

Greeley Hospital Trauma Transformation Post Survey

December 2, 2022



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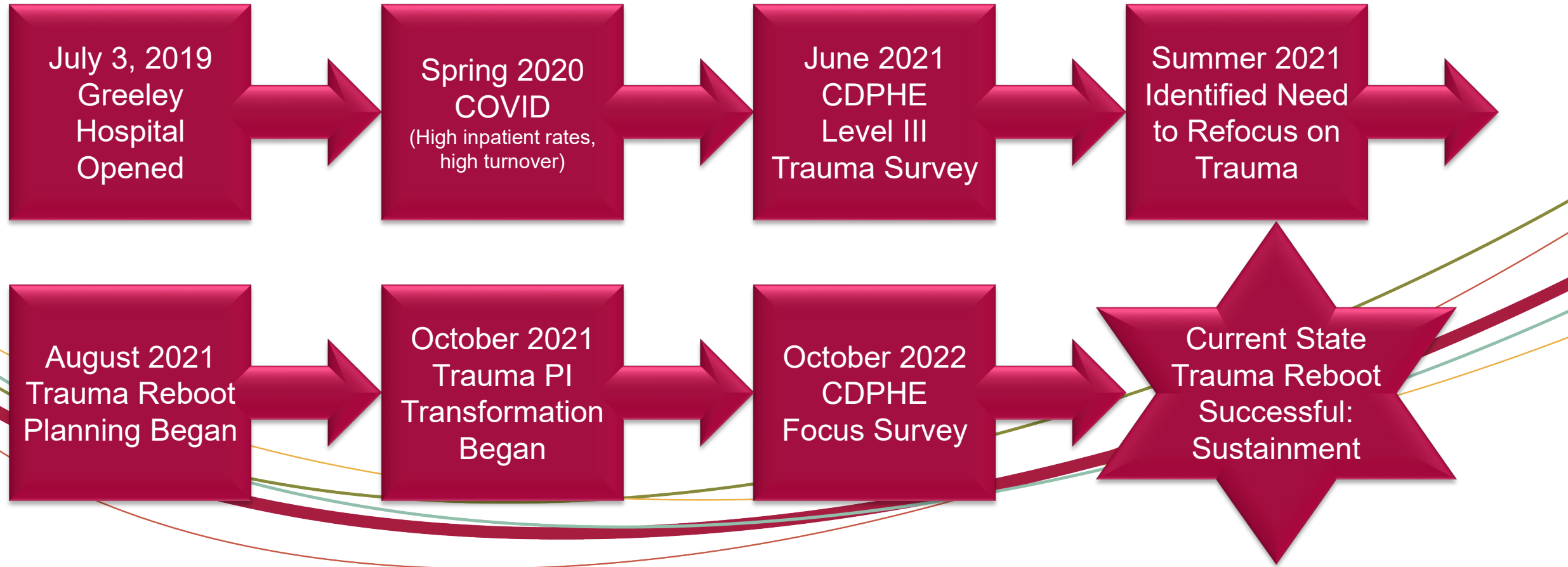
Introductions



Lisa Buckman, MBA, BSN, RN, TCRN, CSTR
Manager of Trauma Services

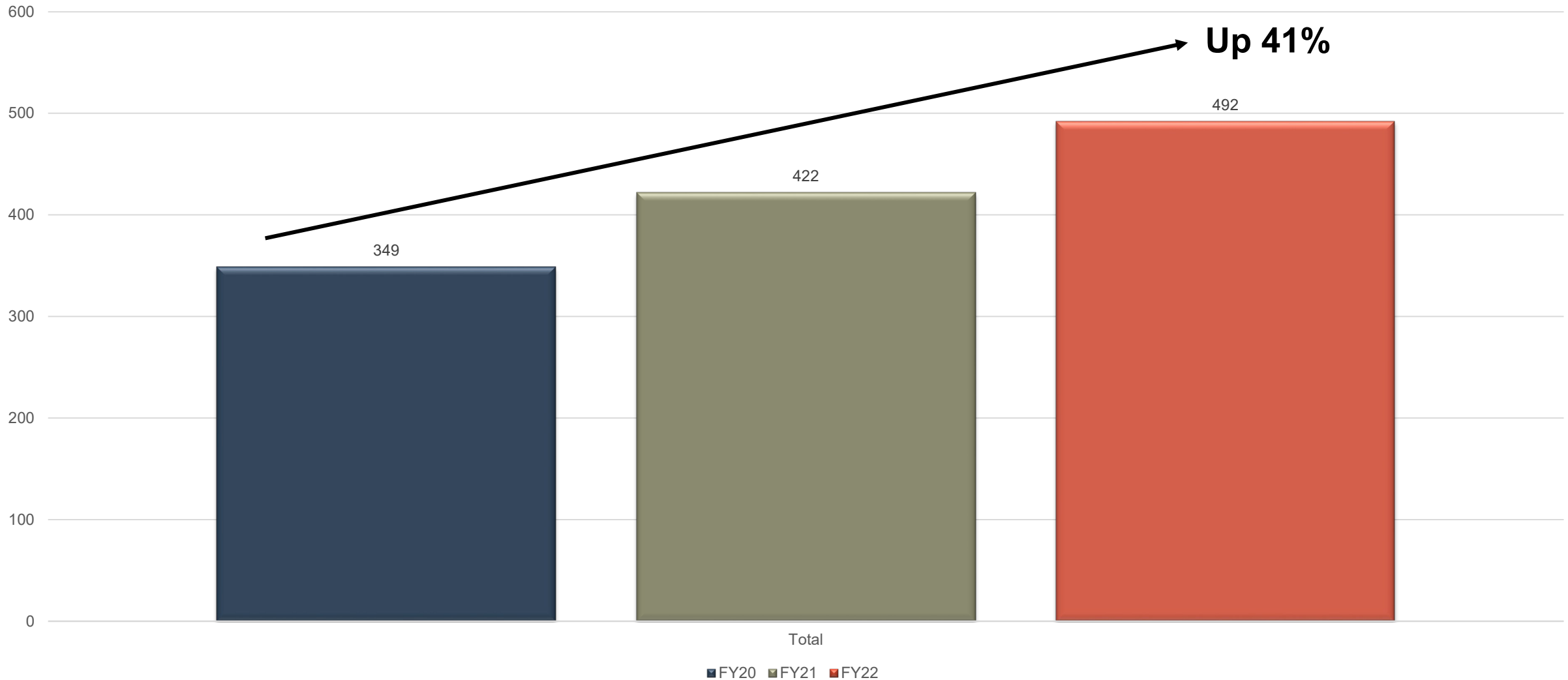
Elizabeth Johnson, BSN, RN, TCRN, CEN
Trauma Nurse Clinician

