Performance Improvement Committee

Statewide Trauma Advisory Council Wednesday, March 6, 2024



Acronyms

- GCS: Glasgow coma scale
- PHI: Protected health information
- PI: Performance improvement
- PIPS: Performance improvement and patient safety
- TOPIC: Trauma Outcomes and Performance Improvement Course

Agenda

- Call to Order and Introductions
- Review and approve December 2023 meeting minutes
- Pediatric Audit Filters
- Feedback Letter
- Poll for PI assistance
- TOPIC Poll

Agenda

- Regional PI Process Guideline Evaluation
- Adult PI dashboard review
- Public comment related to the Wisconsin Trauma Care System

Committee Members

- Chair: Thomas Bergmann, Aurora BayCare Hospital, Region 3, Level II
- Vice Chair: Kristin Braun, Children's Wisconsin, Region 7, Level I
- Committee Members:
 - ◆ Ali Heiman, Aurora Oshkosh, Region 6, Level III
 - Tracy Schaetzl, UnityPoint Health Meriter, Region 5, Level IV
 - ◆ Thomas Ellison, UW Health, Region 5, Level I

Approval of Minutes

Pediatric Audit Filters

Criteria

 2(p):The TCF's trauma PIPS program must have audit filters to review and improve pediatric and adult patient care

Evidence

- Kissoon N, Tepas JJ 3rd, Peterson RJ, Pieper P, Gayle MO. **The evaluation of pediatric trauma care using audit filters**. Pediatr Emerg Care. 1996 Aug;12(4):272-6. doi: 10.1097/00006565-199608000-00009. PMID: 8858651.
- Nakayama DK, Gardner MJ, Waggoner T. Audit filters in quality
 assurance in pediatric trauma care. J Pediatr Surg. 1993 Jan;28(1):19-25. doi: 10.1016/s0022-3468(05)80347-1. PMID: 8429465.
- Copes WS, Staz CF, Konvolinka CW, Sacco WJ. American College of Surgeons audit filters: associations with patient outcome and resource utilization. J Trauma. 1995 Mar;38(3):432-8. doi: 10.1097/00005373-199503000-00027. PMID: 7897733.

Society of Trauma Nurses

- Weight documented on arrival
- Appropriate fluid resuscitation of child with signs of shock, 20cc/kg bolus x2 followed by blood administration
- GCS documented on arrival and at least Q1 hour with head injury
- Child abuse screen for all injured children with suspicious injury or history

Society of Trauma Nurses

- Appropriate IV/IO access with appropriate fluid resuscitation including maintenance IV fluids
- Clear documentation of splenic or liver injury grade with clear documentation of plan of care, operative versus non-operative
- Emergent operative intervention required for any expected non-operative care (spleen, head . . .)
- Over- and undertriage

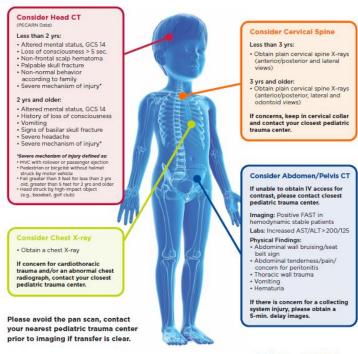
ImageTrend Filters

- Pediatrician not consulted within 48 hours <13yrs
- Pediatric trauma case
- Pediatric transferred to non-pediatric trauma center
- ATMD-Adult trauma MD cared for peds patient (0-14)

State Imaging Guideline

State of Wisconsin Pediatric Imaging Guidelines for Blunt Trauma

(This guideline is not meant for Child Abuse Investigation)







UWHealthKids

American Family Children's Hospital

Cumberland Healthcare Example

- Amazing work!
- Thank you Rebecca Ekenstedt from Cumberland Healthcare for sharing



PEDIATRIC AUDIT FORM

Confidential - Peer Review Protected

Prepared for Purpose of Peer Review in Quality Assurance Activity

MR #:	Account #:		Trauma Log #:		
ER Provider:	Surgeon:				
Identified Injuries:				_	
Arrival Time: Dispose	Disposition Time: Total Time in ED:		Admit to unit time:		
Disposition: DC Home Death	Admit: ICU, Med/Surg, OR, OB, Other	Transfer to:		_	
	CRITERIA MET	Met	Not Met	NA	
Missed intubation (more than one atte	empt to place endotracheal tube)				
Unplanned extubation (Unintentional	extubation by patient or provider)				
Extubation within 24 hours of RSI (ex	xcluding operative procedures)				
Hypocapnia and/or hypercapnia					
Resuscitation volume problems (Infu	sion of more than 50 ml/kg during the first 2 hou	rs in child			
with normal VS)					
	ld with signs of shock (20cc/kg bolus x2 followe	d by blood			
administration)					
	isition of vascular access that takes longer than 5	minutes to			
accomplish, especially if intraosseous	•				
	operative management (Any operation for control	l of			
hemorrhage in a patient being manage	ed non-operatively)				
Nosocomial pneumonia					
Missed injury (Any injury related to	the initial traumatic event diagnosed more than 2	24 hours			
after admission)					
Child abuse screen for all injured chi	ldren with suspicious injury/history				

For questions

Pediatric Trauma Centers: we want to help!!!



