





Establishing a Culture of High Reliability: Memorial Hermann's 11-Year Journey



Becker's CEO + CFO Roundtable November 12, 2019

Chuck Stokes President and Chief Executive Officer Memorial Hermann Health System





MEMORIAL HERMANN OVERVIEW

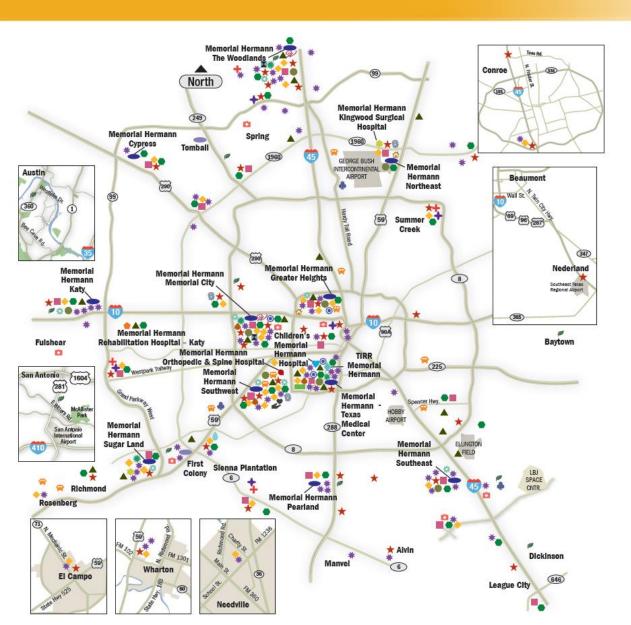
One Memorial Hermann





Memorial Hermann Health System *Current as of December 2017*





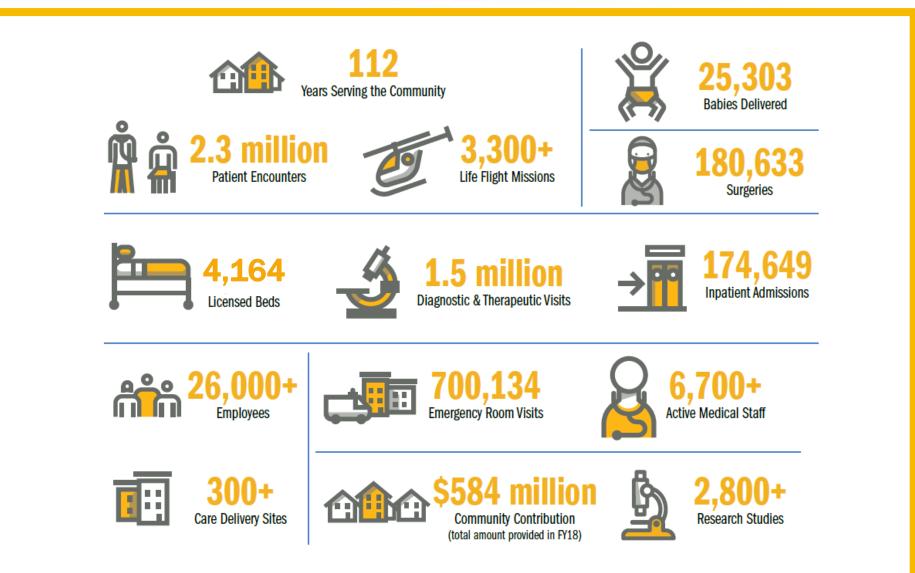
320 Care Delivery Sites

• 11	Acute-Care Hospitals	
19	Breast Care Locations	
8	Cancer Centers	
1	Children's Memorial Hermann Hospital	
+ 5	Convenient Care Centers	
🔶 36	Diagnostic Laboratories	
2	Executive Health Centers	
+ 4	Freestanding Emergency Centers	
🌢 3	Heart & Vascular Institutes	
3 🖨	Home Care	
	Imaging Centers	
₩4	IRONMAN Sports Medicine Institutes	
‡ 8		
	Memorial Hermann Medical Group	
• 1	Memorial Hermann Orthopedic & Spine I	Hospital
• 1	Memorial Hermann Rehabilitation Hospi	tal - Kat
9 3	Mental Health Crisis Clinics	
• 2	Micro Hospitals	
1	Mischer Neuroscience Institute	
1 2	-	
-		
