

2024 VIZIENT CONNECTIONS SUMMIT

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Data Driven Excellence: Leveraging Quality Data to Optimize Health System Performance

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Learning Objectives

- Describe the interprofessional governance group structure that drives improvement for prioritized patient outcomes.
- Identify key variables to achieve system integration of quality and safety across a health system.



Data Driven Excellence: Leveraging Quality Data to Optimize Health System Performance

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UCHealth: University of Colorado Hospital (UCH)

University of Colorado is the largest academic health center in the Rocky Mountain region

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University of Colorado Hospital

- 1,931,055 outpatient visits
- 179,926 ED visits
- 52,072 inpatient and observation admissions
- 31,404 surgeries
- 3,714 babies delivered
- 894 available beds



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About UCHealth

14
Hospitals

4 Northern Colorado
4 Metro Denver
6 Southern Colorado

+2K
Available
beds

579 Northern Colorado
989 Metro Denver
852 Southern Colorado



Poudre Valley Hospital
Fort Collins



Medical Center of the Rockies
Loveland



Greeley Hospital
Greeley



Longs Peak Hospital
Longmont



Broomfield Hospital
Metro Denver



University of Colorado Hospital
Metro Denver



Highlands Ranch Hospital
Metro Denver



Memorial Hospital North
Colorado Springs



Grandview Hospital
Colorado Springs



Memorial Hospital
Colorado Springs



Pikes Peak Regional Hospital
Woodland Park



Yampa Valley Medical Center
Steamboat Springs



Parkview Medical Center
Pueblo



Parkview Pueblo West Hospital
Pueblo

More than:

33K employees

119K surgeries

2.7M unique patients

8.6M outpatient, urgent care and
emergency room visits

16K babies
delivered

7K affiliated or
employed providers

973 new patients per day

174K inpatient admissions and
observation visits

UCH Strategy for Prioritizing Quality and Safety Measures



- **Patient-centered**

- Consider number of patients impacted
- Consider patient harm

- **Impactful**

- Consider measures that cross several areas of impact/ several programs – “cross-cutting”

- **Actionable and benchmarkable**

- **Sustainable**

- Consider **performance-over-time**, sustainability and consistency. Represents value to organization for at least 2-3 years



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UCH Strategy for Prioritizing Quality and Safety Measures



Safety Measures
Falls with Injury
PSI-03: Pressure Injury Rate
CLABSI SIR
CAUTI SIR
C-Diff SIR
Hypoglycemia and Insulin Use
Perioperative Safety
SSI HYST SIR
SSI COLO SIR
PSI-09- Post-op Hemorrhage or Hematoma
PSI-12- Perioperative PE or DVT
PSI-13- Postoperative sepsis
Mortality
Patient Centeredness
Improve Patient Safety Culture

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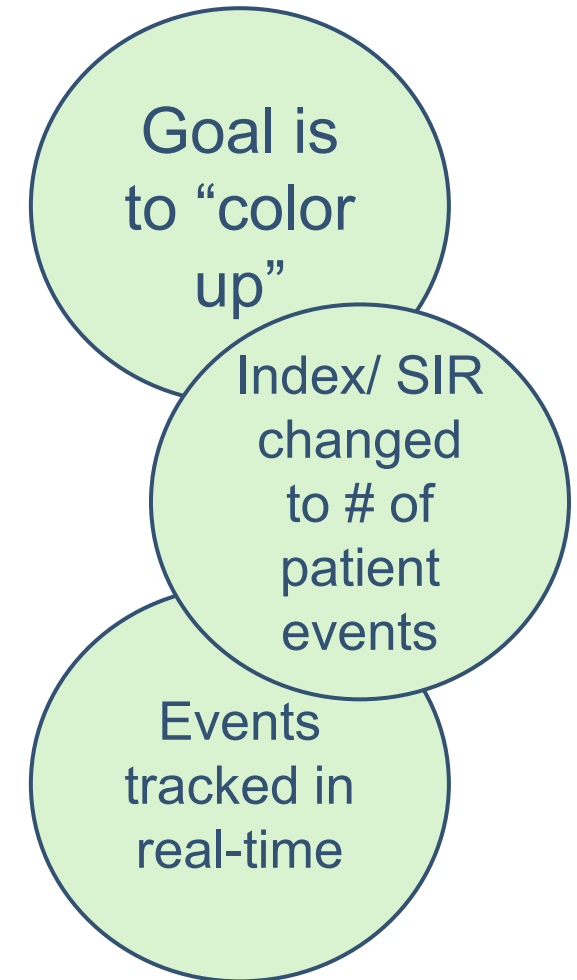
UCH Quality Data to Track Effectiveness

	Baseline Performance		FY Goal			Current Performance*	
	Performance	Number of Events	Target Performance (less than)	Threshold Number of Events (annually)	Threshold Number of Events (monthly)	Number of Events/ Index	% to FY Goal On target to reach goal
Safety							
Falls with Injury Rate							
PSI-03 Pressure Injuries Index							
CLABSI SIR							
CAUTI SIR							
C-DIFF SIR							
Hypoglycemia in Insulin Use Rate							

* Current performance is the number of events identified as of the current date.
 On track progress to goal is determined by comparing % of days through year to % to threshold: On track = <90%, on watch = 90-110, off track = >110%

	FY25 (Year-to-Date)					
	Falls with Injury	HAPI: PSI-03	CLABSI	CAUTI	C-Diff	Hypoglycemia and Insulin Use
Acute Care						
AC Unit A	0	0	0	0	0	0
AC Unit B	2	2	1	0	1	1
AC Unit C	1	0	1	0	0	0
Critical Care						
CC Unit A	2	0	0	0	0	0
CC Unit B	0	0	0	0	0	2
FY25 Total To-Date	28	6	6	1	10	29
FY25 Threshold/ Goal # of Events	106	19	30	17	72	180
% to Threshold Goal / On Track to Reach FY25 Target?^	26.4%	31.6%	16.6%	5.9%	13.9%	20.0%

