Performance Improvement & Patient Safety in a (newly designated) Level III Trauma Center

Jessica Mathiak, RN, BSN, MSA Trauma Program Manager Michigan Trauma Coalition May 19, 2022



A COMMUNITY BUILT ON CARE

MISSION

To provide quality, compassionate care in the communities we serve.

VISION

To consistently deliver the right care, in the right place, at the right time and to be a premier organization to work, where patient care and saving lives remain our focus.

VALUES

At Tenet Healthcare, our actions and behaviors define who we are, what we stand for and what we CARE about:

- Compassion and respect for others and each other, supporting our communities and advocating for our patients
- Acting with integrity and the highest ethical standards always
- Results delivered through accountability and transparency
- Embracing inclusiveness for all people in our workplace and in the communities we serve



The Detroit Medical Center

Who we are...

Tenet-DMC Hospitals

- Children's Hospital of Michigan
- Detroit Receiving Hospital
- Rehabilitation Institute of Michigan
- Sinai-Grace Hospital
- Huron Valley-Sinai Hospital
- Harper Hutzel Hospital, Inc.:
 - Harper University Hospital
 - Heart Hospital
 - Hutzel Women's Hospital
 - Kresge Eye Institute



Huron Valley-Sinai Hospital

Who we are...

- 158 Bed Community Hospital
- 28 Bed Emergency Department
- Established in 1986 by the community
- 857 Employees
- 6,694 Total Discharges in 2020
- 442 Trauma Cases in 2020
- 470 Trauma Cases in 2021



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Huron Valley-Sinai Hospital

Who we serve...

We serve the communities of:

- Commerce
- Hartland
- Highland
- Milford
- Novi
- Walled Lake
- Waterford
- West Bloomfield
- White Lake
- Wixom



Trauma Demographics

Who we serve...

Top Injuries:

- 1. Falls (Over age 65 majority)
- 2. MVC
- 3. "Other" Blunt Trauma

Injury Prevention: Geriatric Falls Education, Community CPR, Stop The Bleed, Educator/School Staff



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Trauma Services at HVSH

Our Trauma Team consists of:

- Trauma Medical Director
- Trauma Program Manager
- Trauma Registrar
- Multidisciplinary Peer Review Committee
 - Emergency Medicine
 - Orthopedics
 - Neurosurgery
 - Critical Care
 - Anesthesia
 - Trauma Surgery
 - Ad Hoc Internal Medicine and Pediatrics



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Our Trauma Story

A Community Built On Care

Trauma Services Timeline

Official Trauma Application December 2017

Our first site visit in November 2019 resulted in 4 type 2 deficiencies:

- CD 2-17
- CD 5-16
- CD 16-4
- CD 16-2

Additionally, we received recommendations from our surveyors to strengthen our program.

- 1. Developed admission policy
- 2. Improved physician documentation for timing of care \checkmark
- 3. Decreased surgeon response times \checkmark
- 4. Connected with our sister DMC facilities for PI support
- 5. Developed FAST MOD 🗸

