### Applying a Total Systems Approach in Healthcare

Jonathan L. Gleason MD Executive Vice President, CCO, Prisma Health



### **OBJECTIVES**

- Understand the implications of the current inflexion point of human-machine teaming in clinical operating systems.
- Describe the proactive and reactive approaches to the integration of systems engineering into continual redesign of complex sociotechnical environments within healthcare.
- Understand the overarching framework within which human factors engineering can be optimally applied to healthcare environments.

### **Brief Background...**







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### **Core Concept #1**

### Healthcare is Sociotechnical Work



### Let's Start With a Story...





### What is the impact of the SYSTEM?



### What is the impact of the SYSTEM?





## Transformation Approach must Evolve with Healthcare...







People Tools Culture People Tools Systems

Operating Systems Systems Tools People

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**Proliferation of Technology** 

## We have been focusing primarily on improving people...

#### Promoting a <u>Culture of Safety</u> as a Patient Safety Strategy

A Systematic Review

Sallie J. Weaver, PhD, Lisa H. Lubomksi, PhD, Renee F. Wilson, MS, Elizabeth R. Pfoh, MPH, Kathryn A. Martinez, PhD, MPH, and Sydney M. Dy, MD, MSc

#### Abstract

Go to: 🕑

Developing a culture of safety is a core element of many efforts to improve patient safety and care quality. This systematic review identifies and assesses interventions used to promote safety culture or climate in acute care settings. The authors searched MEDLINE, CINAHL, PsycINFO, Cochrane, and EMBASE to identify relevant English-language studies published from January 2000 to October 2012. They selected studies that targeted health care workers practicing in inpatient settings and included data about change in patient safety culture or climate after a targeted intervention. Two raters independently screened 3679 abstracts (which yielded 33 eligible studies in 35 articles), extracted study data, and rated study quality and strength of evidence. Eight studies included executive walk rounds or interdisciplinary rounds; 8 evaluated multicomponent, unit-based interventions; and 20 included team training or communication initiatives. Twenty-nine studies reported some improvement in safety culture or patient outcomes, but measured outcomes were highly heterogeneous. Strength of evidence was low, and most studies were pre–post evaluations of low to moderate quality. Within these limits, evidence suggests that interventions can improve perceptions of safety culture and potentially reduce patient harm.



The purpose of the study was to determine the efficacy and safety of nonantimuscarinic treatments for overactive biadder. Medine, Cochrane, and other databases (inception to April 2, 2014) were used. We included any study design in which there were 2 arms and an n > 100, if at least 1 of the arms was a nonantimuscarinic therapy or any comparative bial, comparative bial, and the state of a stress of a stress of the study design in which there were 2 arms and an n > 100, if at least 1 of the arms was a nonantimuscarinic therapy or any comparative bial, comparative bial, and the state of the stress of an extension of the study of the stress of the study of t

### **Culture vs System**

#### In <u>Simple</u> Systems, Outcomes Flow From Culture.



In <u>Complex Adaptive</u> Systems, Outcomes Flow From Systems. Culture Also Flows from Systems.



