

2024 VIZIENT CONNECTIONS SUMMIT

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# REFLECTION

REFLECT | ADAPT | EVOLVE





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

**Abe Jacob, MD, MHA**, Chief Quality Officer, M Health Fairview, Minneapolis, MN

**Michelle Hodge, MA**, Vice President Quality, M Health Fairview, Minneapolis, MN

**Christy Swarthout, MBA**, Manager Data Analytics, M Health Fairview, Minneapolis, MN

**Kara Tomlinson, MD, MBA**, Vice President, High Reliability, M Health Fairview, Minneapolis, MN

**Linda Staubli, MSN, APRN, CCRN-K, ACCNS-AG**, Program Manager, Clinical Quality and Patient Safety Analysis, University of Colorado Hospital

**Elyse Bueno, MSN, APRN, ACCNS-AG, NE-BC**, Senior Director, Clinical Quality and Patient Safety, University of Colorado Hospital

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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
- 775 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

# National and Colorado Quality Programs



Vizient	USNWR	CMS				Colorado Programs		Leapfrog
Vizient Q&A Hospital Ranking	US News and World Report	Value- Based Purchasing	Star Ratings	Hospital Acquired Condition Program	Hospital Readmission Reduction Program	Colorado HQIP Medicaid Program	Colorado HTP Program	Leapfrog Safety Grade
Mortality (13 service-lines)	30 day mortality (11 specialties)	30 Day Mortality measures (AMI, HF, PN and COPD)	30 Day Mortality (AMI, HF, PN and COPD)				Readmissions LOS	Patient Safety Indicators – PSI-90/PSI-4//HACs
Patient Safety Indicators			Patient Safety Indicators – PSI-90/PSI-4	Patient Safety Indicators – PSI 90		Maternal Health and Perinatal		
Infections	Discharge to home	Infections	Infections			Quality: C-diff	Core Populations: Ischemic stroke, Post-partum, Behavioral Health/ SUD	Infections
Adverse Drug Events – Lab measures			Core measures		30 Day Readmission Stroke AMI COPD HF Pneumonia CABG THA/TKA			
Patient Experience	Patient Experience	THA/TKA Complication	30-day Readmission			Patient Safety Education, zero suicide, antibiotic stewardship ...	ED Measures	Patient Experience
Readmission s/ Excess days	Process (expert opinion, number of patients)	Patient Experience	Excess Days - AMI, HF and PN				Other (telemedicine , e-consults, energy certification, leadership diversity)	
LOS and Direct Cost		Medicare Spending per Beneficiary	Patient Experience	Infections				Process Measures Safety/CPOE / ICU Staffing
Equity	Structure							



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# UCH Strategy for Prioritizing Quality and Safety Measures



