

Certificate Training Program Session 2

Welcome!: Before We Start

Sign-in at the back

Pick up agenda

Sit with your CTP team at your assigned table



Institute for Healthcare Quality,
Safety and Efficiency

SCHOOL OF MEDICINE

UNIVERSITY OF COLORADO **ANSCHUTZ MEDICAL CAMPUS**

Oasis



Ground Rules

To make this the most productive environment for collaboration and growth, we should . . .

- Commit to being present
- Support each other
- Be engaged
- Be selfish – protect the oasis
- No electronics except for course notes, urgent needs
- Step out as needed
- Be vulnerable
- Respectfully challenge each other
- Make room for multiple voices
- Be transparent
- OK to share themes, lessons – not details
- Start on time, end on time
- Use microphones
- Celebrate each other
- Give ourselves grace
- Have fun





Leadership Framework: Kotter

Leadership = Vision + Tasks + Relationships

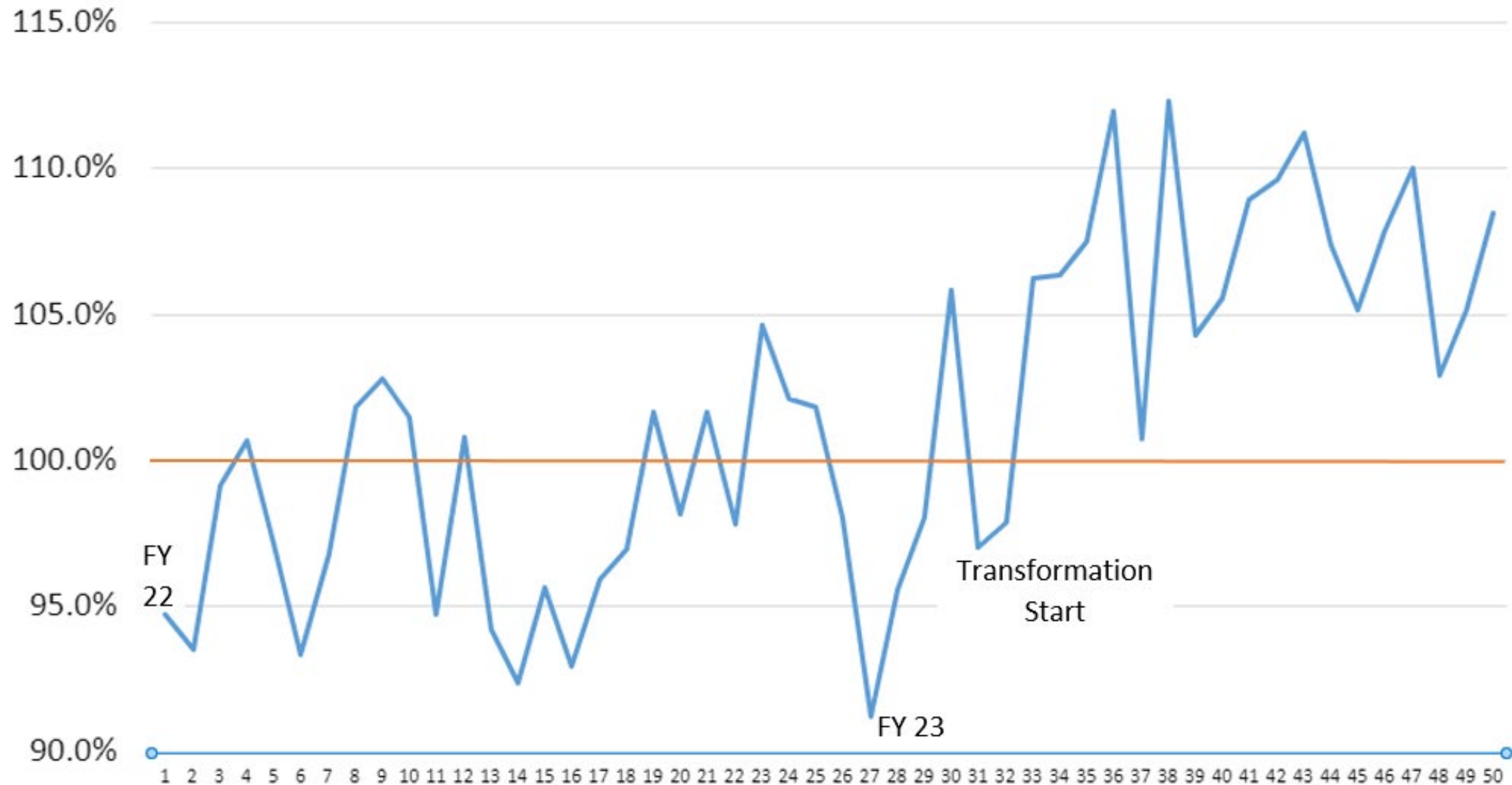
$$L = V + T + R$$



How Clinicians and Leaders Differ

Clinicians	Clinician Leaders and Executives
Doers	Planners and designers
Deciders	Delegators
Value autonomy	Value collaboration
1:1 interaction	1:N interaction
Patient advocate	Population, organization advocate

Weighted Average Productivity



Curriculum Overview

KEY
Team Check-in
Inspiration
Background
Process Improvement
Leadership
Quality/Safety
Coaching
EMR

8/20	#1	Welcome	Beginning with the End in Mind	Objectives & Introductions	Overview	Leadership Defined	Team Norms	Understand Process	
8/27	#2	UCH Sleep	Thriving as a Leadership Imperative	Value Defined	Introduction to Quality Improvement	IHQSE Model of Change	Coaching	Understand Process	
9/3		Coaching							
9/10	#3	CHCO Secure Chat	Investigate the Problem	Problem Statement	Voice of the Customer	Process Mapping	Stakeholder Analysis	EMR Process & Data	Baseline data
9/17		Coaching							
9/24	#4	UCH Multidisciplinary Pain Clinic	Investigate the Problem	Understanding Root Causes	Baseline Data	Business Case	Coaching	Baseline data	
10/1		Coaching							
10/8	#5	UCH Neurosciences	QI vs. Research		Leading Change				Baseline data
10/15		Coaching							
10/22	#6	DHA Antimicrobial Stewardship	Data Collection Plan			Myers Briggs			Process Optimization
10/28		Coaching							
11/12	#7	CU Medicine Dermatology	Leading Change: Vision		Understanding Business Drivers	Negotiating for what You Need	This Place Called Academia	Process Optimization	
11/19	#8	UCH Nursery	Leading Change: Sense of Urgency	DEI in QI		Wellness			Finalize Need
11/26		Coaching							
12/3	#9	UCH Infectious Diseases	Hone the Intervention	Identifying Your Intervention		Design Thinking	Positive Deviance	Leading Change Guiding Coalition	Finalize Need
12/10	#10	DHA Clinical Informatics	Leadership Journey: Tom Gronow	Aim Statement		Optimizing EMR Requests	Storytelling	Team Logo	Submit Ticket
12/17		Coaching							
1/14	#11	CHCO ICU Delirium	Alumni Presentation	Leadership Journey: Jena Hausmann		Pre-mortem Analysis	Leading Change: Awareness Campaign	Mid-year Report Overview	EMR Decision
1/21		Coaching							

KEY	Team Check-in	Inspiration	Background	Process Improvement	Leadership	Quality/Safety	Coaching
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Session	Topic	Key Question(s)	Assignment	Due
#1 Aug. 20	Beginning with the End in Mind: Alumni Presentation	What does successful participation in the program produce?	<input type="checkbox"/> Group Ground Rules <i>Review in coaching</i> <input type="checkbox"/> Complete Leadership Defined Self-assessment <i>Review in coaching</i>	
	Ground Rules & Course Objectives	How will we interact? What do we hope to achieve?		
	Overview	How will the program work?		
	CTP Team Norms	How do we develop a cadence for successful work?		
	Leadership Defined	What does it mean to be a leader?		
#2 Aug. 27	Team Check-in: UCH Sleep	Who are my colleagues?		
	A New Leadership Imperative: Systems Improvement & Workforce Well-being	How can leaders and systems improvement work improve well-being?		
	Value Defined	How is healthcare value defined?		
	Introduction to Quality Improvement	What are the common methods for improvement work?		
	IHQSE Model of Change	What is the IHQSE framework for change?		
Coaching				
#3 Sept. 10	Team Check-in: CHCO Secure Chat	Who are my colleagues?	<input type="checkbox"/> Complete Voice of Customer, Meet with Dr. Moksha Patel, Build Stakeholder Analysis, Complete Process Map <i>Due Oct. 22</i> <input type="checkbox"/> Develop Problem Statement <i>Due Nov. 12</i>	
	Investigate the Problem	How do I understand the problem I'm trying to solve?		
	Problem Statement	How do I quantify and scope the problem to solve?		
	Voice of the Customer	What does your customer/business want?		
	Process Mapping	How do I understand the steps in my current process?		
	EMR Process and Data	How does the EMR enable data attainment? What EMR changes do I need to make to complete my project?		
	Stakeholder Analysis	Who are the key people who will be impacted/impact my project?		
Coaching Voice of the customer, process map, problem statement				



Today's Objectives

1. Learn more about your fellow teams
2. Understand drivers of value and how your work impacts them
3. Understand different frameworks for driving process improvement and change
4. Recognize how successful leaders support well-being



Team Check-in: UCH Sleep

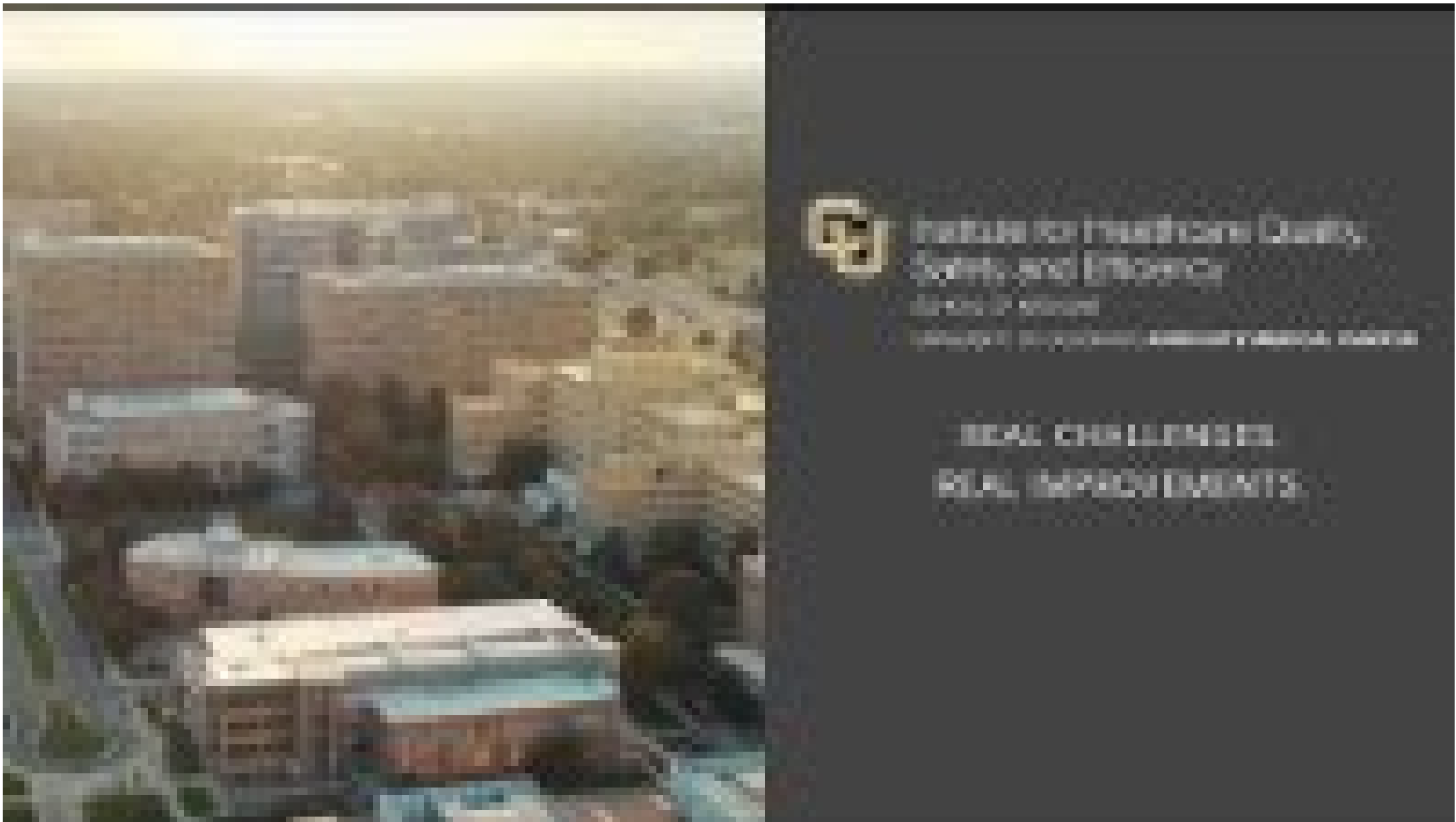
Katherine Green, MS, MD

Ashley Kipping, BSN

Melyssa Ly, CNP

Desirae Ortega





<https://youtu.be/IULdxZuBSPA>

Follow us: 

