

Managing Product Development in Healthcare with Visual Management (Obeya)

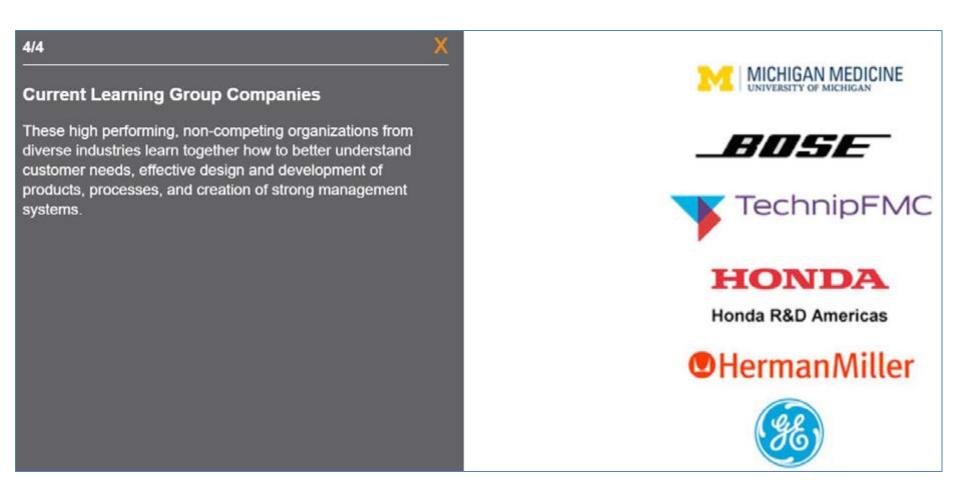
LPPD Designing the Future Summit June 27 and 28, 2019

Paul Paliani, Ian Perry, Matt Zayko

1) Clinical Design Product Development Process



LPPD Learning Group (Apr 2017 – Jan 2018)



LPPD Enablers and CDI

Topic	CDI Learning Level
PDVSM (Program Development Value Stream Mapping)	1 2 3 4 5
Obeya	1 2 3 4 5
Design Reviews	1 2 3 4 5
Milestones	1 2 3 4 5
Study Phase	1 2 3 4 5
Concept Paper	1 2 3 4 5



LPPD Principles

"A predictable schedule"

"Go slow to go fast"

"You can't manage a secret"

"It's ok to be red, it's not ok to stay red"

"Protect the milestones"



Clinical Design Product Development Process

Study Phase

"Go slow to go fast"

Readiness Assessment (H&P)

- Target service
- Define team member expectations (commitment) & roles
- Identify core team and patient population, engage core team

Pathway
Development &
Gap Analysis
(Diagnosis)

- Understand current state
- Identify improvement opportunities
- Prioritize opportunity efforts
- Define Key Metrics

Subgroup Readiness (Treatment Plan)

- Identify subgroup team members & commitment
- Define/ Validate subgroup goals & objectives

Execution Phase

RCA/ Countermeasures/ Implementation (Treatment)

- Define the root cause of the problem
- Develop work plan & goals
- Pilot
 "experiments"
 in an iterative
 process
- Implement the future state
- Develop monitoring strategies & integrate into DMS

Graduation & Handoff (Discharge)

- Transfer
 ownership of
 processes &
 products
 created during
 "treatment
 phase" to
 Program
 Process
- Sustainment tools given (ex: key metrics dashboard)

Owners

Sustainability (Follow-up 6 months post D/C)

- Periodic
 "check-ins"
 with subgroup
 process
 owners
- Coach process owners to be problem solvers
- Modify interventions as necessary

"Process as Product" (Design Reviews)



Clinical Design Engagement Timeline

C	inical Design Engage	ment - Tim	eline Overvie	w		
	Program Phases		Time	Meeting Cadence	Who involved	Goals
0	Program Intake	Referral	Variable	Conversations	Dr. Marentette, Paul, and program faculty	Define program engagement, leads, and determine readiness
1	Scoping: Readiness Assessment Observations, Interviews, and Gather Data	H&P	2-4 months	2-6 meetings; observations as needed	Physician Lead, Dr. Marentette, Paul, PM, IE, PO, Analyst	Formalize program engagement, leads, and determine readiness
_	Pathway Development & Gap Analysis	Diagnosis	3 Months	6-7 meetings	Core Team	Understanding current state and identifying problems
3	Subgroup Readiness	Treatment Plan	2 Months	2-3 meetings	Physician Lead, Nurse Lead, Process Owner	Define expectations of subgroups and strategy, create alignment on program goals and focus
4	RCA / Countermeasures / Implementation	Treatment	7 Months	Kickoff, Subgroup kickoffs, Phase 4 Mid-Point Check-In, Ongoing subgroup meetings	Program leads, core team, and others as needed	Draft deliverables, pilots defined, pilot implementation, PDCA, final deliverables, handoff to Process Owners in meetings
5	Graduation	Discharge	1 Month	1 meeting (Larger group)	Graduation: Program leads & Core Team, Subgroup Members	Highlight subgroup work, communicate final deliverables and ongoing points of contact
6	Sustainment	Follow-up	First 6 Months Post Graduation	Periodic check-ins at discretion of PM	PM & process owners	Ensure success of implemented work
		Total:	15-17 months			



2) Clinical Design Obeya Management System



How to Get Started

- 1. What team project or challenge are you trying to solve?
- 2. Where can you post information?
 - Find a space be creative
- 3. Can you carve out 2 to 4 hours to work as a team to start building your Obeya? (It's a team activity)
- 4. Are you willing to treat this like an experiment?
 - Deciding what to put on your Obyea (and how to display it) will change over time
 - Get started with "stand-ups" they may be clunky at the beginning
- 5. Can you schedule in a 10 min reflection after every other Stand-up?



LEI Blog Posts

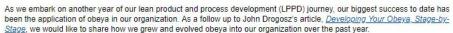




by <u>Andy Houk</u> August 15, 2017

low Obeya Improved Our Product Development Efforts

0 Comments | Post a Comment | Permalink



We are a part of TechnipFMC, an oil and gas service and equipment provider. Our business unit, Schilling Robotics, where this journey is taking place, designs and manufactures the remotely operated vehicles (ROVs) that are used to assemble sub sea oil and gas infrastructure. At the Schilling Robotics business unit, we have a long history of highly complex engineered products and we are very familiar with <u>conventional</u> project management tools and techniques for running such projects. In March of 2016, we started an experiment using obeya on our latest development project to see if we could improve our product development performance.

At the start of the year, the development team created their obeya in a high-traffic area near the critical mass of the product development team. The visual schedule was the first element to be created on a blank wall, so everyone could understand the overall value stream and identify their key issues related to schedule. Shortly after the schedule went up, space was given for sub groups to post what they thought was most relevant to share with their team members.

Early in the project, the biggest benefit was the increase in organizational alignment. We define "alignment" as people knowing exactly what they must do to achieve their next goal. This was achieved via:



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Developing Your Obeya, Stage-by-Stage by <u>John Drogosz</u> August 2, 2017

1 Comment | Post a Comment | Permalink



In my travels I have coached many teams through the <u>obeya</u> process and have seen that while each team's journey is somewhat unique, most teams do go through several stages of evolution before obeya becomes an embedded ritual.