- **Patient-centered**

- Consider number of patients impacted
- Consider patient harm

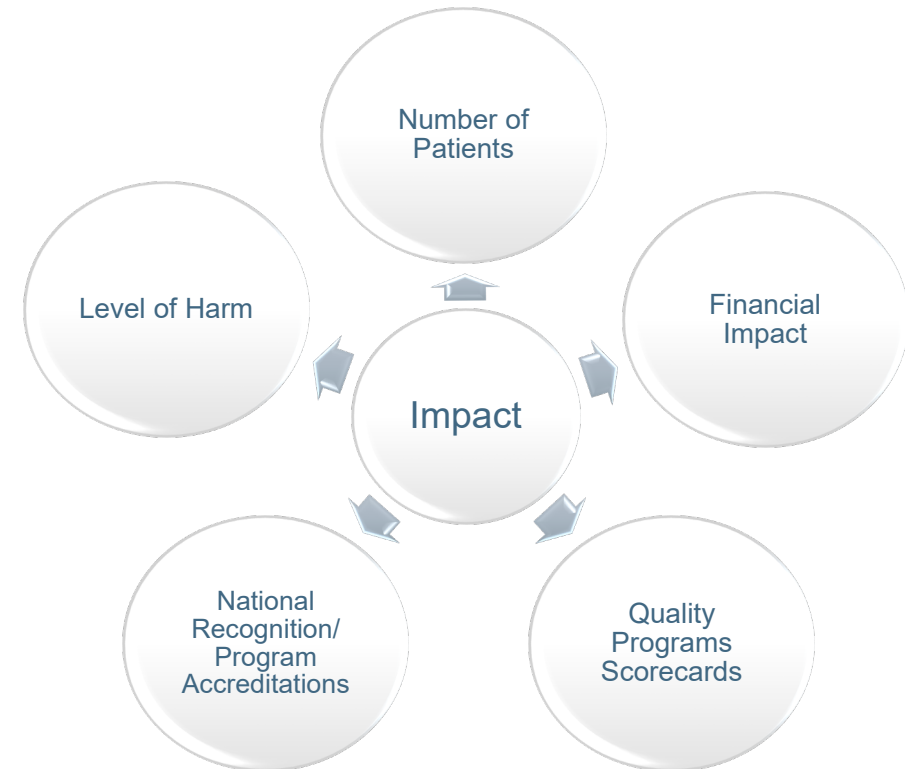
- **Impactful**

- 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



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

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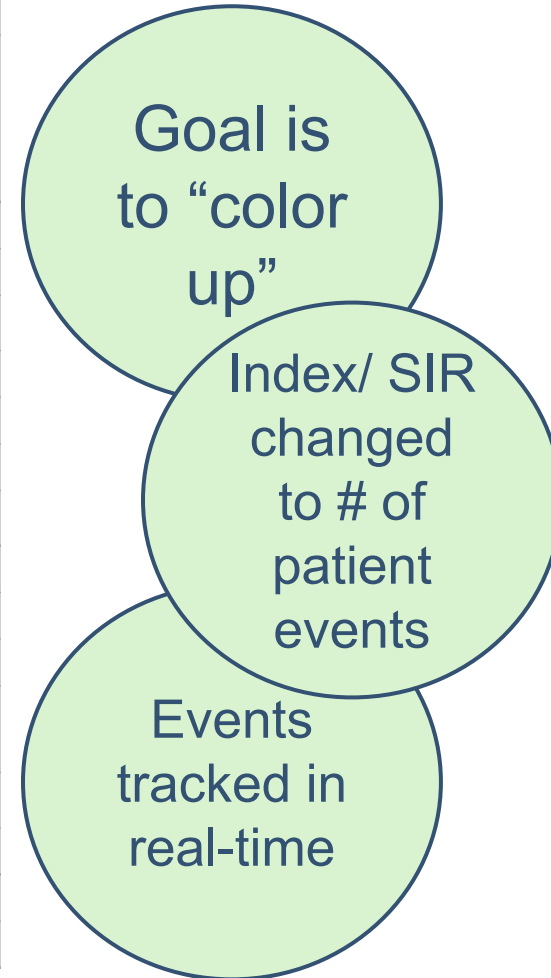
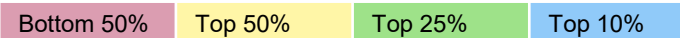
# UCH Quality Data to Track Effectiveness



	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
<b>Safety</b>								
Falls with Injury Rate	0.57	126	0.49	106	8-9	183	172.64%	
PSI-03 Pressure Injuries Index	1.85	32	1.12	19	1-2	49	257.89%	
CLABSI SIR	0.88	37	0.71	30	2-3	27	90.00%	
CAUTI SIR	0.41	21	0.34	17	1-2	15	88.24%	
C-DIFF SIR	0.51	81	0.47	74	6	59	80.11%	
Hypoglycemia in Insulin Use Rate	3.52	232	2.85	187	15	193	103.30%	
<b>Perioperative</b>								
HYST SIR	0.29	1	0.00	0	0	3	300.00%	
COLO SIR	0.92	15	0.68	11	0-1	17	154.55%	
PSI-09 Post-op Hemorrhage or Hematoma Index	0.80	21	0.60	16	1-2	13	81.25%	
PSI-12 Perioperative DVT or PE Index	1.41	70	1.06	52	4	55	105.77%	
PSI-13 Post-op Sepsis Index	0.73	28	0.67	26	2	34	130.77%	
<b>Mortality</b>								
Overall Mortality	0.77	837	0.67	733	61	0.77	N/A	

\* Current performance is the number of events identified as of the "updated" date.  
 "On track" is when the number of events is less than 90% to the improvement target amortized for year-to-date.  
 "Watch" is when the number of events is between 90%-110% to the improvement target amortized for year-to-date.  
 "Off track" is when the number of events is greater than 110% to the improvement target amortized for year-to-date.

**Benchmark 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)

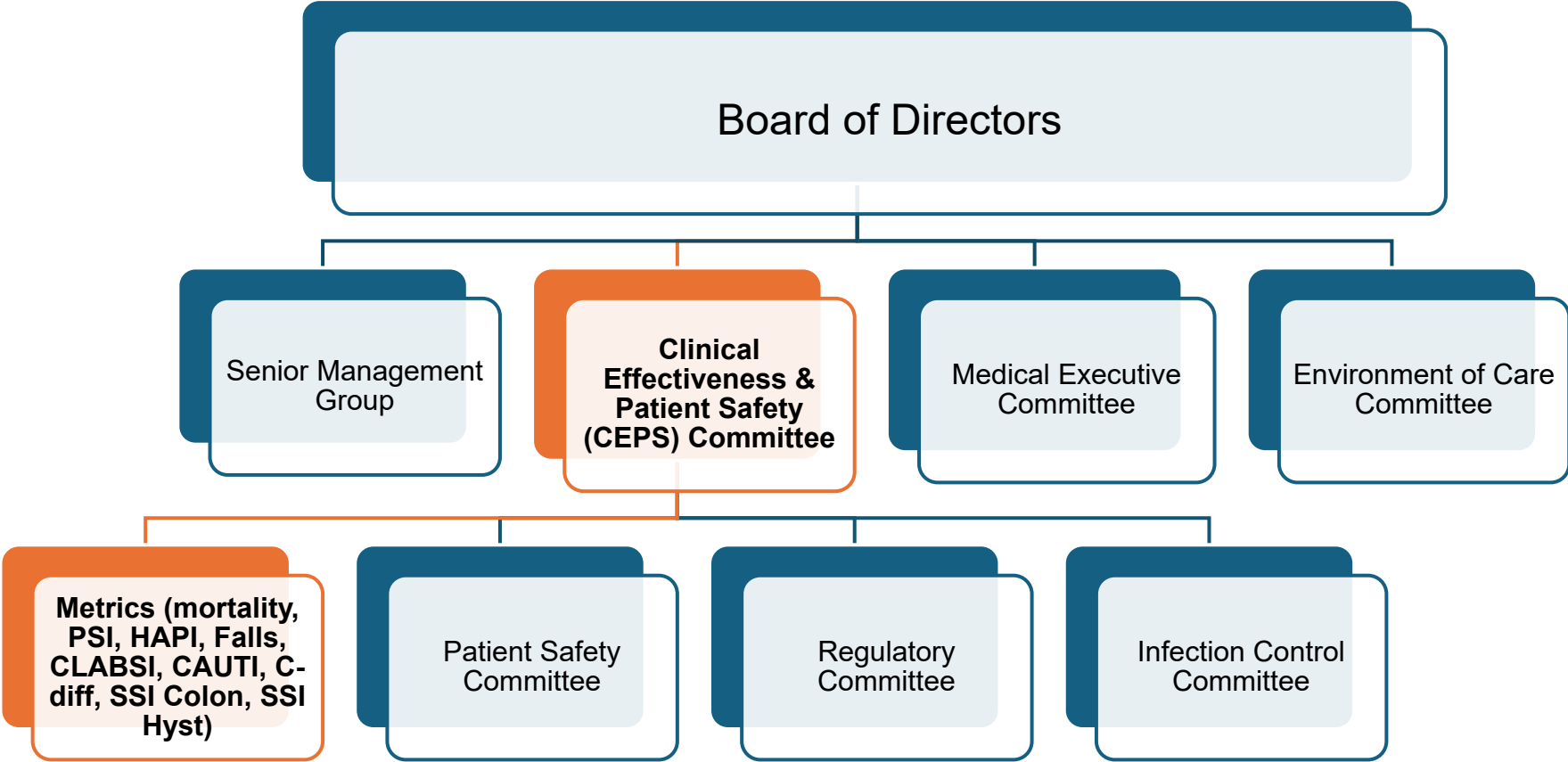
- Co-leads project team
- Leads project charter build
- Identifies SMEs and project team members
- Communicates project intent (why) to involved team members and stakeholders
- Supports the scheduling of meetings
- Leads project meetings
- Holds team accountable to implementation plans and control plans
- 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