Feedback Letters

Feedback Letters

- Discussion items provided to level I and II facilities
- For further discussion, reach out to the level I and II facilities directly
- If you need a contact, reach out to <u>DHSTrauma@dhs.wisconsin.gov</u>
 - Do not provide any PHI

Poll for PI Assistance

What area of PI would you like additional education on?

- Event identification
- Audit filters
- Multidisciplinary committee
- Pre-hospital
- Inpatient
- Action plans
- Loop closure
- Written PIPS plan

TOPIC Poll

Is there a need for TOPIC?

- Yes, traditional course
- Yes, rural course
- Yes, either course
- No

Regional PI Process Guideline Evaluation

Current Plan

Regional Performance Improvement Process
 Guideline 2021 Review

Revision

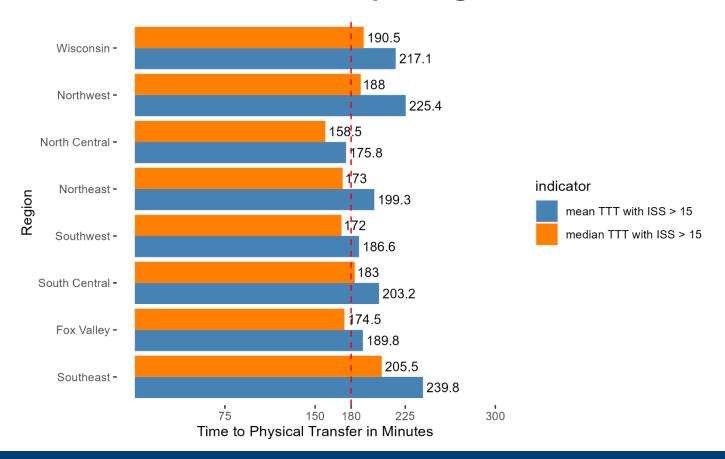
- Call out for workgroup members
- Goal to have a revised draft to present at the June 2024 meeting
- Any additional feedback can be sent the <u>DHSTrauma@dhs.wisconsin.gov</u>

Adult PI Dashboard Review

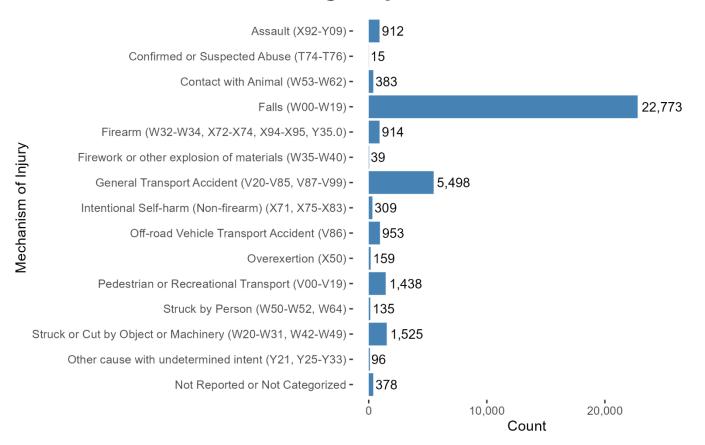
Data details

- Includes data with incidents dates occurring in 2023
- Data was pulled 2/7/2023, late submissions from December may not be included in these numbers
- Only injuries meeting the inclusion criteria were included