Rationalizing: Do we really need this?

For many, just getting started on the journey can be a challenge. With all the project management tools, meetings and professional project managers involved in product-development projects today, many teams question upfront whether they really need obeya. It seems like an overlap as many say:

- . "We already have all that information online that everyone can access."
- · "That is the project manager's job."
- "We already have too many meetings."
- "Our team is spread out all over the place so why have a space?"

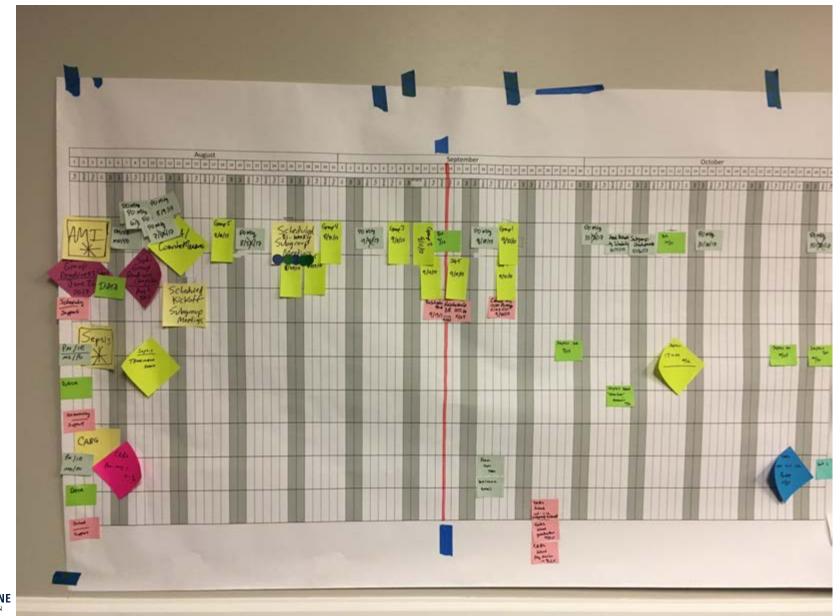
Others have also balked about past times they used war rooms for key projects, only to have the obeya end up a dog-andpony show for senior managers and a time-drain for the people.

So the first step is to work with the team to define what team challenges they are trying to solve and how the obeya fits the situation in question (sometimes it will not and that is okay). However, despite all the tools, meetings and managers involved, most large teams still struggle with the fundamentals of projects – staying aligned, escalating issues, rapidly solving problems and making decisions in a timely manner. So, the first step is for the team to identify how obeya can help them improve the

https://www.lean.org/LeanPost/Posting.cfm?LeanPostId=771 https://www.lean.org/LeanPost/Posting.cfm?LeanPostId=765

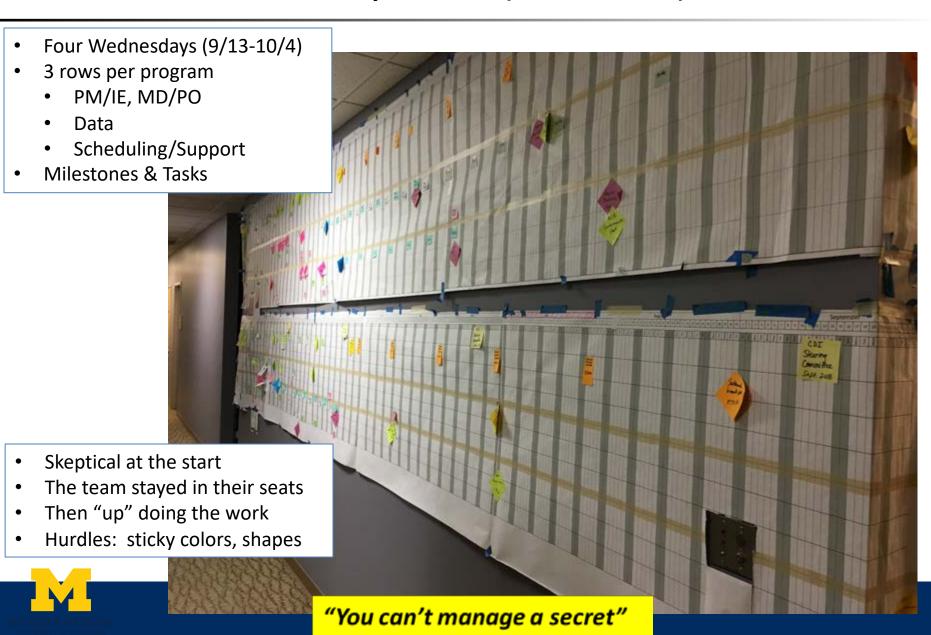


Obeya Experiment (9/13/17 - 10/4/17)





Obeya v1.0 (10/15/17)



Obeya v2.0 (Feb. 2018 - June 2018)



- Maintain the weekly standups
- Post timelines every week
- Continue to "get reps" on the process

- Separate timelines for each program
- Four months per scroll
- Four rows* (added overall program row, PM/IE/MD/PO, Data, Support)
- Co-locate between two buildings
- "Obeya" is more than the timelines



Obeya v3.0 (June 2018 – May 2019)



Obeya v3.0





Walk Through – Sample CDI Obeya

- 1. Station 1
 - v1.0 Program Schedule
 - Key/directions/rules
- 2. Station 2
 - v2.0 / v3.0 Program Schedules
 - Red Card area
- 3. Station 3
 - Game Plan wall



3) How Clinical Design Develops Products



Design Reviews

1 2 3 4 5

Start Design Reviews "subgroup meetings"

Readiness Assessment (H&P)

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Design Review Experiments

1. Technical Design Reviews

- Biweekly subgroup meetings
- Root cause analysis, countermeasure development, product (process) development, prototypes

2. Integration Design Reviews

- Biweekly program level meetings
- Alignment, create product (process) launch plans, control plans

3. Summary A3 Reviews

- Monthly intra CDI meetings (Larry, Paul and Mary)
- Align to CDI processes, address barriers, suggest connections



AMI Technical Design Review Missions

1. Update and improve distribution of ACS patient education to AMI patients

2. Improve Cardiac Rehab referral rates for all eligible AMI patients

3. Improve transitions of care for AMI patients



AMI GAME Plan

Goal - Aim - Metric - Effort



Outcome Goal:

Reduce 30 day AMI readmissions from 17% to less than 13% by Sept. 1, 2018

Process Aim:

By Dec 1, 2018, distribute updated patient education folder to 80%+ AMI patients

Process Aim:

By Sept 1, 2018, refer 100% of eligible STEMI & NSTEMI Type 1 AMI patients to cardiac rehab

Process Aim:

By Sept 1, 2018, 90% of eligible STEMI & NSTEMI Type 1 AMI patients will receive a follow-up appt. within 14 days of hospital discharge

Effort #1

Update the ACS patient education folder so it contains updated, accurate, and applicable information for patients Ensure folder

matches MiChart education module and is also available on the **Clearing House**

for maximum use

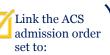
Metric

receive pt edu

folder

% of AMI pts who

Effort #2



- A nursing order to distribute the folder The ACS
- **CPG**

Metric

% of AMI pts who have ACS CPG

Effort #1

Create automatic referral to cardiac rehab based on problem list

Effort #2

Extend expiration date of CAR100 to 1 year, to maximize number of patients who attend; this also

matches CMS

Effort #3

Create verbiage to auto-populate in discharge summary if patient is not referred

- Provider to give reason why patient not referred · Allows us to
- understand acceptable exceptions

