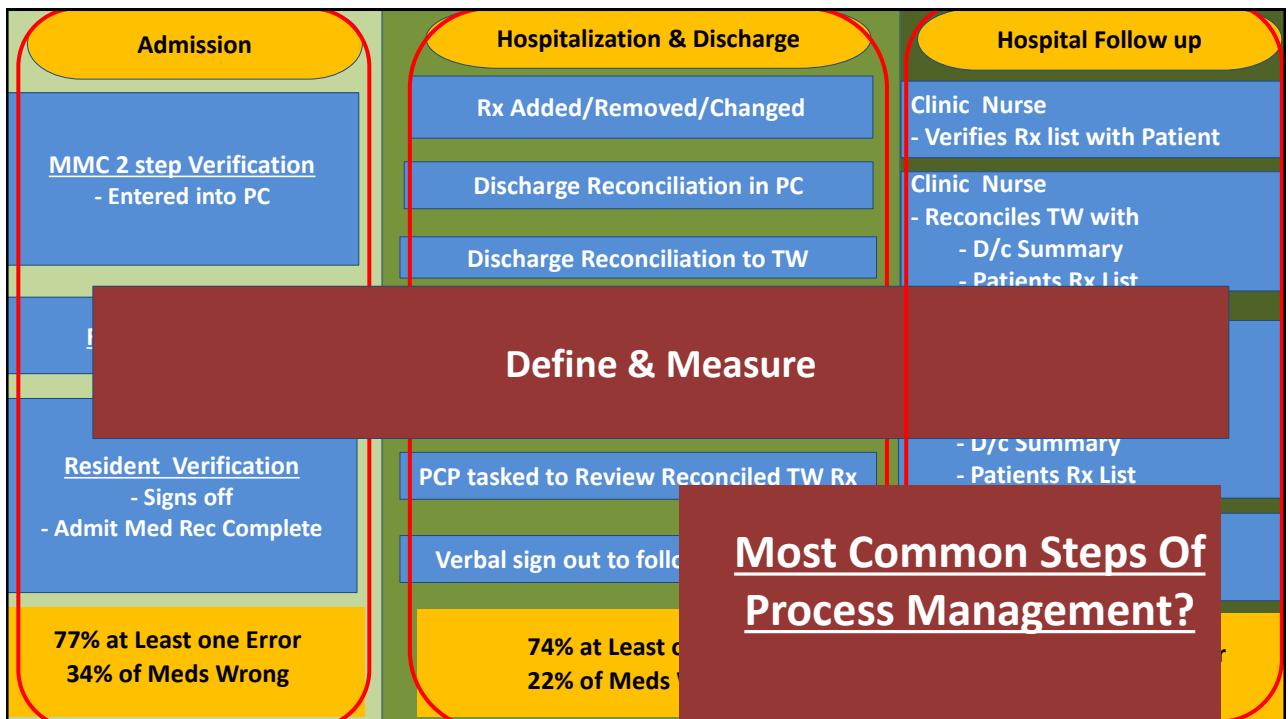
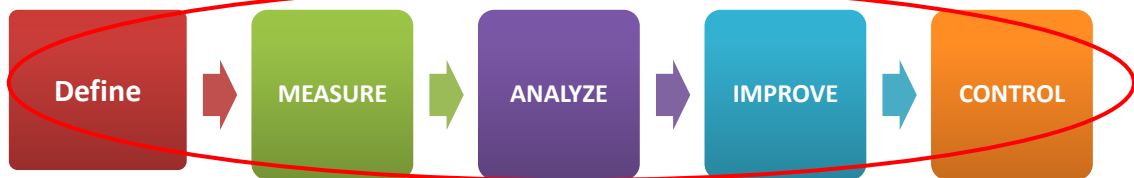
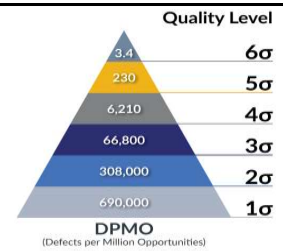
Cost of a medication error was \$88.57

[Pharmacotherapy. 2014;34\(4\):350-7. doi: 10.1002/phar.1370. Epub 2013 Nov 11](#)