## Core Concept #1 *Implication*

### We should adopt a systems-based approach to transformation and culture.



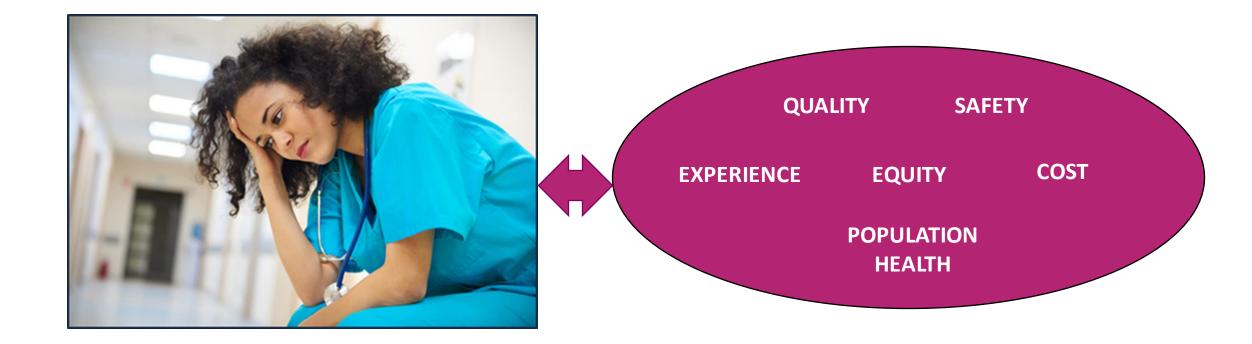
### **Core Concept #2**

### Healthcare has adopted a fragmented approach to improvement











### Core Concept #2 Implication

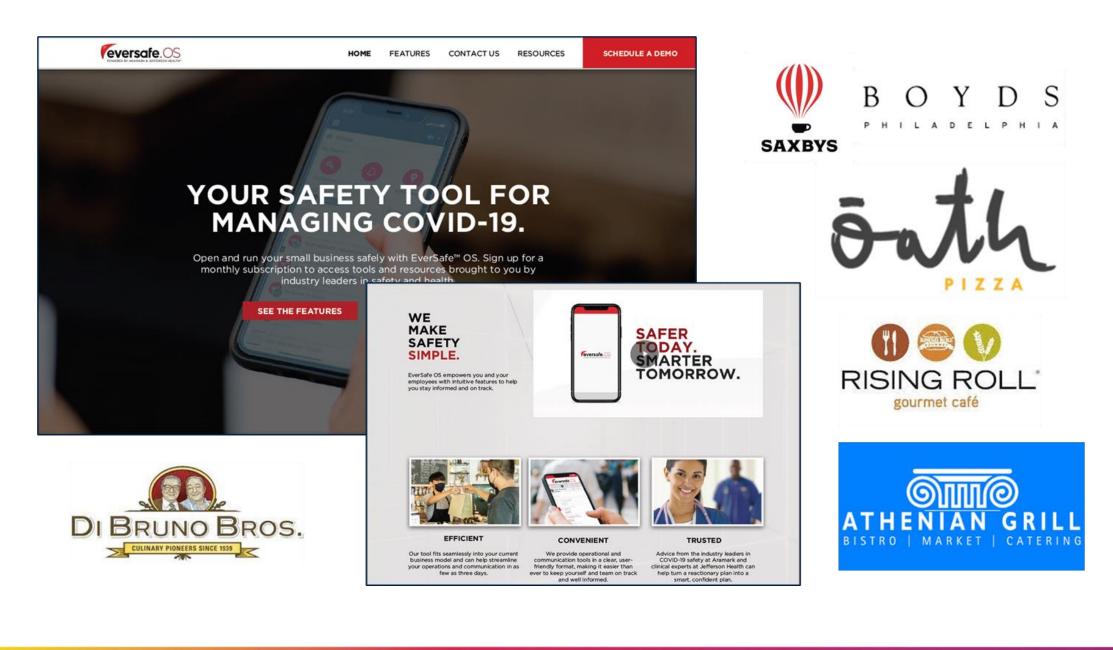
### We should <u>integrate</u> our management of the Primary Domains of Clinical Outcomes (PDCO): Quality, Safety, Experience, Equity, Cost, and Population Health.



### **Core Concept #3**

# Create an awesome experience for your team.





#### Pulse Program FY23 Playbook





### $\hat{\mathcal{O}}$

The Pulse Program will enable every team member to participate in meaningful improvement of the care that we provide and the systems that we utilize every day. Introduction and purpose

Pulse Program overview

The Pulse Program serves as a dynamic learning a team. The Pulse Program integrates quality, safety value and population health improvement into or care. Having a dynamic, highly visible system to s improvement is critical to achieving our purpose.

This program will engage team members and the meaningful improvement of the care we provide a day. It will also enable all levels of clinical and ope improve how we are doing within their areas of the mean of the second se

#### Here's what you should look for and gain from t • Understanding of the current priorities and majo

- Safety Management System
  Experience Management Program
- Clinical Advancement Program
  Understanding of and access to the programs a
  Understanding of who is doing what
  Understanding of how the Pulse Program will ei
- 30, 2023) • Understanding of how team members can get i

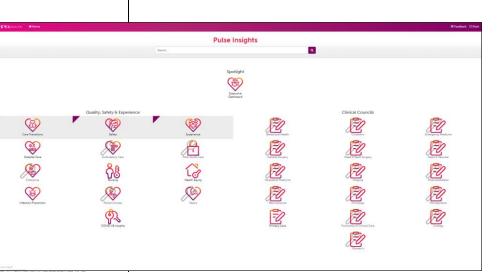
We have many best-in-class tools and resources to because these various tools and resources are ho

difficult for leaders and team members to view and analyze data insights and know where to find resources for improvement. The Pulse Program pulls all these tools and resources together into a single system, making it easier for leaders and team members to understand how we are doing and to access improvement resources that support care delivery and services.

Why? We want to bring it all together:



Additional information on the Pulse Program can be found here.