* All numbers displayed are for internal tracking purposes and may differ from reportable events. Delay in microlab results may affect infection measure reporting *
 ^ On track progress to goal is determined by comparing % of days through year to % to threshold: on track = <90%, on watch = 90-110, off track = >110%



Benchmark key:



Current Performance Key:



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- Executive leadership involvement (executive sponsors)
- Physician and Nurse Dyad Partners (process owners)
- Clinical Quality Specialist (facilitator)
- Hospital governance groups (steers)
 - Connection to system governance groups (clinical effectiveness groups)
- Multidisciplinary and interprofessional subject matter experts and frontline clinicians (project team)

Governance Group Roles and Responsibilities



Executive Sponsors

- Responsible for overall performance
- Assists with project scoping and authorizes project charter approval
- Attends and sponsors key events such as kick off and milestones updates
- Reviews and approves team tactics and milestones
- Removes barriers and controls team resistance to solutions
- Receive updates on project progress from process owners
- Ensures projects are impacting key outcomes as planned
- Celebrates results improvement
- Provides accountability

Clinical Quality Specialist

- Partners with UCH Leadership, local departments and CUSOM Departments/Divisions, to identify areas of key quality and patient safety opportunities
- Identifies trends and root causes to target interventions to drive outcomes towards the top decile
- Measures, analyzes and facilitates improvement in outcome and process metrics
- Performs process analysis, identifies best practices and works with stakeholders to improve processes
- Facilitates Process Improvement and Project Management initiatives when indicated

Process Owners (Dyad Partners)

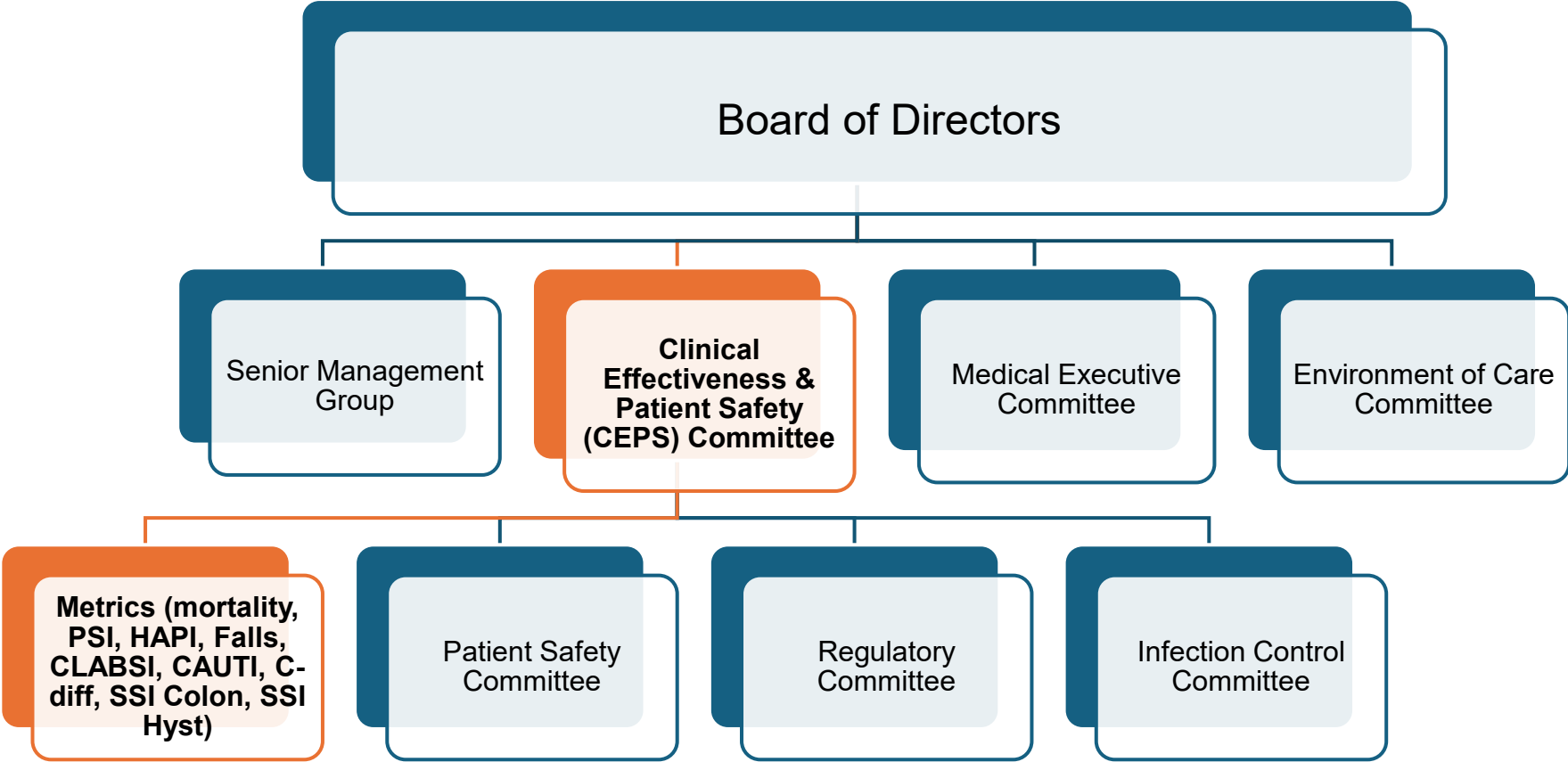
- Co-leads project team
- Leads project charter build
- Identifies SMEs and project team members
- Communicates project intent (why) to involved team members and stakeholders
- Supports the scheduling of meetings
- Leads project meetings
- Holds team accountable to implementation plans and control plans
- Escalates barriers/resistance to solutions to Executive Sponsor(s)
- Partners with quality department to develop needed data and action plans
- Provides accountability for team
- Provides updates on project progress to executive sponsor and reports performance to CEPS when requested