Value in Healthcare

Emily Gottenborg, MD



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Tina, Jim, Sarah, Rory, Florence

Internationally ranked, **37th**

100,000 preventable deaths, *each year*

>50% of nurses, providers feel burnt out

~10% of patients don't have health insurance

66% of bankruptcies related to medical issues

>1 trillion dollars, *wasted*





$$\text{VALUE} = \frac{\text{Quality} + \text{Safety} + \text{Experience} + \text{Equity}}{\text{Cost}}$$

The diagram illustrates the components of Value. The numerator consists of four factors: Quality (represented by a thumbs-up icon), Safety (represented by an icon of two people holding hands), Experience (represented by a smiling face icon), and Equity (represented by a scales of justice icon). These are summed together. The denominator is Cost, represented by a tag with a dollar sign icon.

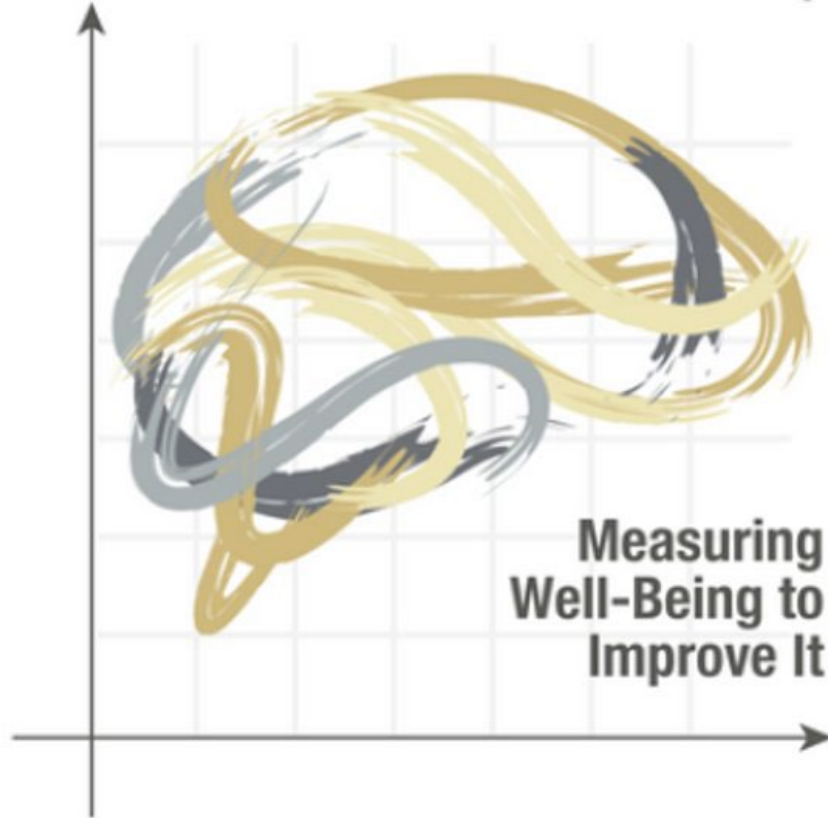


A Story of Quality



Three Components of MAC

Measurement-Assisted Care (MAC)



01 **Collect**

02 **Share**

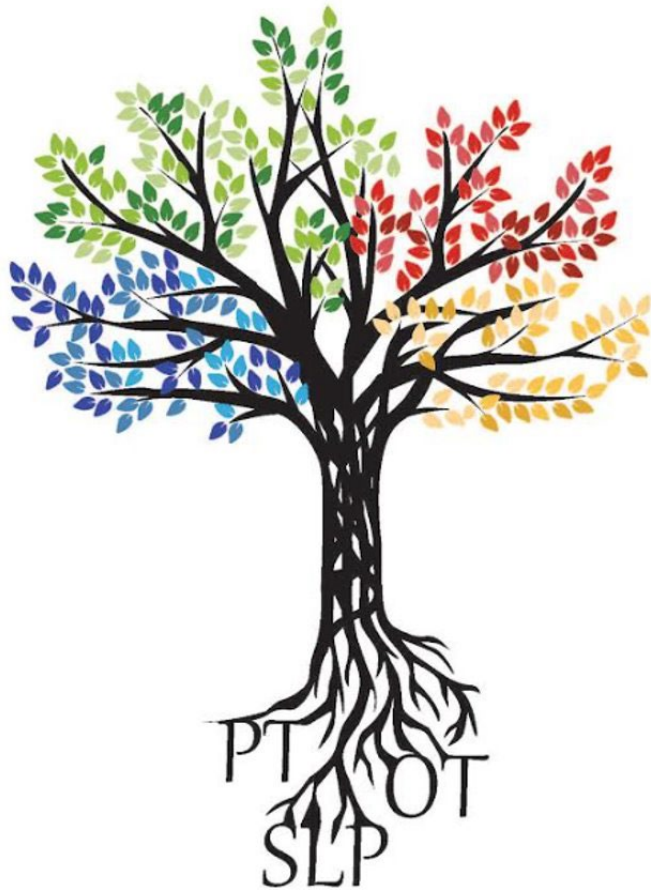
03 **Act**



A Story of Safety



A Story of Experience



A Story of Equity

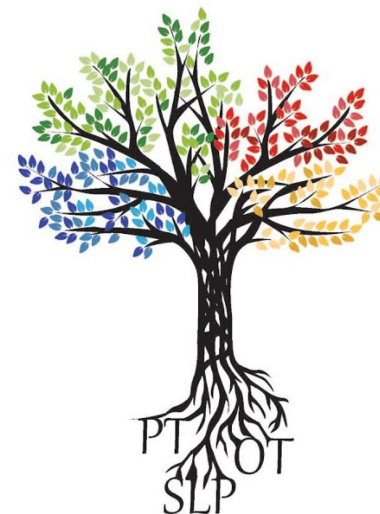
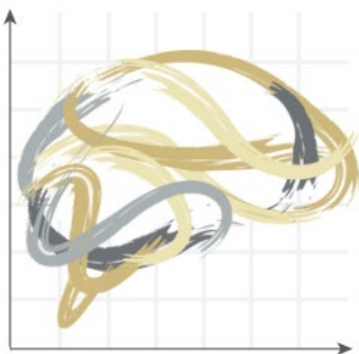


KIDS IN CARE SETTINGS



A Story of (reducing) Waste





$$\text{VALUE} = \frac{\text{Quality} + \text{Safety} + \text{Experience} + \text{Equity}}{\text{Cost}}$$

The diagram illustrates a value equation. On the left, the word "VALUE" is followed by an equals sign. To the right of the equals sign is a horizontal line representing a fraction. Above the line are four circular icons, each followed by a plus sign and a label: a thumbs-up icon for "Quality", two people holding hands for "Safety", a smiling face for "Experience", and a balance scale for "Equity". Below the line is a circular icon of a price tag with a dollar sign, labeled "Cost".

Coaching: Identify Opportunities to Enhance Value

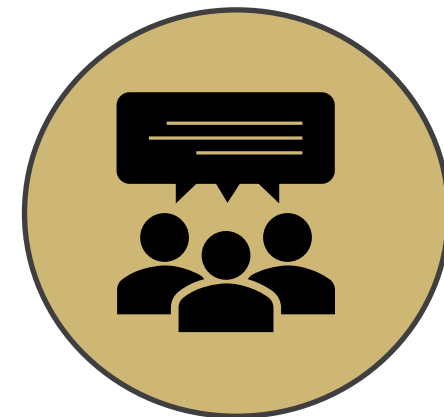
Identify opportunities where Value could be enhanced in your clinical unit.

Address each component of the Value equation.

These areas of opportunity will drive your project work.



Guiding Questions



Quality – Do you have any metrics or dashboards?

Safety – Do you track patient safety events?

Experience – Do you have access to satisfaction survey data?

Equity – Is access and outcomes similar across patient populations?

Cost / Waste – Where do you see inefficiencies?

Introduction to Improvement

Quality, Process...Value and the
IHQSE Model



Learning Objectives

- 1 Define Quality Improvement
- 2 Understand the various models for QI
- 3 List and explain the steps of the IHQSE Model for Change
- 4 Recognize the importance of understanding the problem first



QI = Quality Improvement

Systematic and continuous actions that lead to measurable improvement in health care services and the health status of targeted patient groups.



Value

QI = ~~Quality~~ Improvement

Systematic and continuous actions that lead to measurable improvement in health care services and the health status of targeted patient groups.



Models of Quality Improvement

PDSA/Model for Improvement

Six sigma

Lean





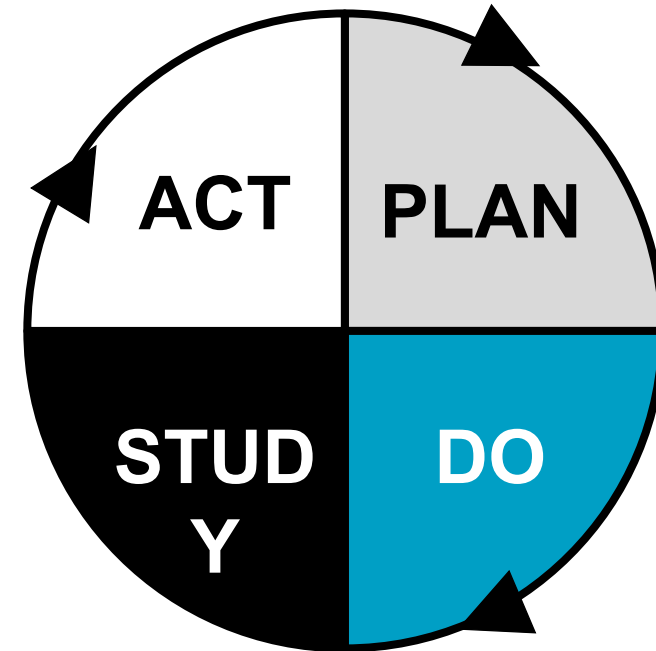
Institute *for*
Healthcare
Improvement

Model for Improvement

What are we trying to accomplish?

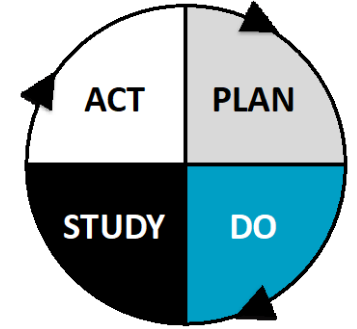
How will we know that change is an improvement?