Program

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## Core Concept #3 *Implication*

### Build a branded and usable total learning system.



### Pulse Program: Building our Total Learning System



Jonathan L. Gleason, MD EVP | Chief Clinical Officer

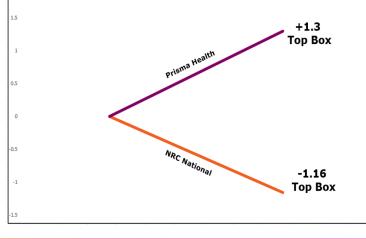
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### **Improving the Patient Experience...**

System-Level Metrics	Weight	Weight Base		Baseline		FYTD Performance		Below	FY23 Goal Let Below Entry Target		stretch Superstretch		Rolling 12-month Trend
weenes		Top Box	Rank	Тор Вох	Rank	1	2	3	4	5			
Acute Care Composite	45%	73.0%	37	75.1%	46	<73.05%	73.05%	73.1%	73.8%	74.6%	$\checkmark$		
Medical Group- Ambulatory Composite	45%	89.2%	62	90.7%	71	<89.29%	89.29%	89.3%	89.8%	90.4%			
Post-Acute Composite	10%	88.0%	78	89.0%	64	<88.05%	88.05%	88.1%	88.5%	89.0%	$\langle \rangle$		
TOTAL COMPOSITE	100%	81.8%	52	83.5%	59	<81.86%	81.86%	81.9%	82.5%	83.2%			

Likelihood to Recommend





### **Improving Safety and Quality...**

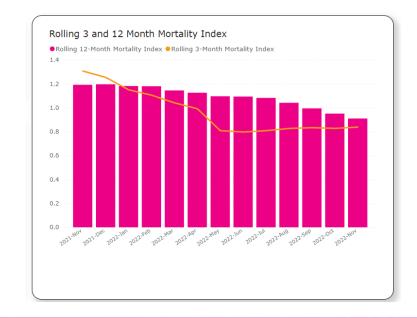
Mortality Observed/Expected (O/E) (excludes hospice)	0.88	0.72	0.82	0.69	10%	12.00	0.85	0.82	0.79	0.77	0.74	0.72	
Sepsis Mortality Observed/Expected (O/E) (excludes hospice)	1.10	0.85	1.00	0.85	10%	12.00	1.04	1.00	0.95	0.91	0.89	0.85	
Readmission Rate (30 day all-cause, unplanned, all-payer, same facility)	9.01%	8.87%	8.87%	7.81%	10%	10.66	8.85%	8.80%	8.81%	8.77%	8.83%	8.87%	$\searrow$
Excess Days (EDAC)	8.30	4.17	7.89	-5.47	5%	4.88	5.10	5.18	4.95	4.97	4.75	4.17	
PSI-90 Composite	0.83	0.76	0.77	0.64	10%	10.73	0.81	0.77	0.77	0.75	0.77	0.76	$\overline{\ }$
Great Catch Event Counts	250	272	275	200	1 50/	12.00	200				250		$\sim$ $^{-1}$

15%

12.00



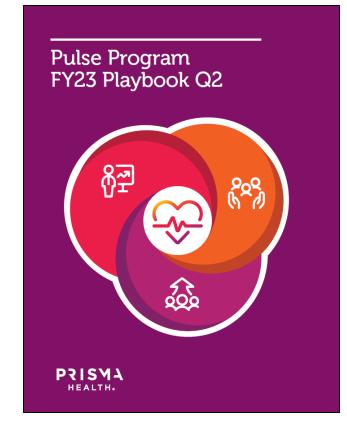
(monthly data)



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### **System + Culture = Improvement**





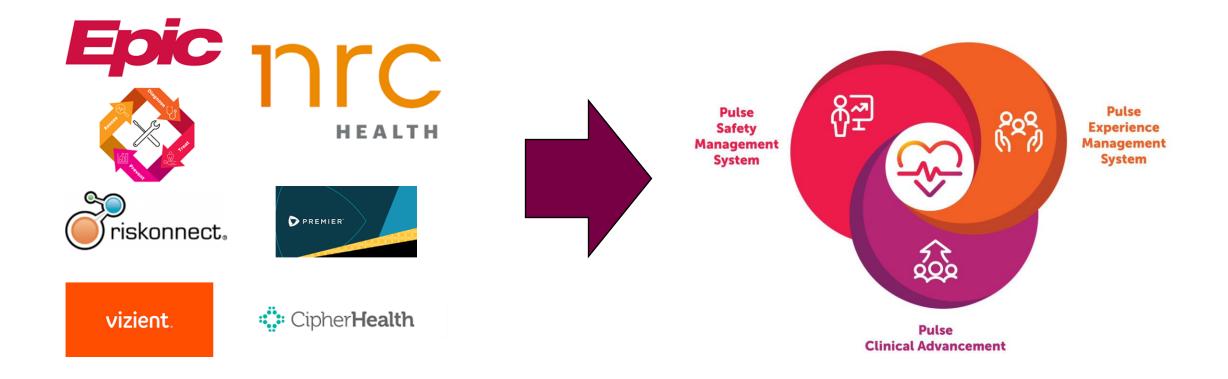






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### **Total Systems Approach...**