Project Team Member

- Participates as active member and subject matter expert of project team
- Participates in project charter build
- Communicates project intent (why) to stakeholders
- Participates in a majority of project meetings
- Partners with process owners and quality department to analyze data and develop action plans
- Provides updates on project progress to executive sponsor and reports performance to CEPS when requested
- Helps to implement action plans
- Ensures success of project

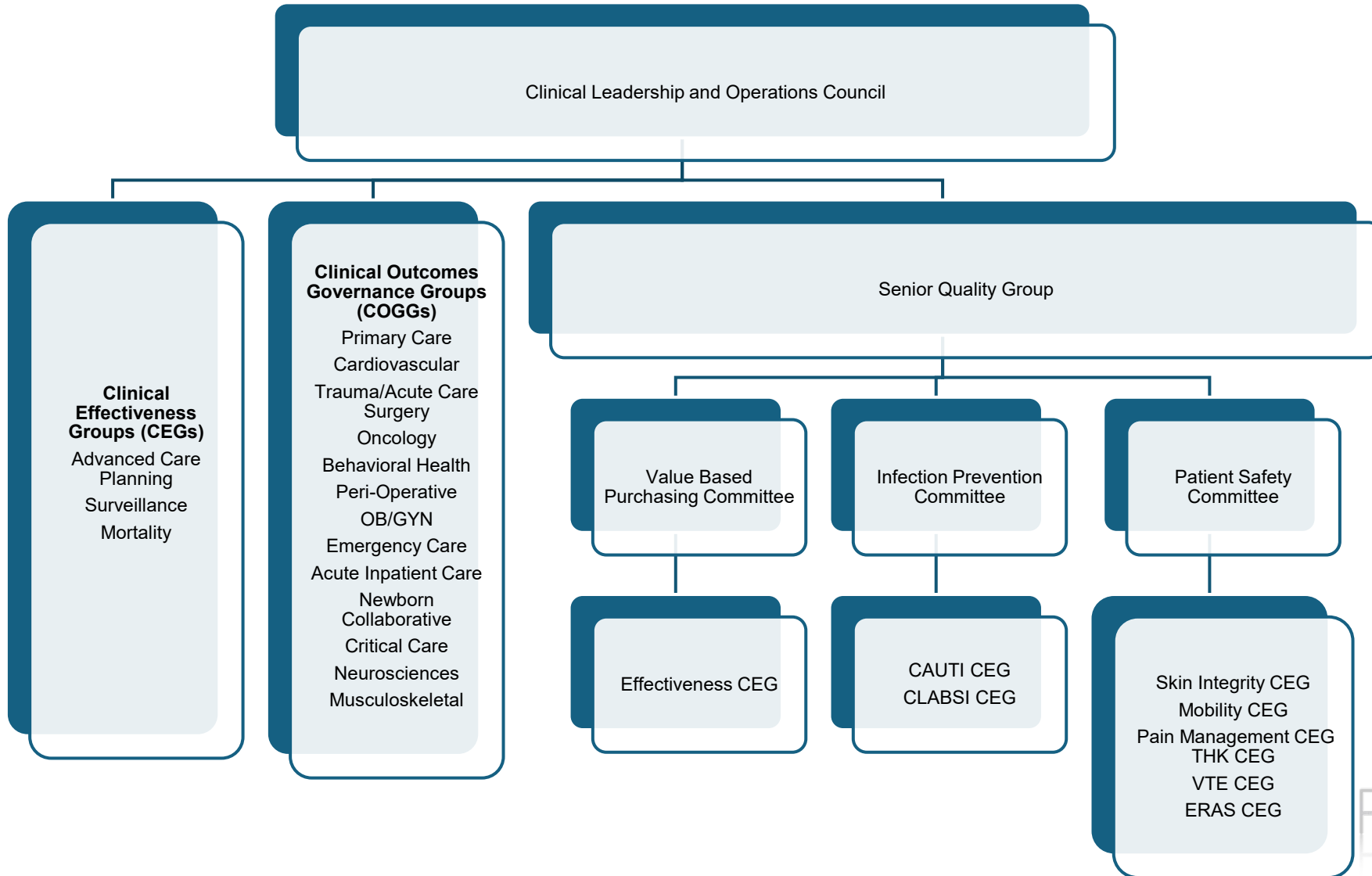
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UCH Quality Governance: Metric Performance