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Deficiency	Action Plan	Supporting Documents
CD 2-17, Type II – "For level I, II, III and IV trauma centers, a trauma medical director	-Updated multidisciplinary trauma peer review committee form to include PIPS monitoring.	Peer Review form
and trauma program manager knowledgeable and involved in trauma care must	-Installed a new registry (DIv5 NTRACS) May 1 st that captures monitoring and has	
work together with guidance from the trauma peer review committee to identify	benchmarking capabilities	Social Work consult
events, develop corrective action plans, and ensure methods of monitoring,		
reevaluation, and benchmarking."	-TMD established corrective action plan with surgeons based on committee review	Head CT MOD and order
Recommendation: Collaborate on the development of a mechanism and process to	-Process implementation based on identified gaps	
identify opportunities for improvement.		
CD 5-16, Type II – "Trauma surgeon response time to other levels of TTA, and for back-up call	-Revised TTA policy	Updated Trauma Team Activation Criteria policy
response, should be determined and monitored. Variances should be documented and	-Continue PI review of all TTA	
reviewed for reason for delay, opportunities for improvement and correction actions."	-Decreased response time for TC2 to 2 hours and TC3 to 8 hours	
Recommendation: Consider decreasing the trauma surgeon response time for level 2		
activations and continue to monitor through the PI process.		
CD 16-4, Type II – "Trauma programs should seek to reduce unnecessary variation in	-Networked with Tenet Healthcare/DMC to review best practices for admission guidelines	Admit Criteria and MOD
the care they provide. To achieve this goal, a trauma program must use clinical	-Created an admission MOD for consistency	
practice guidelines, protocols, and algorithms derived from EB validation resources."	-Continued provider education regarding surgical/trauma admits versus NSA to medicine, with trauma being primary	
Recommendation: Develop clinical protocols to maintain consistency.	service	
CD 16-2, Type II – "Problem resolution, outcome improvements, and assurance of safety ("loop		
closure") must be readily identifiable through methods of monitoring, reevaluation,	-With the new registry purchase, the PIPS monitoring dramatically improved for loop closure	
benchmarking, and documentation."	-Able to document corrective action as well as dates for PI tracking	
Recommendation: Develop a robust and effective performance improvement program that	-Primary review is done daily, secondary review weekly PRN and tertiary review monthly	
identifies areas of opportunity, implements action plans that address the identified gaps and		
follow-up (loop closure) to ensure resolution. Issues should be tracked and trended to ensure		
full resolution.		
· · ·		Admission MOD
There is inconsistent documentation for physician response times and	-Weekly Trauma education for EM physicians	Trauma H&P
progress notes.	-As a system, the Trauma H&P was updated to include times for all DMC facilities	
	-Included Chief of Staff on timely response from consultants	
The center has a 12-hour trauma surgeon response time for level II	-Decreased to 2 hours	TTA Policy
activations.		
Alcohol screening for admitted patients is dependent on BAC versus a	-Continued this practice as we further investigated other facilities locally utilize the same method	
	-Additionally, all patients are screened for ETOH and substance use in triage & in admission form	
	-Social work is consulted for all patients who test positive or screen positive at triage or on the inpatient	
The facility belongs to a multiple hospital system that has trauma	-Utilizes TPM's at sister facilities for support informally as needs arise	
	-Purchased the same registry as our sister facilities	
	-Connected with the Tenet Trauma Network and meet monthly with market TPM's	
	-Elicits feedback from DRH TMD on quality assurance/PI	
	-Hired surgeon from Sinai-Grace as TMD	
The facility does not have a policy or practice guideline describing the use of alternative	-Created a EAST exam MOD based off of Detroit Receiving Hospital MOD	
imaging modalities such as FAST in circumstances in which axial imaging of injured patients is		
not immediately available.		
The center has a 12-hour trauma surgeon response time for level II activations. Alcohol screening for admitted patients is dependent on BAC versus a screening tool. The facility belongs to a multiple hospital system that has trauma experience and expertise currently not fully utilized. The facility does not have a policy or practice guideline describing the use of alternative imaging modalities such as FAST in circumstances in which axial imaging of injured patients is	 -As a system, the Trauma H&P was updated to include times for all DMC facilities -Included Chief of Staff on timely response from consultants -Decreased to 2 hours -Continued this practice as we further investigated other facilities locally utilize the same method -Additionally, all patients are screened for ETOH and substance use in triage & in admission form -Social work is consulted for all patients who test positive or screen positive at triage or on the inpatient -Utilizes TPM's at sister facilities for support informally as needs arise -Purchased the same registry as our sister facilities -Connected with the Tenet Trauma Network and meet monthly with market TPM's -Elicits feedback from DRH TMD on quality assurance/PI 	

Huron Valley-Sina Hospital



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CD 2-17 Type II Deficiency

Recommendation: Collaborate on the development of a mechanism and process to identify opportunities for improvement.

Multidisciplinary Committee

Tools & Resources

Huron Valley-Sinai Hospital Department of Surgery Trauma Services

MULTIDISCIPLINARY PEER REVIEW WORKSHEET

Date of Review:

Reason for review	Patient Name	FIN
Age/Gender	DOS/TOA	Injuries/Dx
PMH :	•	

Clinical Summary

PI Audit Filters:

This is a confidential professional/peer review and quality improvement document of the DMC. It is protected from disclosure pursuant to one or more of the provisions of MCL 331.531, MCL 331.533, MCL 333.20175, MCL 33.21515, and MCL 330.2243a and other state and federal laws. Unautorized disclosure or duplication is absolutely prohibited. Determination of Contributing Factors

Patient/Disease-related: Progression of injury Exacerbation of pre-existing co-morbidity Other

Provider-related: Delay in diagnosis Error in diagnosis Error in judgment or Interpretation Error in technique Non-compliance with policy/protocol

System-related: Lack of resources Lack of or inadequate protocol System inadequacy

Not applicable: Cannot be determined:

Findings/Judgment

NA/acceptable	No deficiency identified (Management appropriate; event due to patient's illness or unavoidable outcome.)
	Opportunity for improvement. (Minor error or complication with no disability, or treatment change caused by physician/other healthcare professional's omission or commission.)
Unacceptable	Deficiency in care. (No disability but requiring major treatment change; i.e. surgery or ICU stay, caused by physicians other healthcare professional's omission or commission.)
Deferred for further review	Deficiency in care. (Permanent disability, injury or death caused by physician/other healthcare professional's omission or commission.)