What changes can we make that will result in an improvement?





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Improvement



Plan: identify your problem, analyze contributing factors, and determine an intervention

Do: implement the intervention

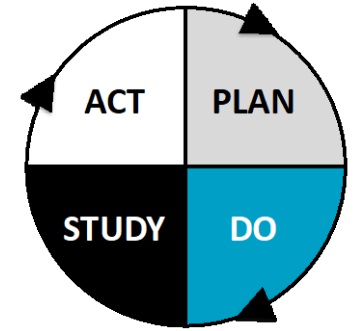
Study: evaluate the results of the intervention

Act: determine what to do next to sustain or improve





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Healthcare
Improvement



Plan: identify your problem, analyze contributing factors, and determine an intervention

**UNDERSTAND YOUR
PROBLEM FIRST !!!**



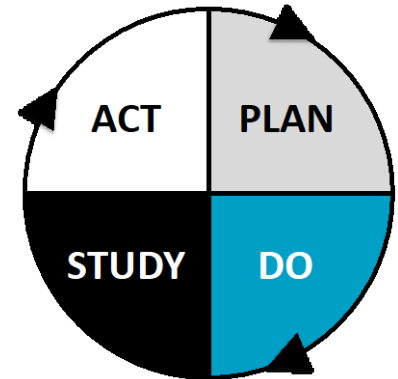
6σ

Six Sigma

“six” standard deviations from mean
(error rate of one per 3.4 per million)

DMAIC (*də-MAY-ick*)

Define, Measure, Analyze, Improve, Control



6σ

Six Sigma

“six” standard deviations from mean
(error rate of one per 3.4 per million)

**UNDERSTAND YOUR
PROBLEM FIRST !!!**

Lean

Maximize value while *through* minimizing waste.

改善

Kaizen

'improvement' or 'change for better' (from 改 kai - change, revision; and 善 zen - virtue, goodness) with the inherent meaning of either 'continuous' or 'philosophy'



改善



Eight Forms of Waste in Healthcare



Underutilization



Inventory



Motion



Defects



Transportation



Waiting



Extra Processing



Overproduction

6σ

Six Sigma

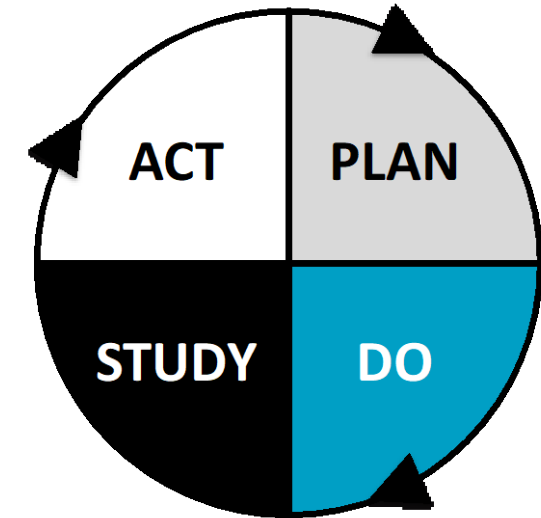
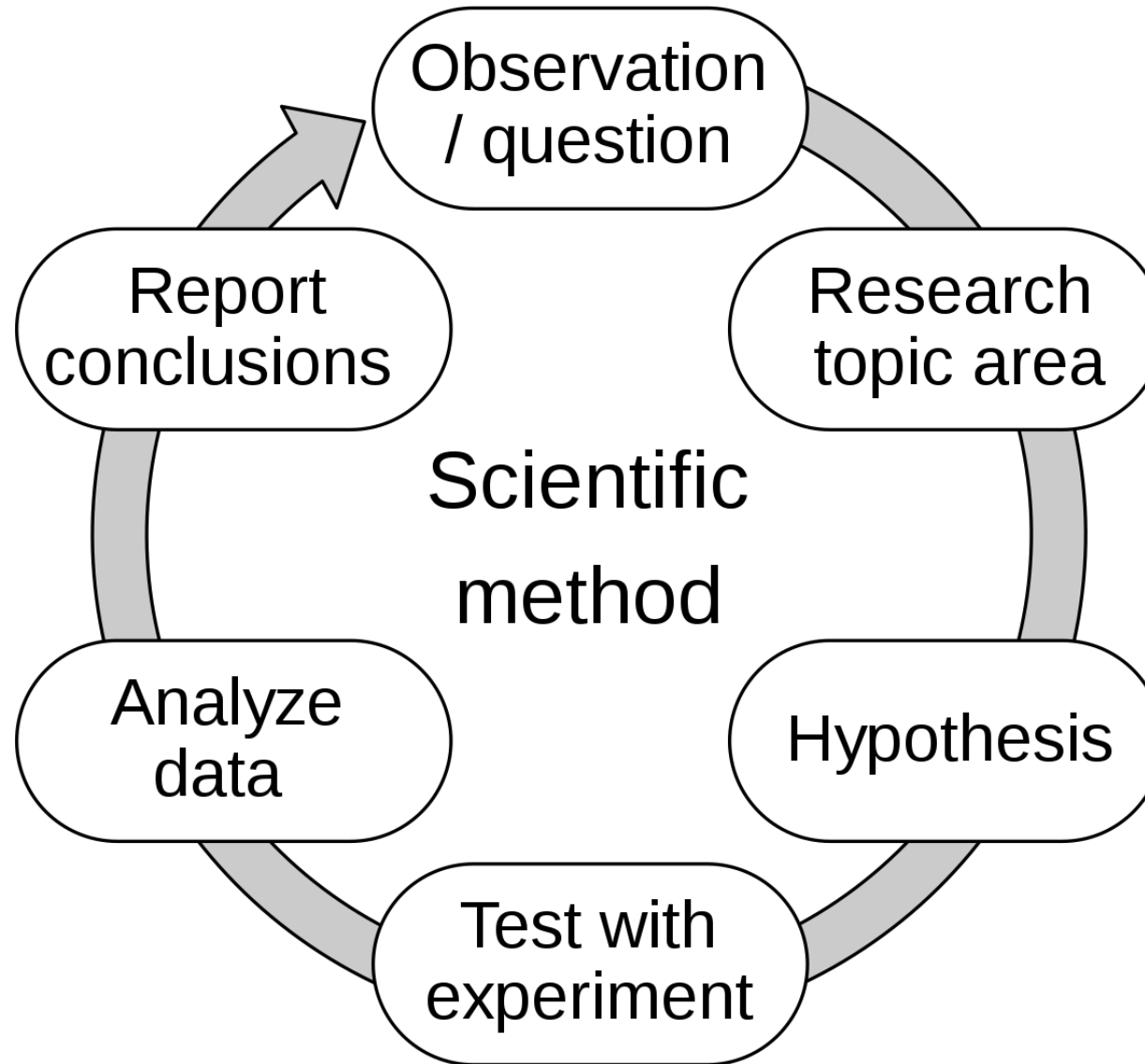
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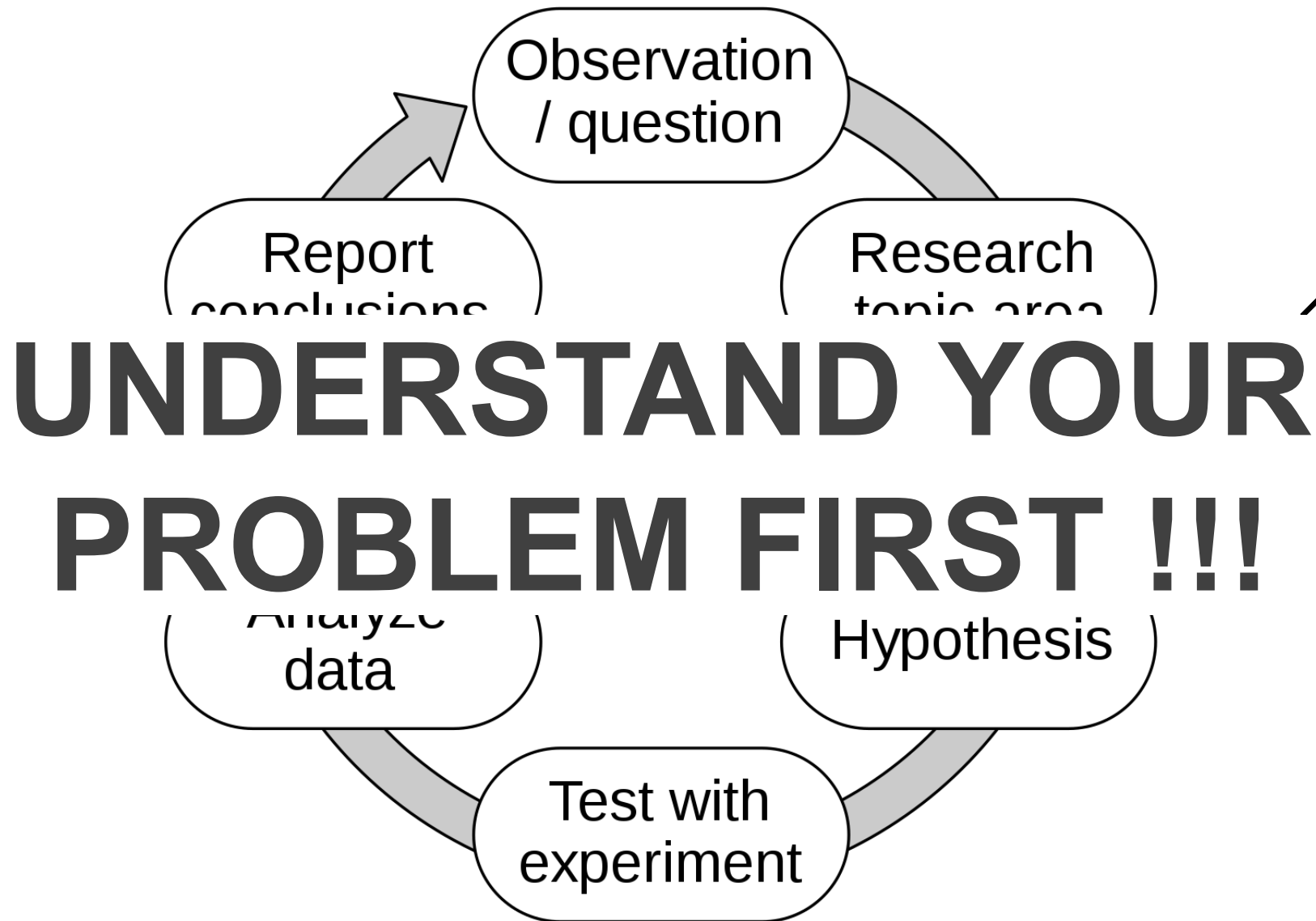
改善

Lean

=









Sense a problem



No improvement





Sense a problem





Sense a problem



Sustained improvement





Agency for Healthcare
Research and Quality

Order and Order Set Search

DELIRIUM

Browse

Preference List

Facility List

Order Sets & Panels

Search order sets by user

(Alt+Shift+1)

Name	User Version Name	Type
<div><div></div>UCHS IP Delirium Assessment and Management</div>		Order Set

Outcomes Following Implementation of a Hospital-Wide, Multicomponent Delirium Care Pathway

TABLE 3. **Unadjusted and Adjusted Clinical Outcomes for All Patients Combined and Medicine Unit Patients**


Clinical outcome	Unadjusted model result (95% CI)	P value	Adjusted model result (95% CI)	P value
All patients				
Length of stay proportional change ^a	1.00 (0.97-1.05)	.65	0.98 (0.92-0.99)	.0087
Total direct cost proportional change ^a	0.98 (0.96-1.00)	.17	0.99 (0.97-1.01)	.12
30-Day hospital readmission odds ratio	0.93 (0.86-1.00)	.039	0.86 (0.80-0.93)	.0002
Restraint rate ratio	0.83 (0.76-0.91)	<.0001	0.91 (0.71-1.16)	.45
Safety attendant rate ratio	0.51 (0.48-0.54)	<.0001	0.63 (0.41-0.97)	.034

10 minutes



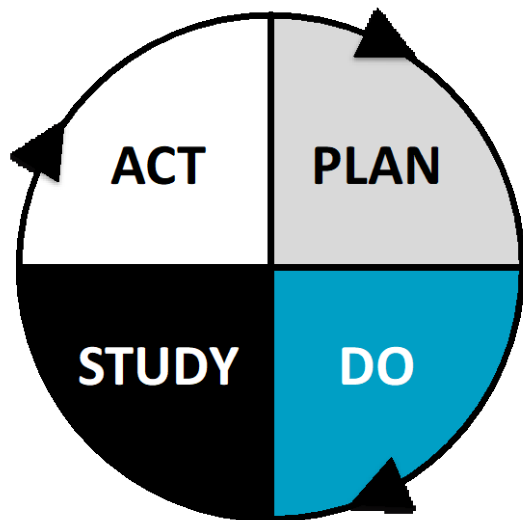
Coaching Breakout:

- What problem are you trying to solve?
- How do you KNOW it's a problem?
- What do you need to demonstrate that it's a problem?