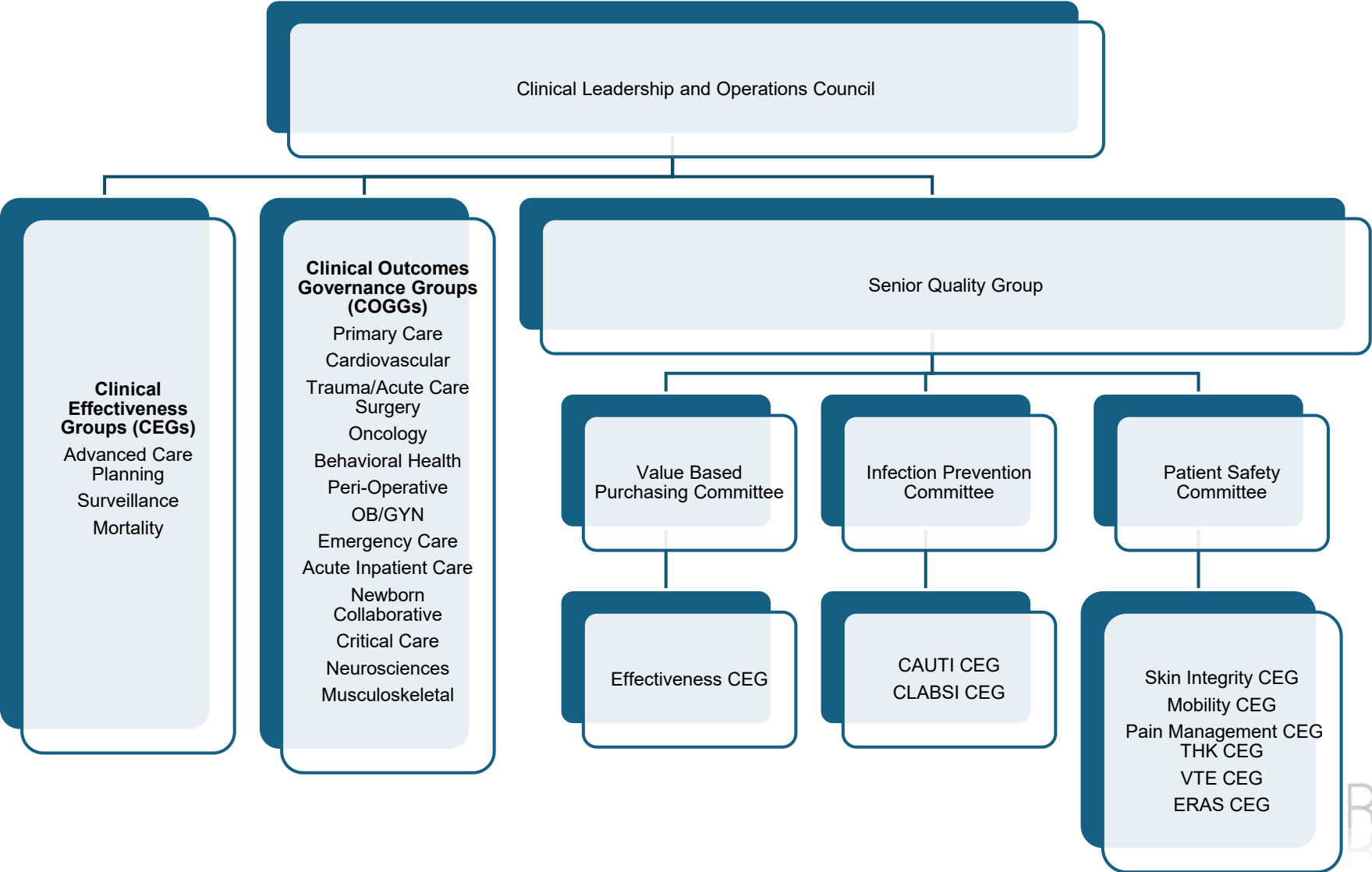
# UCH Quality Governance: Metric Performance



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# UCHealth Quality Governance: System Integration