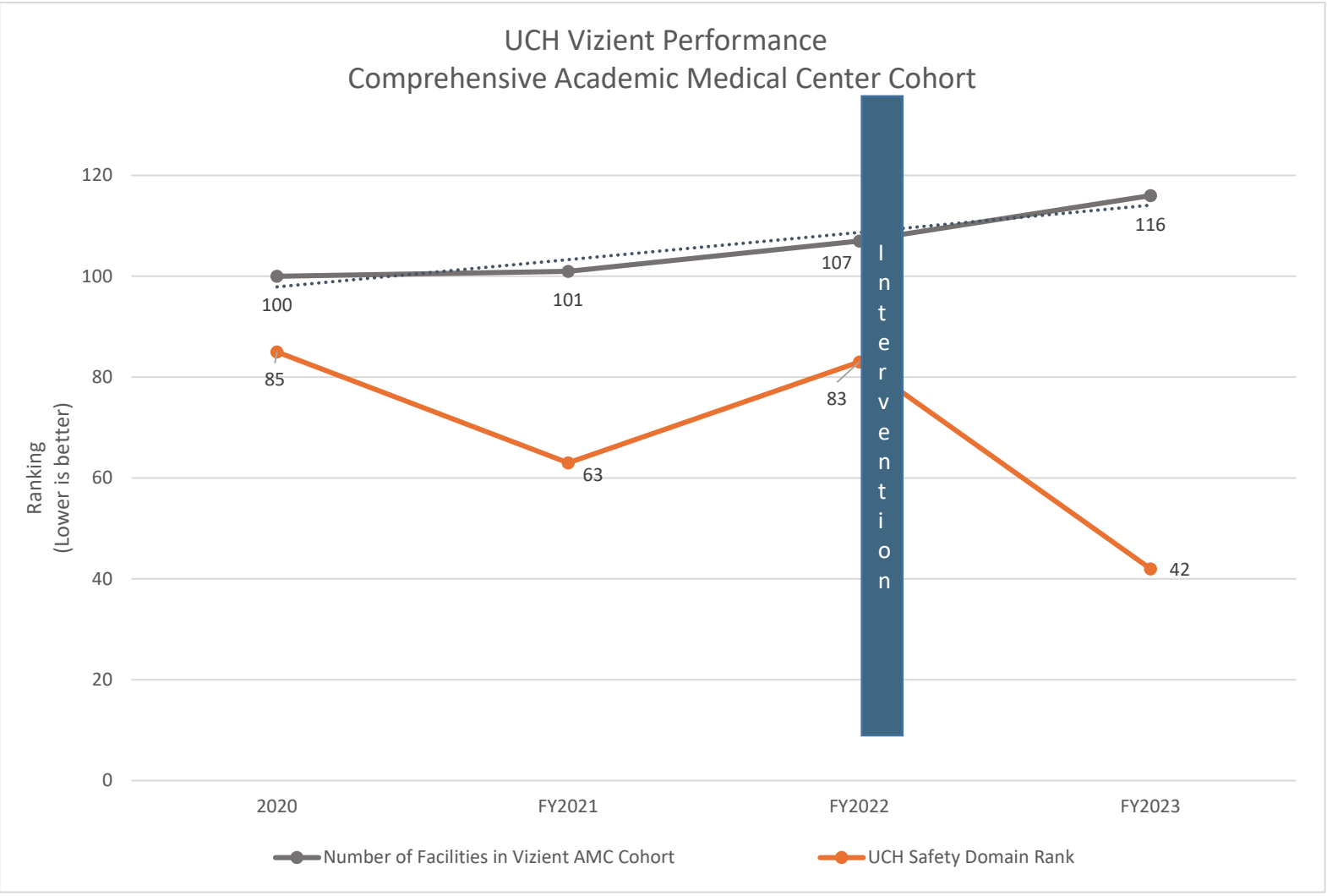


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UCHealth Quality Governance: System Integration



Data Driven. Patient Centered.



- 65%**
(11 of 17) measures improved
- 64**
Fewer safety events
- 41**
Improved rankings in Vizient Safety Domain

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Lessons Learned

- Further refinement to include **levels of prioritization**
- Strategy to **reprioritize or deprioritize**
- Establish objective and measurable **tactics**
- Focus on **strength of implementation strategies**

Key Takeaways

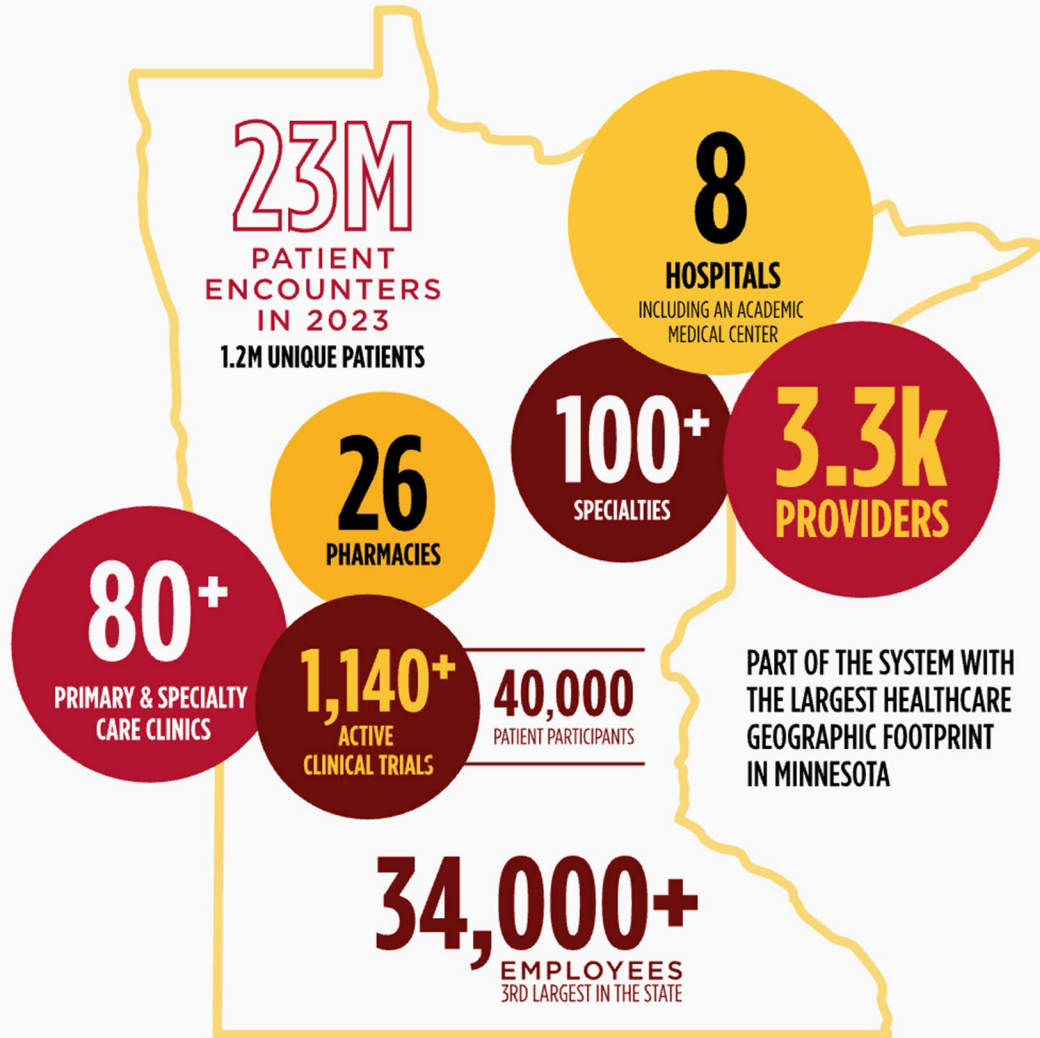
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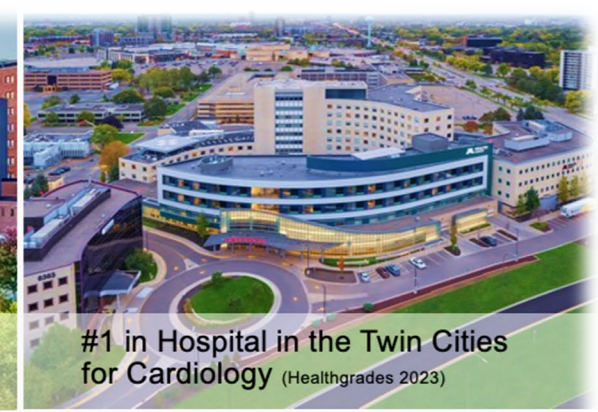
- Always start and end with the **patient**
- Create **structure**
- Set clear **expectations**
- Ensure **accountability**
- Cannot forget about **culture**
 - *Culture eats strategy for breakfast – Peter Drucker*

