



Region 8  
Trauma Advisory Council  
October 2025

# Agenda

- Call to order
- Attendance and introductions
- Agenda approval
- Minutes approval
- Public comment

# State updates

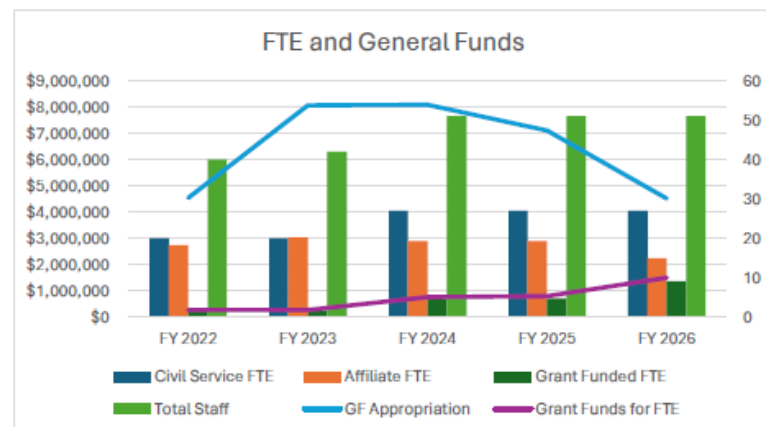
- EMSCC and committees
- System of Care: Trauma

## Introduction

Stable funding that reflects the statutory responsibilities for the Division of EMS and Systems of Care (Division) has been elusive, requiring strategic efforts to match responsibilities with resources each year. Funding caps were determined, in some cases, more than 20 years ago. There is significant discussion of funding each year, but it is greater this year due to an unexpected reduction in the budget. This document is an effort to describe the status of resources and funding gaps within the Division, and what potential next steps might be.

## Background, Funding, and Staffing History

Prior to 2021, the Division was funded with a combination of restricted funds (Trauma), general funds (GF), and federal grants (EMS for Children). The Trauma funds had multiple sunsets but were maintained in GF through stakeholder advocacy efforts. The Division has secured temporary federal funding through both competitive grants from the Office of Highway Safety Planning and EMS for Children dollars. This document primarily focuses on the GF received through the state budget process. Staff are distributed across service lines – at the division level (7), the trauma system (14), stroke and STEMI (7), EMS programs (8), EMS oversight (13), and EMS competency (1).



- FY 23:
  - Stroke/STEMI funded (\$3,000,000)
  - Work Project \$1,750,000 for technology RFP
- FY 24:
  - Work Project \$500,000 for technology RFP
  - Administrative rules for Stroke and STEMI promulgated
  - Legislation passed to develop a Michigan only pathway to paramedic licensing, no budgetary support
- FY 25:
  - Stroke/STEMI reduced (\$1,000,000)
  - Fully spent, no true carry forward
  - Utilized Work Project (GF) dollars for technology project (Approximately \$1,100,000 remaining)
- FY 26:
  - Removed entire appropriation for Stroke and STEMI (\$2,000,000)
  - Reduced Trauma Services (\$630,500)
  - Approximately a 37% reduction in GF – lowest funding level in years

## Actual costs

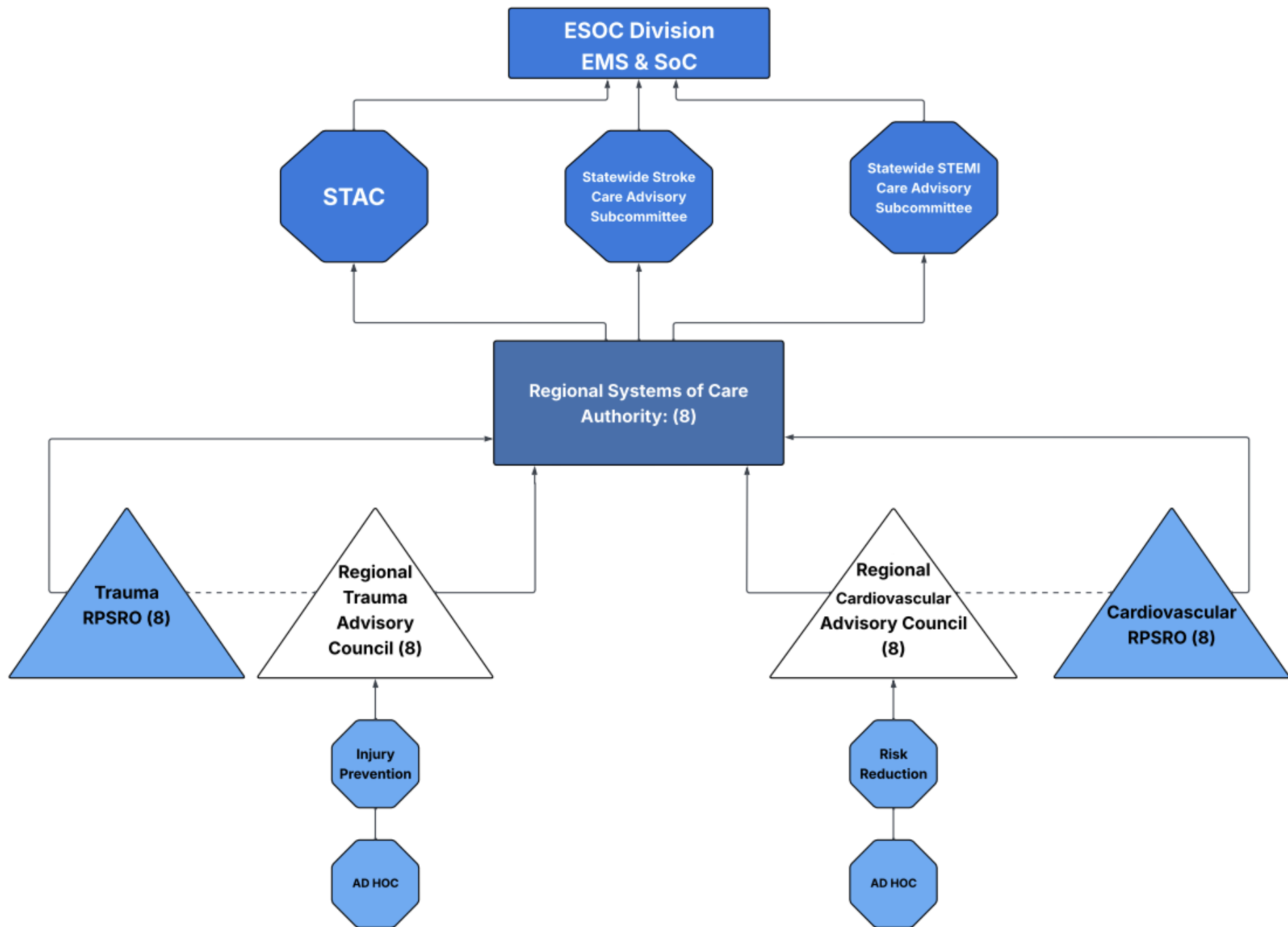
- Statute requires that MDHHS support data collection (EMS patient care records and a registry for trauma, stroke and STEMI). The original technology contract was 15 years old and not renewable. That contract was approximately **\$175,000/year**. The new RFP-driven contracts will cost more than **\$500,000/year** with annual escalation.
- Personnel costs, as in every industry, have increased every year by more than **5%** - not including indirect costs for benefits. The expansion of responsibilities requires additional qualified staff. There is more work than ever before, while the funding cap continues to be at mostly pre-pandemic levels.
- Medical Control Authorities (MCAs), a crucial component of all time-sensitive systems in Michigan, continue to be unfunded at the state level. This puts significant pressure on the Division to support these entities while assuring quality clinical care and oversight across the state and through the systems.
- System development involves verifying resources of participating hospitals (123, with some participating in all three programs), establishing 8 regional structures, developing and implementing a data collection process, establishing and supporting the work of subject matter experts (600+), and supporting programs that enhance the development of a growing system.
- Historically, not every dollar of appropriated funding was expended. While fully spent now, the Division has previously returned unspent dollars to the system through work projects, awarding **782** grants to support education, injury prevention, performance improvement, infrastructure and risk reduction at a regional level. These dollars supported MCAs, hospitals, and EMS agencies.
- The department is legislated to provide training to members of the system, biannually, which is accomplished through a conference. Registration rates are kept low, to make the training accessible, with the burden of cost falling to the Division.
- The Division has distributed hundreds of workforce grants to support the EMS system with minimal administrative costs. These dollars have been distributed to students, programs, and agencies in need. More than \$16,000,000 has been distributed, with less than \$200,000 going towards the Division's efforts. This project has increased the number of licensees statewide.