A close-up, slightly low-angle shot of Jim Lovell's face. He has a serious, concerned expression, with his eyes looking upwards and to the right. His skin is fair, and he has short, light-colored hair. The background is dark and out of focus, showing some mechanical parts of a spacecraft.

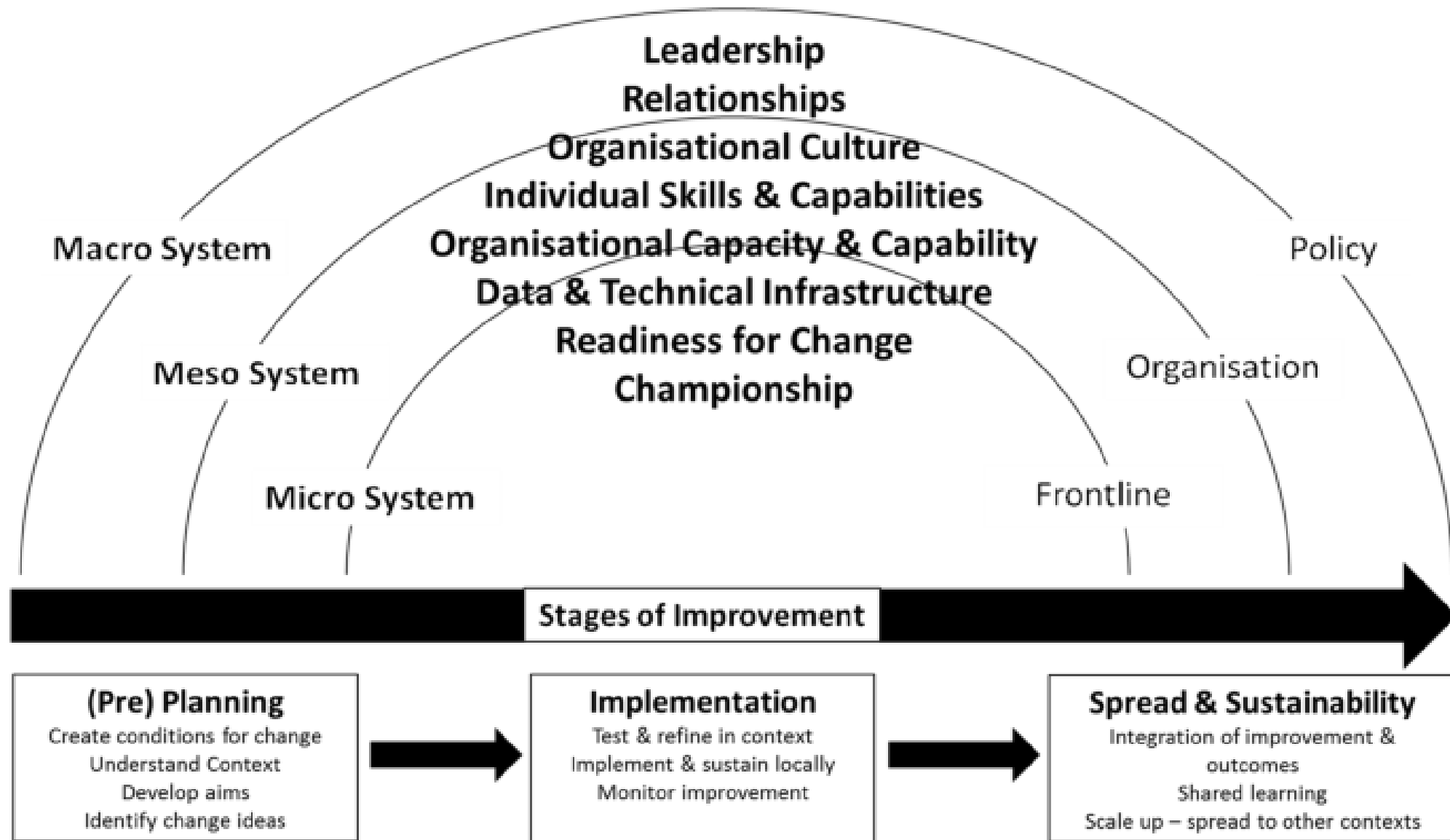
**Houston,
we have
a problem.**

- Jim Lovell



QI results are often mixed,
unpredictable or demonstrate
limited impact.





I

H

Q

S

E

Investigate

Hone

eQuip

Start

Embed

TECHNICAL

ADAPTIVE

IMPLEMENT

Process Improvement

Change Management

Coaching



I

H

Q

S

E

TECHNICAL

ADAPTIVE

IMPLEMENT

Investigate

Hone

eQuip

Start

Embed

- ☐ Complete Literature Search
- ☐ Acquire Baseline Data
- ☐ Complete Voice of Customer
- ☐ Complete Voice of Business
- ☐ Create Problem Statement
- ☐ Perform Stakeholder Analysis
- ☐ Complete Process Map
- ☐ Create Affinity Diagram
- ☐ Identify Key Metrics – outcome, process, structural, balancing
- ☐ Build a Business Case
- ☐ Create Aim Statement

- ☐ Apply Pareto Principle to Prioritize Factors to Target
- ☐ Determine Research or QI
- ☐ Assess Positive Deviants
- ☐ Consider Hierarchy of Interventions
- ☐ Perform Design Thinking
- ☐ Identify 2 - 3 interventions
- ☐ Create Effort/Impact matrix to prioritize interventions
- ☐ Complete Equity Analysis
- ☐ Complete Well-Being Analysis
- ☐ Create Data Plan
- ☐ Complete Pre-mortem
- ☐ Finalize Implementation Plan

- ☐ Create Sense of Urgency
- ☐ Align with the Vision
- ☐ Build Motivation Plan
- ☐ Create Diffusion of Innovation Plan
- ☐ Identify and Remove Barriers
- ☐ Address Sources of Resistance
- ☐ Create Awareness Campaign
- ☐ Create Logo
- ☐ Create Short-term Wins

- ☐ Implement Awareness Campaign
- ☐ Launch intervention
- ☐ Apply Motivation & Diffusion principles
- ☐ Track Data Refine
- ☐ Perform resistance analysis
- ☐ Celebrate Short-term Wins

- ☐ Track data w/ Run Charts, SPC
- ☐ Remove New Barriers
- ☐ Celebrate More Wins
- ☐ Reconcile the Business Case
- ☐ Present to Stakeholders
- ☐ Disseminate Project Work
- ☐ Create sustainment plan – handoff

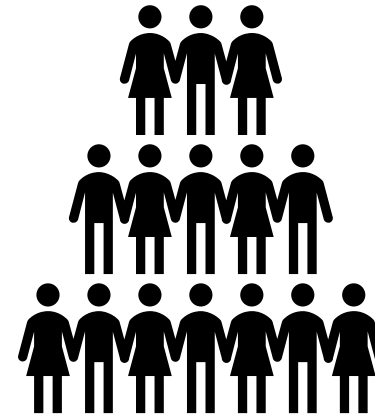
Investigate



Sense a problem



Describe
in detail



Understand
stakeholders



Define
Scope



Investigate



“In God we trust. All others must bring data.”

- W. Edwards Deming

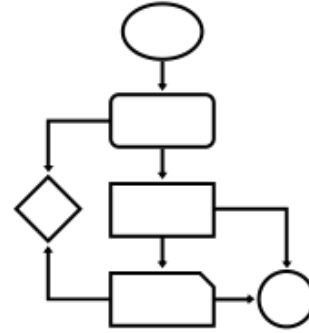


“The goal is to turn data into information, and information into insight.”

- Carly Fiorina, former executive, president, and chair of Hewlett-Packard Co.



Investigate



Process Map



vizient®

Epic

EHR

現場

Gemba (Walk)