Greeley Hospital's Journey



Trauma Patient Growth

Trauma Volume by Fiscal Year
(July - June)



Problem Statement:

The current trauma activation and response processes lack adherence to current protocols and standard work.

- Understanding roles & responsibilities
- Adherence to protocols & workflows
- Confidence
- Role confusion
- Patient safety
- Differing priorities
- Culture
- Foundational processes

Desired State:

Create a Culture of Trauma Excellence



The Plan

Define roles, responsibilities and processes

- Process Mapping
- Education Plan
- Executive Coordination: Setting expectations

Education

- Roll Out
- Microburst training
- Tier 1 Roles, responsibilities and room orientation
- Tier 2 Pre-huddle, room readiness and equipment
- Tier 3 First 5 minutes of trauma
- Tier 4 Mock trauma simulations and debriefing
- Ongoing Education Plan: Sustainment

Data Collection

- Pre-survey
- Post-survey
- Post mock survey assessment

Trauma Bay Update

Before:



After:



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Education Pearls

Leaders First;
Walk the Walk!

Dynamic Role
Changes

Equipment
Gaps

Physician
Partners

Culture of
Trauma

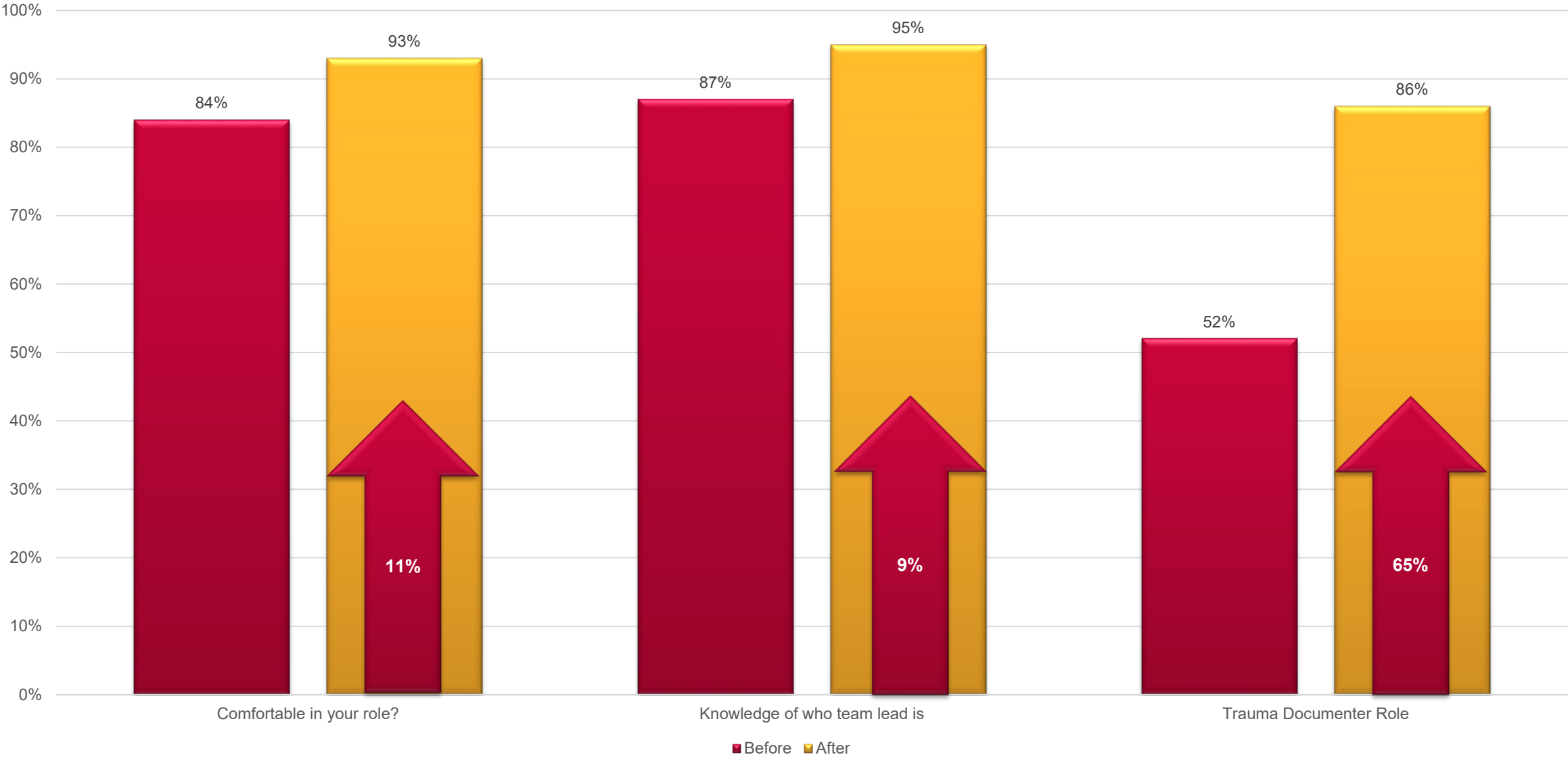
Culture of
Safety

Team
Approach

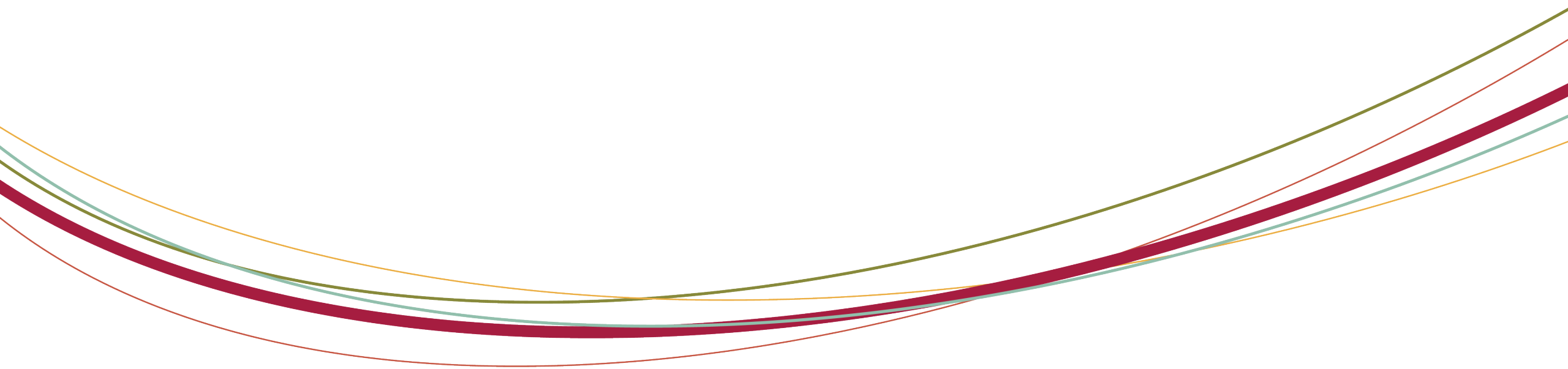
Educational
Components

Staff
Incentives

Knowledge Assessment Pre and Post Education



PI Improvements



Improvements

2022 GH PI Dictionary					
Benchmark Goal %	CODE/AUDIT FILTER Definition - criteria	Level of review *needs timeline in narrative Who can close issue Event resolution justification	Issue description convention and standard verbiage Appropriate per policy/CPG/SOP OFI Identified	Level 2 To Do Actions Essential information to include in review narrative	Standard discussion verbiage Appropriate per policy/guideline/SOP Inappropriate/OFI/review details