## Impact and Planning

- Patients with time sensitive emergencies rely on fully functional systems designed to support Michigan residents from pre-injury or cardiovascular event through rehabilitation to ensure positive outcomes and a return to a productive life. This includes Medical Control Authorities, EMS Personnel and Agencies, Emergency Departments, and Hospitals being integrated and supported.
- There is an effort to capture other dollars within MDHHS, some federal dollars, and support from the Division of Emergency Preparedness and Response to keep the Division wholly staffed. While these efforts are deeply appreciated, this cannot be a long-term solution.
- In the absence of full and continuous funding, the Division of EMS and Systems of Care cannot continue to support the systems at the same rate or scale. Resources will be carefully allocated and responses to issues will be triaged, which may impact the timeliness of task completion and the efficacy of quality assurance and monitoring programs, jeopardizing public health and safety.

# Trauma Center Status

- Baraga received focus visit.
- Munising, Schoolcraft, and UPHS Bell filed letters of intent to be trauma centers with initial visits to be scheduled in 2026.
- Aspirus Keweenaw has filed a letter of intent to be visited in 2026.



# Software

## Data housing

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*Hospital Hub exists for hospital to gain access to EMS reports*

- ☆ Trauma Registry & Repository
- ☆ EMS Documentation tool
- ☆ EMS Repository
- ☆ EMS Reports

# MCI workshops, tabletops, drills, exercises

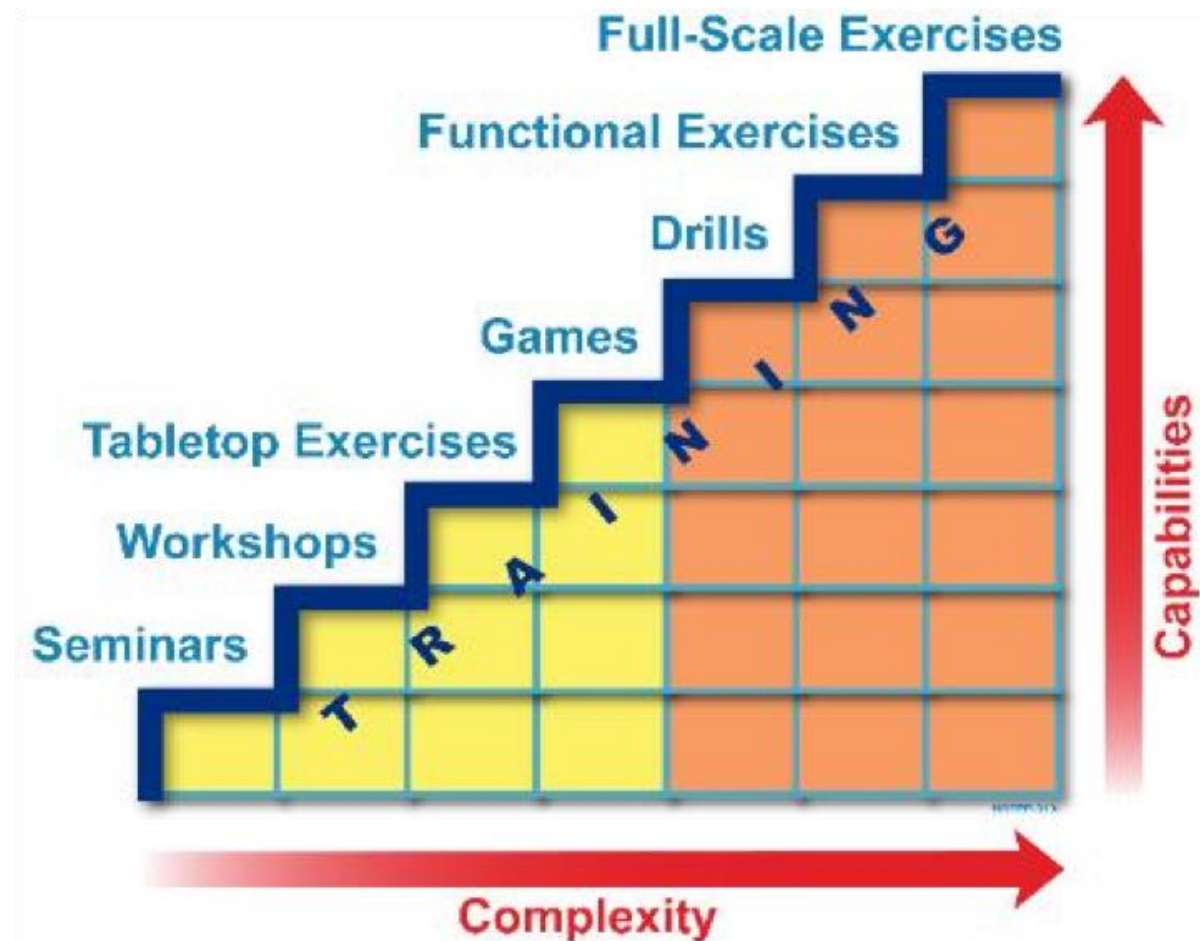
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What hospitals and MCAs conducted these in CY2025?