ACS
NSQIP®

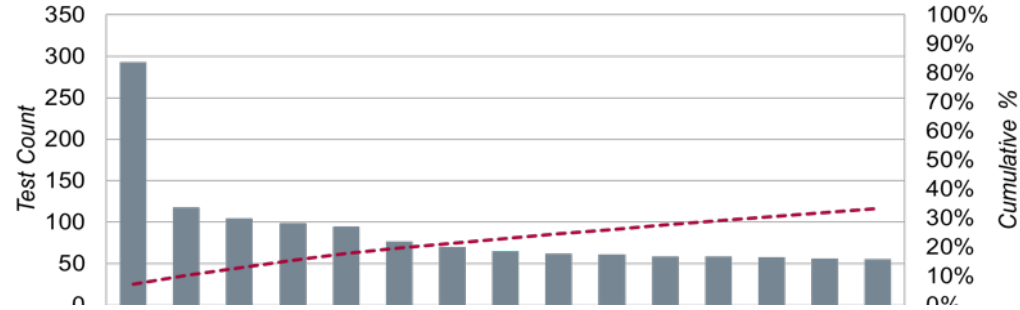


Voice of the patient

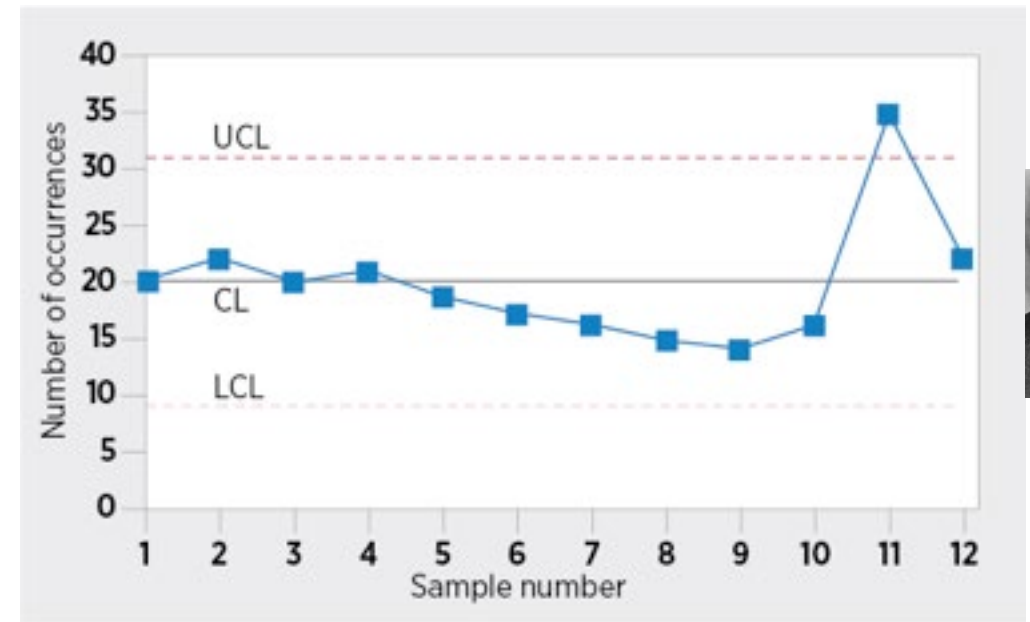
Ratings/Rankings



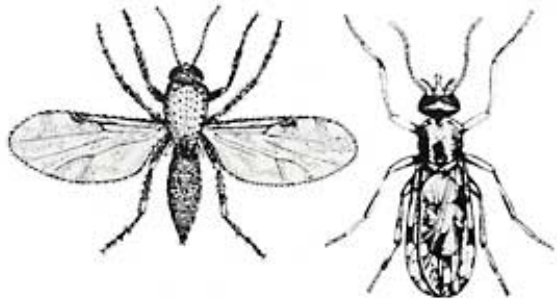
Investigate



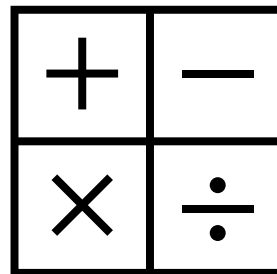
Pareto Chart



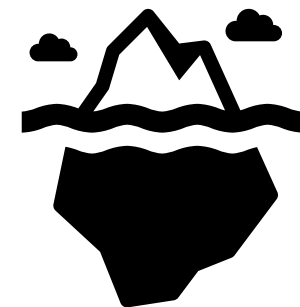
SPC Charts



5-Why's



Descriptive Statistics

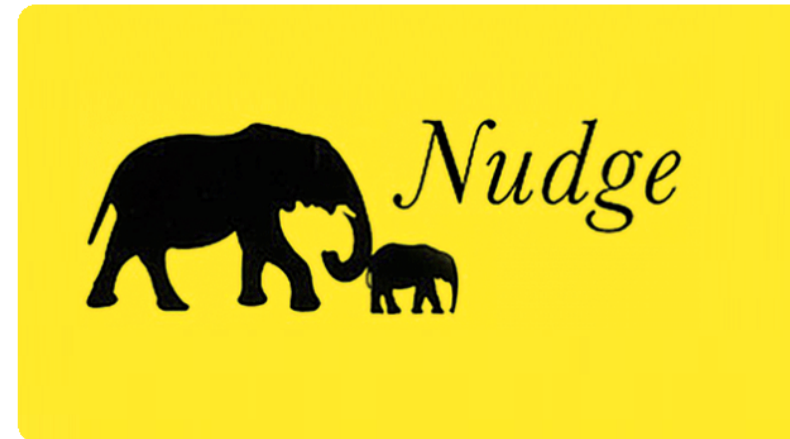
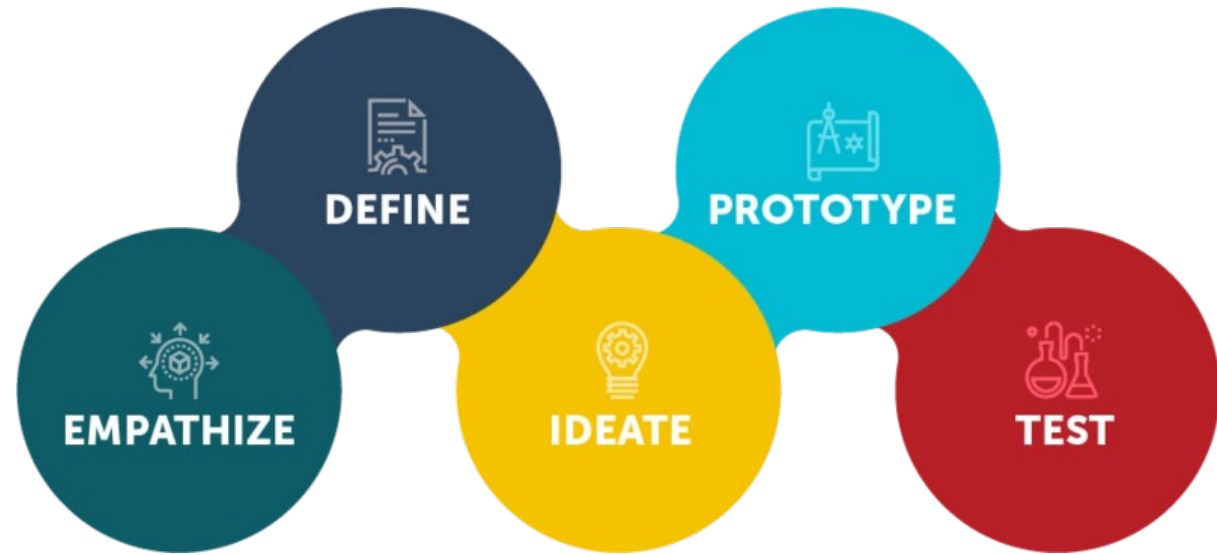
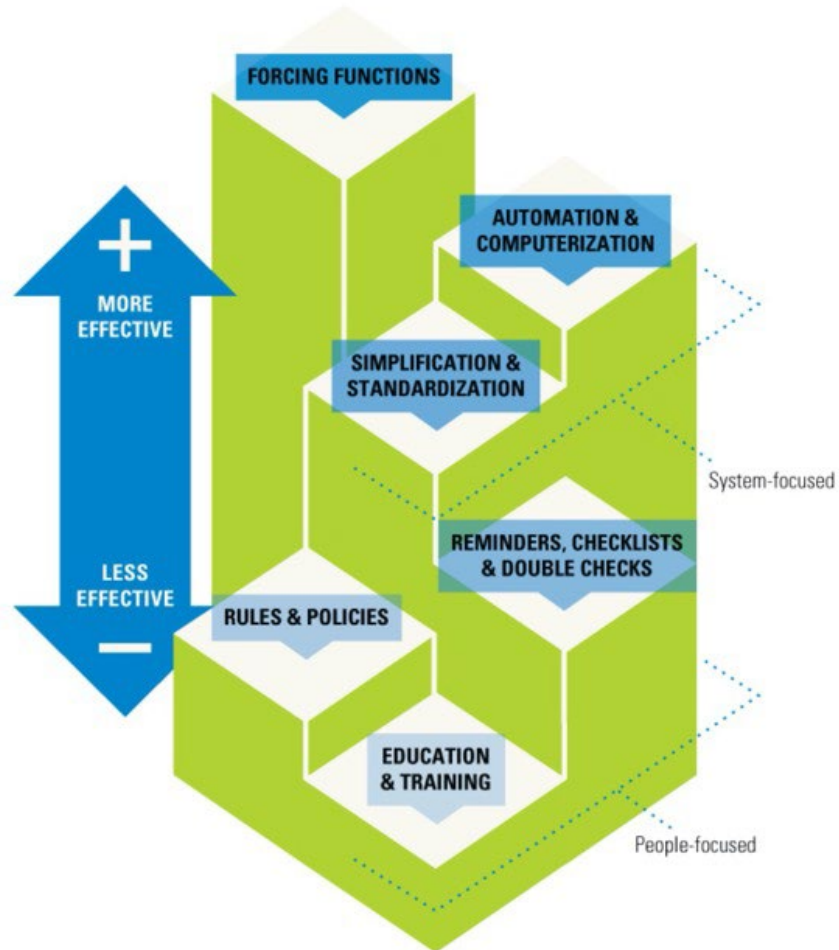


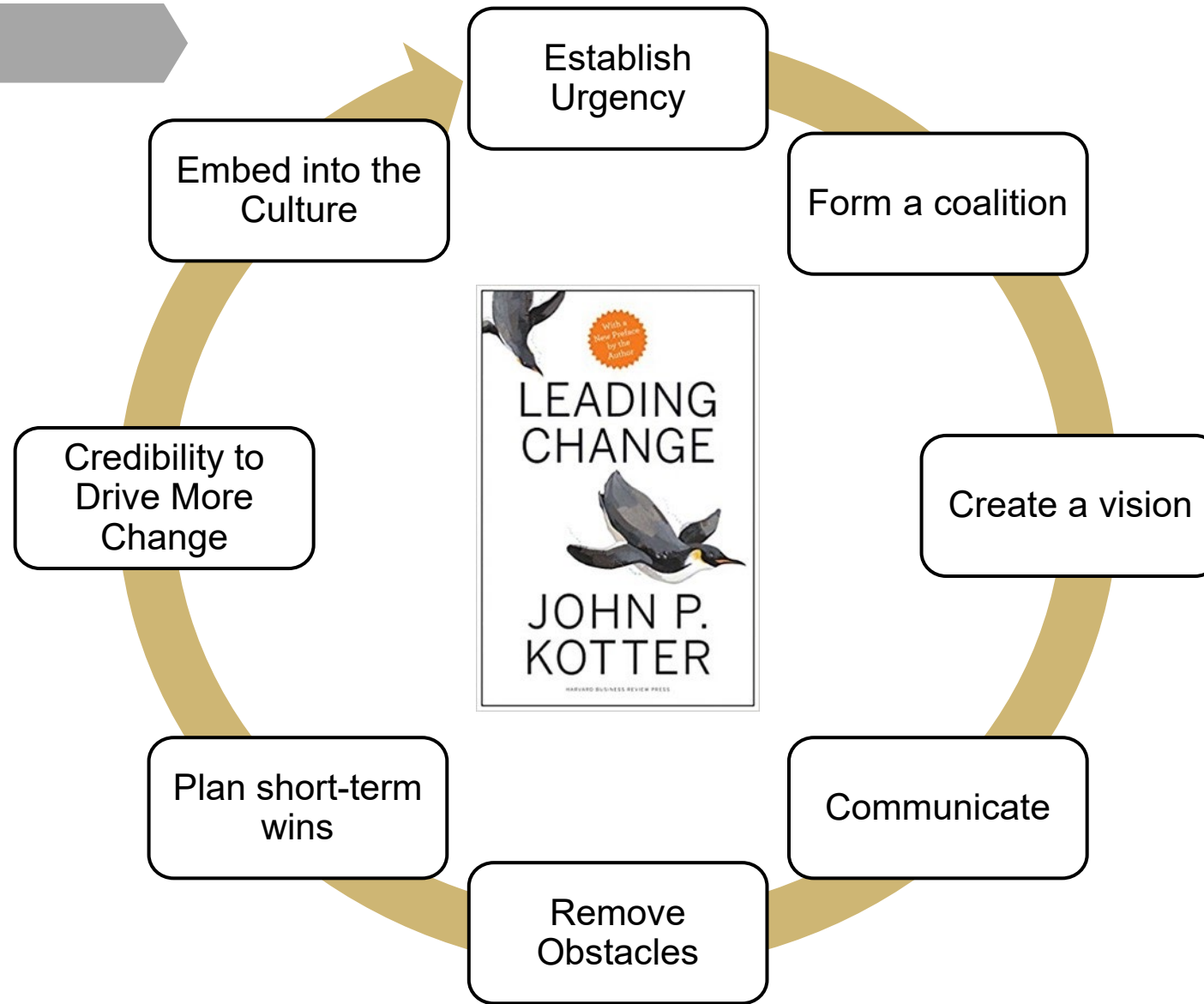
Root Cause Analysis



Hone

The Hierarchy of Intervention Effectiveness

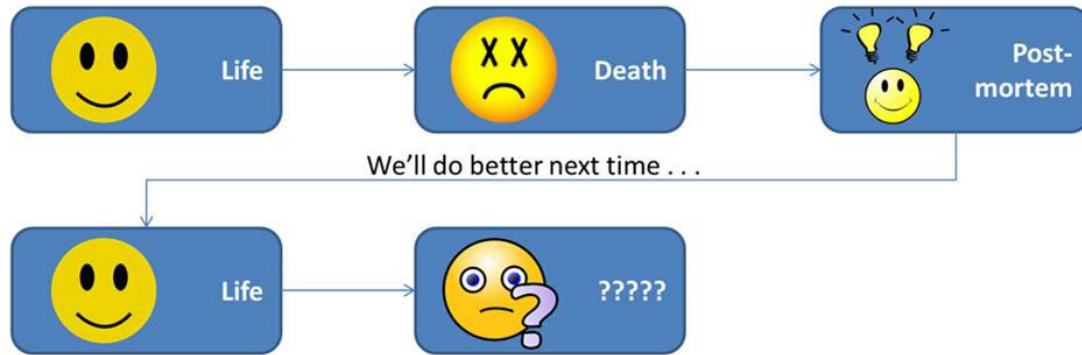




Start

Which Would You Prefer???