Effort #1

Create AMI Discharge Checklist

Post checklist on 7th floor workroom monitors Monthly meetings with

- new Residents for education of processes Education for
- Attendings prior to Rounding on service

Effort #7 Effort #2

start times

7C

Standardize APP clinic 8am & 1pm

Effort #5

Create NSTEMI &

Effort #6

Bridge patients

10am & 2pm M-F

Block appt. slots for

STEMI Post-Discharge

Appt. process from 7A-

Metrics

% of AMI pts who are referred to cardiac rehab

- % of AMI pts who would have been referred if coded correctly
- Referral rate by d/c service
- Days from d/c to order
- % of AMI pts who attend Michigan Medicine's Cardiac Rehab
 - Days from order (or d/c) to first rehab session
 - Number of sessions completed

Days from first to last session

Effort #3

Create AMI Discharge

Summary Dotphrase

Interventional Cardiology to own uncomplicated **STEMIs**

Effort #4

Create STEMI Post-Discharge Appt. process from CCU

Effort #8

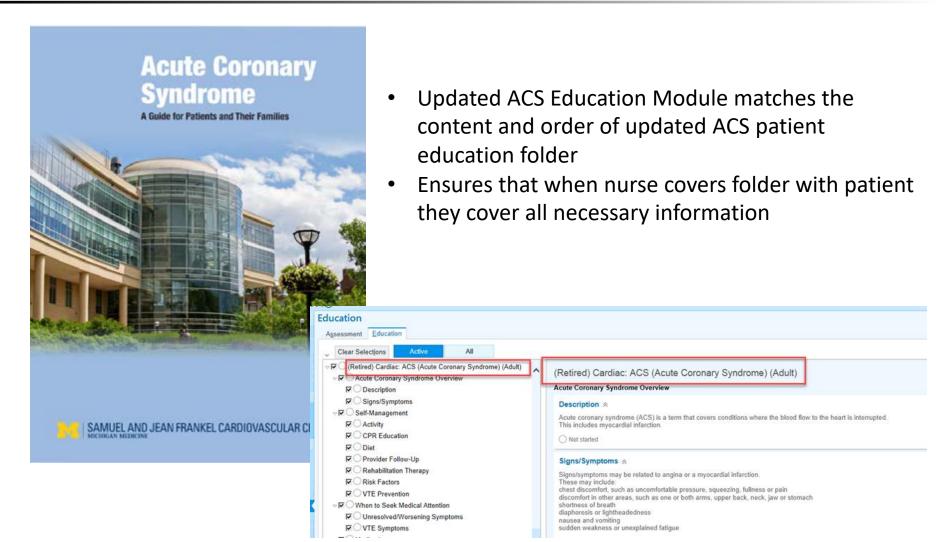
Manual phone calls to APPs Patients & new patients for Providers at DF

Metrics

- % of AMI pts who received F/U appt. within 7-14 days of discharge
- No Show rates for Physicians & Nurse Practitioners at DF
- Blocked Bridge appt. slot utilization
- · % of .amidischarge usage % of discharge orderset usage

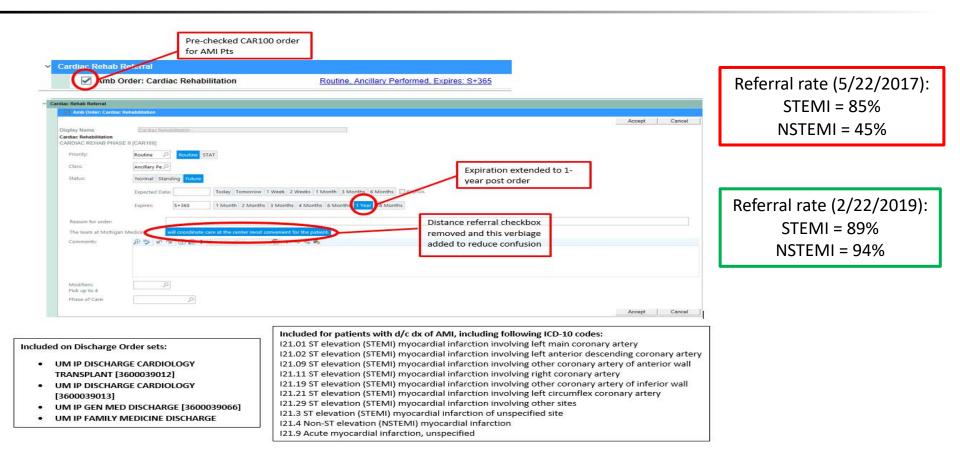


ACS Patient Education





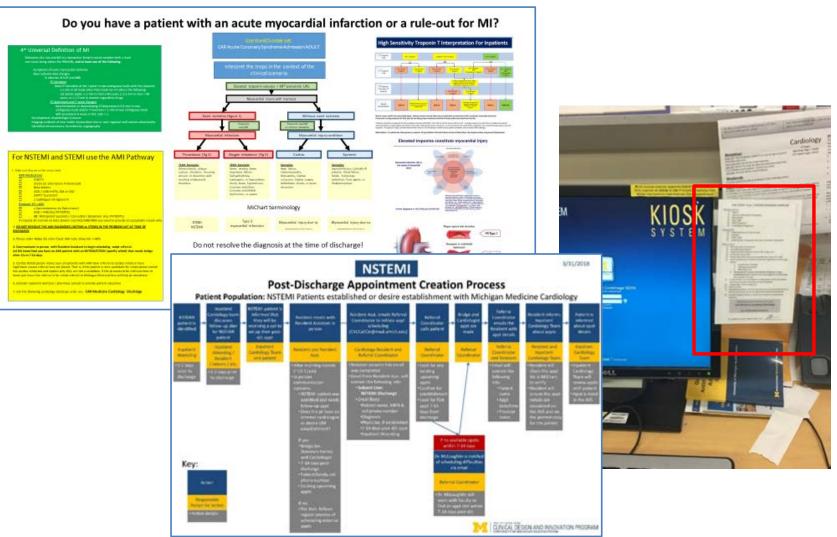
Cardiac Rehab Referral



New ICD10 code allows for easy separation of NSTEMI Type 1 vs. 2 (October 2017)