Any scheduled for the last quarter of 2025?

What is scheduled for CY2026?

*By December 2026, the RTN and the Region 8 Healthcare Coalition (R8HCC) will conduct a half-day workshop and four tabletop exercises (UP west, central, south, east) that incorporate a hospital being unable to accept any patients because of natural and/or manmade disaster. The results of this will provide the foundation for diversion plan development during the next workplan.*



# Top CY2025 R8 Diagnosis Codes in Trauma Registry

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|                                                                                         |     |
|-----------------------------------------------------------------------------------------|-----|
| (S09.90XA) Unspecified injury of head, initial encounter                                | 104 |
| (S22.42XA) Multiple fractures of ribs, left side, initial encounter for closed fracture | 87  |
| (S00.83XA) Contusion of other part of head, initial encounter                           | 79  |
| (S00.03XA) Contusion of scalp, initial encounter                                        | 78  |
| (S00.81XA) Abrasion of other part of head, initial encounter                            | 73  |

# Not matching post.4 Diagnosis Codes in Trauma Registry

Burns do not match, included, not errors.

4531 total entries, up to 7% error

|                                         |            |
|-----------------------------------------|------------|
| Aspirus Iron River Hospital and Clinics | 3          |
| Aspirus Ironwood Hospital               | 10         |
| Aspirus Keweenaw Hospital               | 9          |
| Baraga County Memorial Hospital         | 24         |
| Helen Newberry Joy Hospital             | 28         |
| Marshfield Medical Center - Dickinson   | 131        |
| Munising Memorial Hospital              | 55         |
| MyMichigan Medical Center Sault         | 3          |
| OSF Healthcare St. Francis              | 2          |
| Schoolcraft Memorial Hospital           | 9          |
| UP Health System - Bell                 | 45         |
| UP Health System - Marquette            | 1          |
| UP Health System - Portage              | 5          |
| <b>Grand Total</b>                      | <b>325</b> |

## Examples in Diagnosis Codes

(D18.09) Hemangioma of other sites

(D64.9) Anemia, unspecified

(E87.1) Hypo-osmolality and hyponatremia

(F03.90) Unspecified dementia, unspecified severity,  
without behavioral disturbance, psychotic disturbance,  
mood disturbance, and anxiety

(F10.929) Alcohol use, unspecified with intoxication,  
unspecified

(F17.290) Nicotine dependence, other tobacco product,  
uncomplicated

(F44.5) Conversion disorder with seizures or convulsions

(G20.A1) Parkinson's disease without dyskinesia, without  
mention of fluctuations

(G35) Multiple sclerosis

(G40.909) Epilepsy, unspecified, not intractable, without  
status epilepticus



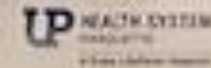


234



## Enhancing Rural Bystander Readiness Through Community-Based First Aid Training

Levi Laurent, MS2



### INTRODUCTION

Trauma remains the leading cause of death among Americans under 46. In rural settings, delayed EMS response significantly increases mortality risk, underscoring the importance of timely bystander intervention.

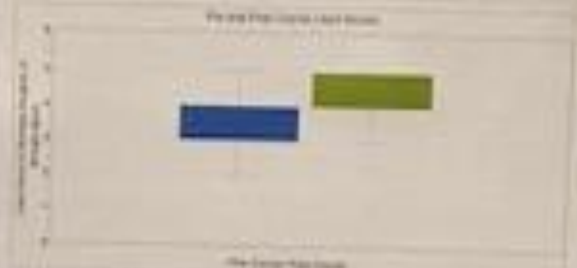
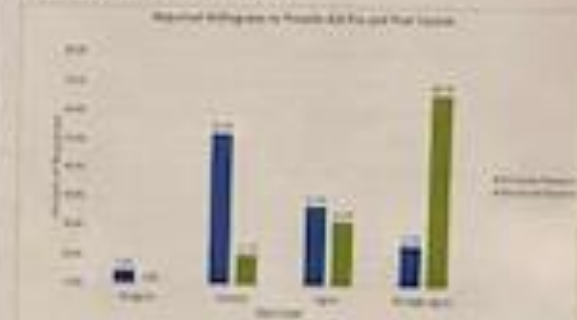
### OBJECTIVE

To assess the impact of a brief, community-based first aid training course on self-reported confidence, and willingness to assist at the scene.

Participants were older (N = 64, mean age = 58.5) and 36% were female. The 5-point confidence scale was used. The sample size was determined by a power analysis for non-inferiority and p-tests were used. Results were significant (p < .001).

### RESULTS

Willingness to provide aid significantly increased post-training (M = 4.56, SD = 0.67) compared to baseline (M = 3.48, SD = 0.77),  $t(70.6) = -3.77$ ,  $p < .001$ , with a large effect size ( $d = 1.49$ ). "Strongly agree" responses rose from 15% to 67% ( $p < .001$ ).



Improvements were observed across all five measured domains. Post-intervention responses closely aligned with those of the general public cohort, although this may reflect selection bias within the comparison group.

### CONCLUSIONS

A brief, community-delivered first aid course significantly improved rural participants' preparedness and willingness to act in emergencies. These findings support the scalability of low-barrier training models to address critical gaps in prehospital trauma response in underserved areas.

### FUTURE DIRECTIONS

Larger, more diverse samples are needed to reduce bias and improve generalizability. Tracking long-term impact and real-world outcomes will strengthen findings. Embedding training locally may support wider adoption.