Improvement Actions and Timeline

Refer for additional expert review (nar	ne/committee)	
None necessary	Counseling	
Educational activity	Privilege/credentialing	
Data-gathering for trending	Resource enhancement	
Develop guideline/protocol		
Timeline for actions:		

Preventability

Prevent Unprev			Not applicable Cannot be determined
Mortality	UWth opportunity	Without opportunity	DN/A

Reviewer Signature:

Date:

PIPS Monitoring:

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TTA Policy

Full Trauma Team Activation	Partial Trauma Team Activation	No Trauma Team Activation
Level 1	Level 2	Level 3
Primary Survey: PHYSIOLOGIC	MECHANISM OF INJURY	EVALUATION by Trauma
Persons who sustain an injury with any of	Persons who sustain injury with any	(Place consult or Admit)
the following:	of the following:	
Airway	Falls	TRAUMA
 Unable to adequately ventilate 	 Adults >20 ft 	 Low speed MVC requiring
 Intubated on scene or need emergent 	 Children >10 ft or 2x their height 	admission/obs
airway		 Patients who require more
 Traumatic Arrest 	High Risk MVC	than one service line consult
	 Intrusion of vehicle >12" into 	for an injury
Breathing	occupant compartment, >18"	 Any injured patient going to
 RR <10 or >29 per minute 	into any other area	the OR from the ED
 Any sign of respiratory insufficiency 	 Ejection (Partial or complete) 	· Patients with co-morbid factors
(hypoxia, accessory muscle use,	 Death in same passenger 	with head, abdomen or chest
grunting)	compartment	injury requiring admission/obs
	 Rollover 	 Injury that meets admission
Circulation	 Speed >45mph 	criteria but not TC1 or TC2
 SBP <90mmHg (ages 10-adult) 	 Prolonged extrication 	
 SBP<70 + 2x age (ages 1-10 yrs old) 	-	ORTHOPEDICS
 SBP <60 mmHg (less than 1 year old) 	Auto v. Pedestrian/Cycle thrown,	 Consult to Ortho for isolated
 Any sign of cap refill > 2 Seconds 	run over or with significant impact	bone injury requiring surgical
	>20mph	intervention
Deficit		
 GCS<12 	Motorcycle Crash >20mph	NEUROSURGERY
 AVPU: responsive to pain or 		 Consult to Neurosurgery for
unresponsive	Ejection from motorcycle, ATV,	head/spine trauma requiring
 Deterioration of previous stable patient 	snowmobile, animal, etc	surgical intervention (Admit to
		Trauma)
Secondary Survey: ANATOMIC	Striking fixed object with	Special Considerations
Penetrating (GSW, stab, shrapnel)	momentum	Consult OB for injured patients >20
injuries to the head, neck , torso or		weeks gestation
extremities proximal to the elbow/knee	Injuries from a blast or explosion	weeks Bestacion
Open or depressed skull fracture		Suspected non-accidental trauma
Paralysis/Spinal Cord Injury	Blunt abdominal injury	sospected non-accidental traditia
Flail Chest	+ Seatbelt sign	ALL DATICALLY MOTIVALE IN ANY INCOME.
Unstable Pelvic Fracture		ALL PATIENTS WITH HEAD INJURIES
Amputation proximal to the wrist or	High Energy Electrical Injury	ON ANTI-COAGULANTS or ANTI-
ankle		PLATELETS (excluding ASA alone)
2 or more long bone fractures	Burns >10%TBSA and/or inhalation	are to be immediately triaged with
Crushed, mangled or degloved	injury	target door to CT Read <45 mins
extremity/multiple fingers		
	Suspected hypothermia, drowning,	
and a second second second second second	hanging	
considered while the state		
Evidence of Shock	Injured patient >20 weeks gestation	
Positive cardiac/abdominal FAST exam	with vaginal bleeding/contractions	
Requires Aeromedical launch		
Suspected cardiac or major vessel injury		
Unstable facial fracture		



Trauma Services

Because we are overachievers...