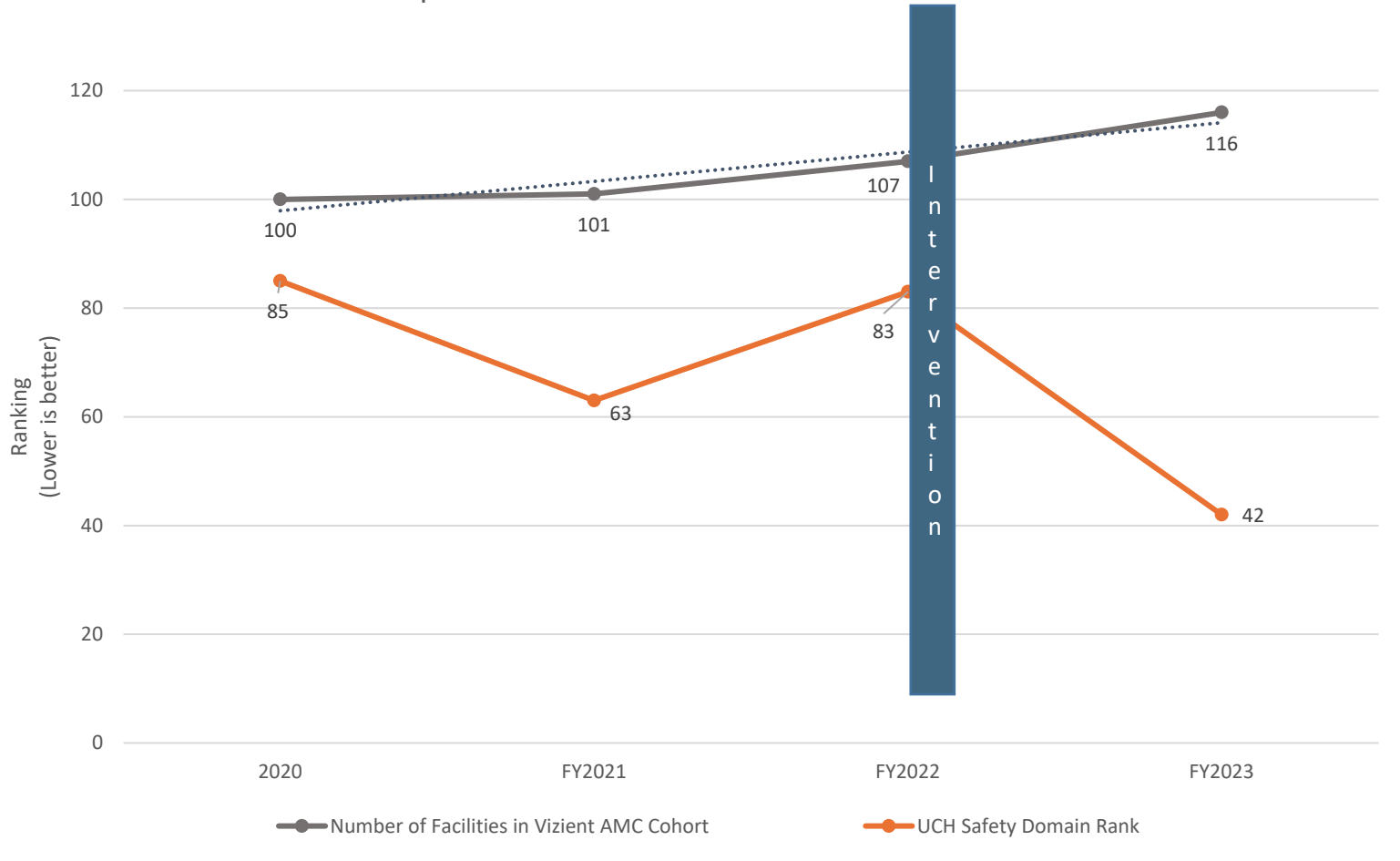


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# Data Driven. Patient Centered.



UCH Vizient Performance  
Comprehensive Academic Medical Center Cohort



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

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# Lessons Learned

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

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# Key Takeaways

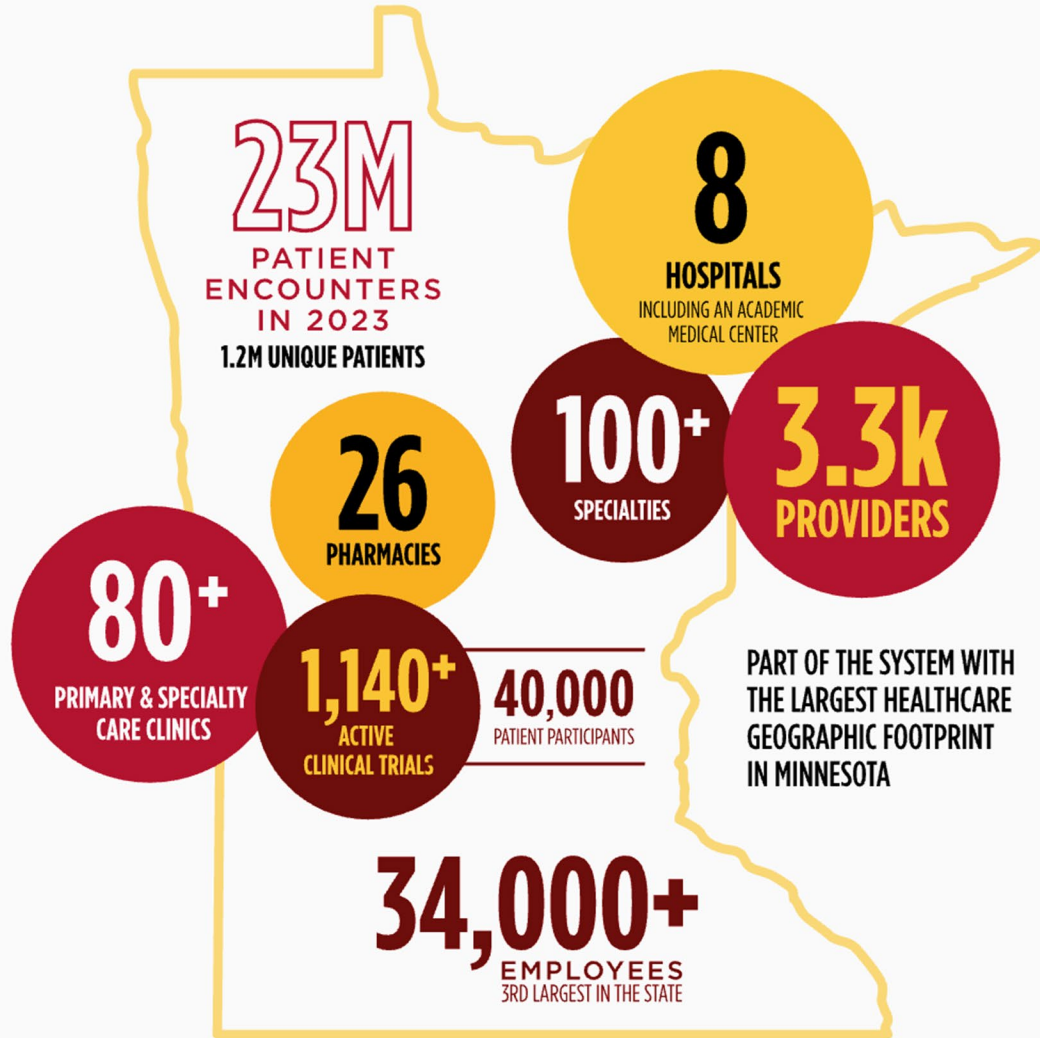
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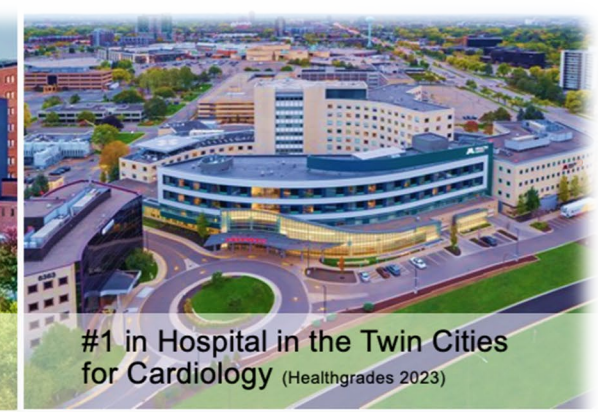
- Always start and end with the **patient**
- Create **structure**
- Set clear **expectations**
- Ensure **accountability**
- Cannot forget about **culture**
  - *Culture eats strategy for breakfast – Peter Drucker*