### ACKNOWLEDGEMENTS

Special thanks to Ann Clancy-Kamona, RN, BSN, CCRC, Paramedic (UP Health System-Marquette) and Lyn Nelson (Michigan's Trauma Region 8 leadership) for their support and collaboration.

### REFERENCES

1. American Heart Association. (2019). Guidelines for cardiopulmonary bypass. *Circulation*, 140(1), 1-10.
2. American Heart Association. (2019). Guidelines for cardiopulmonary bypass. *Circulation*, 140(1), 1-10.
3. American Heart Association. (2019). Guidelines for cardiopulmonary bypass. *Circulation*, 140(1), 1-10.
4. American Heart Association. (2019). Guidelines for cardiopulmonary bypass. *Circulation*, 140(1), 1-10.
5. American Heart Association. (2019). Guidelines for cardiopulmonary bypass. *Circulation*, 140(1), 1-10.



- December 17, 1pm – Michigan Trauma Registry education. Invite sent by State Trauma Registrar. Please respond with availability.
- New regional application should be received by December RTAC meeting.



R8MCAN.ORG



# OLD BUSINESS

# RPSRO APPOINTMENTS

Dr. Sara Herrera - Level II TMD

Dr. Paula Rechner – Level IV TMD

Dr. Robert Covington - Level IV TMD

Dr. Andrew Ostosh – MCA MD

Dr. Amadeo Sturla – MCA MD

Cindy Gurchinoff - Level IV TPM

Jodi McCollum - Level II TPM

Sarah Niemela - Level III TPM

Matthew LaCrosse - MCA Coordinator

Curt LeSage - ALS provider

Cory Roell – BLS provider

Gina Kasten - BLS provider

Ryan Trudeau – Air Medical ALS provider

Terra Ison – Registrar

Andrew Flagstadt – ALS provider

## Met July 17

- reviewed inventories for 2024
- need for documentation improvement registry on delays
- discussed use of pelvic binders for pelvis versus hip
- Delta County iTclamp approval

# Medical Directors collaboration

By February 2024, the RTN shall continue its request of Region 8 MCAs and hospital trauma programs to document their medical directors' collaboration by report at their respective meetings and evidenced in their minutes.

By December 2025, the RTN shall encourage the MCAs to have active, minimally quarterly, meetings of their Professional Standards Review Organizations that include MCA medical directors' and trauma medical directors' input on reports that identify patients meeting trauma triage criteria, procedures rendered, hospital capabilities, and hospital outcomes.

# Medical Directors collaboration

By December 2024, the RTN will author a procedure template for MCAs and hospital trauma programs to adopt that formalizes the relationship between trauma medical directors and MCA medical directors and the content to which there should be collaboration, i.e., medical directors' and trauma medical directors' invited to provide input on MCA PSRO reports that involved trauma care.

# Broad medical community / general community

By April 2024, based upon survey findings during the last application cycle, the RTC shall assemble a toolkit or handbook that includes templates that hospital trauma programs can use to inform the broad medical community.

# Broad medical community / general community



## WHAT IS TRAUMA?

In the case of a trauma center, trauma refers to any injury to the body. The most common causes of injury that bring patients to a trauma center in the Upper Peninsula are falls, motor vehicle crashes, and other types of land transport crashes such as ORVs and snowmobiles. These events can cause mild to life-threatening trauma in multiple areas of the body.



# EMS protocol update

Effective August 18:

- Eastern

Effective September 24:

- Keweenaw Houghton

Effective October 1:

- Baraga
- Delta

Effective October 31:

- Luce
- Marquette Alger

Effective November 1:

- Schoolcraft

Awaiting word from:

- Dickinson
- Gogebic Ontonagon Iron

# EMS protocol update

## Minimally, these protocols:

Heat

Hypothermia

Head Injury

Bleeding control

Altered mental status

Seizures

Ped altered mental status

Ped seizures

12 lead ECG

Dead on scene

Electrical therapy

Double sequential defib

Patient restraint

Vascular access & IV fluid

Patient prioritization – lights & siren

Infection control & comm disease

Interfacility patient transfers

Dextrose

Fentanyl

Glucagon

Pediatric Imaging Poster

*Link in invite*

Regional Injury Prevention Plan update

*Injury prevention programming list*

# Injury Prevention Program List

Revision Date: 10/10/2025



NAME: Lyn L. Nelson

TITLE: Region 8 Trauma Coordinator



EMAIL: NelsonL7@michigan.gov

Multi-type list of injury prevention programs offered throughout the Upper Peninsula of Michigan



PHONE: (517) 285-3849

| County Served | Type    | Program Name       | Persons Served | Agency   | Contact Person       | Number       | Email                | Address                     | R8TN | Notes |
|---------------|---------|--------------------|----------------|----------|----------------------|--------------|----------------------|-----------------------------|------|-------|
| UP            | Fall    | Matter of Balance  | Seniors, Fall  | UPCAP    | Emilee Schwalbach    |              | schwalbach@upcap.org |                             |      |       |
| MI            | Safety  | Safe Kids Michigan | Peds, online   | Michigan | Laura Rowen          | 517-335-9519 | RowenL@michigan.gov  | 109 W MI Ave, Lansing 48908 |      |       |
| MI            | Boating | DNR Boating Safety | Public, online | Michigan | www.michigan.gov/dnr |              |                      |                             |      |       |
| MI            | ORV     | DNR ATV Safety     | Public, online | Michigan | www.michigan.gov/dnr |              |                      |                             |      |       |

Updates received from OSF St. Francis, UPHS Marquette, UPHS Portage.

# Injury Prevention planning

- By December 31, 2024, the RTAC will identify and address gaps in their regional injury prevention programs, update their regional injury prevention plan, and describe the current status in the Region's annual report.
- SP4: By December 31, 2024, each regional IP committee will identify and address gaps in their regional programs. IP plans will be updated. Progress on this objective will be reported on the Regional Trauma Coordinator's (RTC's) annual report.

# Injury Prevention planning

- SP6: By December 31, 2025, each regional IP committee will report on injury prevention outcome data for at least one implemented program. This will be recorded in the Region's Annual Report.

# Injury Prevention planning

- By April 2025, establish public information and education components for the top three external cause codes that include the months for hospital trauma programs to distribute the information.
- By April 2026, survey the hospital trauma programs on feedback they received from the messages and methods of distribution.
- By December 31, 2026, each region will promote evidence-informed injury prevention activities and/or projects as evidenced by the implementation of:
  - A regional annual community event to correlate with trauma awareness month.
  - Identify topics and talking points, though collaboration with existing resources and agencies, to increase public awareness that trauma is a preventable disease.
  - Level 1 and 2 trauma centers will provide leadership for Regional IP activities working in collaboration with the level III and IV.