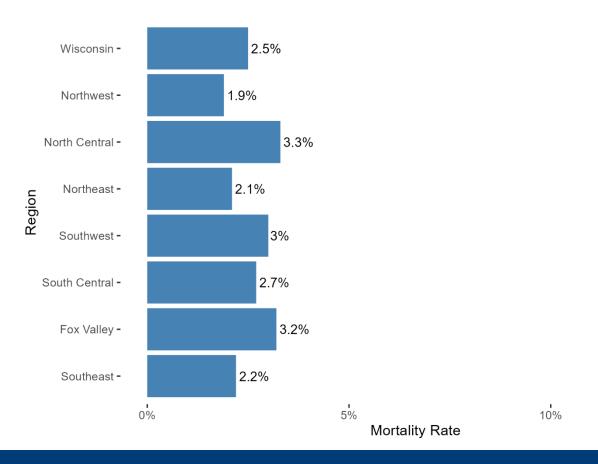
Time to Transfer by Region 2023



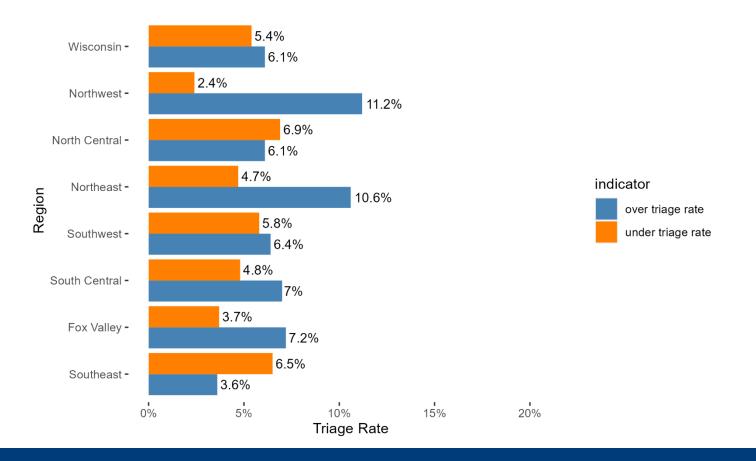
Mechanism of Injury 2023



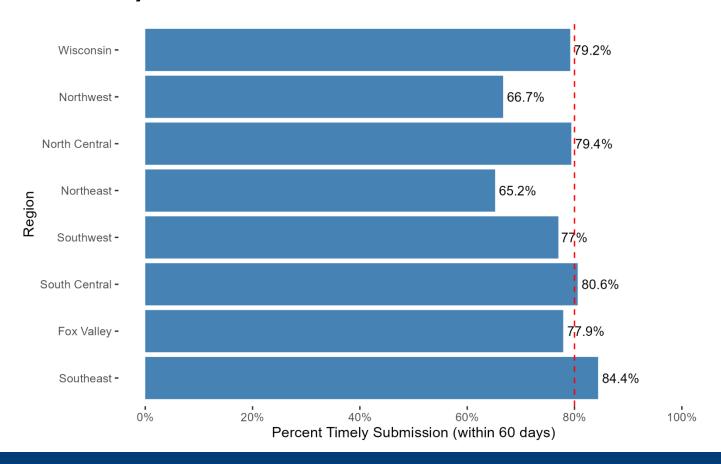
Mortality Rate by Region 2023



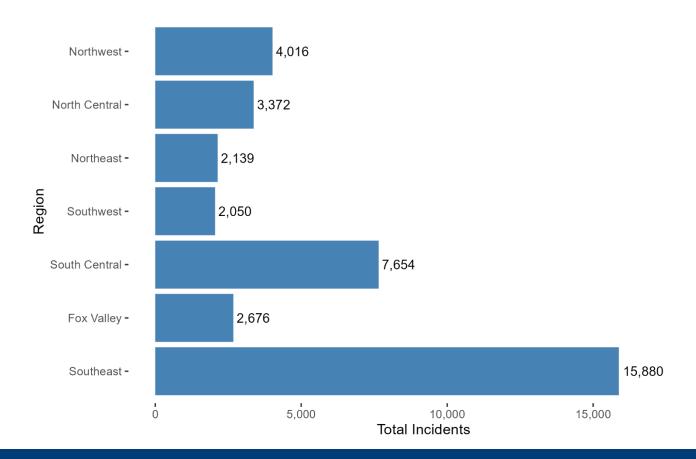
Over- and Undertriage Rate by Region 2023



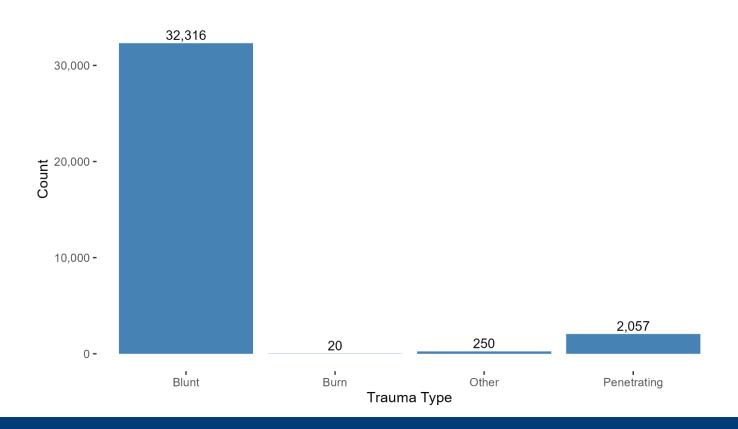
Timely Submission for 2023



Total Incidents 2023



Primary Injury Type



Questions?