#### Pulse Program FY23 Playbook





#### Table of contents

Pulse Program overview	2
Introduction and purpose	
Strategic direction	4
Scope	4
Guiding principles	
Pulse Program milestones	
FY22 performance summary: How are we doing?	
FY23 priorities and goals	7
Safety Management System	8
Escalating Tiered Huddle Program	
Pulse Rower	
Just Culture and Safety Culture Algorithm	
Infection Prevention Program	
Culture of Safety Survey	
Disclosure and Resolution Program	
Root Cause Analysis Program	
Experience Management Program	
Pulse Experience Insights	
Experience Coaching Program	
Experience Learning Collaboratives	
Pulse Rounding	
Patient Voice (PFAC/PAC)	
Patient Advocacy	
Clinical Advancement Program	
Clinical Specialty Councils	
Foundational elements	
Pulse landing page	
Pulse Insights	
Prisma Health Improvement Methodology (ADTP)	
Impact Boards	
Appendix	
Pulse Program implementation timeline	
Pulse Program team	
Resources	
EV23 gools	7.4



#### The Pulse Program will enable every team member to participate in meaningful improvement of the care that we provide and the systems that we utilize every day.

#### **Pulse Program overview**

#### Introduction and purpose

The Pulse Program serves as a dynamic learning and improvement system for our team. The Pulse Program integrates quality, safety, experience, health disparities, value and population health improvement into one system that enhances patient care. Having a dynamic, highly visible system to support our culture of learning and improvement is critical to achieving our purpose.

This program will engage team members and the community to participate in meaningful improvement of the care we provide and the systems we use every day. It will also enable all levels of clinical and operational leaders to monitor and improve how we are doing within their areas of the organization.

#### Here's what you should look for and gain from this Pulse Program playbook:

- Understanding of the current priorities and major work across Prisma Health
- Safety Management System
- Experience Management Program
- Clinical Advancement Program
- Understanding of and access to the programs and tools used for improvement
  Understanding of who is doing what
- Understanding of how the Pulse Program will evolve in FY23 (Oct. 1, 2022–Sept. 30, 2023)
- . Understanding of how team members can get involved

We have many best-in-class tools and resources that have helped us improve. But because these various tools and resources are housed in different locations, it is difficult for leaders and team members to view and analyze data insights and know where to find resources for improvement. The Pulse Program pulls all these tools and resources together into a single system, making it easier for leaders and team members to understand how we are doing and to access improvement resources that support care delivery and services.