# 2024 – 2025 Snowmobile Season R8 Trauma Analysis

Lyn L. Nelson,  
*State of Michigan Region 8 Trauma Coordinator*

# Emergency Department Spreadsheet vs Registry

| Hospital | ALL ED spreadsheet | Registry | % in Registry |
|----------|--------------------|----------|---------------|
| AIR      | 1                  | 0        | 0%            |
| AIW      | 52                 | 26       | 50%           |
| AKH      | 8                  | 2        | 25%           |
| BCMh     | 8                  | 4        | 50%           |
| HNJH     | 50                 | 12       | 24%           |
| MMCD     | 2                  | 0        | 0%            |
| *MMH     | 0                  | 10       |               |
| MMMCS    | 23                 | 7        | 30%           |
| SCMH     | 5                  | 2        | 40%           |
| UPHSM    | 44                 | 37       | 84%           |
| UPHSP    | 47                 | 14       | 30%           |
| UPHSB    | 4                  | 0        | 0%            |
| TOTAL    | 244                | 114      |               |

\*Munising Memorial Hospital did not submit spreadsheet

# 2024 - 2025 Incident County (spreadsheet)

| INCIDENT COUNTY |    |
|-----------------|----|
| Alger           | 26 |
| Alpena          | 1  |
| Baraga          | 10 |
| Canada          | 1  |
| Chippewa        | 23 |
| Dickinson       | 2  |
| Gogebic         | 8  |
| Houghton        | 42 |
| Iron- WI        | 4  |
| Keweenaw        | 7  |
| Luce            | 41 |
| Mackinac        | 3  |
| Marquette       | 7  |
| Ontonagon       | 3  |
| Schoolcraft     | 9  |
| Unknown         | 57 |

# 2024 - 2025 Details (spreadsheet)

| Method of Arrival |     |
|-------------------|-----|
| EMS               | 116 |
| Walk-In           | 128 |

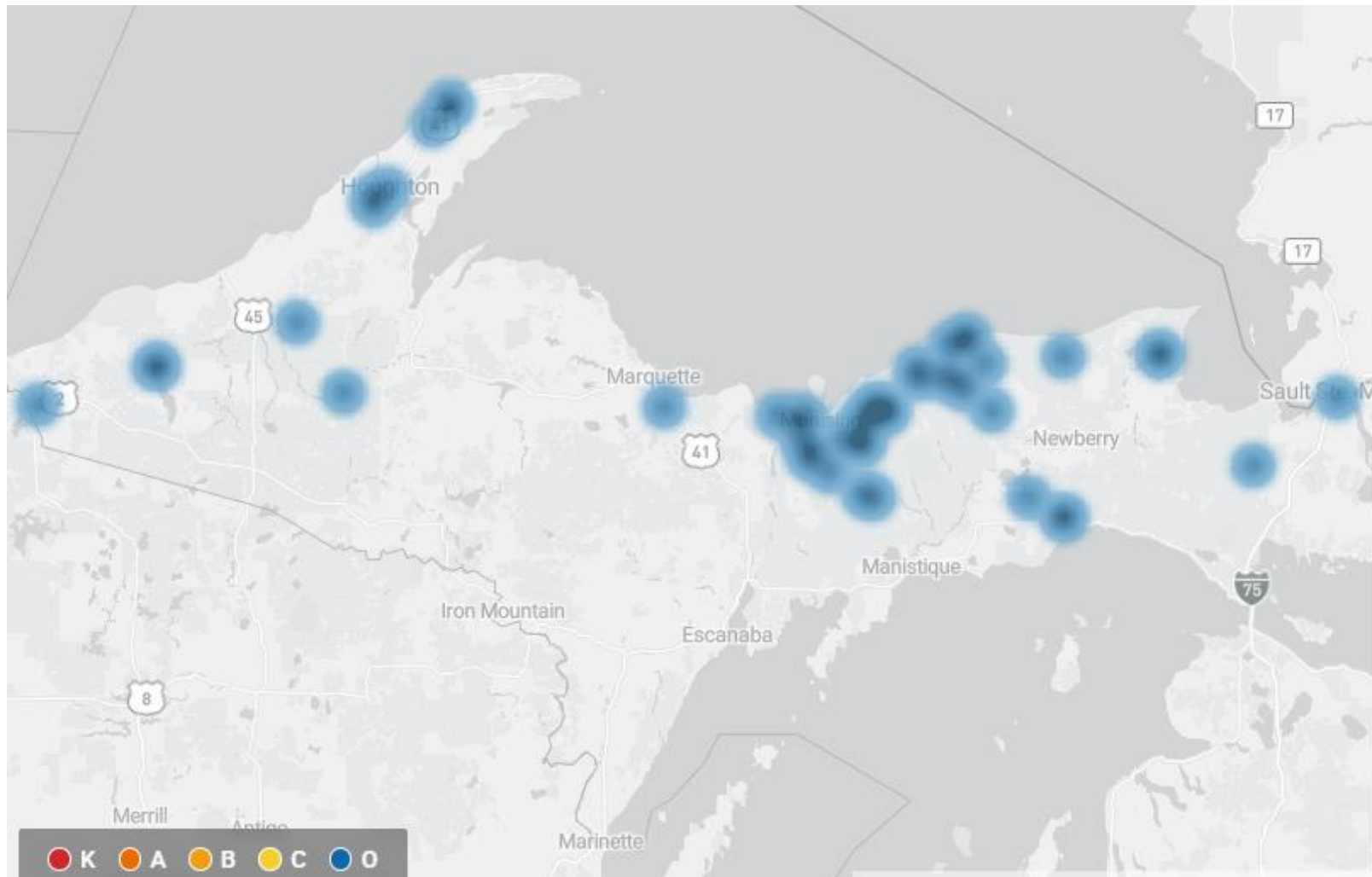
|        |     |
|--------|-----|
| Female | 49  |
| Male   | 195 |