Welcomed a new Trauma Medical Director and expanded trauma surgeons on-call

Strengthened our relationship with EMS

- Applied for and was granted Provisional Trauma Status by OCMCA Feb 2020
- Supported EMS with education during pandemic
- Volunteered ED physicians in medical directorships and support roles

Increased surgical residency program to 24/7

Expanded Neurosurgery program

Purchased new trauma registry to mirror DMC facilities with access to ESO

Dedicated Trauma Registrar

Developed a leading practice MOD for "Falls on Thinners"

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Performance Improvement & Patient Safety

Case Identification Audit of ED/in-patient log, PI committee, rounds, staff report, hallway conversation, email, patient complaint, observation **Primary Review** TPM No Filter fall out? Process concern? Care concern? Yes Secondary Review TPM + TMD + others? No Process concern? Care concern? Yes Tertiary Review: Trauma program team Tertiary Review: Provider case review Multidisciplinary Develop an action plan Define loop closure Records of all trauma PI activities maintained by trauma program staff

Trauma PI Flowchart



PI Initiative: Falls on Thinners

- Ground level falls
- Geriatric population
- Anticoagulant use

- PIPS Action Plans
- FOT MOD

A few nuggets from our journey

"Just the two of us"

- Registrar identification & abstraction: The lifeblood of your PIPS
- Audit filters are your friend!
- Focus on what matters to YOUR community ③
- Being a squeaky wheel is really necessary
- Reports don't lie (Junk in is junk out)
- Trauma is a team sport
- Asking for help is the best thing you can do
- Don't close the loop unless it's really closed
- PIPS is continuous

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					PEDS: INS:
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		3) + PE ON 5/4	6) 7)			
		4) MSG PHTR	8)			
FIN#			REGISTRY ID#			
DATE OPENED	:	5/10/22	Loop Closed:			
		Primary		Comment:		
Level of Review	w:	Secondary				
		Tertiary	-0			
		CONTRIBUTIN	IG FACTORS:			
PROVIDER:		Error in Mgmt	MORTALITY:	Anatomical Diagnosis		
		Error in technique		DNR order		
		Delayed treatment		DOA or DOS		
		Missed diagnosis		Survival probability		
	0	Deviation from protocol		Withdrawl of Life support		
SYSTEM:		Communication deficiency	MORBIDITY:	Comorbidity		
		Communication failure		Disease related		
		Departmental Deficiency		Other Pre-existing condition		
		Departmental failure		Patient behavior or refusal		
		Equipment or supply deficiency				
		Equipment failure				
DETERMINATIO	ON:	System related	OFI status:	Acceptable		
		Disease related Provider related		 Acceptable with Reservations Unacceptable 		
CORRECTIVE A	CTION	No action items taken		Discussion with individual		
CORRECTIVE A	CHON.	Education offering		Refer to peer review committee		
		Policy or practice Guideline: Develop		Referral to prehospital		
		Policy or practice guideline: Revise		 Referral to physician/provider 		
		Referral to dept head		Referral to trauma systems committee		
		External review		Track and trend for further reporting		
		Disciplinary action		Other		
		Administrative action				

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A Happy Ending

Going from an F to an A+

August 2021

MDHHS invited HVSH to be a pilot site for virtual survey

Surveyors are a BLESSING

Achieving OPTIMAL care requires TRANSPARENCY

And the survey shows...



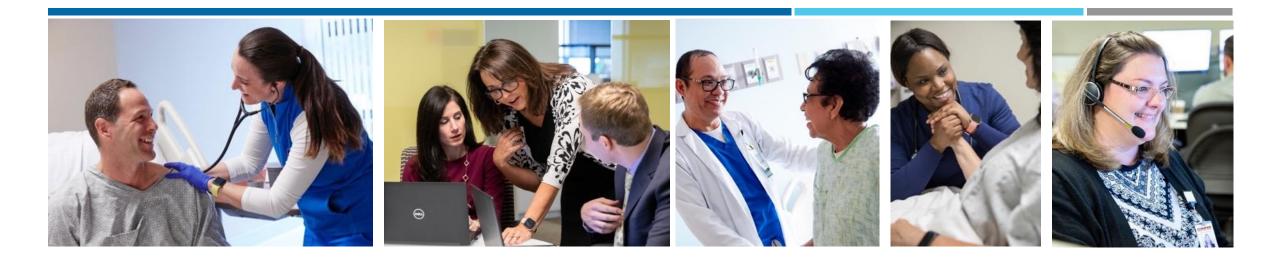
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The Michigan Department of Health and Human Services (MDHHS) would like to congratulate DMC Huron Valley-Sinai Hospital on its verification and designation as a Level III trauma facility for a period of three years, expiring on August 10, 2024. The Designation Subcommittee (trauma content experts) and MDHHS have carefully reviewed the verification documents, designation application and Level III site visit report documenting the site visit conducted on August 10, 2021.

MDHHS recognizes this important achievement and the integral part DMC Huron Valley-Sinai Hospital has in building a regionalized, coordinated and accountable trauma system in Michigan.

Sincerely,

Eileen Worden State Trauma Manager Bureau of EMS, Trauma and Preparedness Michigan Department of Health and Human Services



DMC Huron Valley-Sinai Hospital

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THANK YOU!

Any Questions?

Jessica Mathiak, RN, BSN, MSA Jmathiak@dmc.org (248) 937-4177