#### Why? We want to bring it all together:

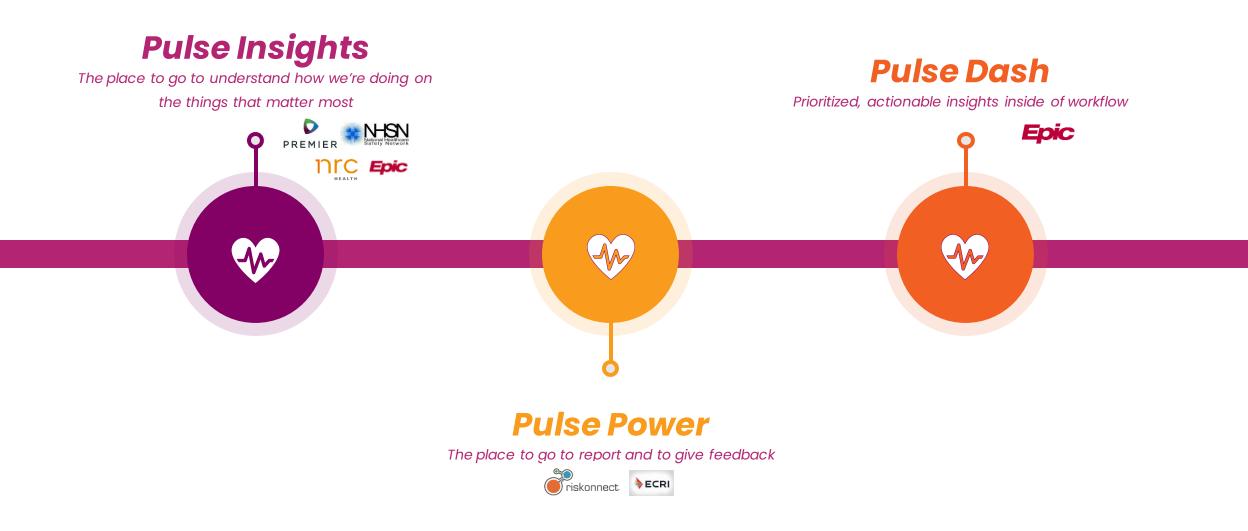


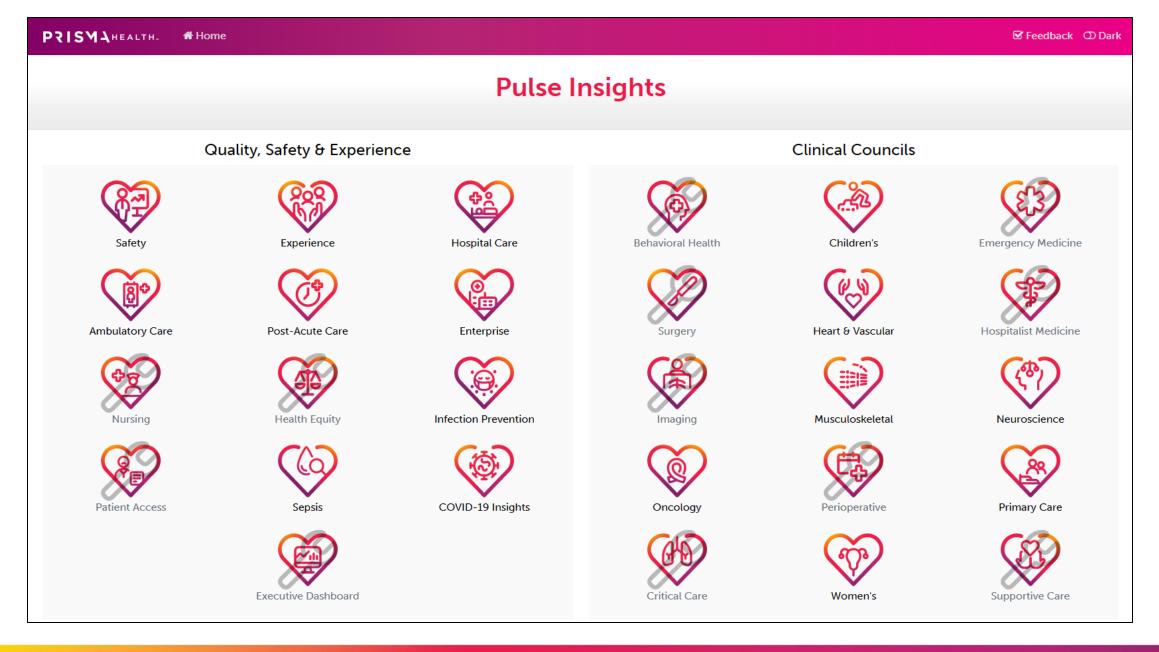
Additional information on the Pulse Program can be found here.

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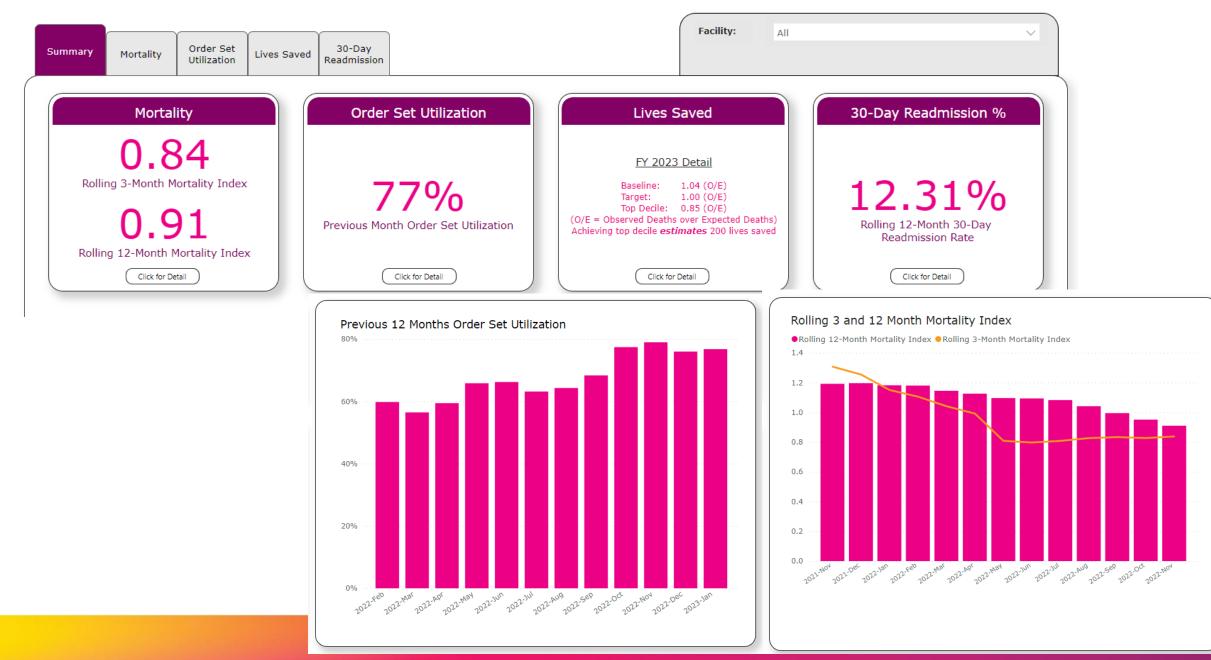
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### **Pulse Technology Stack**