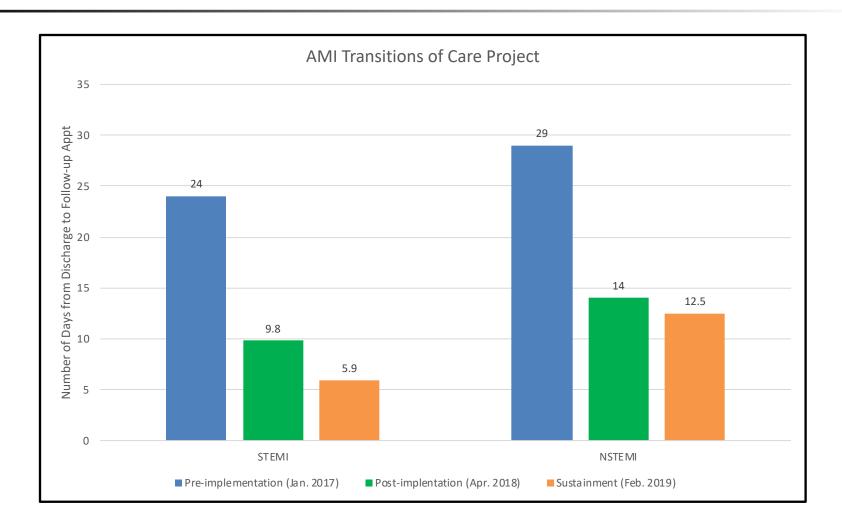


Monthly Resident Education meetings



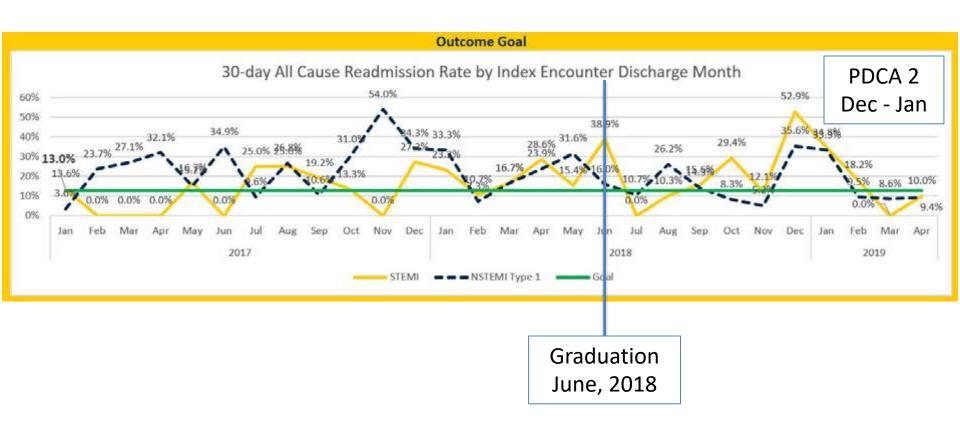


AMI Time to Follow-up Appt.



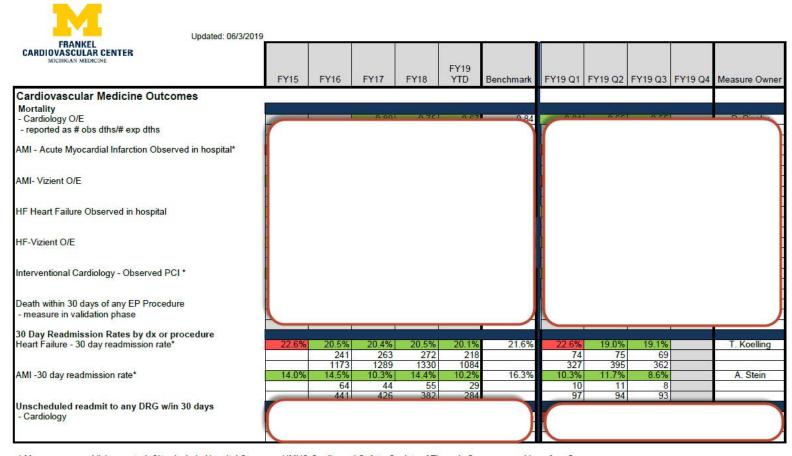


AMI Readmission Rates





AMI Readmission Rates – FCVC Dashboard



^{*} Measures are publicly reported. Sites include Hospital Compare, UMHS Quality and Safety, Society of Thoracic Surgeons, and Leapfrog Group

Achieved or exceeded Target

Improved from previous value but did not achieve Target
Declined from previous value and did not achieve Target

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Control Plan

Outcome	Process Aim w	Effort/Product/ Deliverable *	Product "Go Live" date	Responsib	Metricji) to Monitor 🕌	Location of Metric 🕌	Review Frequen	Sustainment Activity	Metric Goal _	Control Limits of Me	Reaction Plan		
		energy reside	2016/2010	Diane Lopes	% of AMI patients that receive	Quality Analytics Report & information from 811's	3.000.000.00	*Diane and Bethany to review data together	9888	536	*Orscuss with firs about ACS book delivery to patients		
	By Dec. 1, 2018, distribute updated patient education folder	ACS Patient Education Book	11/19/2018	Bethany Lea- Lebner	the ACS book	team on number distributed	Monshiy	*If data 490%, then go to reaction plan.	100%	190%	*Ensure books available on the floors		
	to 90% of AMI patients	Link ACS book to Nursing order- CPG	9/27/2018	Diane Lopes	% of AMI patients that have documentation in MiChart	Quality Analytics Report	Monthly	*Olane review data *If data 490%, go to reaction gian	100%	490%	Discuss with SNs about documenting ACS education		
		Automatic referral to cardiac rehab based on problem list	11/29/2017	isseph Bryant & Sam Fink	NisfAMI ptareferred to cardiac rehab	Quality Analytics Report	Monthly		100%	-90%	HITIM or NITIMI Type I go is not referred. I) Look to see if pt was coded at d/c. This information is included in report sent to J. Beach & A. Stain. They will review.		
	By Eags. 1, 2016, refer 100% of eligible 17EMI & NITEMI Type 1 AMI patients to cardiac rehab	Cardia: Rehab Desphrase for Non- referral	4/11/2018	Joseph Bryant & Sam Fink	Informs above metric	Quality Analytics Report	Monthly	"Jeceph IS team) review data "If data 490%, go to reaction glian	100%	904	2) If of coded at c/c, look to see if walld reason given (likely included in c/c summary despituse. If not, chart review may be needed). 3) If yt coded at c/c AND no valid reason not to refer, reach out to discharging provider.		
		AMI Discharge Checklist with monthly educational meetings for new Residents	5/4/2018	Dr. Adam Stein	Educational meetings completed (Y/N)	Anecdotal	Monthly	*Continue to gather feedback and updates on cards and educational meetings	Y		Replace laminated can'ts with updates as needed		
		AMI patients discharged on correct medications	8/9/18 Enhancements 1/11/19	Dr. Adam Stein & Jamie Beach		Clacharge AMI Meda workbench report in MiChart	Monthly	*Dr. Stein & Jamie to review data *If data <90%, go to reaction plan	100%	490%	If AMI patients not being discharged with correct meds, chart review will be completed. Or. Stein will stress medications during monthly orientation meeting with Residents.		
		AMI Discharge Summary	5/4/2018	Drs. Adam Stein	Nof patients have the		Quarterly	"Reach out to NPs to see if inpatient info is in Discharge Summary for next Provider	100%	90%	*Reconvey to Residents during monthly education		
		dotphrase	3/1/2018	Or. Raymond Yeavy	dotphrase on discharge summary	Quality Analytics Report	Querterry	appt. *If not completed, go to reaction plan	300%	958	*Contact MiChart to update content, if needed		
uce 30 day AMI		AMI patients with follow-up appt.		Dr. Adam Stein	N of AMI pro with f/up appr		267520	*Or. Stein, Nancy, and Ashley		5577	*Or. Stein to allert Kell Delvries Add referral to AMI bridge clinic to discharge orderset		
ssions from 17% to an 13% by Sept. 1,		scheduled prior to discharge	4/1/2018	Nancy Dixson	scheduled prior to d/c	Quality Analytics Report	Monthly	to review data together "If 480%, go to reaction plan	90%	480M	(Titlery vs. BRIDGE vs. PICCOLO) Populate AVS with educational info re: value of follow-up Create script for Ashter re: value of bridge clinic follow-up		



4) Product/Process Planning Exercise (scope a product to dev) (create a mini program schedule) (hands on – need sticky notes, pens)



LPPD Activity

LPPD Designing the Future Summit

Lean Product & Process Development (LPPD) Thought Exercise

Name: Heidi Organization: Michigan Medicine (CDI Team)

The Product or Process to be developed is....