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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**



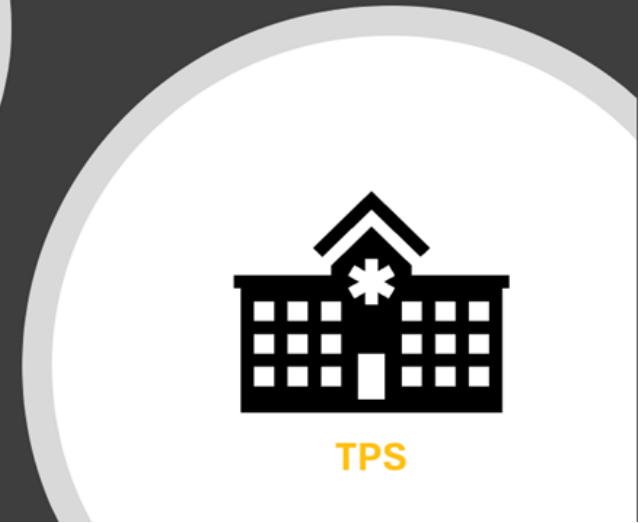
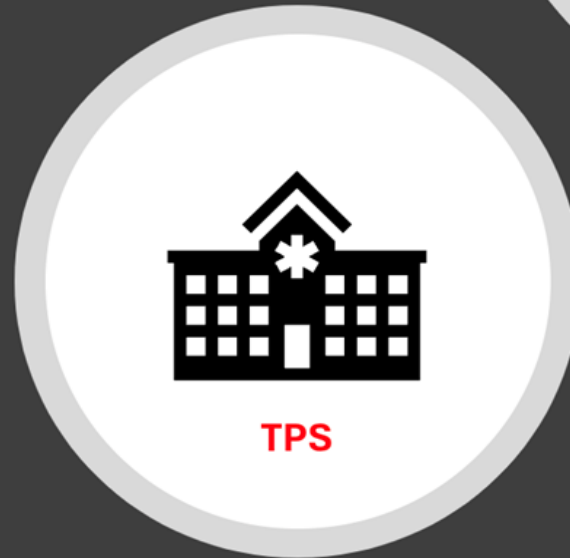
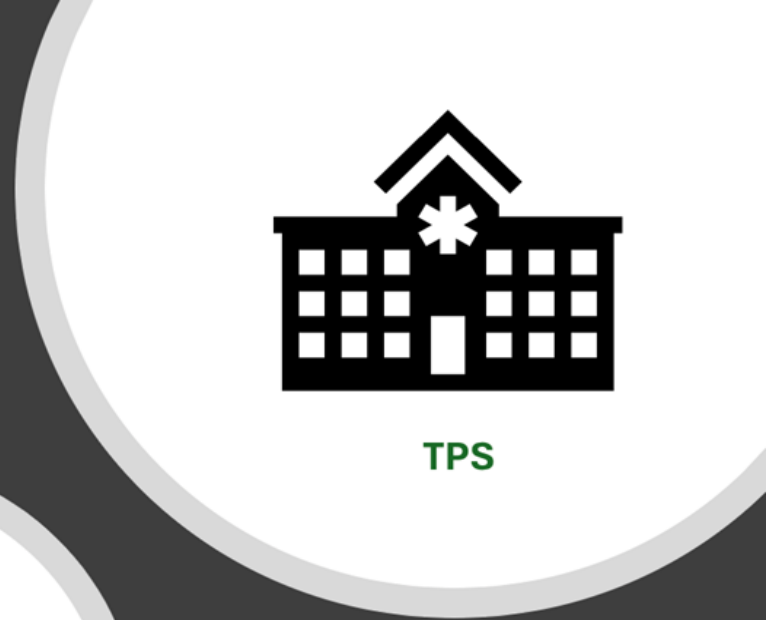
A collaboration among the University of Minnesota,  
University of Minnesota Physicians and Fairview Health Services



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

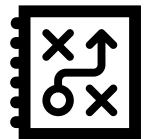


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Developed an in-house reporting & analytics tool to identify areas of opportunity and excellence as it relates to Q&A scorecard on a monthly cadence.