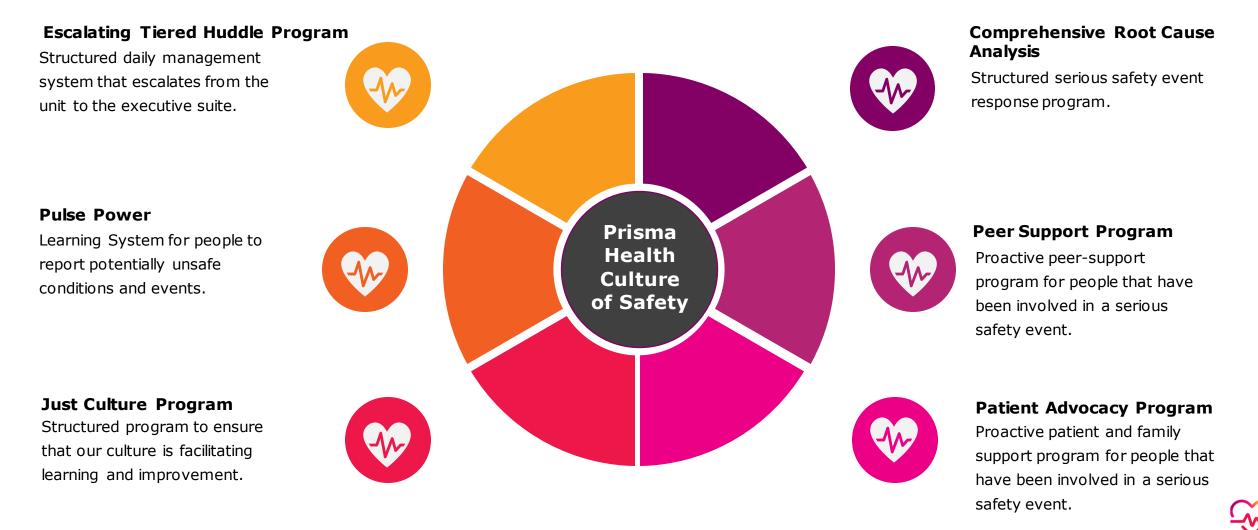


#### Sepsis



### Safety Management System

The Pulse Safety Management System is a dynamic learning system that enables all team members to participate in our daily activities to identify and mitigate risks, to improve our safety, and to support people that have been involved in safety events. This learning and improvement system enables our Culture of Safety.

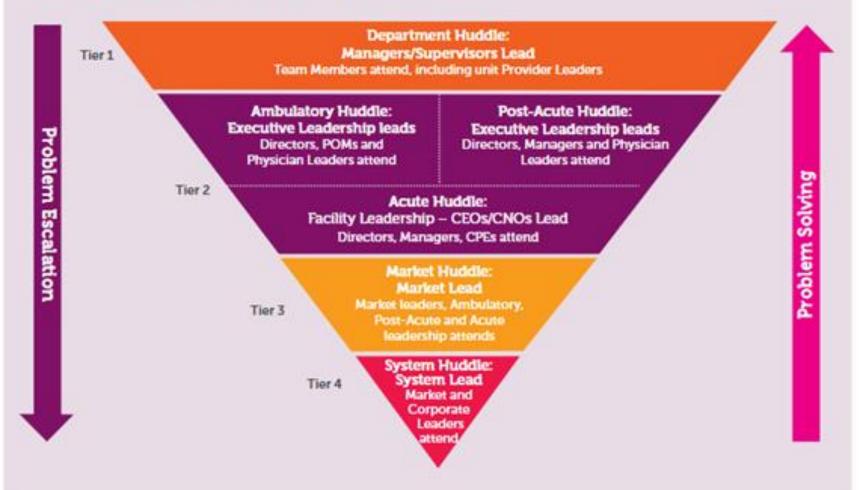


#### PrismaHealthPulseProgram@prismahealth.org

### **Escalating Tiered Huddle**



#### Prisma Health Tiered Huddles Process



### Pulse Power 😔

Learning System for people to report potentially unsafe conditions, safety events, and to tell us how we can improve our systems.