Automatic Cardiac Rehab referral

Who needs to be on the team to create the process?

CDI team: Project Manager and Industrial Engineer

Clinic-Level: Lead Physician, Process Owner

MiChart Support

The Obeya Space where we will visually manage the work for the product will be located....

Phase 1: Green Road Hallway near Project Manager area

Phase 2: 777 building near Industrial Engineering area

Phase 3: North Ingalls Building near relocated Project Manager area

For your "product", what are the critical *milestone points* to determine on target vs. not on target

* Current state of cardiac rehab referral - how is it done now?

Finalize list of diagnoses to trigger cardiac rehab referral

What discharge ordersets contain the cardiac rehab referral

- * Future state map what do we want it to be?
- * MiChart programming complete
- * MiChart "Go Live" for cardiac rehab referral

LPPD Designing the Future Summit

Lean Product & Process Development (LPPD) Thought Exercise

Name:

ne Product or Process to be developed is
/ho needs to be on the team to create the process?
no needs to be on the team to create the process:
ne Obeya Space where we will visually manage the work for the product will be located
or your "product", what are the critical <i>milestone points</i> to determine what is "on target" vs. not "on target"
*
*
*
*
*



LPPD Exercise for Participants

- Step 1: From top to bottom, Individually complete the exercise template for your own situation (8 minutes)
- Step 2: At your table, three people quickly share their template (6 minutes)
- Step 3: Three tables volunteer to share one template to with the audience (6 minutes)



Questions?



Appendix



Mini Obeya Calendar

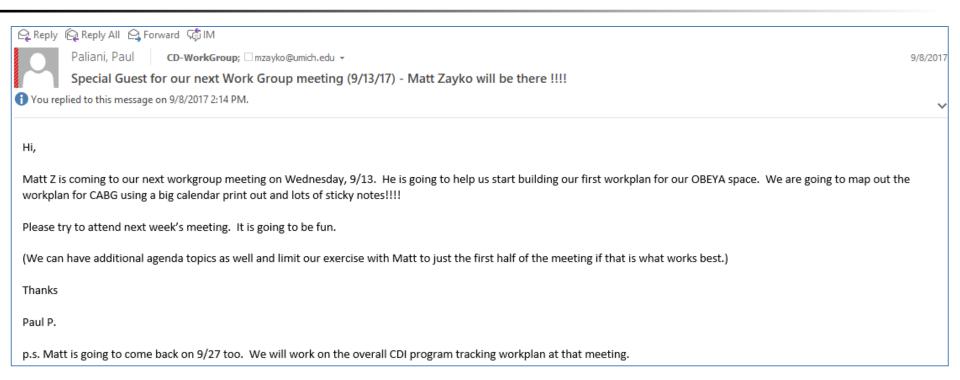
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	Tue	Wed	Thur	Fi	Mon	Tue	Wed	Thur	F.	Mon	Tue	Wed	Thur	Ë	Mon	Tue	Wed	Thur	Æ	Mon	Tue	Wed	Thur	Ë	Mon	Tue	Wed	Thur	F	Mon	Tue	Wed	Thur	Ë	Mon	Tue	Wed	Thur	Fri	Mon	Tue	Wed

How to Get Started with Obeya

- 1. Create a timeline
 - Dates across the top
 - Functions/swim lanes down the side (e.g. we stared with 3, expanded to 6 later)
- 2. Gather supplies
 - Sticky notes
 - Sharpies
- 3. Pull together a team with a project or a deliverable
- 4. Think of an upcoming Milestone (e.g. an important meeting, a deadline)
 - How can you measure if the meeting/deadline was "successful"?
 - Put this check list with the Milestone
- 5. Lay out the tasks (aligned to the functions) that would help make the Milestone successful
 - If you don't know, make a list of tasks that will help you figure this out ("Traveling Hopefully")
- 6. It's okay to go backwards in time a bit
- 7. After you create a timeline ("program schedule"), start having "standups"
- 8. Do reflections after every other standup
- 9. Refer to LEI Blog posts on Obeya, and reach out to LPPD leads for advice



Obeya Experiment



Building our Obeya

- Four sessions (regular Wednesday Workgoup meetings, 9/13, 9/20, 9/27 and 10/4, 2017)
- Decided to combine the "overall tracking" and "individual tracking" on to one workplan
- Started with AMI, laid out six programs over four sessions
- Added "supplemental Obeya" with four more programs

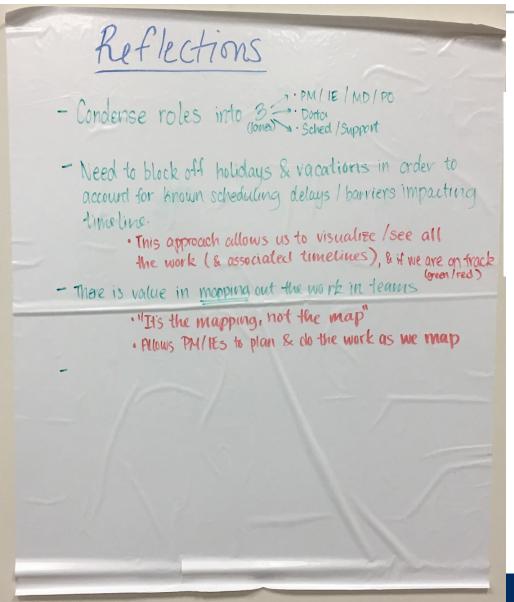


Obeya Experiment (9/13 - 10/4)





Obeya Experiment Reflections (9/13 – 10/4)



- Condense functions/roles into 3
- Adding the dimension of "time" to our work
- Value in "making" the plans



PDCA'ing our Obeya and Standups

v1.0 (Sep 2017-Feb 2018)

- Just get started
- Pick a topic "program"
- Dates across the top
- People/Roles/functions down the side
- Start at present time and work forward, or start with a deadline and work backwards
- Don't worry about the sticky colors/shapes
- Being able to "see" the tasks across time
- Working on the "map" was beneficial
- Have a facilitator, scribe, time keep for standup
- 3 min/program (2 min uninterrupted, 1 min questions)

v2.0 (Feb 2018-Jun 2018)

- Separate timelines
- Mobile Obeya
- Focus on Red items
- But, lose track of what's red and/or how long it's red
- Inconsistent timelines, confusing to guests
- Obeya is more than program timelines
- Getting in "reps"
- Never cancel standup

v3.0 (Jun 2018-May 2019)