- 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



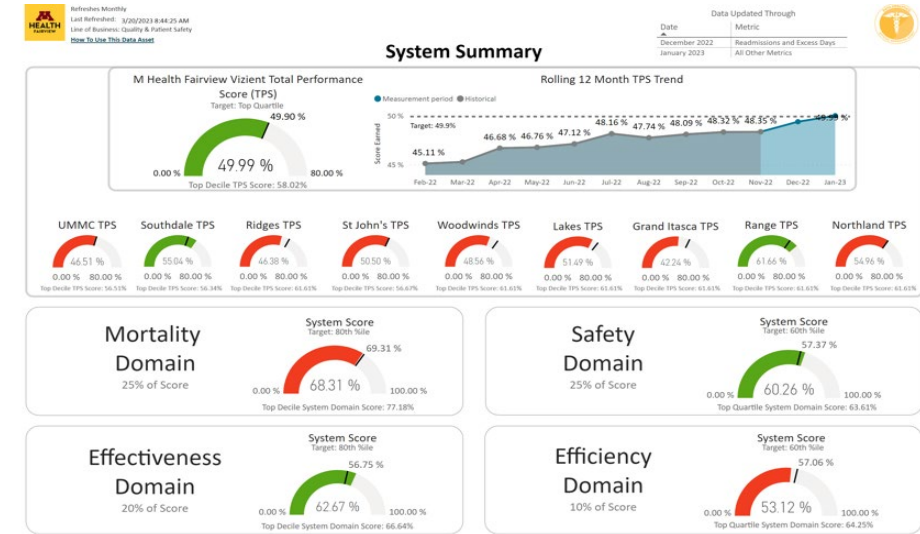
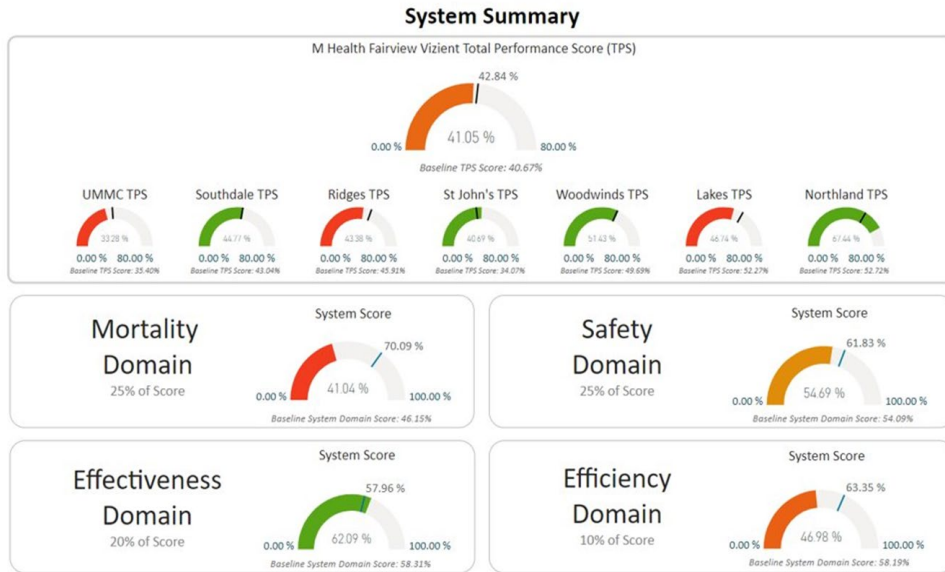
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# Total Performance Score Report

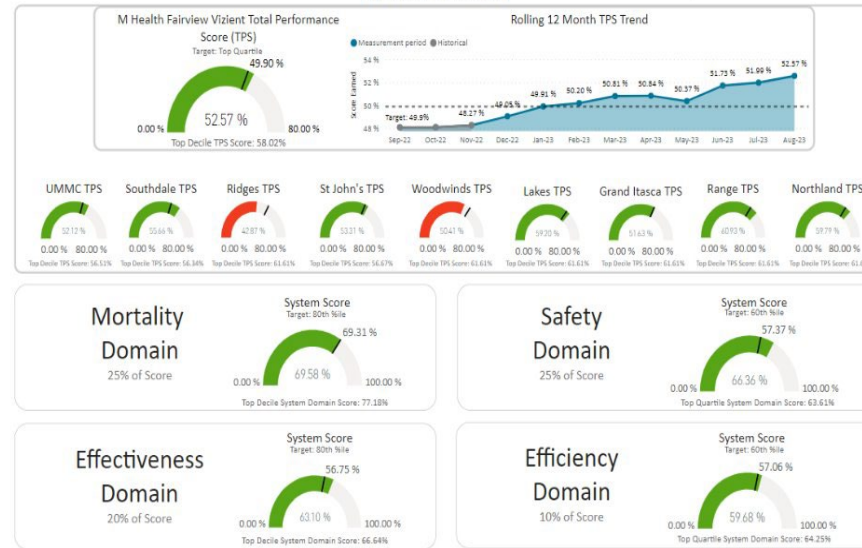


## Early version of TPS ( 2021)

## TPS ( 2022)



## TPS ( 2023)

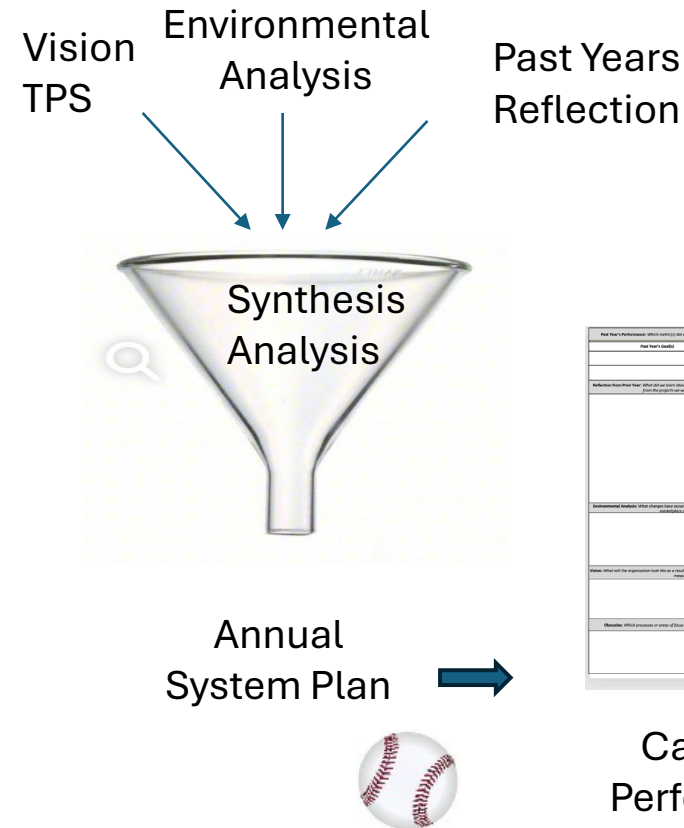


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# Goal Setting/Strategy Development