	Prevention & Recovery Centers (PaRC)	
	School-Based Health Centers	
★ 45	•	
▲ 20 * 2		
2 2 1	Surgical Hospitals	
	University Place	
1	Urgent Care Centers TIRR Memorial Hermann	
0 4		
4	TIRR Memorial Hermann	
W 2	Outpatient Rehabilitation Women's Memorial Hermann Hospitals	
WL	women s memorial nermann nospitals	

4

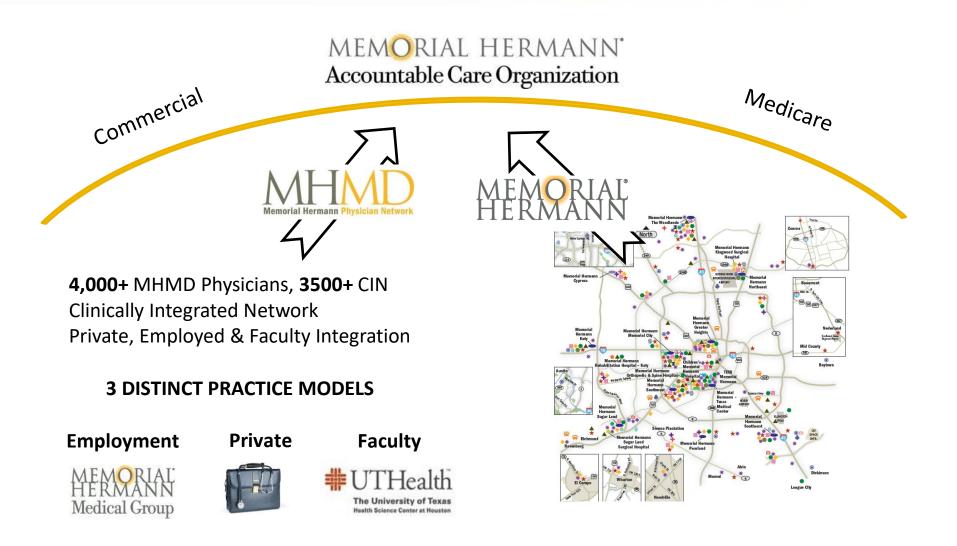
FY19 By the Numbers





Physician Structure





Population Health Infrastructure



JOURNEY TO HIGH RELIABILITY

High Reliability Organizations

MEMORIAL



Memorial Hermann Health System



Nuclear Aircraft Carriers



Commercial Aviation

Air Traffic Control







ANALYSIS

Question: How many avoidable deaths occur in U.S. hospitals each year?



Medical error The third leading cause of death in the US

Martin A Makary professor, Michael Daniel research fellow

Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD 21287, USA

Source: James JT. A New, Evidence-based Estimate of Patient Harms Associated with Hospital Care. *Jol Patient Safety* 2013;9:122-128.