# 2024 - 2025 Home State (spreadsheet)

| State/Province | Count | %    |
|----------------|-------|------|
| FL             | 5     | 2.0  |
| GA             | 1     | .4   |
| IA             | 6     | 2.5  |
| IL             | 20    | 8.2  |
| IN             | 7     | 2.9  |
| MI             | 108   | 44.3 |
| MN             | 24    | 9.8  |
| ND             | 1     | .4   |
| NJ             | 1     | .4   |
| NY             | 1     | .4   |
| OH             | 15    | 6.1  |
| Ontario        | 1     | .4   |
| PA             | 3     | 1.2  |
| SC             | 1     | .4   |
| TN             | 2     | .8   |
| VA             | 1     | .4   |
| WI             | 47    | 19.3 |
| Grand Total    | 244   |      |

2024 - 2025  
Within  
Michigan  
Residence  
(spreadsheet)

|                 |     |
|-----------------|-----|
| Lower Peninsula | 58  |
| EMS             | 32  |
| Walk-In         | 26  |
| Upper Peninsula | 50  |
| EMS             | 12  |
| Walk-In         | 38  |
| Grand Total     | 108 |



## UD-10 LE Reports

Numeric 10/4/2025; 8<sup>th</sup> District, 12/1/2024-3/31/2025

Drivers: 115 males, 36 females, 6 unknown

145 crashes

8 fatal

94 injury

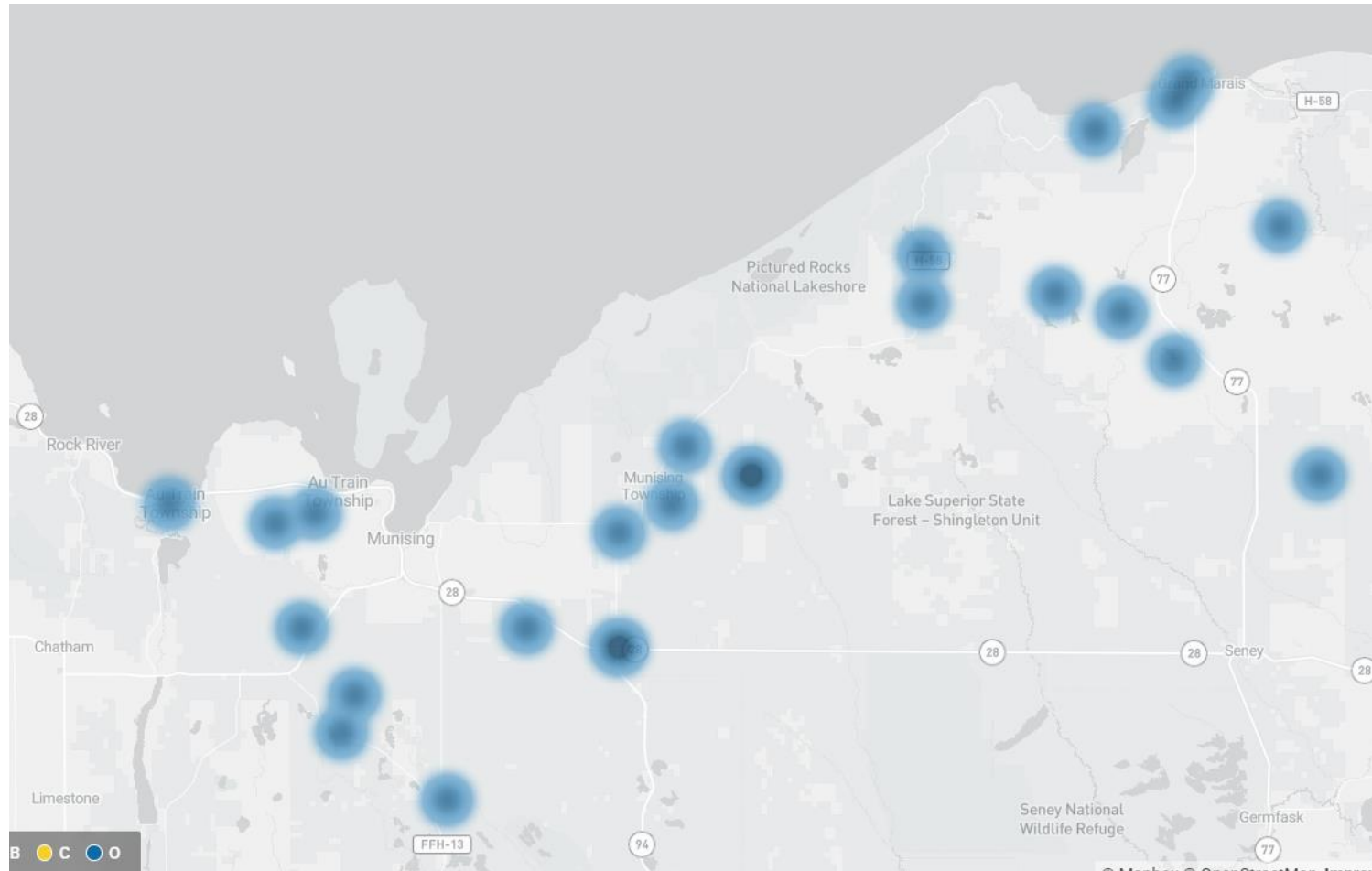
43 property damage



## UD-10 LE Reports Fatal and Severe Injuries

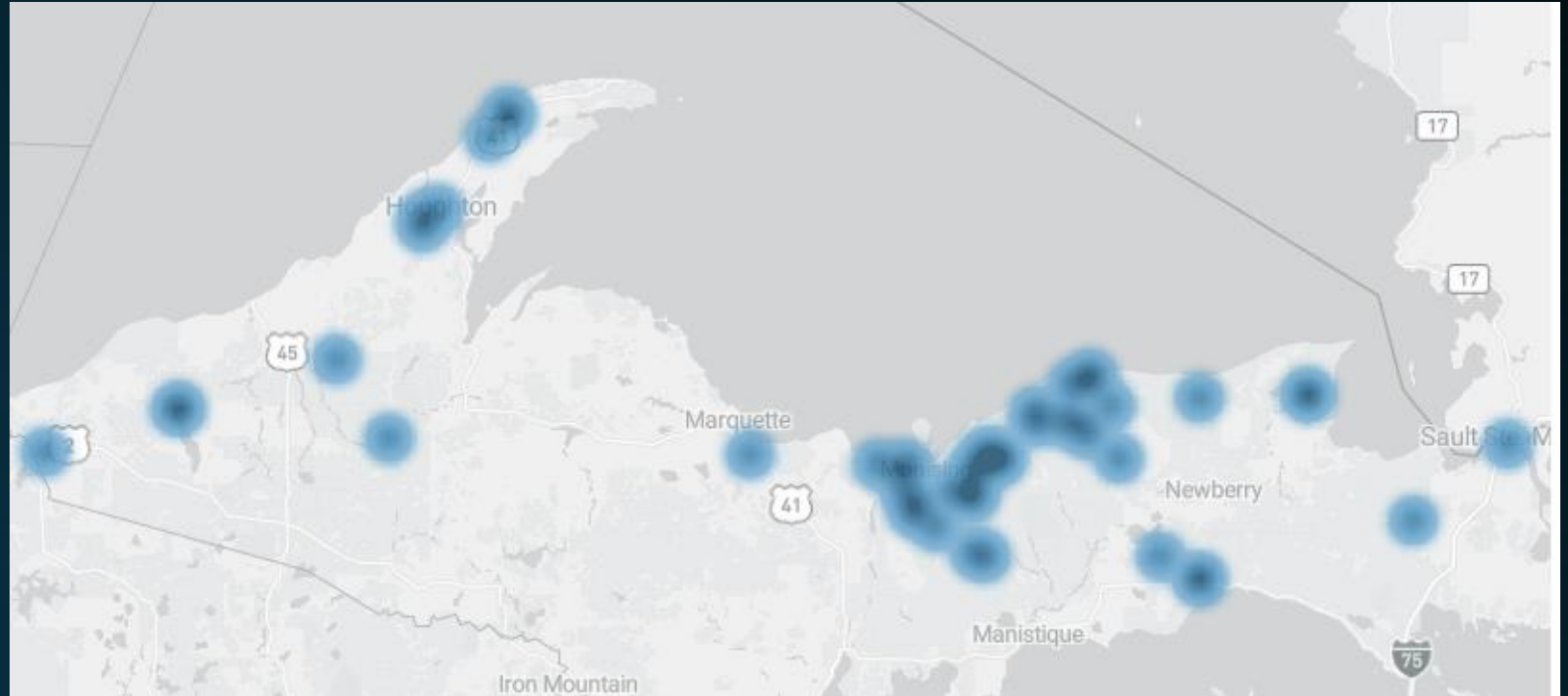
51 crashes

Driver: 40 males, 14 females, 1 unk  
6 involved alcohol; 1 involved drugs  
11 were  $\geq 60$  years old

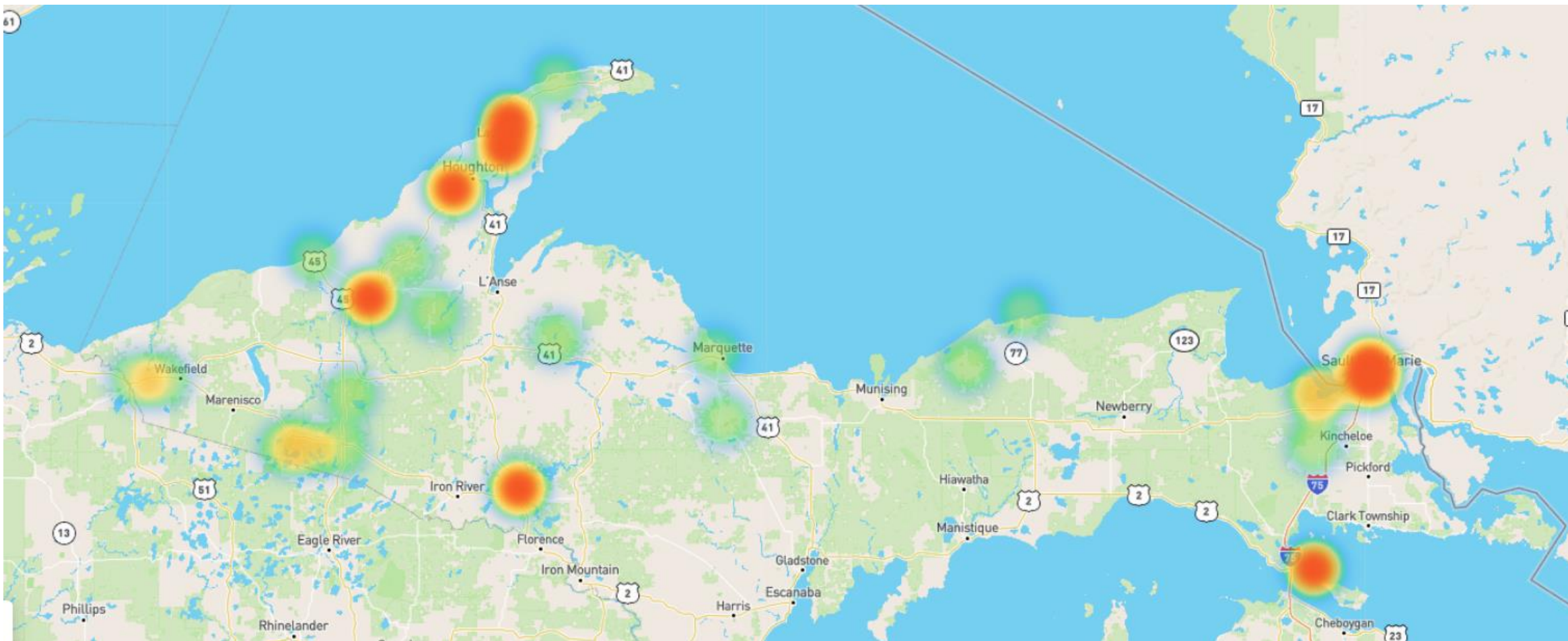


UD-10 LE Reports  
Concentrated area

| INCIDENT COUNTY |    |
|-----------------|----|
| Alger           | 26 |
| Alpena          | 1  |
| Baraga          | 10 |
| Canada          | 1  |
| Chippewa        | 23 |
| Dickinson       | 2  |
| Gogebic         | 8  |
| Houghton        | 42 |
| Iron- WI        | 4  |
| Keweenaw        | 7  |
| Luce            | 41 |
| Mackinac        | 3  |
| Marquette       | 7  |
| Ontonagon       | 3  |
| Schoolcraft     | 9  |
| Unknown         | 57 |



Patients reported to emergency department  
versus  
law enforcement crash reports