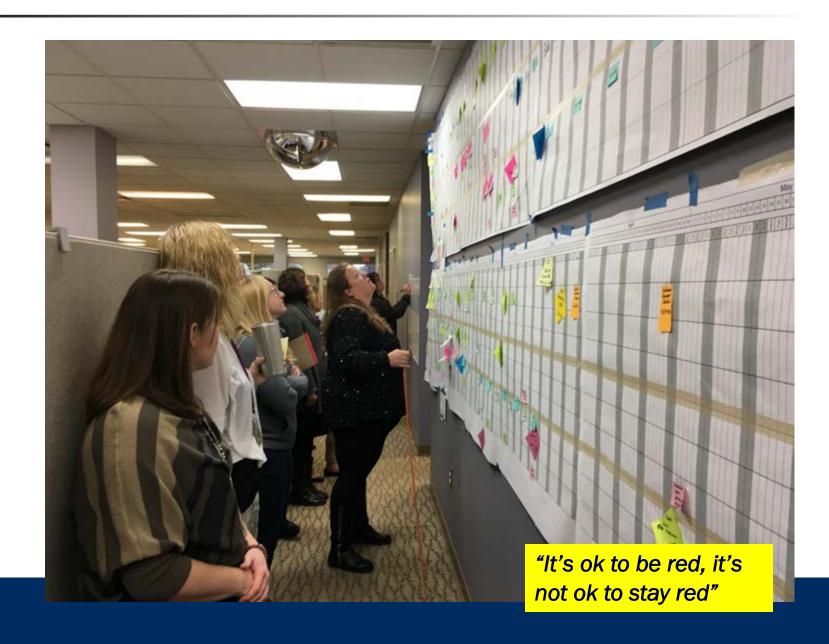
- Standardized timelines
- Sticky colors match program phases
- Same roles/functions per swim lane row
- Added "Pokemon" cards for programs
- Documented standup "rules" for guests and team
- Added program "walls"
- Invented "red card" system for standup
- "Traveling Hopefully"

v4.0 (Jun 2019)

- United timelines and program walls
- Script for standup
- Visual accountability board

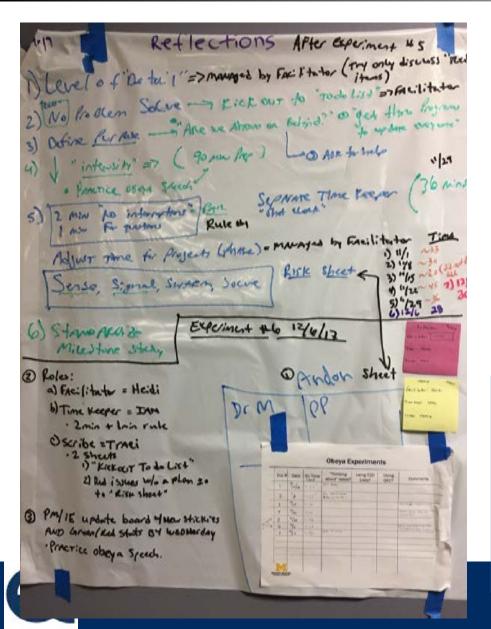


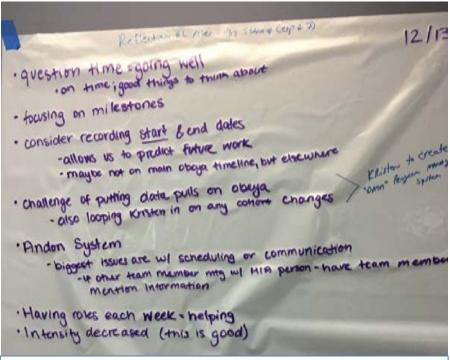
Obeya Standup v1.0 (11/1/17)





Reflections (after every other Stand up)





Rules/Updates:

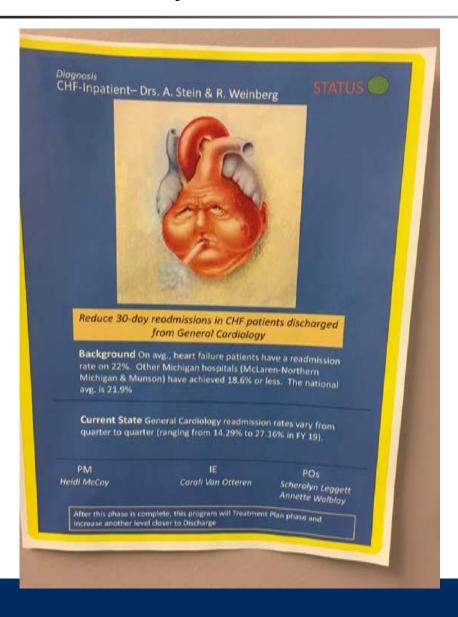
- Have facilitator, scribe and time keeper
- 3 mins per program (2 mins uninterrupted)
- Focus on "red" and explain "plan to green"
- Andon system: quick problem solve if possible, otherwise note on sheets
- Can add "something to celebrate" from previous week

Key – Start Here Area





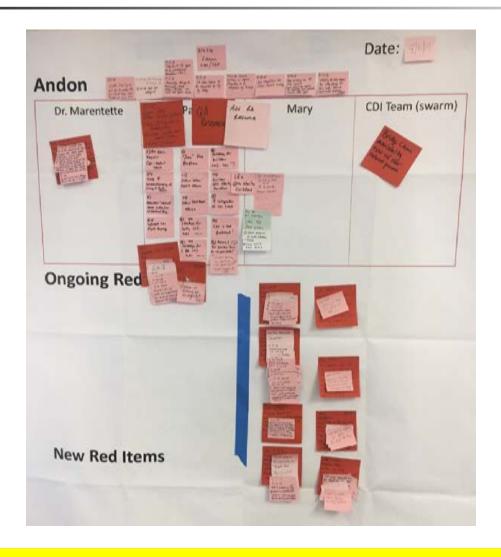
Obeya v3 – Pokémon Cards



- Provide context and snapshot in time for each project for visitors who don't have access to Project Manager or Industrial Engineer
- Fun way to associate each program with a picture



Obeya v3.0 Red Card (Andon) System





Red Card Pareto

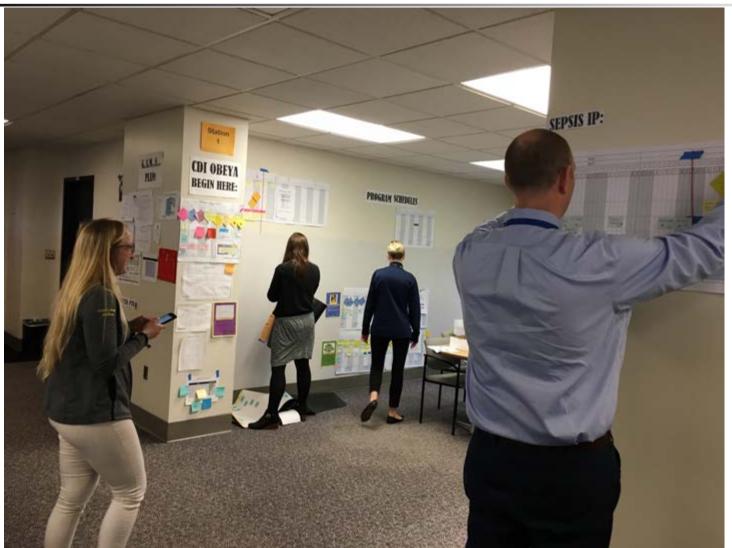




Virtual Walk Through of CDI Obeya (v4.0) (appendix – handout UM bling prizes)