90%	OPEN_FX Open fracture Antibiotics & Tetanus Administered - Tetanus admin if appropriate? - Antibiotics within 1 hour of arrival	L1 - Compliant TNC, TPM L2 - Deviation TMD Standards of care met and CPG followed.	[date] Case details reviewed. Patient arrived at ***, antibiotics given at ***, and tetanus given at ***. Care consistent with current open fracture guideline. Care appropriate. No OFI. Closed. Open fracture review. Case details reviewed. OFI identified.	- Brief pt description - Injury details - Treatment course and disposition - Time to antibiotic - Tetanus status	[date] L1 review Case details reviewed. *Details* Refer to L2 for BSF review. [date] *Details* Case details reviewed. Care not consistent with current Open fracture CPG.

O1 More specific PI filters

O2 During annual review of filters determine which filters are helpful and delete resolved filters

Improvements

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Trauma Patient Summary				
Demographic Data				
Last, First				
MRN: MRN				
Age , sex				
TB # ID				
State Inclusion:				
Diagnosis Information				
ICD10 Code	Diagnoses Description		AIS	AIS Region
Probability of Survival	RPS		ISS	ISS

O3 Quality document could include ICD 10 codes for validation of trauma patients

O4 More vigorous PI and in depth chart review to explore opportunities to improve care across the continuum of care

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Trauma Case Review

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Trauma QI/PI - Narrative					
Findings for Review					
Finding	Review Discussion				
1.					
Committee Discussion					
Action Plan and Event Resolution					
#	Review Topic	Review Determination	Level of Harm	Action Plan	Loop Closure
1.		/			



Trauma PI Review Narrative	
PI Review	
Findings for Review	
Highest Level of Review	
Primary Review	
Secondary Review	
Tertiary Review	
Quaternary Review	
Determination	
Just Culture	
OFls Identified	
Action Plan	
Event Resolution Justification	
Event Resolution	

Improvements

MR1 The trauma quality improvement plan shall address the entire spectrum of services, from **pre-hospital** to rehabilitative care, and ensure continuity of care to all admitted patients.