737 crash every 5.5 hours

251,454

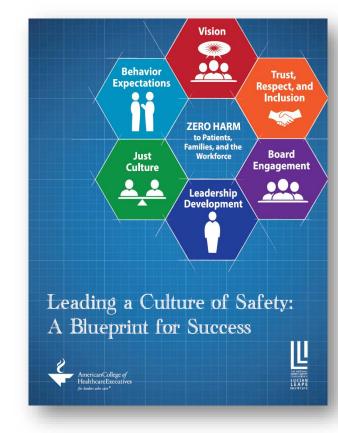


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LEADING A CULTURE OF SAFETY

A Culture of Safety: The Six Domains









Moving the Memorial Hermann Health System from Safety as a Priority to

Safety is our Core Value

Leadership behavioral expectations change when safety is the core value

Role of Governance and Memorial Hermann

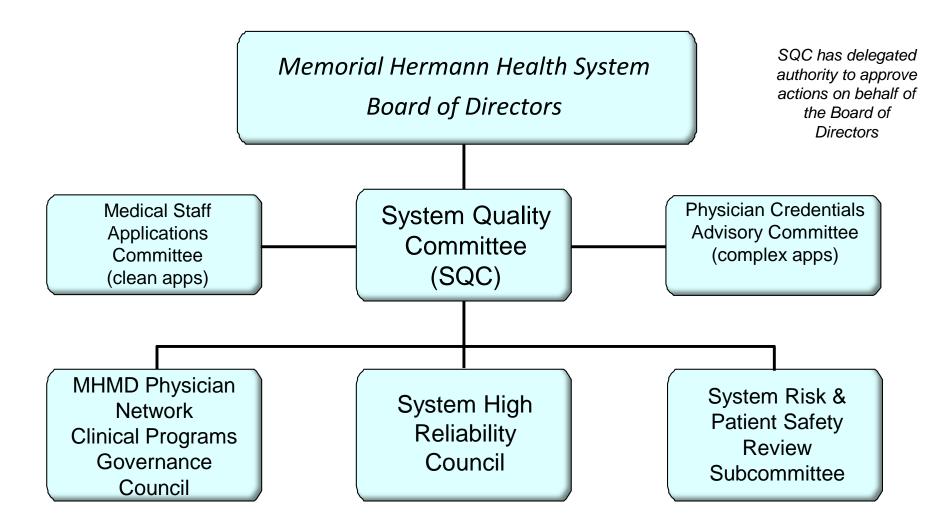


- Connecting quality and safety to the credentialing process
- Connecting executive compensation to quality and safety
- Commitment to resource allocation for the journey to high reliability
- Board's opportunity to meet directly with medical staff to obtain feedback on hospital/system quality and safety concerns
- Total transparency of system/hospital quality and safety data

Memorial Hermann Health System

Board Safety, Quality & Credentialing Reporting Structure





2015 MH "From the Top"

The Role of the Board and Medical Staff in Quality & Safety





James E. (Jamie) Orlikoff James L. Reinertsen, MD

February 20, 2015 - 7:30am-5:00pm Houston, Texas

55 Memorial Hermann Board members and 100 MEC members & hospital execs trained





BEST OF THE BEST

Safety Culture Training

• Step 1: Set Behavior Expectations

Define Safety Behaviors & Error Prevention Tools proven to help reduce human error

• Step 2: Educate

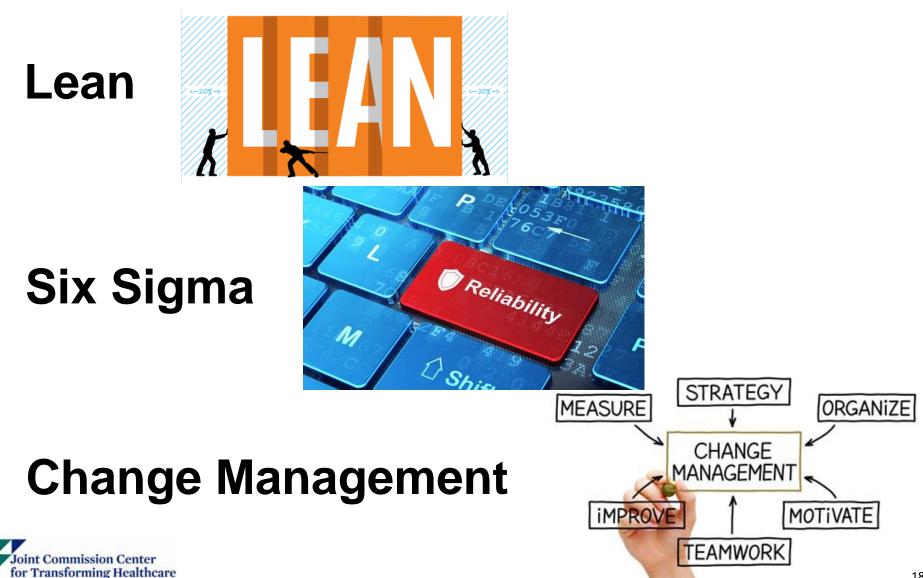
Educate our staff and medical staff about the Safety Behaviors and Error Prevention Tools