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About M Health Fairview



Top-ranked Children's Hospital
in the Twin Cities (USNWW 2023-2024)



#1 in Hospital in the Twin Cities
for Cardiology (Healthgrades 2023)

HEALTHCARE FOUNDED IN ACADEMICS

A partnership between University of Minnesota, University of Minnesota Physicians and Fairview Health Services combines the University's deep history of clinical innovation and training with Fairview's extensive roots in community medicine. This means you'll always have access to the latest techniques and advances in medicine - when and where you need them.

HIGH PERFORMING NATIONALLY IN

- CANCER CARE
- GERIATRICS
- UROLOGY
- GASTROENTEROLOGY AND GASTROINTESTINAL CARE
- NEUROLOGY AND NEUROSURGERY
- PULMONOLOGY AND LUNG SURGERY

HOME TO
200 + TOP DOCTORS
IN
73 MEDICAL SPECIALTIES



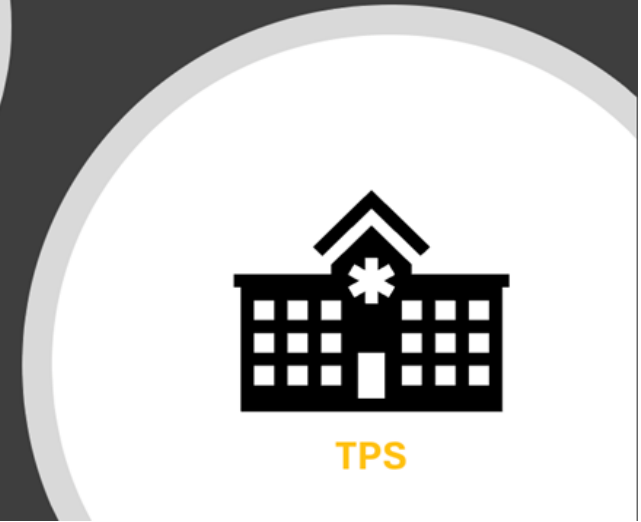
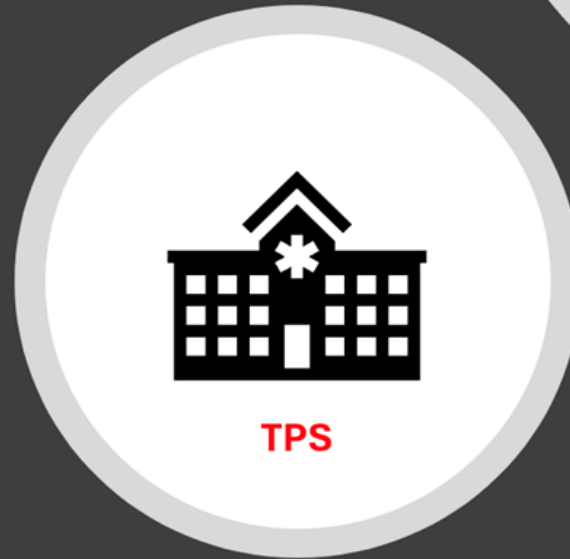
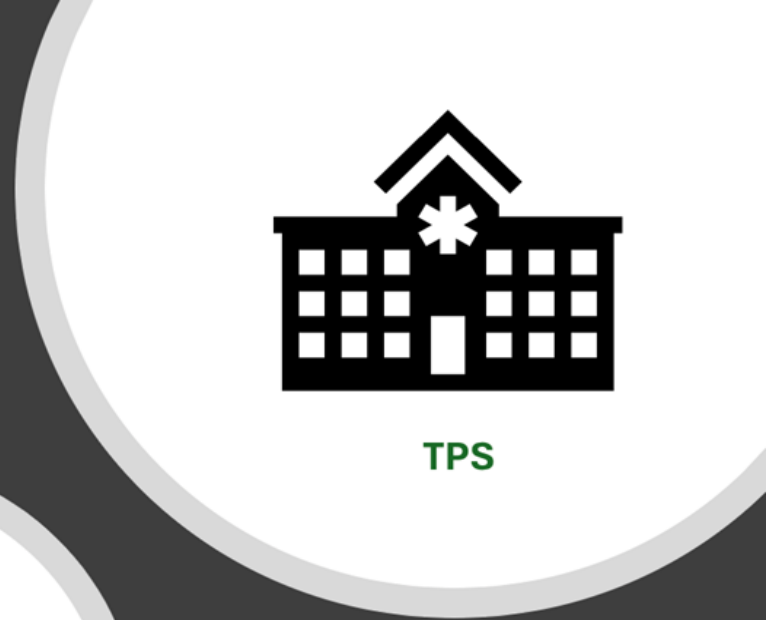
A collaboration among the University of Minnesota,
University of Minnesota Physicians and Fairview Health Services