66% Error Rate

Baseline DPMO: 666,667

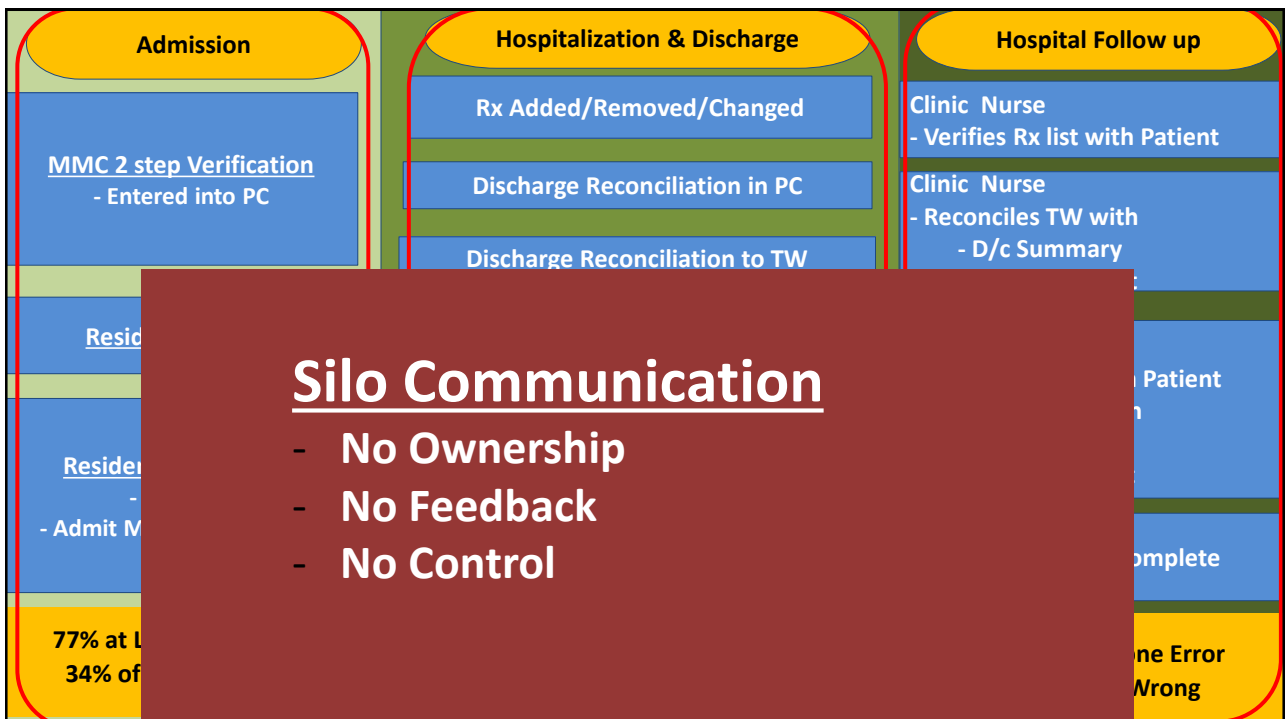
Z score of 1.1





80/20 rule:

“A Bad Process will Defeat a Good Person Every Time”



Hypothesis:

Improving the Admission Reconciliation will Improve:

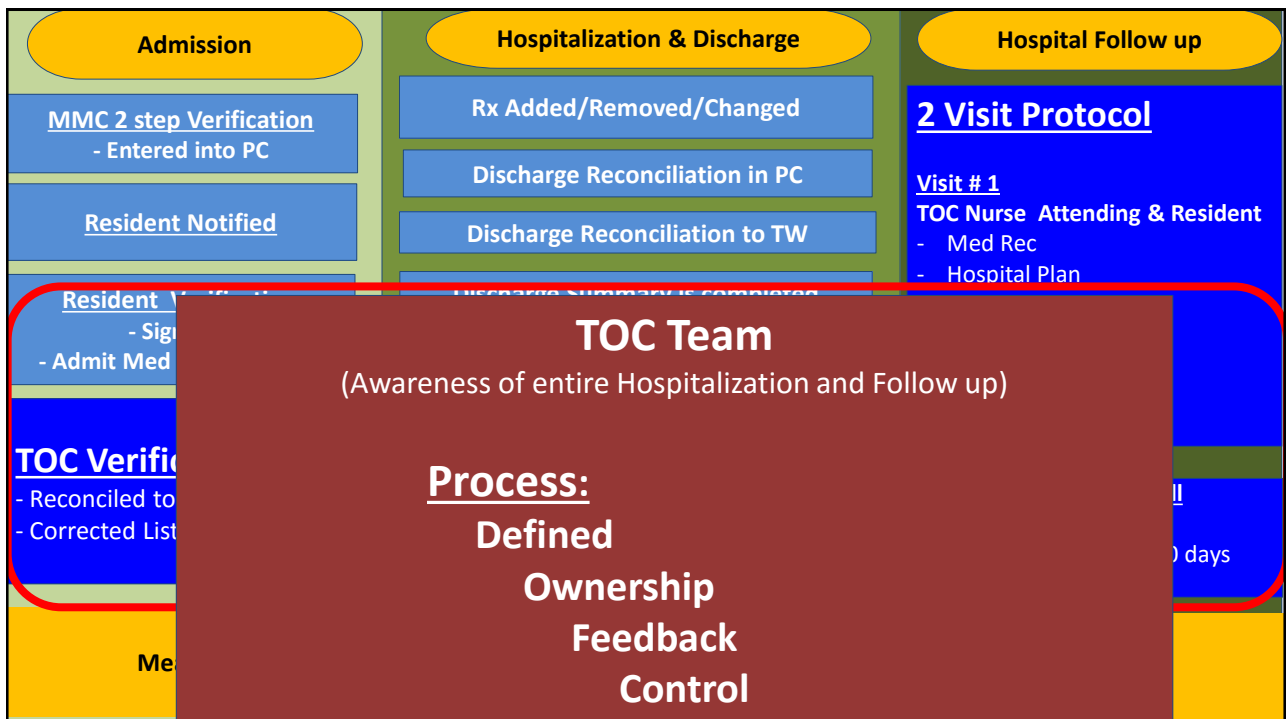
- The Discharge Reconciliation

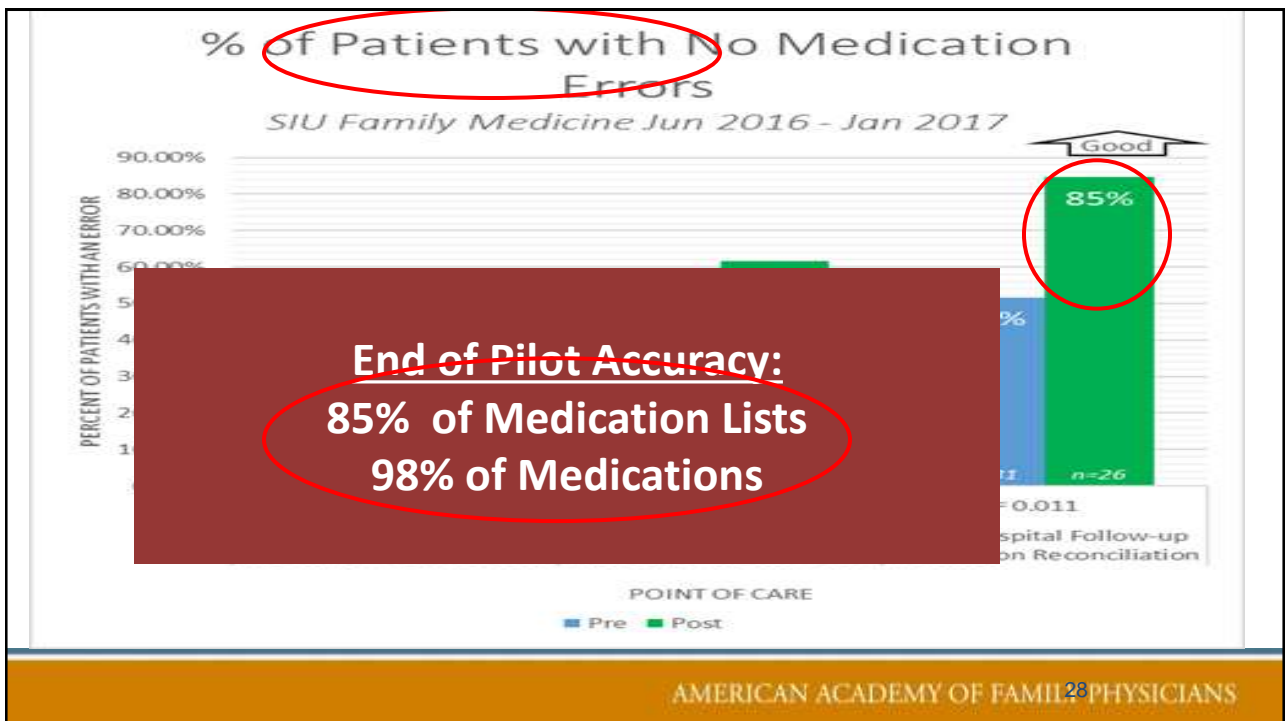