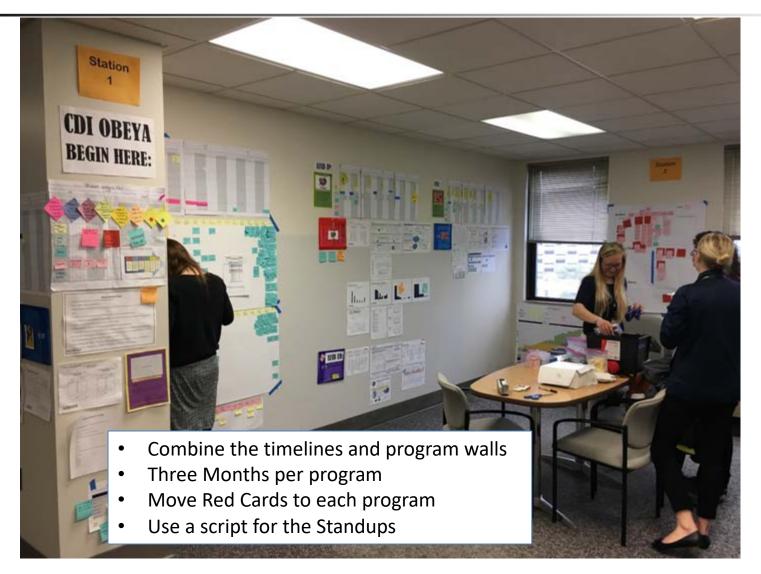


Obeya v4.0 Remodel (May 29, 2019)





Obeya v4.0 (June 12, 2019 – Present)





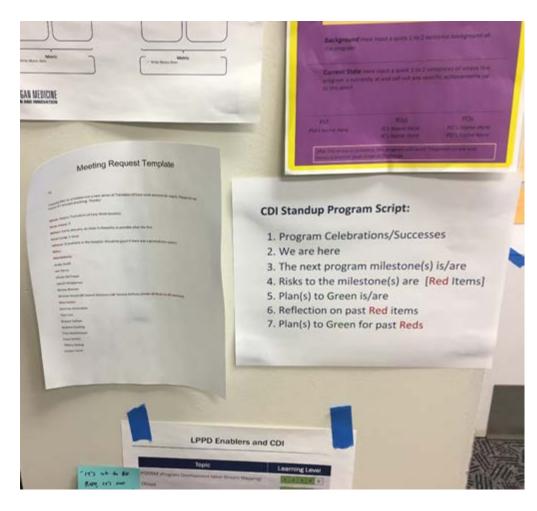
Obeya v4.0





Obeya v4.0





LPPD Blog Posts

- 1) https://www.lean.org/LeanPost/Posting.cfm?LeanPostId=771
- 2) https://www.lean.org/LeanPost/Posting.cfm?LeanPostId=765
- 3) https://www.lean.org/LeanPost/Posting.cfm?LeanPostId=952
- 4) https://www.lean.org/balle/DisplayObject.cfm?o=4968



Study Phase



Pre 1: Scoping

Patient population/metrics/commitment

Pre 2: Core Team Formation

ID people/go-sees/review initial data

Work session 1: Kickoff/Visioning

Describe whole process/1 year timeline

Work session 2: Pre-mapping

SIPOC / review metrics

Work session 3: Value Stream Mapping

Current state / High Level

Work session 4: Improvement Opportunities

Things working, not working, barriers

Work session 5: Prioritization

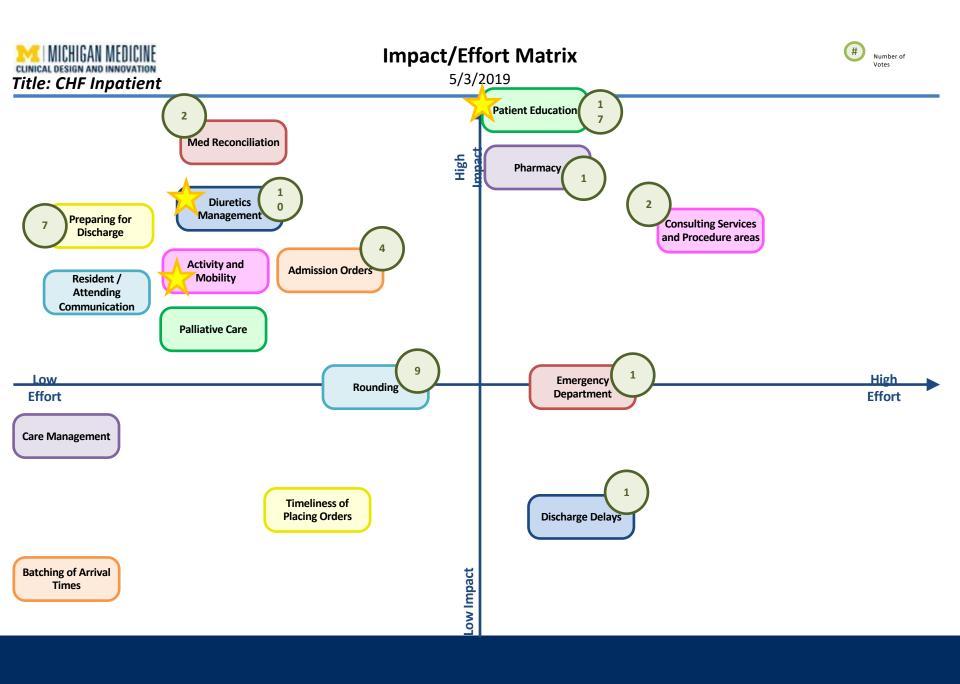
Impact Effort matrix, vote

Work session 6: Work Plan

ID subgroup Leads

Work session 7: Subgroup Readiness

Kickoff, Design Review cadence



Heart Failure Inpatient Subgroups

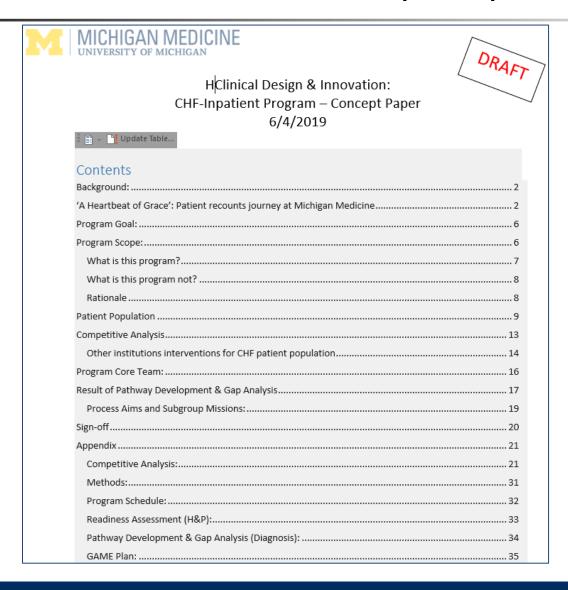
1. Healthy STRIDE Program (increase activity while inpatient)

2. Improve Patient Education

3. Improve Diuretic Management



Heart Failure Concept Paper





What is Clinical Design & Innovation?