• Step 3: Reinforce & Build Accountability

Practice the Safety Behaviors and make them our personal work habits

Robust Process Improvement: Path to Quality Outcomes





OPERATION BREAKTHROUGH PATIENT SAFETY

BEST OF THE BEST



Red Rules: Absolute Compliance

- Patient Identification Verify with two patient identifiers before acting
- 2. 'Time Out' before invasive and high-risk procedures
- 3. 'Two-Provider Check' before administration of blood, blood products and high-risk medication



Red Rules Absolute Compliance

1. Patient Identification

2. Time Out

3. Two Provider Check



Support Each Other: CUSS Words



- I am Concerned
- I am Uncomfortable
- This is for Safety



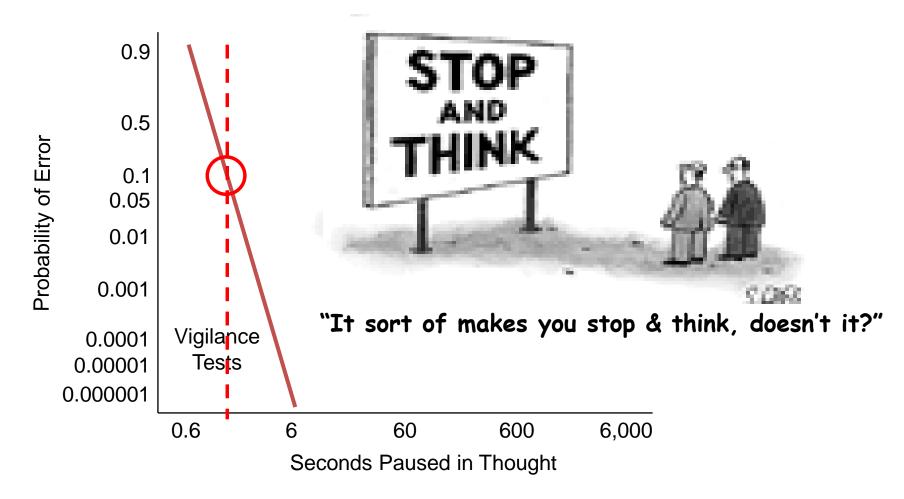
MH Southwest Hospital Central Line Standoff

Stand up and Stand Together



Self-Checking with STAR*: (Stop, Think, Act & Review)







Hospital Acquired Conditions "Never Events"