Pre-Hospital Event Identification

Level 1 reviews: TPM/TNC

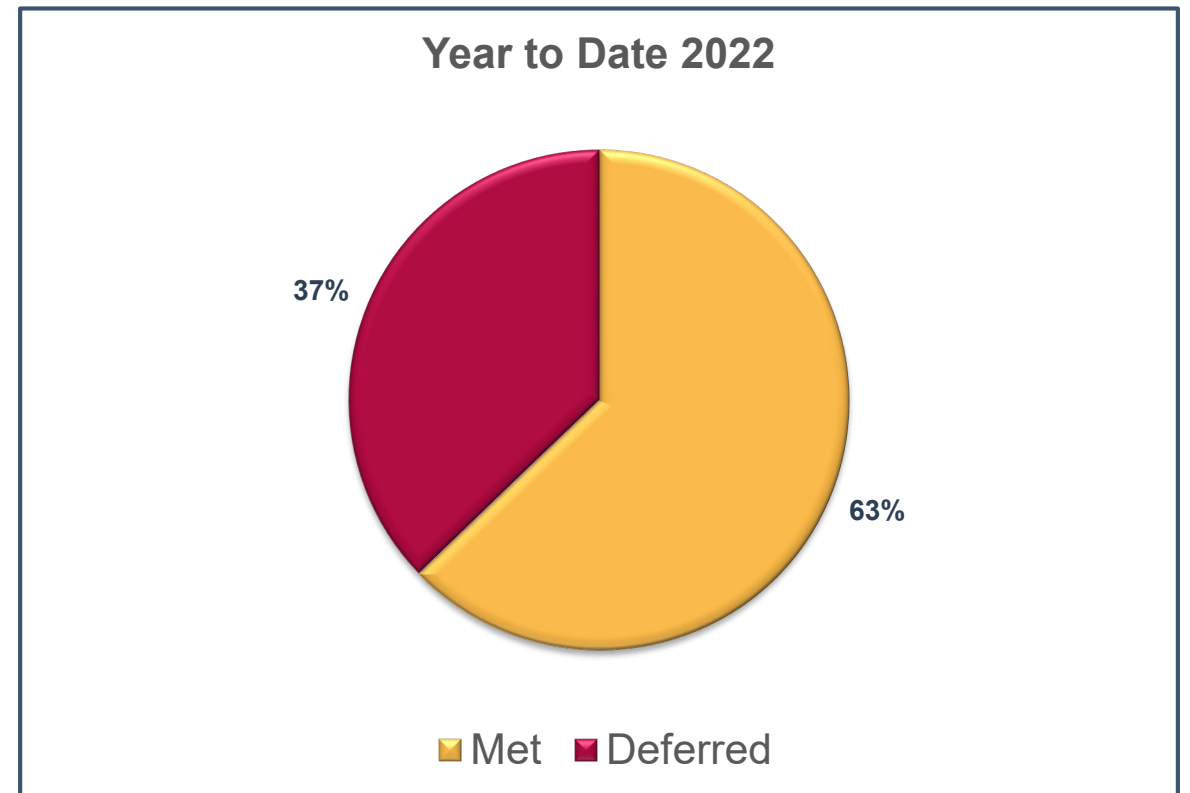
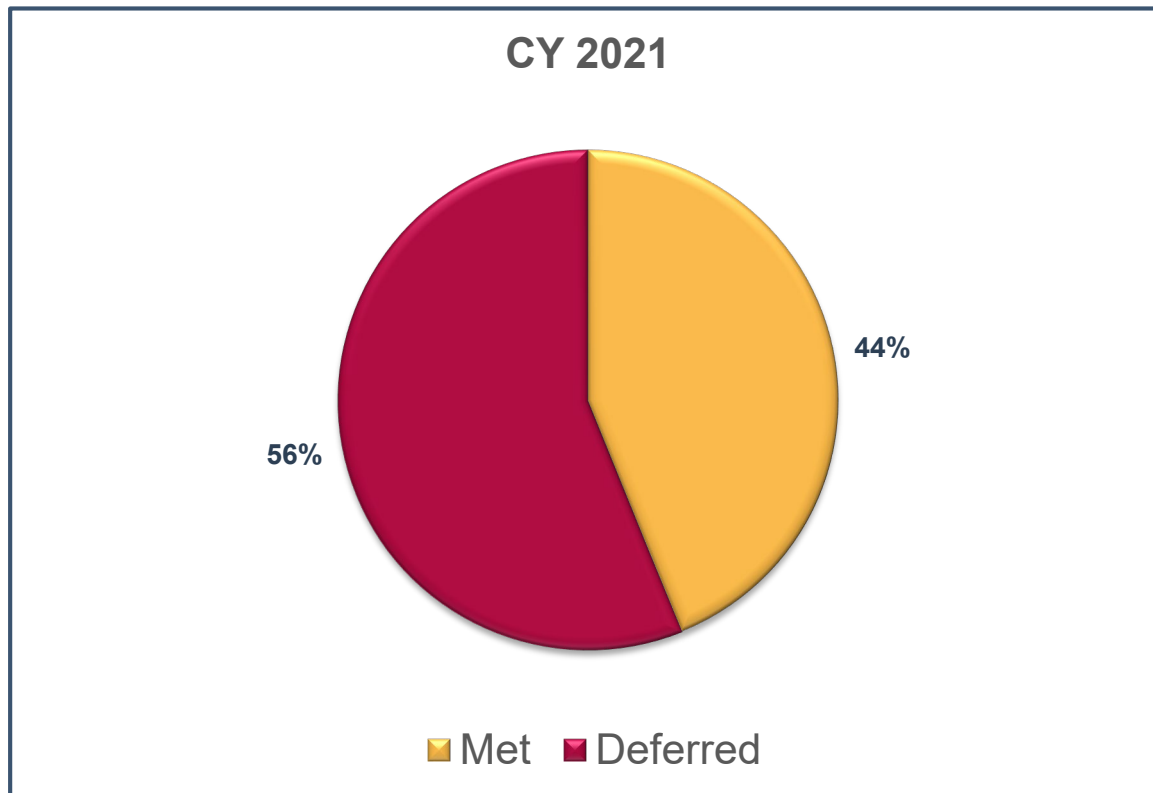
Level 2 reviews: EMS Medical Director, Manager of EMS Clinical Quality, TMD, TPM, and TNC

Events Reviewed:

- Scene Time > 20 min for trauma activations
- C-collar Application per NEXUS
- High Risk, Low Frequency Procedures
- Standards of Care
- Over/Under Triage using Cribari and NFTI (STAT)

Pre-Hospital Reviews

43% Increase in Pre-Hospital Level 2 Meetings



Improvements Continued

MR1 The trauma quality improvement plan shall address the entire spectrum of services, from pre-hospital to **rehabilitative care**, and ensure continuity of care to all admitted patients.