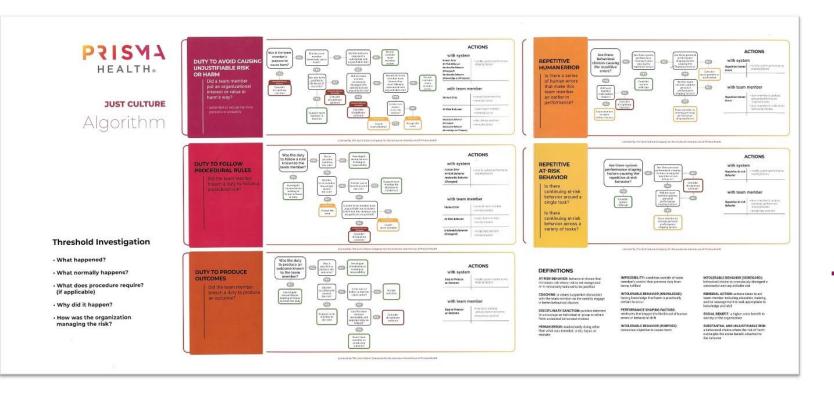
### **Event Reports Good Catches** Series Safety Events Number of Events Time

#### Learning System



### **Just Culture**





Use a Just Culture algorithm to respond fairly and consistently to behaviors

Shift from focus on <u>severity</u> of events and outcomes to <u>choices and risk</u>



### **Experience Management Program**



#### Experience Coaching Program

Focused, structured team member, leader and physician direct observation coaching.

#### Experience Learning Collaboratives

Focused application of the Prisma Health Improvement Methodology to improve Patient Experience.

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#### **Pulse Rounding**

Standardized patient and team member facing rounding practices to capture insights and improve.

#### **Patient Advocacy**

Resolution of patient concerns and proactive rounding to mitigate complaints and grievances.

#### **Patient Voice**

Patient Family Advisory Councils and Online Patient Advisory Community partner to co-create our delivery of care and services.

### **Experience Learning Collaboratives**



Experience Learning Collaboratives

Focused application of the Prisma Health Improvement Methodology to improve Patient Experience.

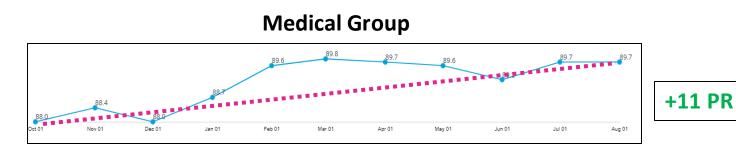
Completed and/or in progress **130+** 

#### **OP** Testing/Lab

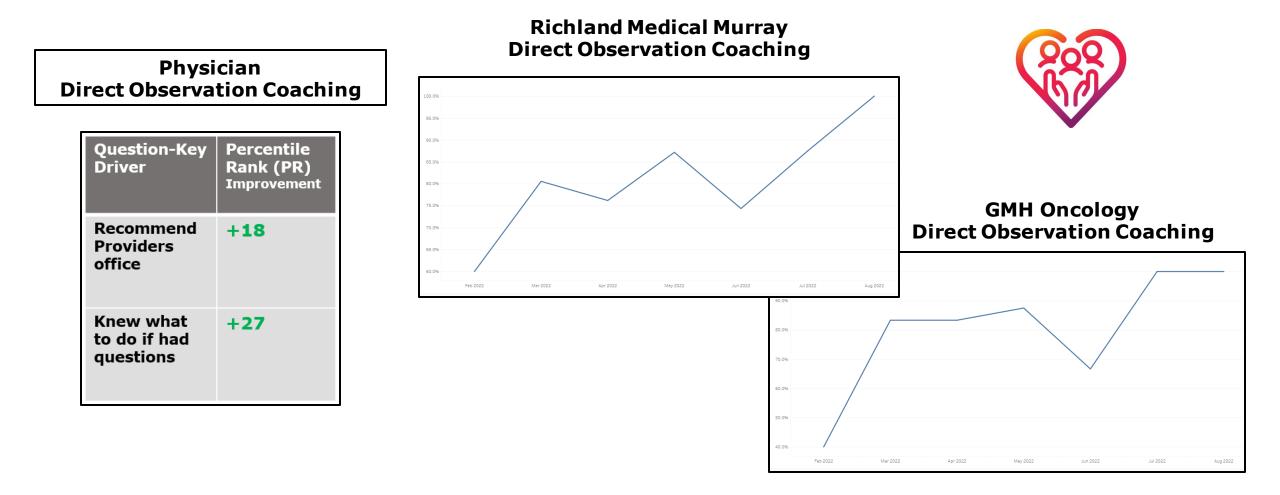


#### Emergency





### **Direct Observation Coaching**



### **Pulse Rounding**

Learning System for leaders to capture real time care gaps, identify and resolve service recovery opportunities, recognize team members and improve patient and team member engagement.