The Postmortem Process: Learning from Our "Mistakes"

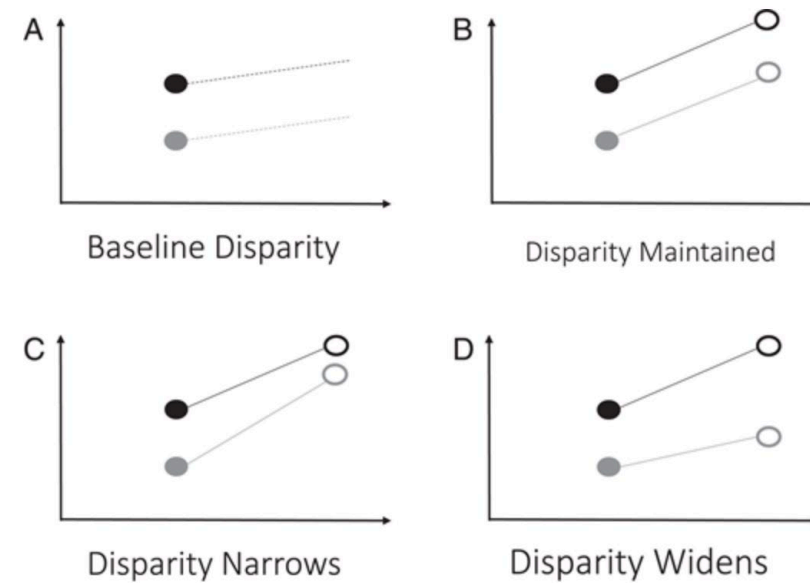


The Premortem Process: Preventing Our "Mistakes"



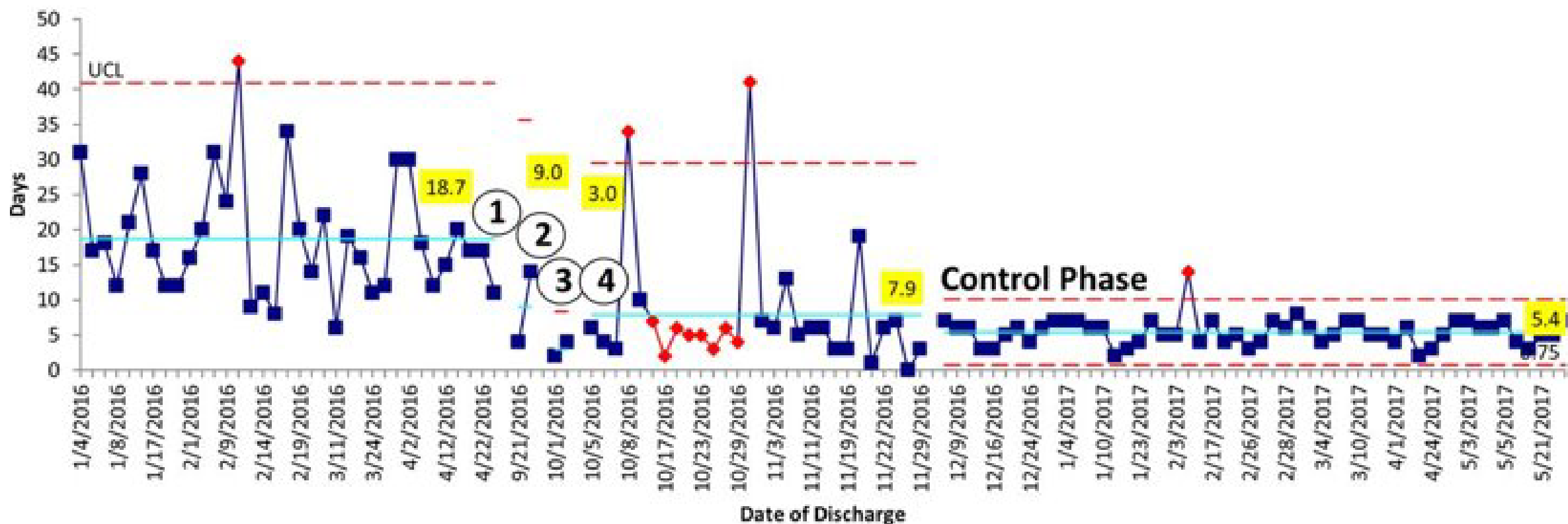
Are some groups affected differently than others?

FIGURE 1



Embed

Days from Hospital Discharge to First Scheduled Outpatient Cardiac Rehabilitation Appointment



A New Leadership Imperative: Systems Improvement and Workforce Well-being

Read G. Pierce, MD

Chief Quality, Safety,
& Transformation
Officer, Denver Health

Visiting Professor of
Medicine, University of
Colorado School of
Medicine



Institute for Healthcare Quality,
Safety and Efficiency

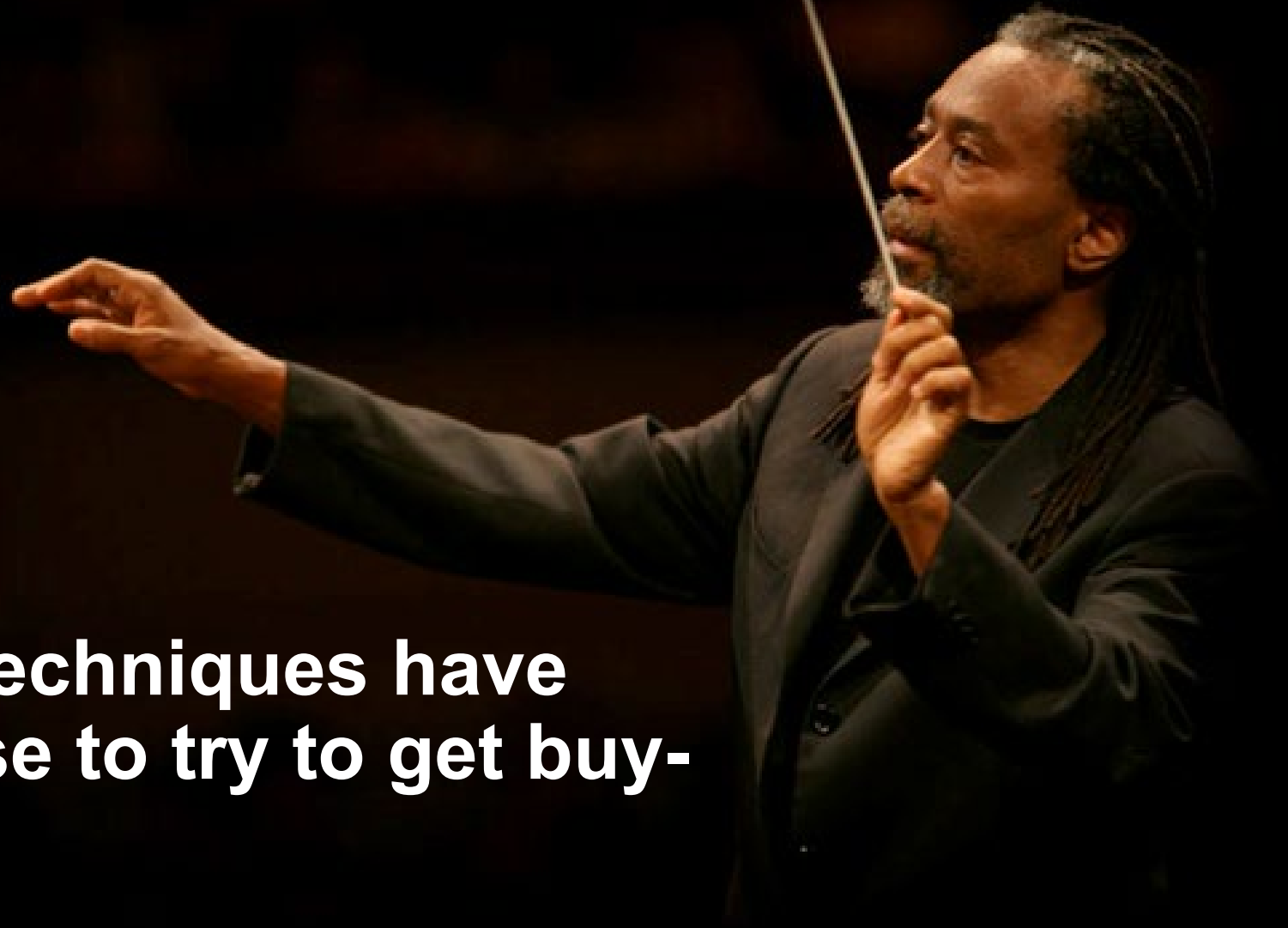
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Objectives

1. Discuss how burnout impacts capacity for change
2. Explore hidden leverage for addressing burnout
3. Identify leadership behaviors that reduce burnout, enhance engagement, and spur sustainable change and innovation

Reflection on Leading Change



What motivational techniques have you seen leaders use to try to get buy-in to new ideas?

Reflection on Leading Change



How do these approaches impact our people (morale and performance)?

How is Change Capacity Right Now?



Showing Up to Work in Healthcare Today . . .

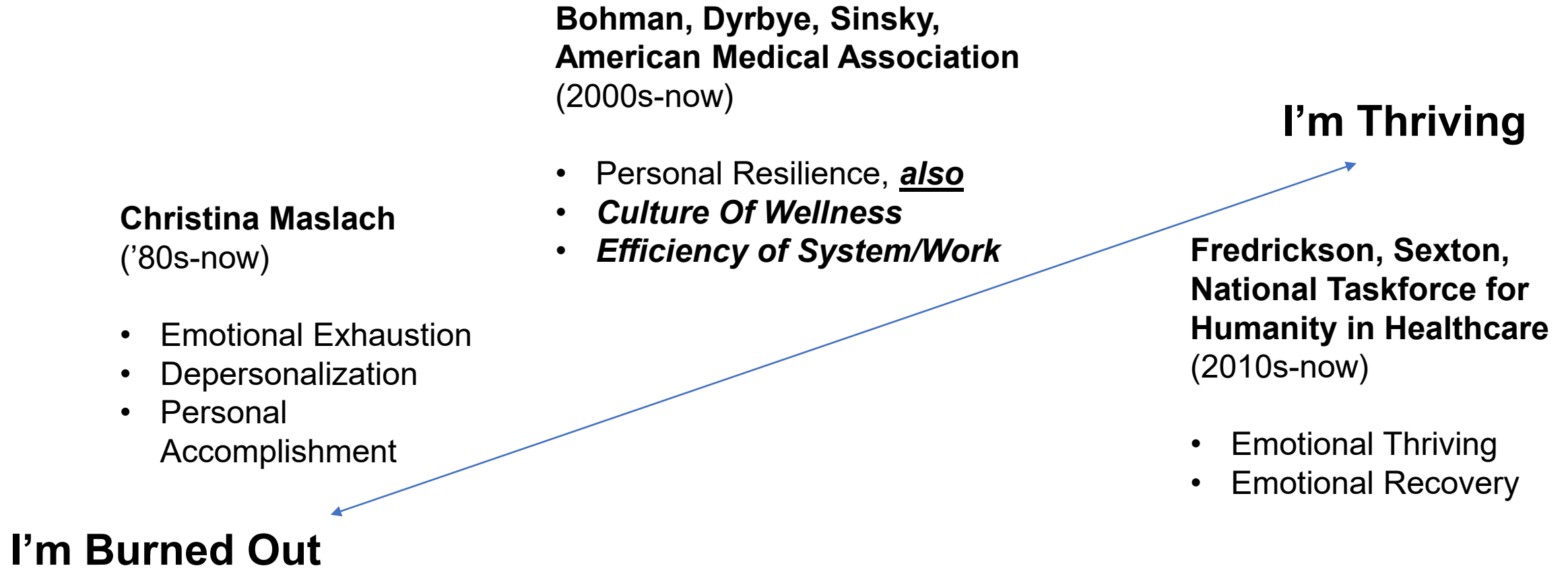


**Innovation &
Change
Matter More
than Ever . . .**

**Complexity,
Chaos, &
Burnout Feel
Overwhelming**



Evolution of Burnout: Theoretical Model



Evolution of Burnout: Theoretical Model



What Emotions Are We Talking About?