Definition in PI Dictionary: Review on all patients with LOS > 24 hrs.

Jan 2022 – current
Physical Therapy Event Identification Process

Compliance:

Yes: Patient receives PT consult within 24 hours and PT evaluates within 24 hours of order.

Close at Level 1

No: One or both from above not completed.

Refer to Level 2

Acceptable Deviation: Deviation in consult or order related to patient status (i.e. medically unstable for therapeutic evaluation)

Refer to Level 2

Reporting

Compliance captured in registry as of Jan 22
Exported monthly to PowerBI Dashboard

Benchmark Goal: 80%

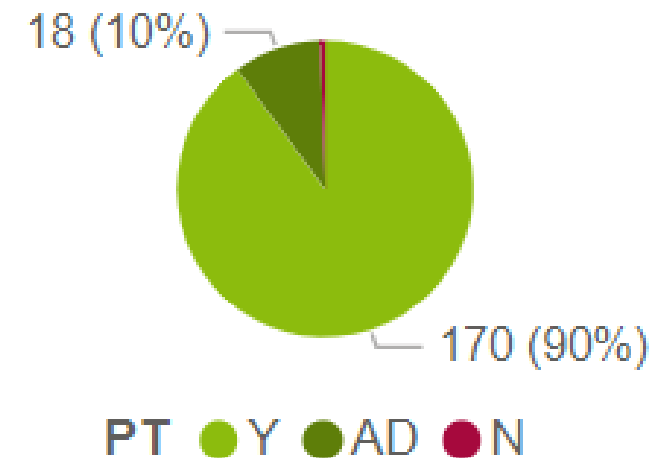
Reported at Peer Monthly

- Manager of Rehab Services attends TOC and reports relevant information impacting care of patients.
- 100% of identified events of a delay in evaluation is reviewed by the Manager of Rehab Services.

Jan – Oct 2022

99%

PT Compliance



PT ● Y ● AD ● N

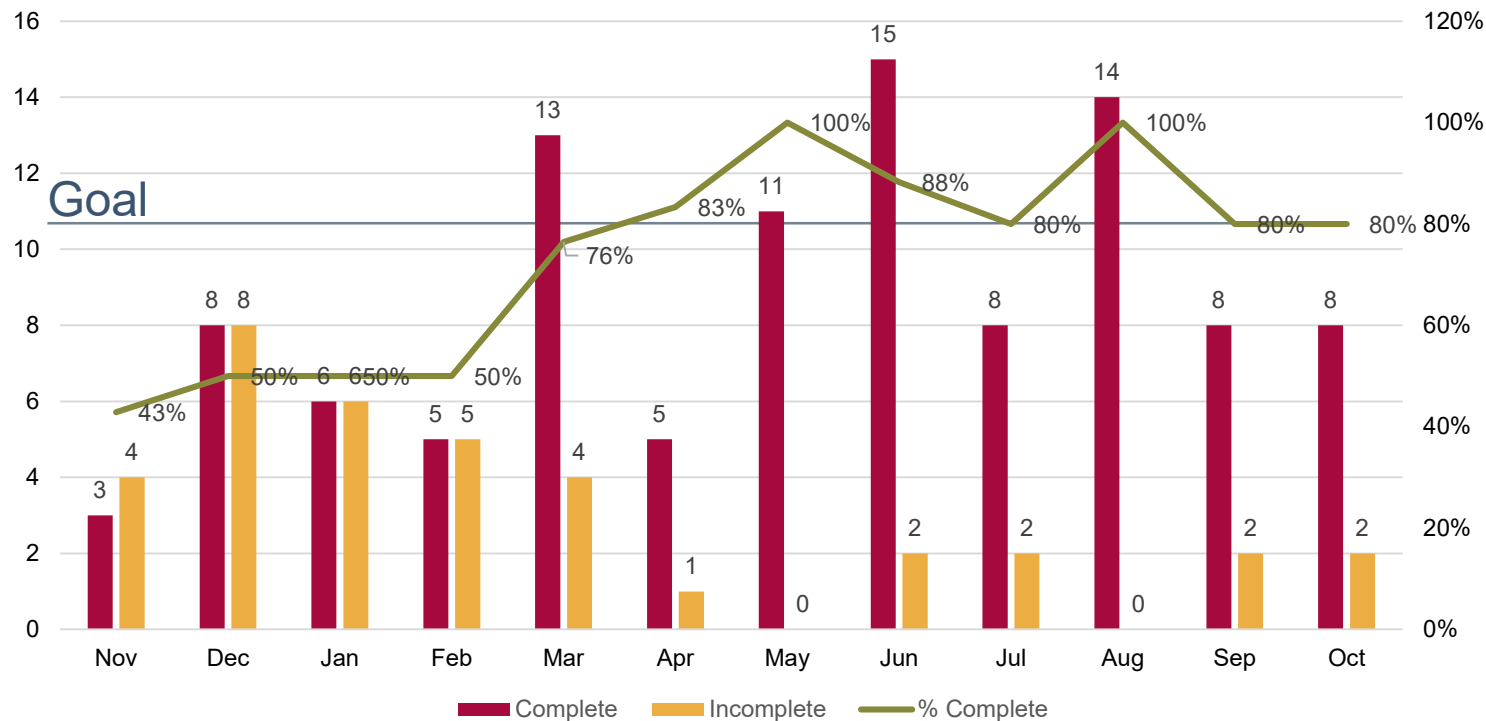
Improvements Continued

MR1 The trauma quality improvement plan shall address the entire spectrum of services, from pre-hospital to rehabilitative care, and ensure **continuity of care to all admitted patients.**