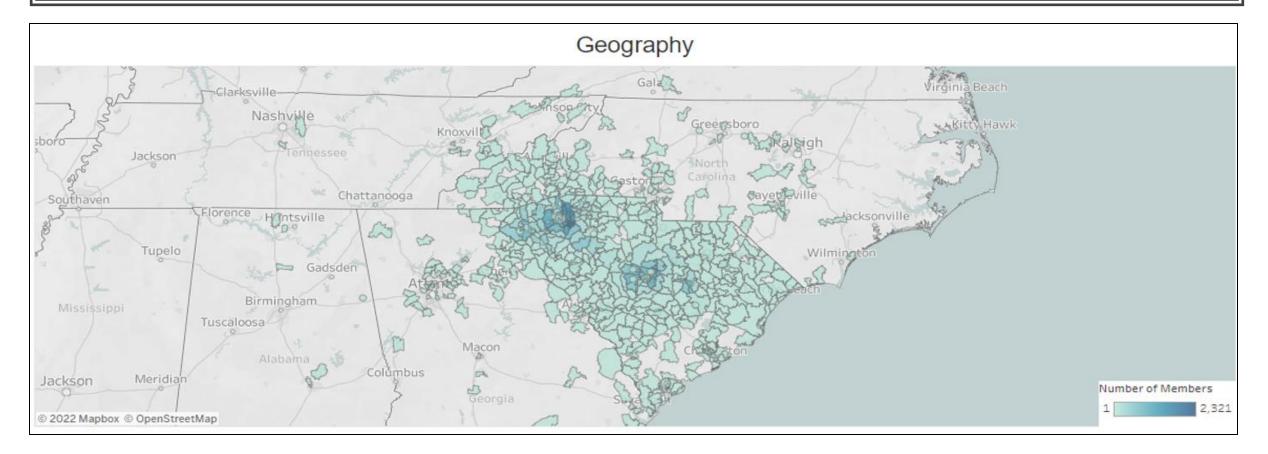


#### Total Recognitions: 2,318

Rounding activity and opportunity areas										
Facility	Patients Present	Number of Patients Rounded On	Percent of Patients Rounded On	Patients with an Opportunity Area Identified	Percent of Patients with an Opportunity Area Identified					
BAPTIST COLUMBIA HOSPITAL	458	272	59.4%	107	39.3%					
BAPTIST EASLEY HOSPITAL	139	60	43.2%	20	33.3%					
BAPTIST PARKRIDGE HOSPITAL	209	123	58.9%	10	8.1%					
GREENVILLE MEMORIAL HOSPITAL	1,695	893	52.7%	355	39.8%					
GREER MEMORIAL HOSPITAL	239	117	49%	55	47%					
LAURENS COUNTY MEMORIAL HOSPITAL	129	73	56.6%	33	45.2%					
OCONEE MEMORIAL HOSPITAL	278	206	74.1%	81	39.3%					
PATEWOOD MEMORIAL HOSPITAL	265	81	30.6%	4	4.9%					
RICHLAND HOSPITAL	1,162	665	57.2%	207	31.1%					
TUOMEY HOSPITAL	305	190	62.3%	32	16.8%					
Totals	4,879	2,680	54.9%	904	33.7%					

### Online Patient Advisory Community (OPAC) Opt-in Through Survey

#### 50,000+



### **Clinical Advancement Program**



The **Clinical Advancement Program** enables clinical experts to collaborate with patients to move the needle on **quality**, **safety**, **experience**, **equity**, **cost**, **and population health** across South Carolina.

Clinical Specialty Councils									
Behavioral Health	Heart & Vascular	Nursing	Primary Care						
Children's	Musculoskeletal	Oncology	Supportive Care						
Critical Care	Neuroscience	Perioperative	Women's						

Quality Officer

Midlands	Upstate	Population	Nursing	Community	inVio	Digital	Patient/	Process	Patient	Quality
physicians	physicians	Health		Health	Health	Health	Family	improvement/	experience	and
					Network	(	member	Project		safety
								management		





### **Foundational Elements**

#### Prisma Health Improvement Methodology (ADTP)



A = ASSESS D = DIAGNOSE T = TREAT P = PREVENT



## What about the Culture and TEAM???



#### **OPERATING SYSTEM + LEADERSHIP = RESULTS**





### **CULTURE**







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### **QUESTIONS?**