M HEALTH FAIRVIEW RIDGES HOSPITAL, SOUTHDALE HOSPITAL,
AND UNIVERSITY OF MINNESOTA MEDICAL CENTER WERE RECOGNIZED
AMONG THE TOP HOSPITALS IN THE STATE (USWR - 2024)

A System Measure of Quality "System Total Performance Score"

- Roll up of Total Performance Scores at each hospital
- Weighted by discharge volume
- Able to drill down on opportunities, optimal performance
- Visual line of site for local teams contributing to the system as a whole



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Total Performance Score Report



Developed an in-house reporting & analytics tool to identify areas of opportunity and excellence as it relates to Q&A scorecard on a monthly cadence.



- Collaborative and iterative process- Board/Leadership/Operations
- Four of the six Q & A scorecard domains included
- Volume-based weighting system
- Benchmarked with appropriate hospital cohort
- Target setting yearly by site and across the system for all metrics



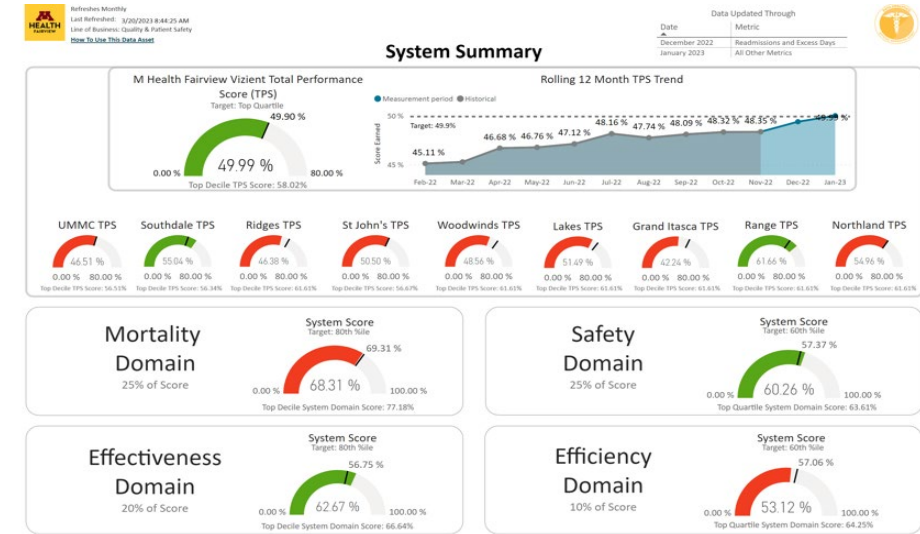
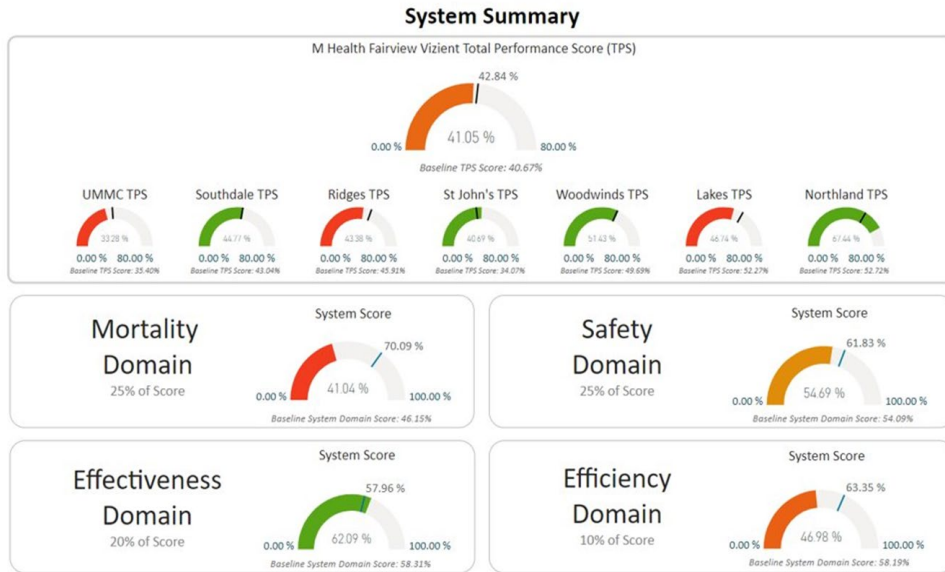
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Total Performance Score Report