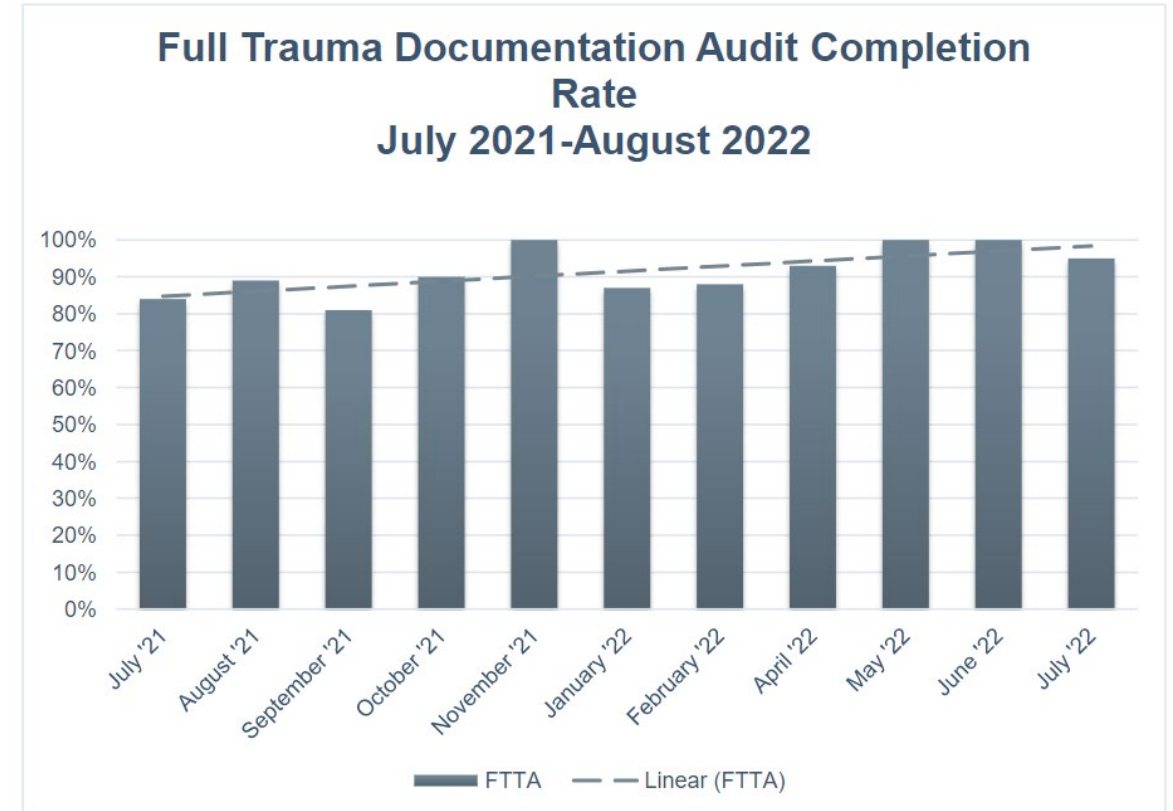
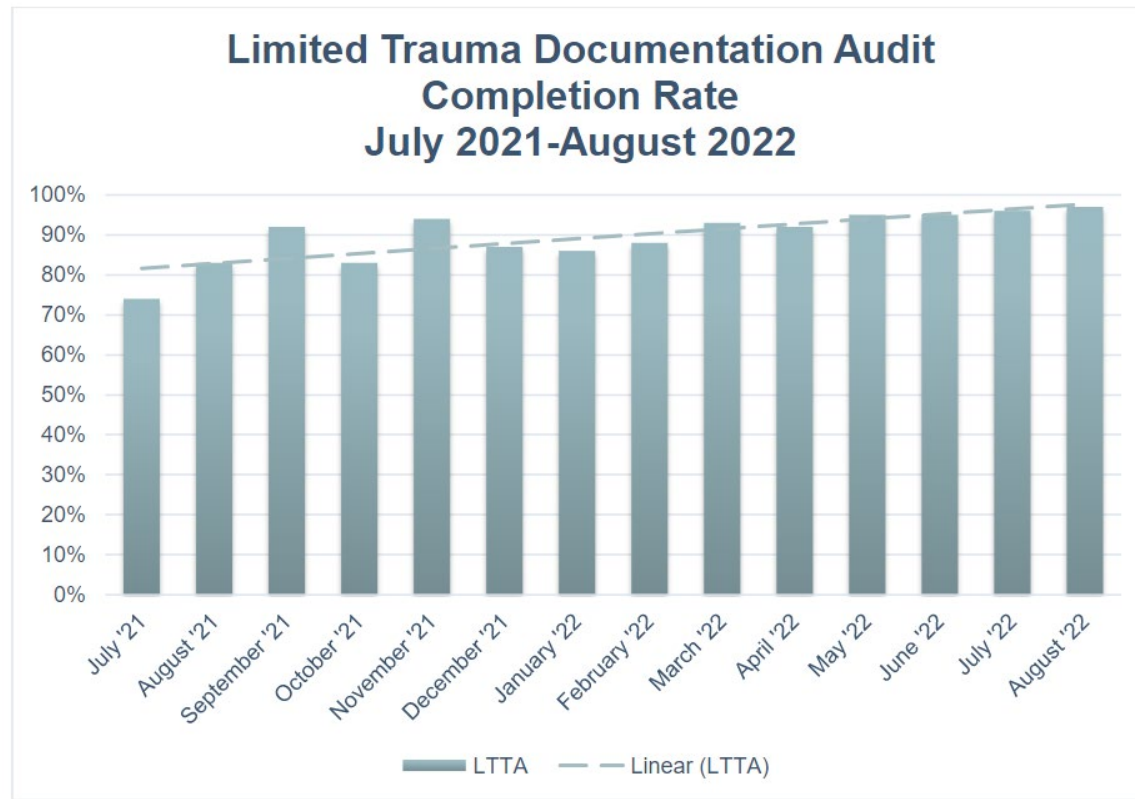
TNC Concurrent Review Process