Janos



Acute Hemolytic Transfusion Reactions

Transfusion Events Jan 2007 – Jul 2019

PSI 16 Transfusion Reaction - Per 1000



18,940,000 Adjusted Pt Days



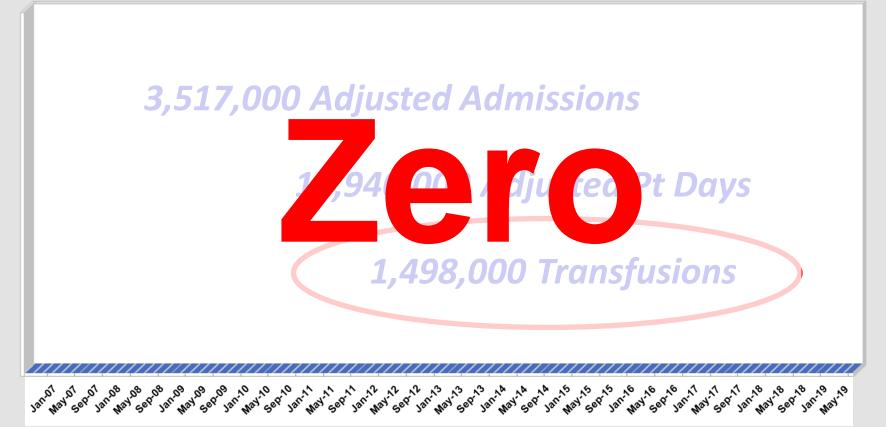
Hospital Acquired Conditions "Never Events"



Acute Hemolytic Transfusion Reactions

Transfusion Events Jan 2007 – Jul 2019

PSI 16 Transfusion Reaction - Per 1000







MHHS Safety Culture Training Completed in 2007

Hospital Training Complete

>20,000 Employees Trained

>4,000 Physicians Trained

>540 Safety Coaches Trained

>\$18M Expense

25

High Reliability Certified Zero Award

1. Zero Events



3. Certified Zero Category



2011



High Reliability 2011-2019 Certified Zero Awards



Certified Zero Awards FY 2011 thru May 2019



John M. Eisenberg Patient Safety and Quality Award



March 8, 2013 | Washington, DC





NATIONAL QUALITY FORUM



Memorial Hermann Sugar Land Hospital





Accolades

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Earning history through safe, high-quality care

National Quality Forum National Quality Healthcare Award (2009)	Texas Hospital Association Bill Aston Quality Award (2011)	TEXAS TEXAS TEXAS HEALTH CARE CALITY IMPROVEMENT AVVARD Texas Healthcare Foundation Quality Improvement Awards (2011)	John M. Eisenberg National Patient Safety & Quality Award (2012)	TRUVEN HEALTH ANALYTICS 15 TOP Health Systems; Top 5 Large Health Systems (2012 & 2013)
One of health care's "Most Wired" for the 13 th consecutive year	NATIONALLY RECOGNIZED Image: A product of the	TIRR Memorial Hermann No. 2 in rehabilitation hospitals	American Hospital Association Quest for Quality Prize* Hospitals in Pursuit of Excellence Memorial Herman Greater Heights is finalist for Quest for Quality Mobile Dental Van earns AHA NOVA Award Supportive Medicine earns AHA Circle of Life Citation	HOUSTON BUSINESS JOUNALBPIIVDIIVIVDIIVIVDIIVIVDIIVIVDIIVIVDIVIVDIVIVDIVIVDIVIVDIVIVDIVIVDIV

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APPENDIX

Establishing a Compelling Vision for Safety





GOAL: COMMIT TO DEVELOP, COMMUNICATE, AND EXECUTE ON AN ORGANIZATIONAL VISION OF ZERO HARM TO PATIENTS, FAMILIES, AND THE WORKFORCE.

Role of the CEO:

- ✓ Develops a clear safety vision and sets clear expectations for a culture of safety
- ✓ Communicates and models a shared vision of zero harm to everyone
- Prioritizes measurement, gap analysis, and improvement of culture of safety as foundational for organizational vision
- ✓ Actively participates in full harm investigations, including disclosures, apologies, and root cause analysis events

Value Trust, Respect and Inclusion





GOAL: ESTABLISH ORGANIZATIONAL BEHAVIORS THAT LEAD TO TRUST IN LEADERSHIP AND RESPECT AND INCLUSION THROUGHOUT THE ORGANIZATION REGARDLESS OF RANK, ROLE, OR DISCIPLINE.