- Performance Dimension A3
- Catch ball
- Aligning Quality Assurance and Process Improvement (QAPI) Plans



Year	2017	2018	2019	2020	2021	2022	2023	2024
System Performance								
Quality								
Cost								
Access								
Efficiency								
Compliance								
Customer Satisfaction								
Employee Satisfaction								
Healthcare Access								
Healthcare Quality								
Healthcare Safety								
Healthcare Equity								
Healthcare Sustainability								
Healthcare Innovation								

Capture plan on System Performance Dimension A3

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# Implementation/Strategy Deployment

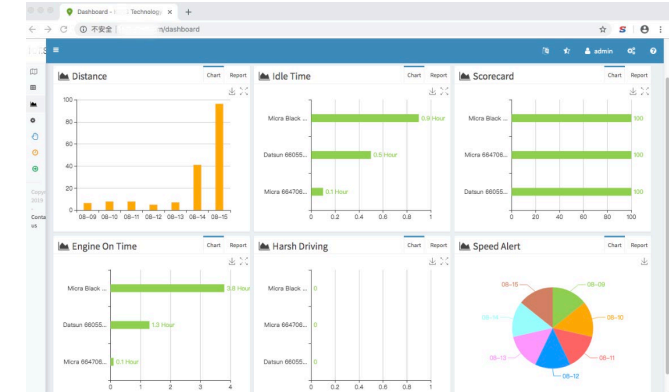


- Implement system teams
- Develop focused plans and projects (ex. Sepsis)
- Involve the Daily Engagement System
- Escalate obstacles through tiered huddles

Name	Type	Description
...	...	...
...	...	...



Capture plans/projects on System Team A3s



Align frontline metrics



1. Check results
2. Adapt system standards
3. Adjust plan
4. Capture and spread learnings

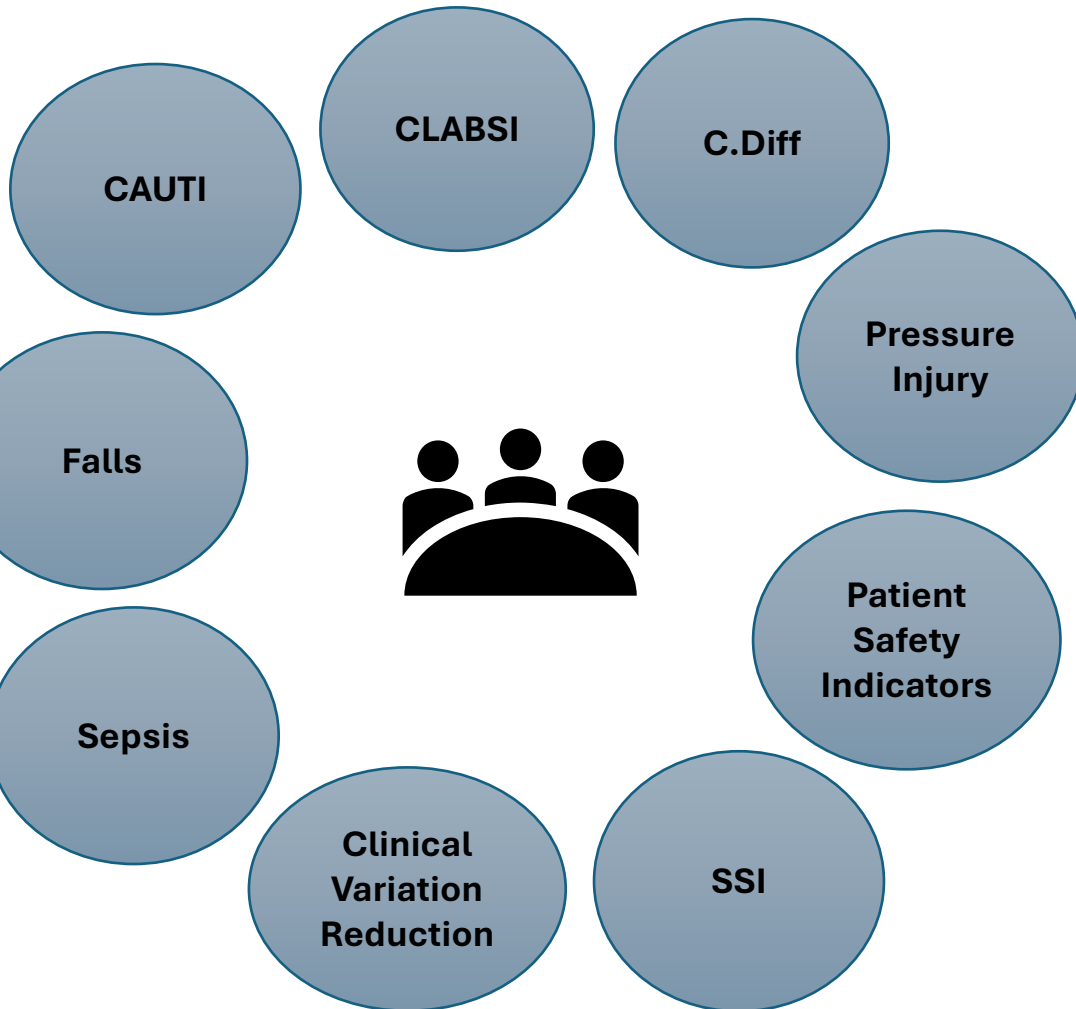


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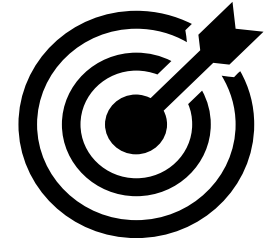
Create new system standards

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# System Teams and Key Accountabilities