- Standards of Care / CPG Compliance
- Policy Adherence
- Audit C (SBIRT) Completion
- Trauma Activation Nursing Documentation

Rolling 12 Months Audit C Completion Rates: State Inclusion Patients

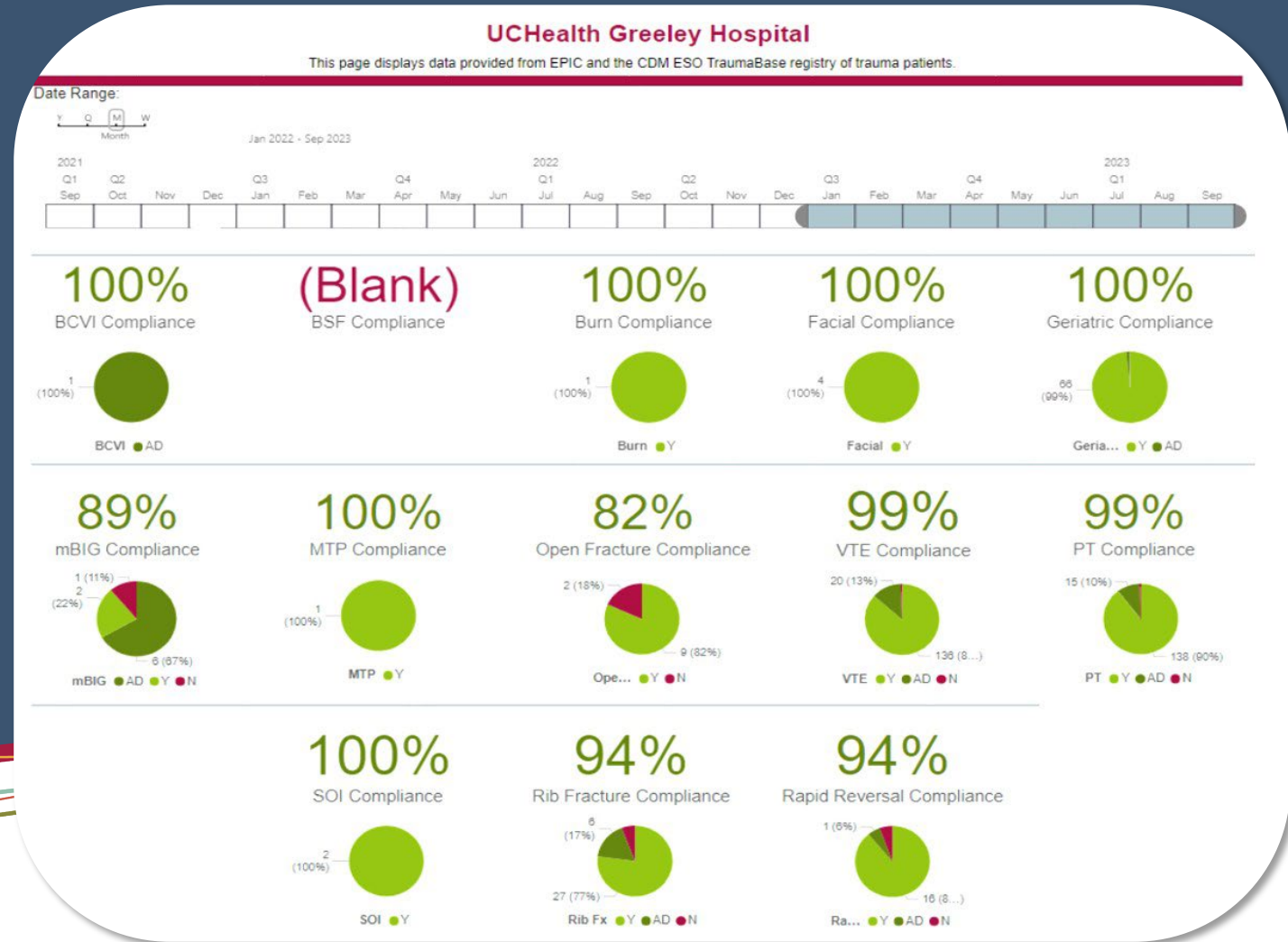


Trauma Documentation Audits

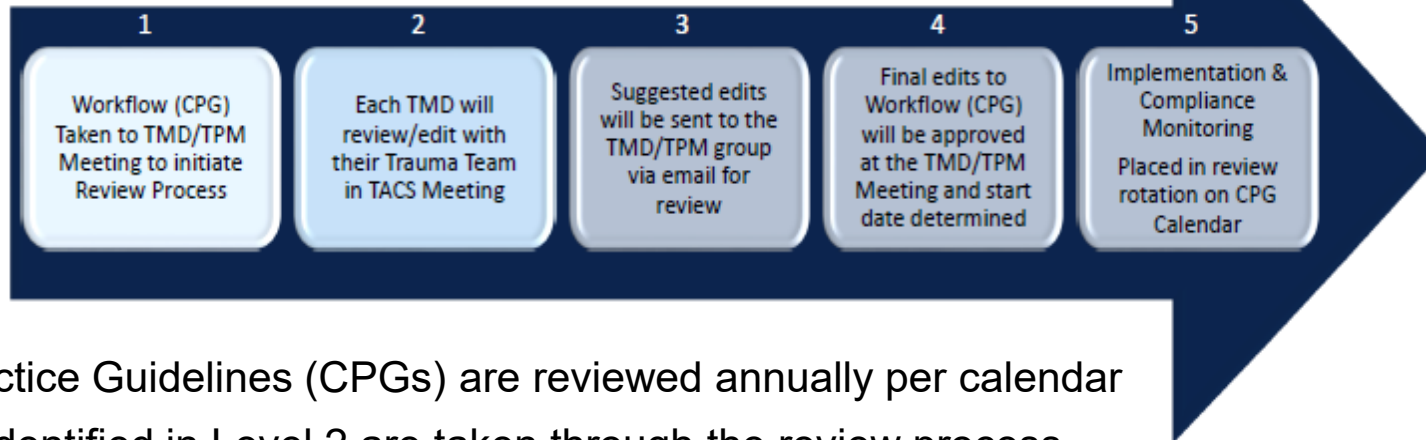


Improvements

MR2 Trauma Multidisciplinary Committee- Maintains facility-defined specialty care filters based on the written scope of care and nationally recognized best practice guidelines.



Clinical Practice Guideline Compliance



- All Clinical Practice Guidelines (CPGs) are reviewed annually per calendar
- Opportunities identified in Level 2 are taken through the review process
- Regional TMD review provides Level I Trauma Center resources for current evidence based practices
- Nationally Recognized Best Practice Guidelines are referenced
- All guidelines are reviewed to ensure scope of care and state trauma regulations are followed

Improvements



MR3 Trauma Peer Review Committee- Review any events that deviate from an anticipated outcome.

100% Review of All Registry Patients; Not Just Inclusion Patients

Non Accidental Trauma PI Initiative

Improvements

Reporting and Trending of Audit Filters

MR4 Demonstrate accountability by- Development and implementation of on-going reporting and trending of facility-specific audit filters.

- Reporting calendar developed for Peer and TOC
- Benchmarks defined in PI Dictionary
- Audit Filters reviewed annually
- PI Dictionary Change Log trends definitions and retirement of specific filters

FY23 Peer Slides: Report Calendar	
Topic	Month #
Title	All
On-Line Housekeeping	All
Confidentiality Notice	All
Ground Rules	All
Summary of Cases Reviewed: Aggregate	All
Just Culture Algorithm	All
Progressive Steps Continuum	All
Case Reviews	All
Consent Agenda	All
Peer - Opportunities for Improvement	All
Trauma Pearls	All
Attendance	All
Admission Volume (include Direct)	All
Focus Group Updates	All
Pediatric Population Drill Down	2, 8
mBIG Aggregate	All
Neurosurgery Consultations	All
Non-Surgical Admission & Consultation Rate	All
Non-Surgical Scoring Tool Adjust Rate	All