Role of Leadership:

- Recognizes the critical importance of trust, respect, and inclusion in shaping organizational culture and role models throughout the organization
- ✓ Holds the leadership team accountable for modeling trust, respect and inclusion
- Creates an environment that empowers the workforce to act within the guidelines of trust, respect, and inclusion when making decisions
- ✓ Actively supports a culture where learning from failures and improvement is a part of daily organizational activity

Select, Develop and Engage Your Board





GOAL: SELECT AND DEVELOP YOUR BOARD SO THAT IT HAS CLEAR COMPETENCIES, FOCUS, AND ACCOUNTABILITY REGARDING SAFETY CULTURE.

Role of the CEO:

- Educates Board on importance of safety, quality, metrics, and safety culture principles and behaviors
- ✓ Ensures Board membership includes clinical, safety, and patient/ family representation
- Ensures Board agenda includes a quality and safety review using a performance dashboard
- ✓ Sets up quality and safety committee(s) with Board representation
- ✓ Ensures each Board agenda includes time designated for Chief Medical Officer or Chair of Quality and Safety Committee to present safety and quality data

Prioritize Safety in Selection and Development of Leaders





GOAL: EDUCATE AND DEVELOP LEADERS AT ALL LEVELS OF THE ORGANIZATION WHO EMBODY ORGANIZATIONAL PRINCIPLES AND VALUES OF SAFETY CULTURE.

Role of CEO:

- Sets expectations and accountability for the design and delivery of the organization's leadership development strategy
- Ensures all levels of the organization receive the necessary and appropriate level of safety education
- ✓ Identifies physicians, nurses, and other clinical leaders
- ✓ Serves as a mentor for other C-Suite executives
- Establishes expectation that quality and safety performance and competence are required elements for promotion and succession planning

Lead and Reward a Just Culture





GOAL: BUILD A CULTURE IN WHICH ALL LEADERS AND THE WORKFORCE UNDERSTAND BASIC PRINCIPLES OF PATIENT SAFETY SCIENCE, AND RECOGNIZE ONE SET OF DEFINED AND ENFORCED BEHAVIORAL SANDARDS FOR ALL INDIVIDUALS IN THE ORGANIZATION.

Role of CEO and Leadership:

- ✓ Encourages commitment to just culture framework as an essential business philosophy
- ✓ Communicates and models the use of just culture principles in all decisions and actions across the organization and with the Board
- Sets expectations for just culture principles throughout organization and communicates that rules apply to all, regardless of rank, role and discipline
- Sets expectations for accountability for anyone interacting with the healthcare organization to commit to utilizing just culture principles in every day practice and decisions

Just Culture





Just Culture Principles

Human behaviors within a just culture can be described as follows:

- HUMAN ERROR = An inadvertent slip or lapse. Human error is expected, so systems should be designed to help people do the right thing and avoid doing the wrong thing.
 Response: Support the person who made the error. Investigate how the system can be altered to prevent the error from happening again.
 - AT-RISK BEHAVIOR = Consciously choosing an action without realizing the level of risk of an unintended outcome.

Response: Counsel the person as to why the behavior is risky; investigate the reasons they chose this behavior, and enact system improvements if necessary.

RECKLESS BEHAVIOR (NEGLIGENCE) = Choosing an action with knowledge and conscious disregard of the risk of harm.

Response: Disciplinary action.

(PSNet Safety Primer 2016)

Establish Organizational Behavior Expectations





GOAL: CREATE ONE SET OF BEHAVIOR EXPECTATIONS THAT APPLY TO EVERY INDIVIDUAL IN THE ORGANIZATION AND ENCOMPASS THE MISSION, VISION, AND VALUES OF THE ORGANIZATION.

CEO and Leadership Role:

- Creates, communicates, and models an organizational climate of personal and professional accountability for behavior
- ✓ Establishes systems to recognize and reward desirable behaviors
- Activates organization and resources to develop, implement, and evaluate programs that address and improve personal, professional, and organizational behavior and accountability
- Engages Board by sharing metrics and dashboards related to organizational behavior
- Engages and holds all leaders and workforce accountable for defined behaviors