Joy
Hope
Gratitude
Inspiration
Awe
Interest
Amusement
Pride
Serenity
Love

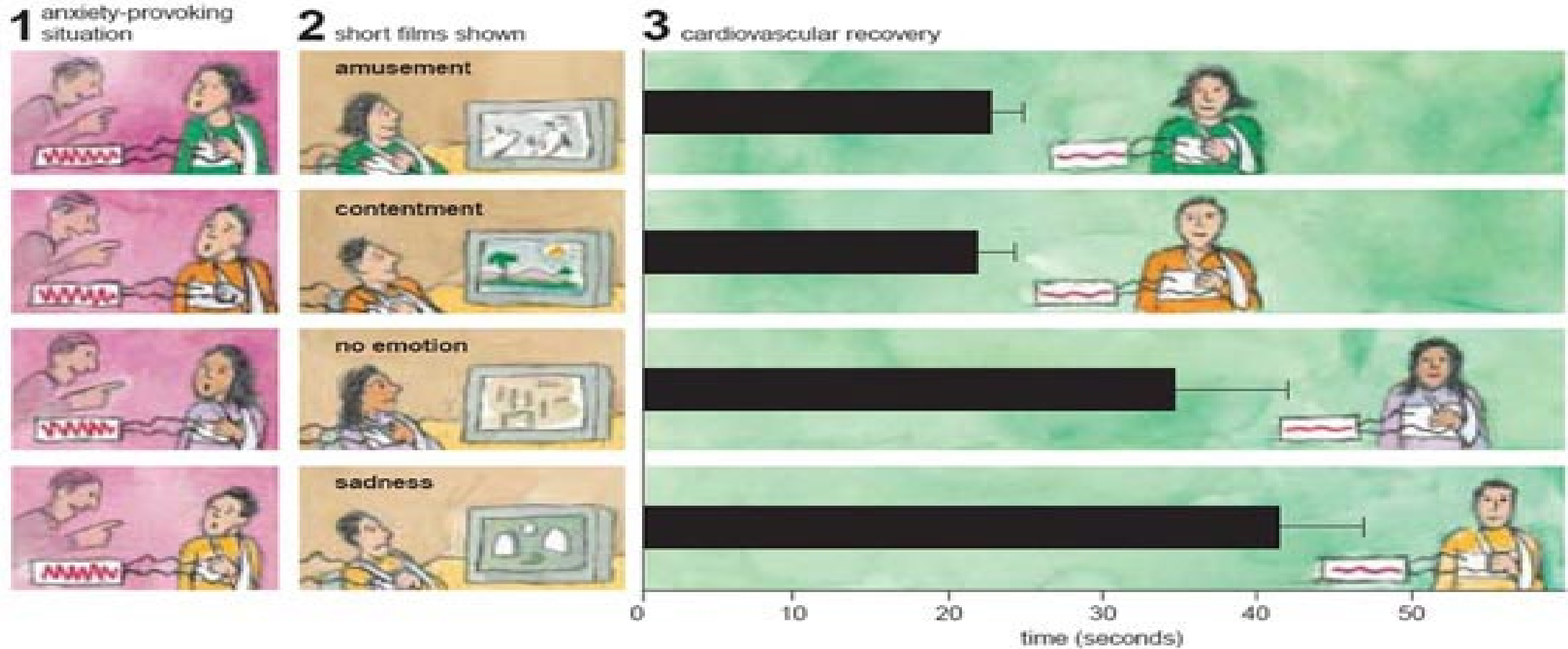
Tiny Engines



Undoing Effect



Impact of Emotions on Stress & Recovery



Burnout Degrades Quality of Interpersonal Interactions and Workplace Culture, Causing:

Diagnostic accuracy and procedural performance to decline¹

Surgical complications to increase²

Patient satisfaction + commitment to plan of care to decline³

Morale, retention, and "best performance" from our team members to worsen³

1. Riskin A, et al. "The Impact of Rudeness on Medical Team Performance: A Randomized Trial." Pediatrics, September 2015, VOLUME 136 / ISSUE 3.

2. Cooper W, et al "Association of coworker reports about unprofessional behavior by surgeons with surgical complications in their patients" JAMA Surg 2019.

3. Edmonson C, Zelonka C. "Our Own Worst Enemy." Nursing Administration Quarterly: July/September 2019 - Volume 43 - Issue 3 - p 274–279.



Burnout & emotional state associated with:



Bigger Secular Trends



CPR News

SIGN IN

NPR SHOP

DONATE

NEWS CULTURE MUSIC PODCASTS & SHOWS SEARCH

NATIONAL



What is 'quiet quitting,' and misnomer for setting bound

August 19, 2022 · 5:30 AM ET



AMINA KILPATRICK



Closing your laptop at 5 p.m. Doing only your assigned tasks. Spending more time with family. These are just some of the common examples used to define the latest workplace trend of "quiet quitting."



Quiet quitting doesn't actually involve quitting. Instead, it has been deemed a response to hustle culture and burnout; employees are "quitting" going above and beyond and declining to do tasks they are not being paid for.



University of Colorado **Anschutz Medical Campus**

IHQSE

How Do We Motivate and Engage?

(When so many are leaning out?)





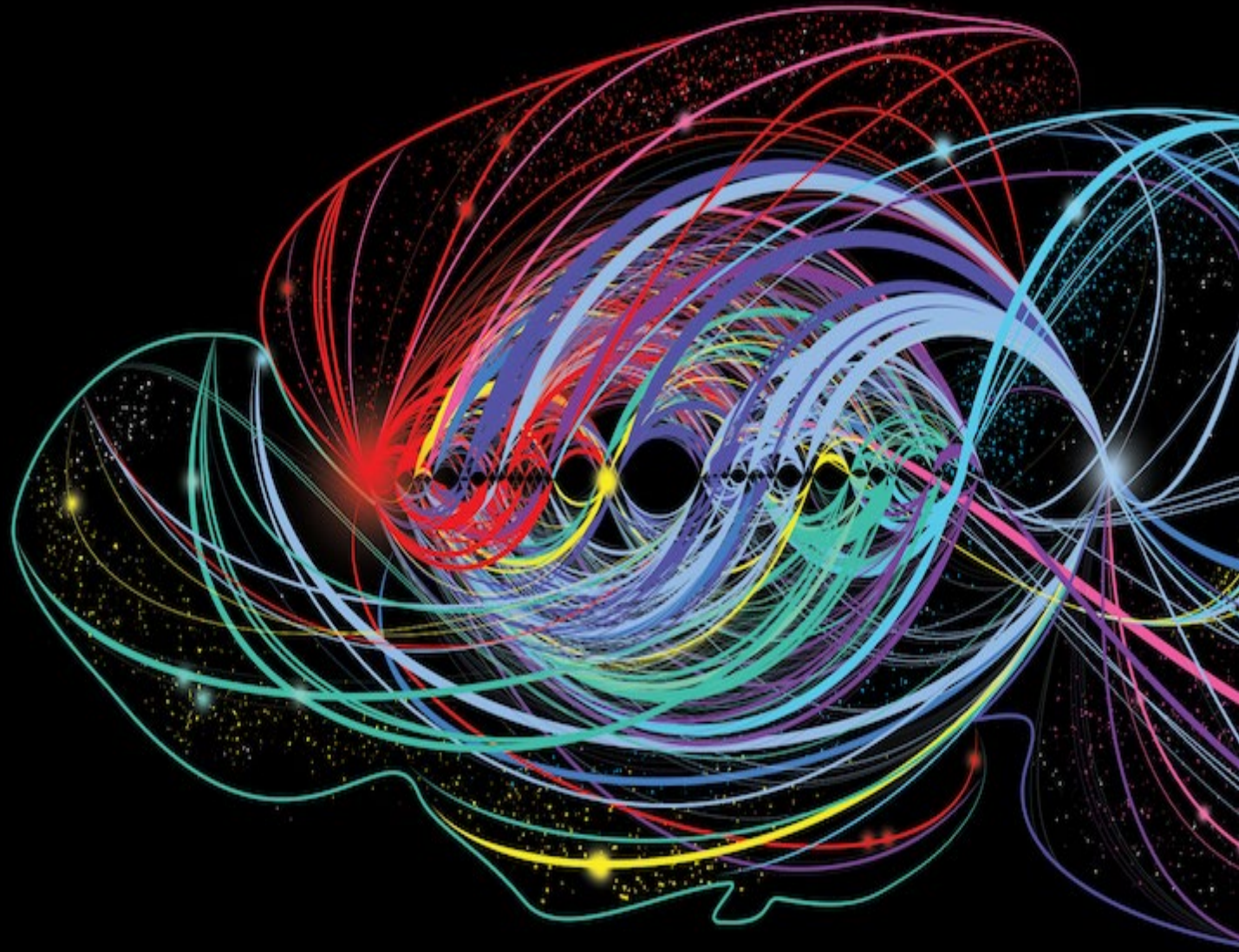
What Type of Leadership Drives Systems Improvement

... And Reduces Burnout

... at the Same Time?