Non-Surgical Drilldown (No readmissions; state inclusions)	All
CPG Dashboard:	All
BCVI	
BSF	
Burn	
Facial	
Geriatric Workflow	
mBIG	
MTP	
Open Fractures	
VTE	
PT Compliance	
Obstetric Trauma	
SOI	
Rib Fractures	
Rapid Reversal	
MD Response Times	1, 4, 7, 10
ED Length of Stay & Disposition	3, 6, 9, 12
EMS overview (EMS Focus Group too)	5, 10
CPG Updates	PRN
FAST	1, 4, 7, 10
Exploratory Laparotomies	7
Missed/Delayed Diagnoses	2, 5, 8, 11
Hospital Events	6, 12
Rate of Mortality	1, 4, 7, 10
Inpatient Transfers	2, 7
Next Meeting	All
Links for Just Culture Slides	All

FY23 TOC Slides: Report Calendar	
Topic	Month #
Title	All
On-Line Housekeeping	All
Welcome & Announcements	All
Regional Executive Updates	All
Greeley Executive Updates	All
Old Business	All
System Process Reviews	All
Injury Prevention	3, 6, 9, 12
Blood Bank	1, 4, 7, 10
Research	2, 5, 8, 11
Education & Outreach	All
EMS Update	TBD
Trauma Reports	
Attendance	All
Registry Volume	All
Inclusion Volume	All
Admission Volume	All
Trauma Team Activation	All
Peds	3, 8
Over/Under Triage	2, 5, 8, 11
mBIG aggregate	2, 5, 8, 11
PT	3, 6, 9, 12
MTP	7
OR Delay	7
Audit C	All
Divert	9
Organ Donation	7
Transfers In	7
Transfers Out Location & Specialty for month	
Trauma Transfers Out Location & Specialty year	All
Operational Opportunities for Improvement	2, 5, 8, 11
New Business	All
Guideline Updates	All
60 Second Updates	All
Next Meeting	All

Focus Survey - October 2022

Strengths: 12

Opportunities: 3

Met with Reservations: 0

Strength Highlights:

- The culture and attitudes among staff are positive and mission driven.
- The performance improvement process is a strength. It is reliable and repeatable and not dependent on a particular member.
- The facility turned previous weaknesses and deficiencies into strengths by addressing previous review deficiencies through a comprehensive project that resulted in a reorganization of the whole trauma program through the “Reboot” project. The intent was not to fix deficiencies that were found. The focus was to truly identify all issues to ensure a sustainable and high-quality platform moving forward.

Questions?

Thank You



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