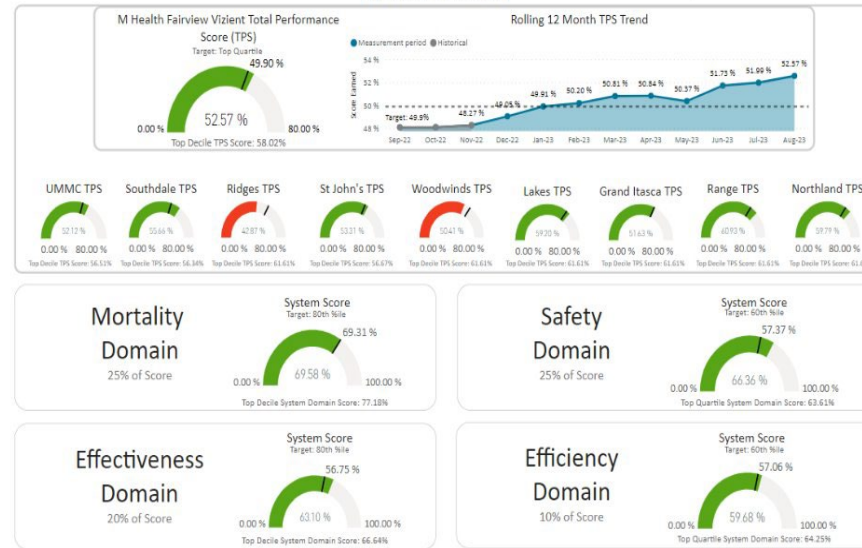


Early version of TPS (2021)

TPS (2022)

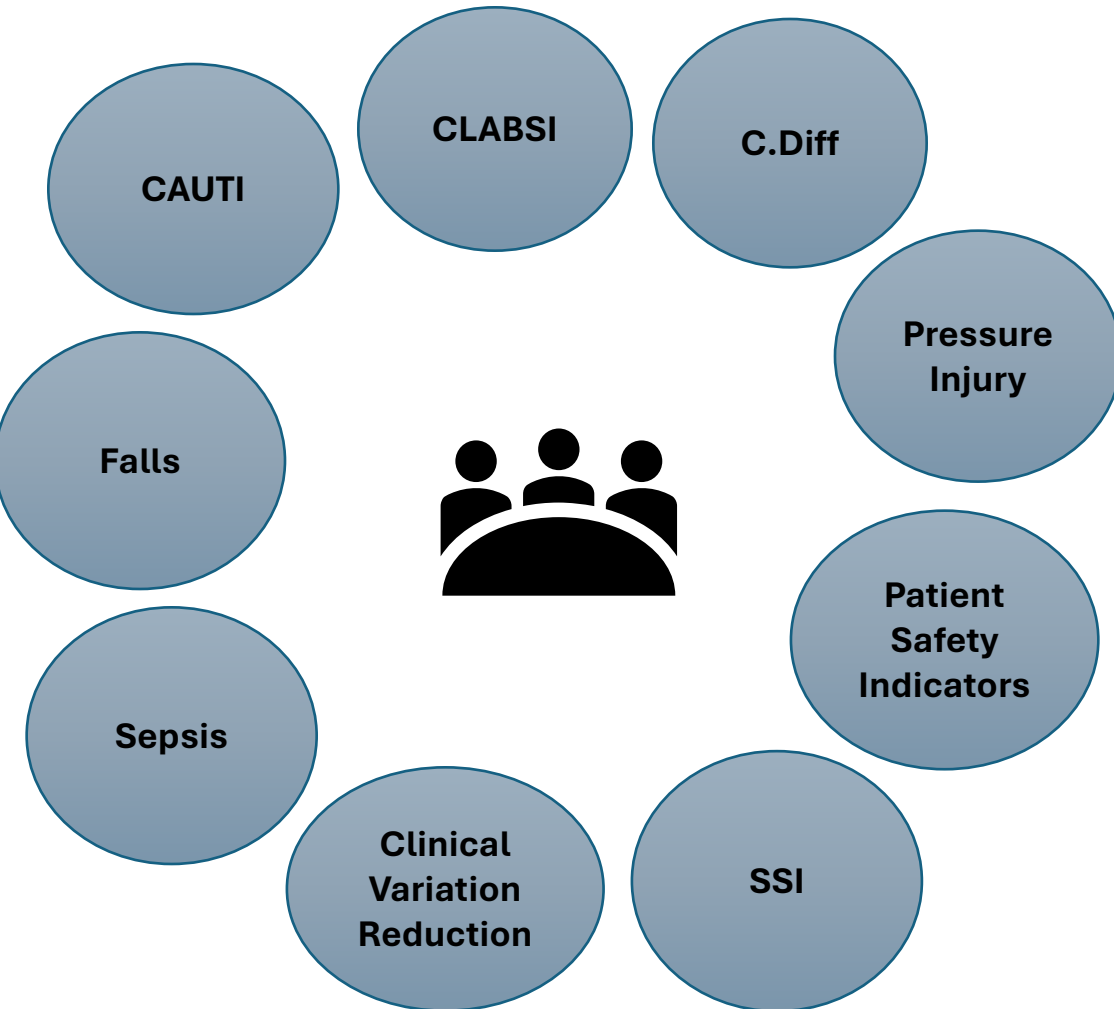


TPS (2023)

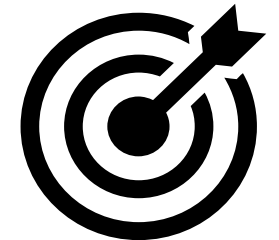


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System Teams and Key Accountabilities