Leadership for Change & Innovation

*Leadership that
addresses burnout*



3 Actions that Generate Human Connection and + Emotion . . . Inside Our Daily Work

Joy
Hope
Gratitude
Inspiration
Awe
Interest
Amusement
Pride
Serenity
Love

Tiny Engines



Undoing Effect



1) The Power of Leaders Using *Better Questions*

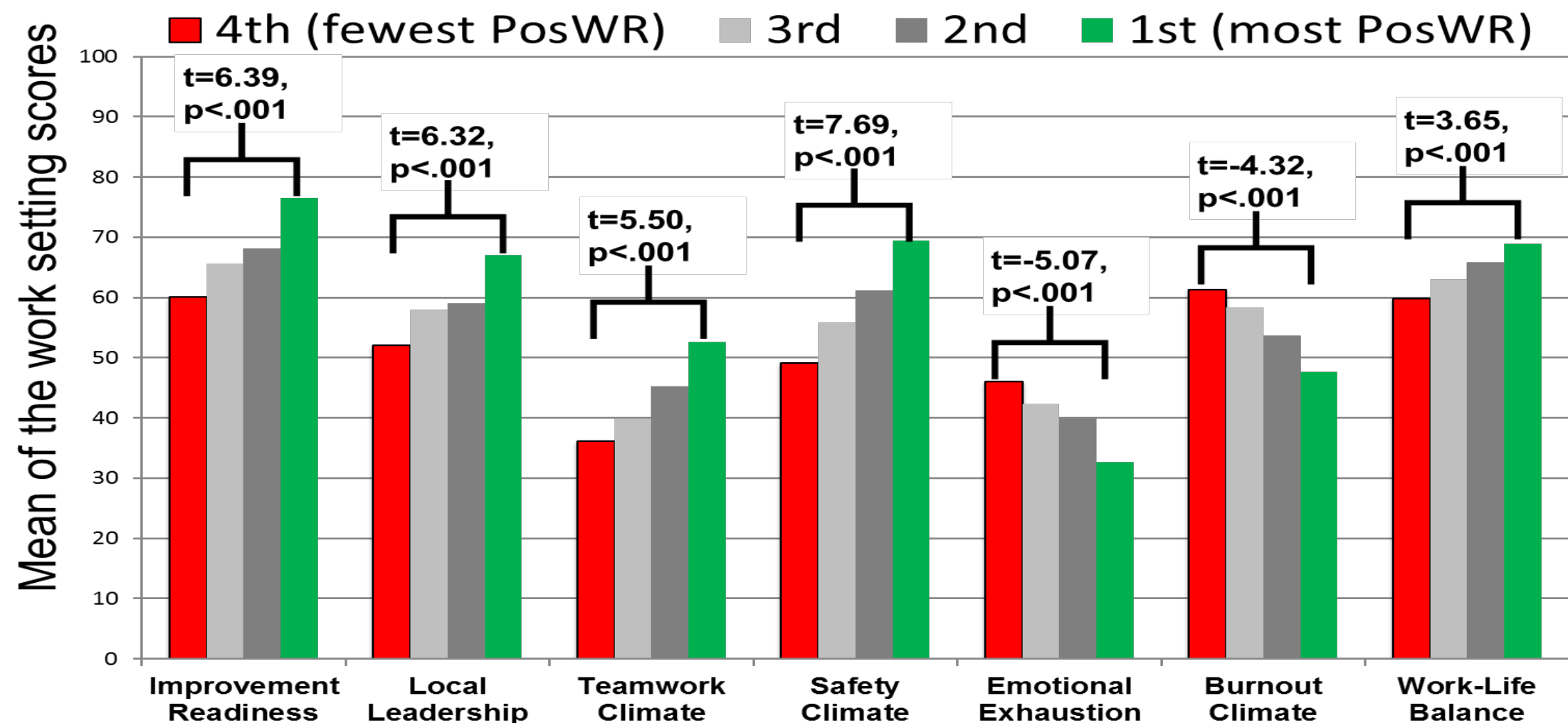
Typical Leader Check-in Frame: “What issues do we need to fix?
What is going to harm the next patient?”

Alternative, Positive Check-in Frame: “What are three things that are going well around here, and one thing that could be better?”

Study question:

Did leaders ask for information about what is going well in this work setting (e.g., people who deserve special recognition for going above and beyond, celebration of successes, etc.)?: Yes / No / Not Sure

Impact of Positive Question from Leadership



2) Key Leader Behaviors: Wellbeing + Performance

Mayo Leadership Index

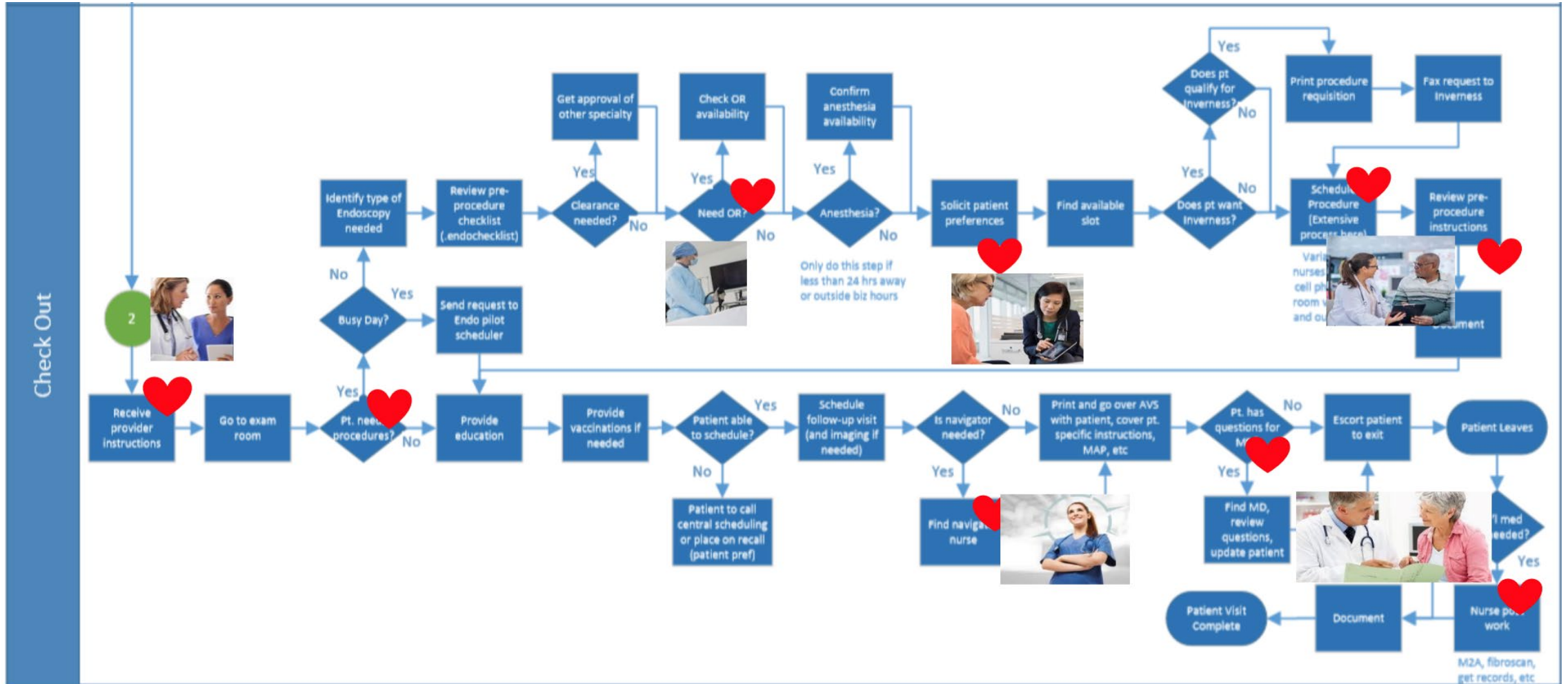
1. *Inclusion (treating everyone with respect)*
2. *Keeping people informed*
3. *Soliciting Input*
4. *Empowering Team Members*
5. *Nurturing Professional Development*
6. *Providing Feedback & Recognition*

Scale of These Behaviors
(5 points per item)

1 Point increase on that scale
(followers say “my leader does this”)

**= 3% drop in burnout in physicians
working with that leader (7-10% for
non-physicians)!!**

3) Reimagined Process Improvement: *Connection (Love) + Efficiency*

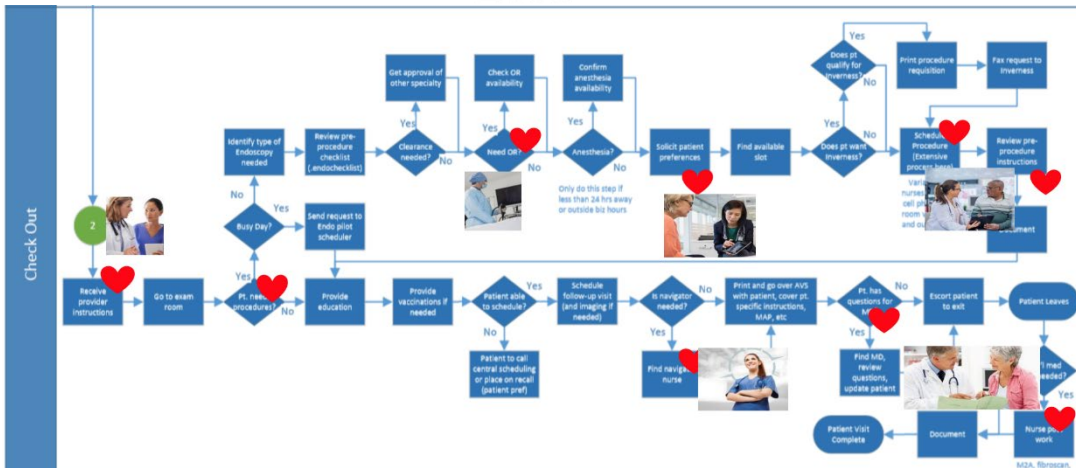


Secret Sauce: Acts for Individuals, Teams, and Leaders that Promote Well-being + Performance inside Daily Work

Tiny Engines



Joy
Hope
Gratitude
Inspiration
Awe
Interest
Amusement
Pride
Serenity
Love



Mayo Leadership Index

1. *Inclusion (treating everyone with respect)*
2. *Keeping people informed*
3. *Soliciting Input*
4. *Empowering Team Members*
5. *Nurturing Professional Development*
6. *Providing Feedback & Recognition*

Next Steps

- Share your Leadership Defined worksheet with coach
- Finalize coaching sessions dates/times with team

Next Steps

Date Assigned	Assignment	Due Date
#1 – Aug. 20, 2024	<ul style="list-style-type: none"> Develop group ground rules Complete Leadership Defined Self-assessment 	Review in coaching
#2 – Aug. 27, 2024	<ul style="list-style-type: none"> No new assignments 	
#3 – Sept. 10, 2024	<ul style="list-style-type: none"> Complete voice of customer Build stakeholder analysis Complete process map Meet with Dr. Moksha Patel 	#6 – Oct. 22, 2024
	<ul style="list-style-type: none"> Develop problem statement 	#7 – Nov. 12, 2024
#4 – Sept. 24, 2024	<ul style="list-style-type: none"> Reading: Kotter, John. <i>Leading Change: Why Transformation Efforts Fail</i> 	#5 – Oct. 8, 2024
	<ul style="list-style-type: none"> Complete affinity diagram 	#7 – Nov. 12, 2024
	<ul style="list-style-type: none"> Draft business case 	#8 – Nov. 19, 2024
#5 – Oct. 8, 2024	<ul style="list-style-type: none"> Complete Myers-Briggs Assessment 	Friday, Oct. 18, 2024
	<ul style="list-style-type: none"> Complete literature review 	#8 – Nov. 19
	<ul style="list-style-type: none"> Complete Program Evaluation/QI/Research Tool 	
#6 – Oct. 22, 2024	<ul style="list-style-type: none"> Complete data collection plan 	#9 – Dec. 3, 2024
#7 – Nov. 12, 2024	<ul style="list-style-type: none"> Develop/utilize current vision tying to project 	#8 – Nov. 19, 2024
#8 – Nov. 19, 2024	<ul style="list-style-type: none"> Finalize sense of urgency 	#9 – Dec. 3, 2024
	<ul style="list-style-type: none"> DEI Scan 	#12 – Jan. 28, 2025
#9 – Dec. 3, 2024	<ul style="list-style-type: none"> Complete Positive Deviance Exercise Complete Design Thinking Exercise Develop list of potential interventions Finalize guiding coalition 	#12 – Jan. 28, 2025
#10 – Dec. 10, 2024	<ul style="list-style-type: none"> Complete aim statement 	#11 – Jan. 14, 2025
	<ul style="list-style-type: none"> Finalize logo 	#13 – Feb. 11, 2025
#11 – Jan. 14, 2025	<ul style="list-style-type: none"> Draft mid-year report out 	#12 – Jan. 28, 2025
	<ul style="list-style-type: none"> Complete pre-mortem assessment 	#13 – Feb. 11, 2025
	<ul style="list-style-type: none"> Create and implement a communication plan 	
#12 – Jan. 28, 2025	<ul style="list-style-type: none"> Finalize mid-year report out 	#13 / #14 – Feb. 11 or 25, 2025