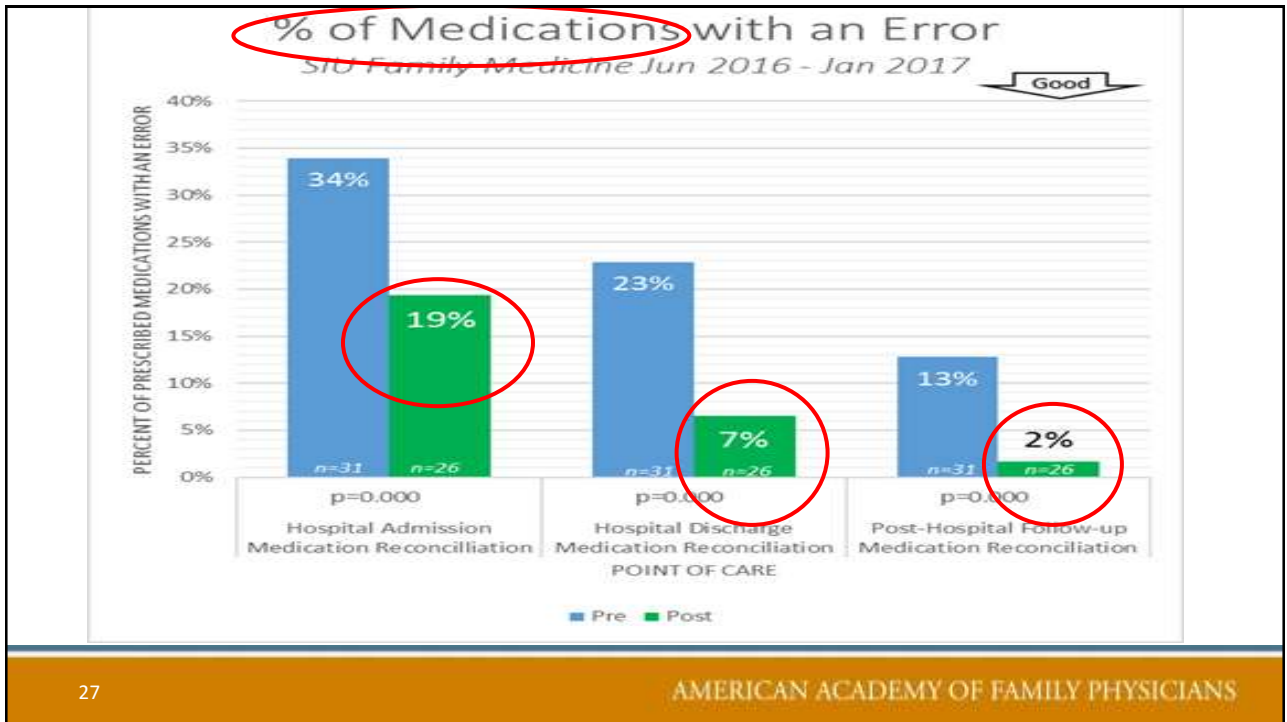
Improving the Discharge Reconciliation will Improve:

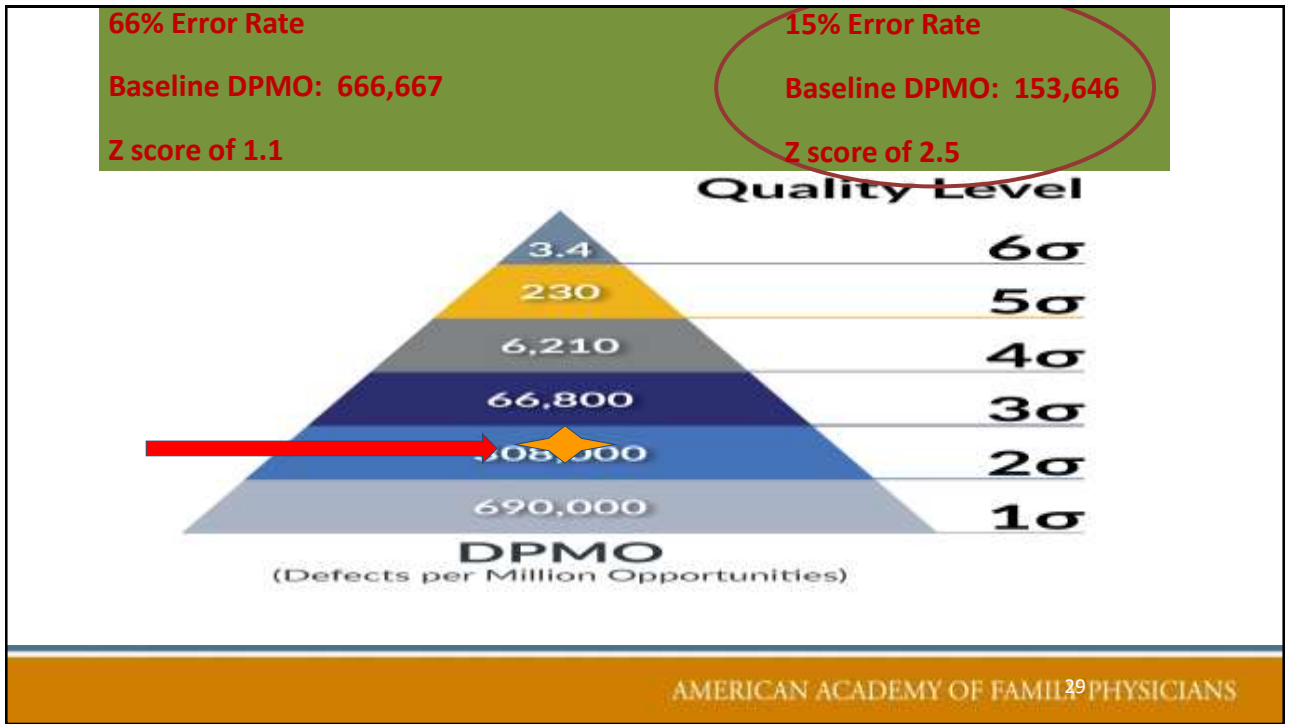
- The Hospital Follow Up Reconciliation

How Can We Redefine our Process?