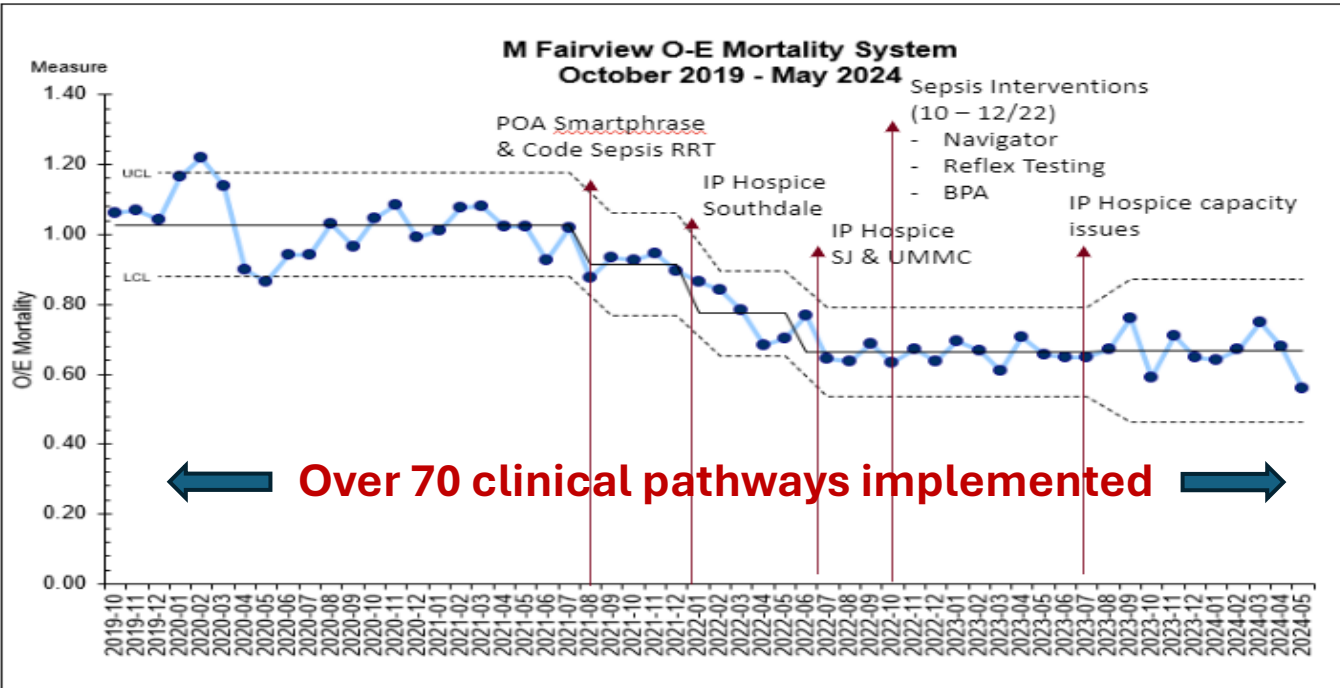
- Interdisciplinary and multi-hospital representation
- Committee charters
- Plan and project A3s
- Customized Power BI applications and reports
- Performance monitoring
- Annual goal setting
- Project prioritization
- Site and system alignment
- System standards and bundles
- Policy development
- Communicate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

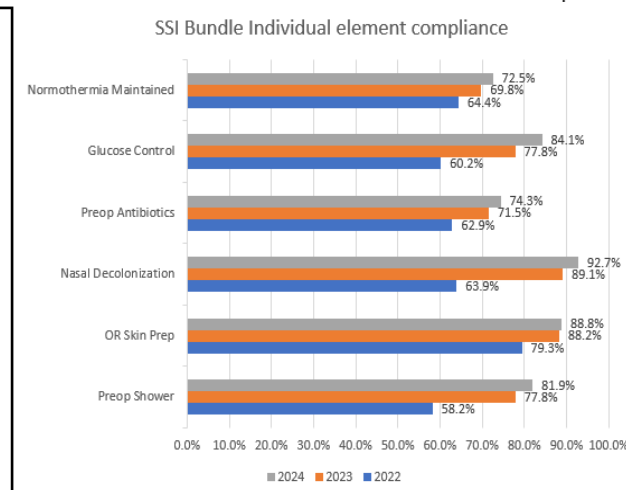
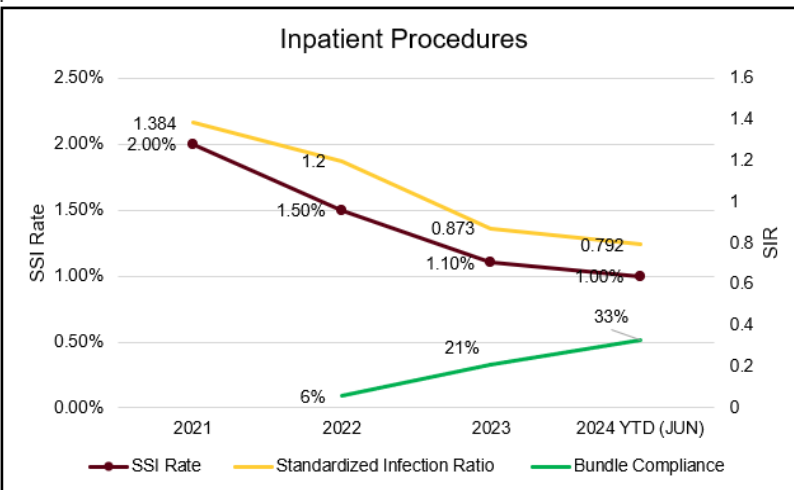
Sepsis, Care Pathways, Risk Variable Capture (Smartphrases), POA Utilization, Inpatient Hospice

## • 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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## Contact:

Linda Staubli, [Linda.Staubli@uhealth.org](mailto:Linda.Staubli@uhealth.org)

Elyse Bueno, [Elyse.Bueno@uhealth.org](mailto:Elyse.Bueno@uhealth.org)

Abe Jacob, [abraham.jacob@fairview.org](mailto:abraham.jacob@fairview.org)

Michelle Hodge, [michelle.hodge@fairview.org](mailto:michelle.hodge@fairview.org)

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