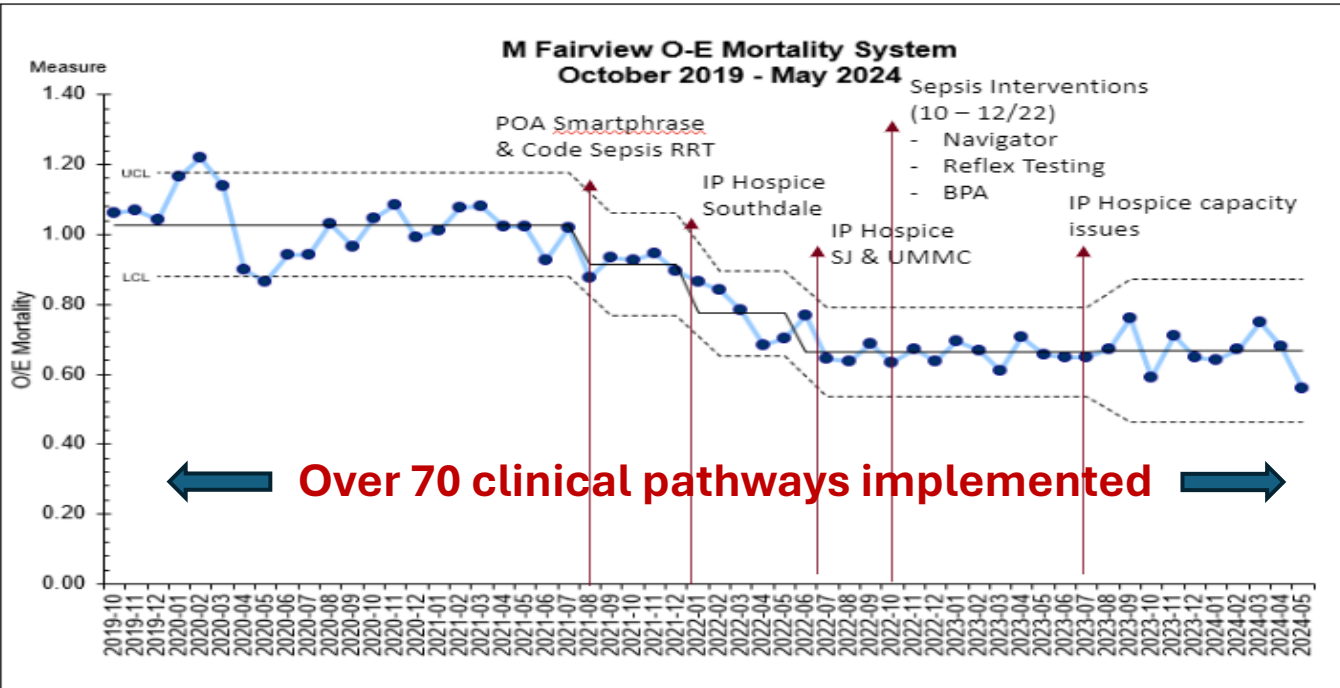


- Interdisciplinary and multi-hospital representation
- Committee charters
- Plan and project A3s
- Customized Power BI applications and reports
- Performance monitoring
- Annual goal setting
- Project prioritization
- Site and system alignment
- System standards and bundles
- Policy development
- Communicate and share results



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Outcomes and Impact



• Mortality

- 58% improvement TPS Mortality Domain
- O/E Mortality reduced >1.0 to .58

Key Strategies

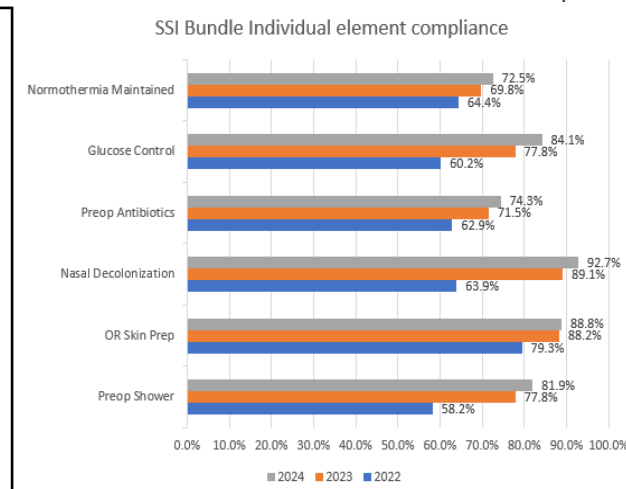
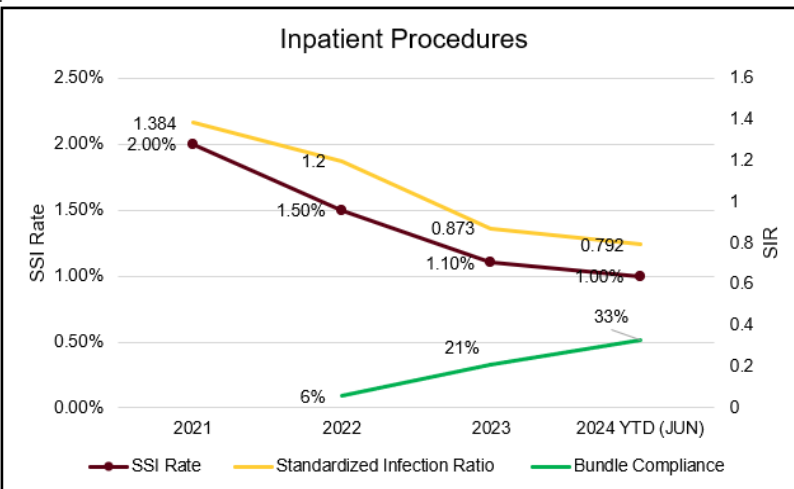
Sepsis, Care Pathways, Risk Variable Capture (Smartphrases), POA Utilization, Inpatient Hospice

• Surgical Site Infections

- 34% reduction in SSI rate and SIR
- Improved bundle compliance

Key Strategies

SSI Bundle
SSI Dashboard
Patient Optimization



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Lessons Learned



- Close collaboration between analytics and key stakeholders is required
- Process around prioritization of projects is key to drive alignment toward goals
- Setting system standards reduces clinical variation, drives high reliability, and helps with discipline around improvement despite significant factors like the global pandemic
- Setting multi-year consistent targets helps with alignment and focus across the system
- Leverage system service lines and strategy deployment structure to cascade information

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Key Takeaways



- System approach to identifying trends helps drive improvement at multiple levels within a healthcare system.
- Setting attainable goals, tied to the strategic planning process, and aligned to the Vizient Q & A benchmarks, was critical to success.
- Utilizing a system structure & visualization for deployment.
- Interactive nature of the tool allows customized drill down capabilities allows easy identification of improvement opportunities improvement.

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Questions?



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