- Ownership
 - Feedback
 - Control

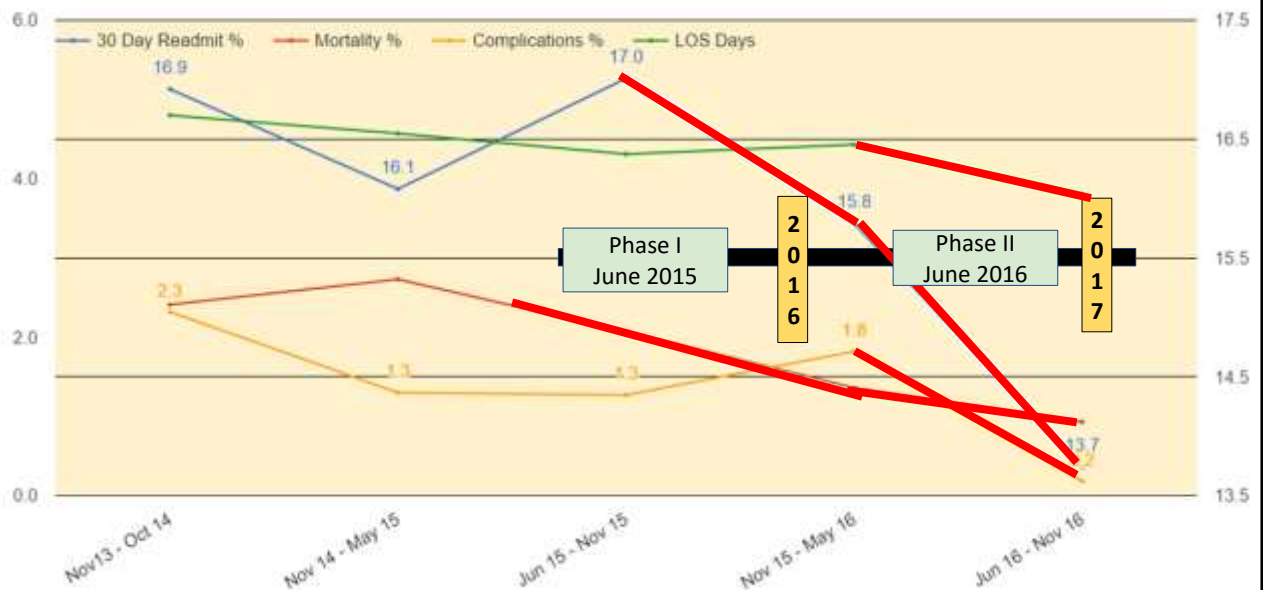




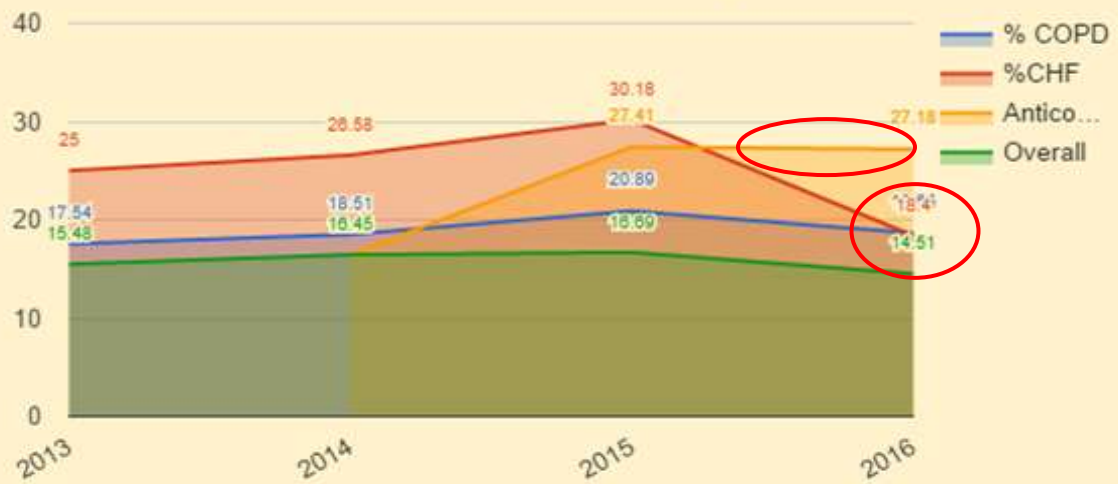


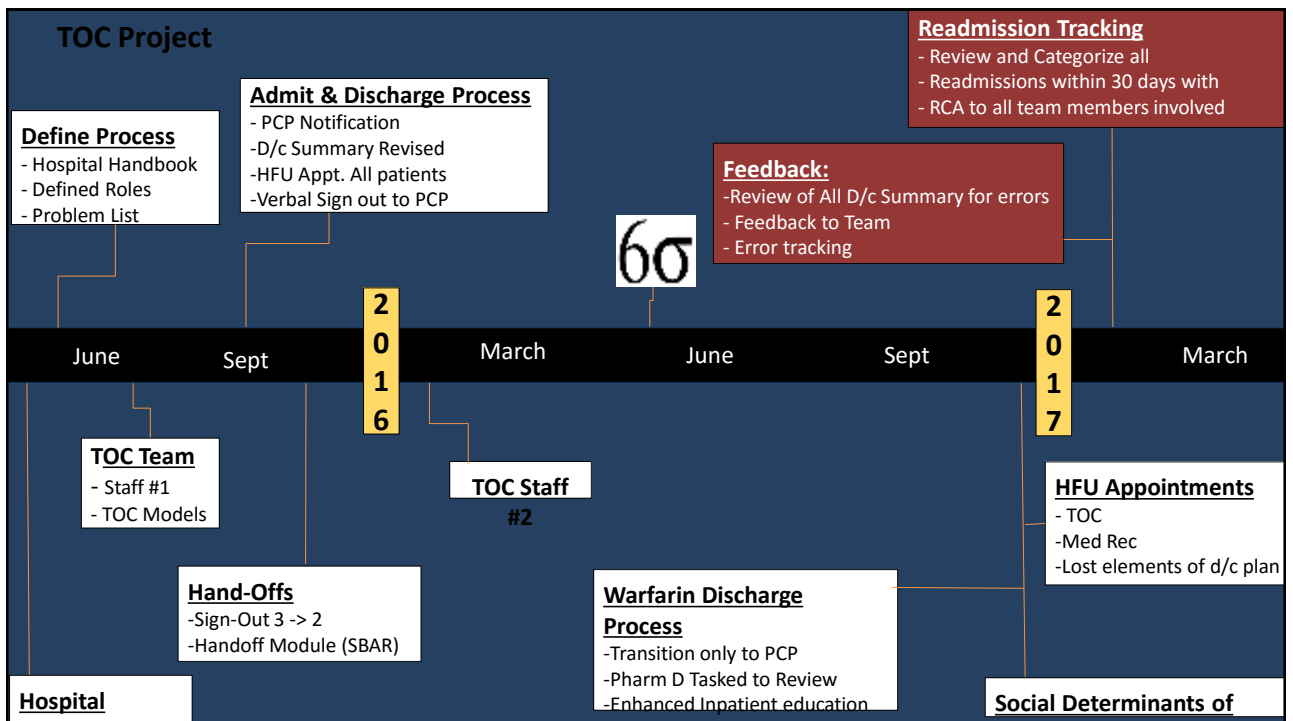
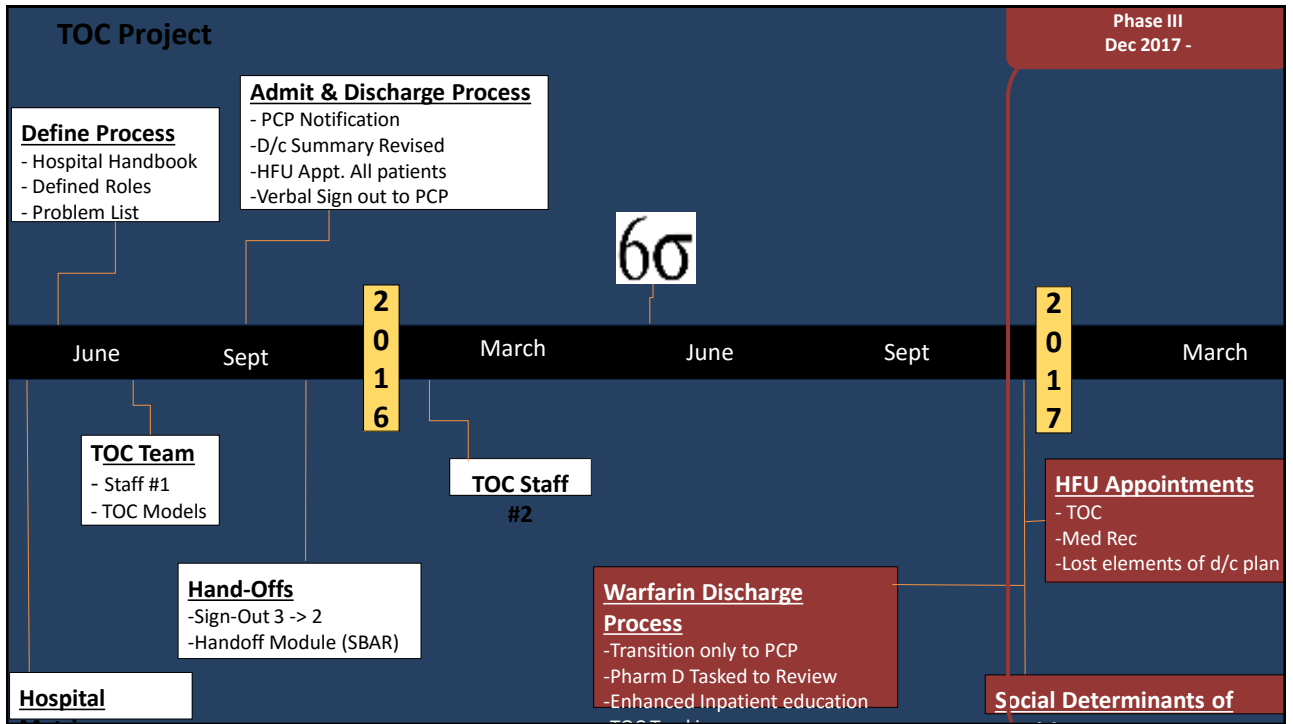
TOC Project: Phase II June – Nov 2016		Nov14 -15 Historical	Nov15 - May 16 Phase I results	Phase II results
Define Process - Hospital Handbook - Defined Roles - Problem List Admit & Discharge - PCP Notification - D/c Summary Revised - HFU Appt. All patients - Verbal Sign out to PCP				
June Sept TOC Team - Staff #1 - TOC Models Hand-Offs - Sign-Out 3 -> 2 - Handoff Module (SBAR)				
Hospital				
30 Day Readmission		16.6%	15.79%	13.74%
1 complication 530 patients			0.3%	0.93%
Complication		1.3%	1.8%	0.18%