 A standard approach to measure and improve value for an episode of care (e.g., total joint replacement, congestive heart failure, CABG)

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Value <u>Appropriateness</u> X Cost
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- The CDI team works with engaged clinicians to measure and understand clinical variation
 - The CDI process brings together all individuals in the health system that touch patients across their specific episode of care to discuss problems and potential solutions
- Once solutions are identified, CDI staff helps implement them



Mission/Vision/Principles/Core Competencies/Behaviors

Mission: To establish partnerships with clinical programs to maximize the value of the patient journey.

Vision: To lead clinical programs through the creation of sound processes and products to ensure

sustainable value. Value = Appropriateness x Outcomes/Cost

Principles:

- We utilize and build upon previous work as a foundation.
- We drive change by integrating financial, operational, and clinical data.



Core Competencies:

- Patient Care Pathways (Health Literacy)
- Integration/Connections/Collaborations
- Dashboards
- True Variable Direct Costs

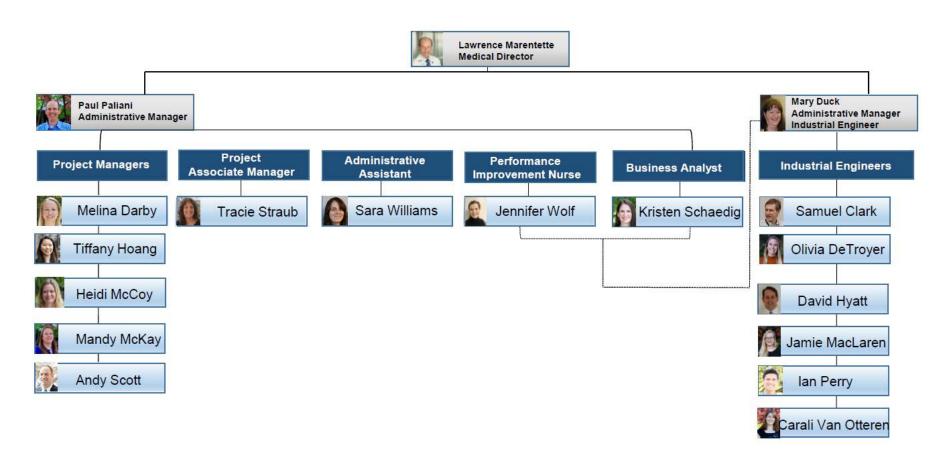
Behaviors:

- We don't go away
- We finish stuff
- We are making "normal", "abnormal"
- We try to be nimble and agile
- 3) We focus on the entire patient journey, from first encounter to last encounter.



- 4) We consider all processes from our patients' perspectives.
- We observe, interview and learn about actual patient care and staff work.
- We work through a phased scientific method approach.
- We create multidisciplinary core work groups from the care teams, which include clinical, administrative, and support staff.
- 8) We work across the Clinical Enterprise by breaking down silos, reducing barriers, and connecting people.

CDI Team



Updated 4/25/2019

CDI Programs



CDI Programs

	Program	PM/IE	Lead(s)	Status/Results
1	Orthopaedic Surgery	Heidi / Ian	Drs. Maratt, Urquhart	New cadence of Process Measurement Days to be determined from Surgical Triad and MPLAN Partners.
2	Afib-ED	Mandy / Jamie	Drs. Somand, Wesorick	Patients now being seen by EP Attending as of 1/2/19. Sent 30 ED and 33 MSSU Referrals since 1/2/19.
3	Colorectal	Mandy / Carali	Dr. Regenbogen	Implemented the Enhanced Recovery Program (ERP). SSIs have reduced from 6% but have not yet consistently been below 2%.
4	Head & Neck	Mandy / Carali	Drs. Prince, Malloy, Casper	Readmissions have trended below 8% as of October 2018. Average length of Stay has trended below 7 days but has not consistently been below 5 days.
5	Mitral Valve	Melina / Ian	Dr. Bolling	Determined direct variable costs and used as a methodology for the Cost Analytics and Decision Intelligence (CAnDI) project
6	Afib-IP	Mandy / Jamie	Drs. Wesorick, Oral, Froehlich	TEE/DCC IP Order Live 12/19/18, IP EP Consult Order Live 3/27/19. Roll out of IP CARDS Consult Order, ED Consult Orders, IP Clinical Pathway and D/C Follow Up Process TBD (coming soon). CVC D/C Follow Up Referral Smart Set and Call Center Work Queue live 4/1/19.
7	AMI	Heidi / Carali	Drs. Gurm, McLaughlin, Stein	Follow-up appointments available 14 Days from hospital discharge.
8	Sepsis-ED	Andy / Olivia / Ian	Drs. Co, Kronick	Launched detection, notification and treatment process, May, 2018. PDCA 4 – refine tools w/ new patient def
9	CABG	Melina / Jamie	Drs. Patel, Deeb, Haft	Support Coach and discharging to home expectations; OR efficiency "quick wins"; PT and Care Management during H&P pilot discussions

CDI Programs

	Program	PM/IE	Lead(s)	Status/Results
10	Patient Reported Outcome Measures	Heidi / Ian	Drs. Maratt, Talusan, Grant	 14 weeks Post-"Go Live" for PROMIS CAT at South Main Orthopaedics. 70% of patients signed up for Portal, started at 63%. Developing exclusion criteria for questionnaire assignment process to exclude appropriate patients. New physicians at Domino's Farms identified. Define current state for each physician
11	Sepsis-IP	Andy / Ian / Olivia	Dr. King	 Launched detection, notification, treatment process, March, 2019 Two units (5B, 6B), implemented Epic Predictive Model, Determining timing to spread to other units
12	Sepsis Health Catalyst	Tiffany / Olivia / Ian	Dr. King	 Patients who meet the Sepsis Surveillance definition now have a flag Tableau Dashboard nearly complete
13	Epic Pathways	Melina / Olivia	Dr. Regenbogen	Epic Clinical Pathways was approved for concept by ITO&M
14	Congenital Heart	Mandy / Jamie	Drs. Owens, Romano	 Implementing Case Request Order Set changes, Procedure Pass, quick wins for pre-op day of procedure work group including standard line set up for anesthesia, and several others for procedure including only using core door except for patient in/out and surgical team scrub in. Developing SSI prevention patient/family education with SMEs.
15	Heart Failure Inpatient	Heidi / Carali	Drs. Hummel, Koelling, Stein, Weinberg	 Prioritizing opportunities of improvement for future workgroups. Beginning pilots in Healthy STRIDE program
16	Heart Failure Outpatient	Tiffany / David	Dr. Shea	 Core Team Formation Meeting on May 14 Entering Phase 2 soon thereafter
17	Colorectal Epic Clinical Pathway	Melina / Olivia	Dr. Regenbogen	 Out-patient & peri-op have determined pathway specifics; inpatient is currently working, with final session on June 6th Program will then go to ITO&M for definition approval

What's Next for CDI

- Work with LPPD in FY20
 - Focus on Concept Papers (alignment during the study phase)
 - Milestones (improve our management system)
- Document our "Return on Value?"
 - Categorize each product's influence on Appropriateness,
 Quality and Cost