SIU CFM Hospital Service



% 30 Day Readmission COPD,CHF,Anticoagulation





Focus on Process:

Defined

Ownership

Feedback

Controlled

80% Process 20% Individual

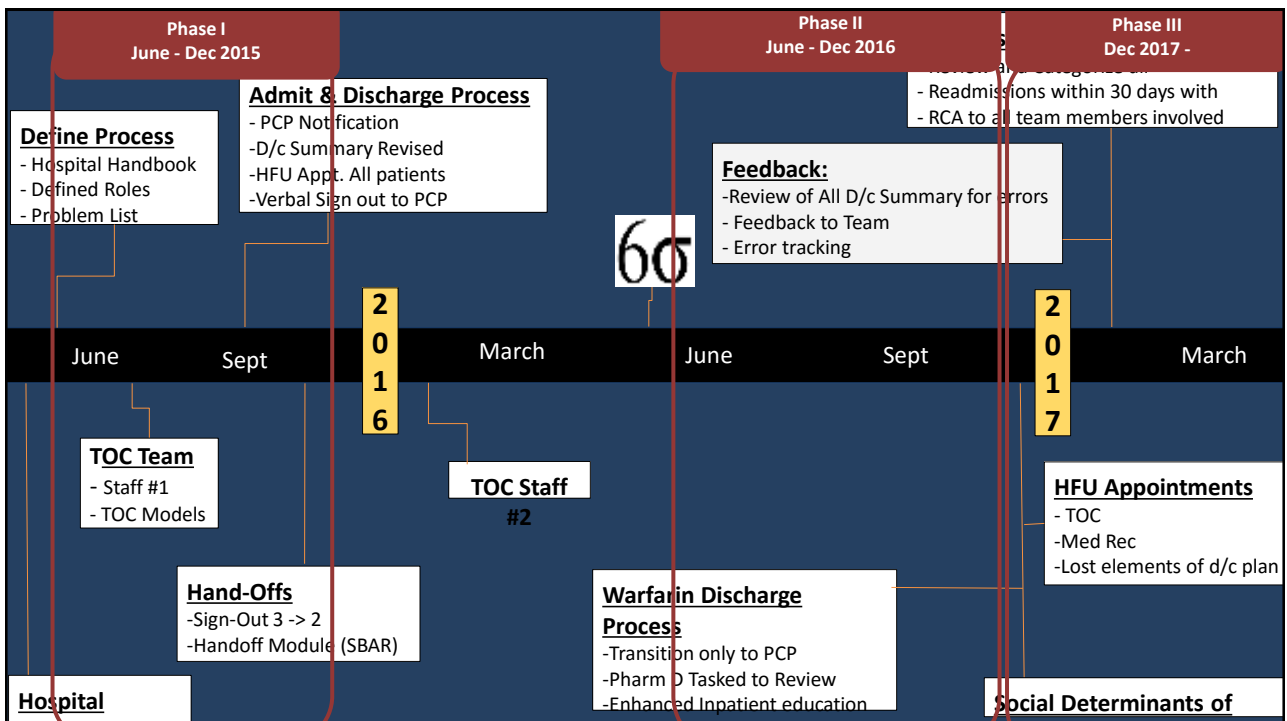
“A Bad Process will Defeat a Good Person Every Time”

You have to Measure it to Fix it.

‘In God We Trust’

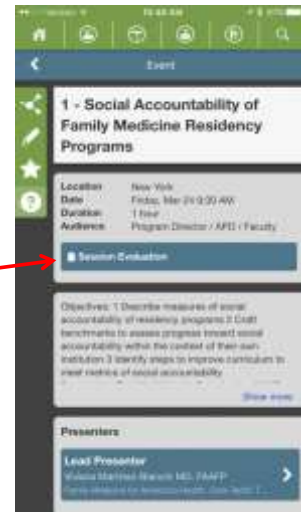
Everyone Else Bring Your Data

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Please...
Complete the
session evaluation.

Thank you.



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STRONG MEDICINE FOR AMERICA