# EMS patient care reports

biospatial 10/4/2025; 15 UP counties, 12/1/2024 – 3/31/2025

# EMS patient care reports

|                       |           |                         |            |
|-----------------------|-----------|-------------------------|------------|
| <b>Alger (MI)</b>     | <b>40</b> | <b>Keweenaw (MI)</b>    | <b>5</b>   |
| Alger EMS             | 38        | Mercy EMS               | 5          |
| Guardian Flight       | 1         | <b>Luce (MI)</b>        | <b>11</b>  |
| Luce County           | 1         | Garfield Township       | 2          |
| <b>Baraga (MI)</b>    | <b>1</b>  | Luce County             | 9          |
| Michigamme-Spurr      | 1         | <b>Mackinac (MI)</b>    | <b>3</b>   |
| <b>Chippewa (MI)</b>  | <b>15</b> | Cheboygan Life Support  | 1          |
| Bay Mills             | 4         | Garfield Township       | 1          |
| Kinross EMS           | 1         | Portage Township        | 1          |
| Luce County           | 3         | <b>Marquette (MI)</b>   | <b>9</b>   |
| Sault Sainte Marie FD | 3         | Forsyth Township        | 1          |
| Whitefish Township    | 4         | Powell Township         | 1          |
| <b>Gogebic (MI)</b>   | <b>13</b> | UPHS East               | 4          |
| Aspirus Medevac       | 5         | UPHS West               | 2          |
| Beacon                | 7         | West End Townships      | 1          |
| Watersmeet VFD        | 1         | <b>Ontonagon (MI)</b>   | <b>25</b>  |
| <b>Houghton (MI)</b>  | <b>16</b> | Aspirus Medevac         | 2          |
| Adams Township VFD    | 4         | Bay                     | 1          |
| Aspirus Medevac       | 1         | Beacon                  | 6          |
| Bay                   | 4         | SONCO                   | 16         |
| Mercy EMS             | 6         | <b>Schoolcraft (MI)</b> | <b>5</b>   |
| SONCO                 | 1         | Alger EMS               | 2          |
| <b>Iron (MI)</b>      | <b>2</b>  | Manistique EMS          | 3          |
| Aspirus Medevac       | 2         |                         |            |
|                       |           | <b>Grand Total</b>      | <b>145</b> |

# **Within 2024-2025 Season Report Comparison**

244 emergency department

114 trauma registry

145 law enforcement crash reports

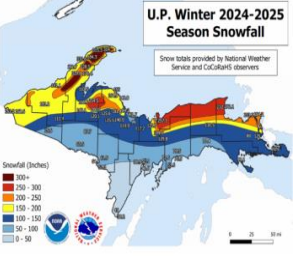
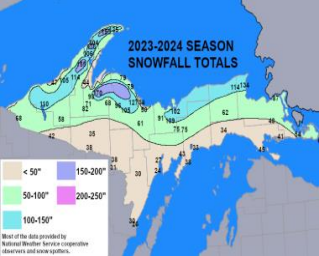
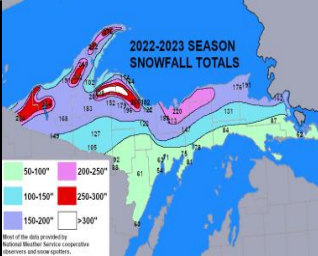
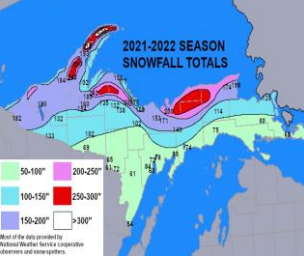
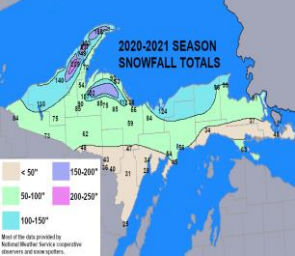
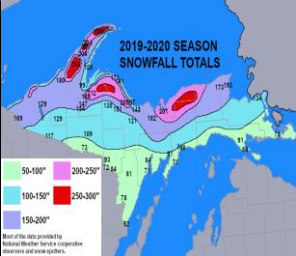
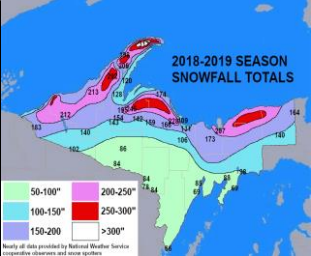
145 EMS patient care reports



# SEASON COMPARISONS

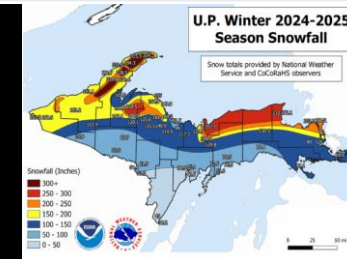
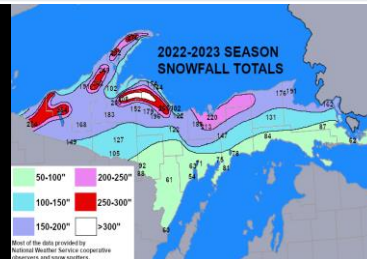
Extracted Pt Registry 10/02/2025; if pt went to multiple facilities they are duplicated, MI Region 8 only

| ICD-10<br>Snowmobile | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-2025 |
|----------------------|---------|---------|---------|---------|---------|---------|-----------|
| AIR                  | 0       | 4       | 3       | 5       | 1       | 1       | 0         |
| AIW                  | 20      | 15      | 7       | 27      | 22      | 3       | 26        |
| AKH                  | 5       | 0       | 11      | 11      | 5       | 2       | 2         |
| AOH                  | 10      | 5       | 2       | 9       | 12      | 0       | --        |
| BCMH                 | 2       | 5       | 3       | 2       | 2       | 0       | 4         |
| HNJH                 | 2       | 15      | 8       | 15      | 9       | 2       | 12        |
| MMCD                 | 1       | 7       | 1       | 0       | 4       | 1       | 0         |
| MMH                  | 3       | 3       | 2       | 0       | 6       | 1       | 10        |
| MMMCS                | 9       | 11      | 9       | 8       | 10      | 1       | 7         |
| OSF                  | 0       | 0       | 0       | 1       | 0       | 0       | 0         |
| SCMH                 | 2       | 0       | 2       | 6       | 3       | 1       | 2         |
| UPHSB                | 0       | 1       | 1       | 0       | 1       | 1       | 0         |
| UPHSM                | 34      | 39      | 30      | 26      | 28      | 3       | 37        |
| UPHSP                | 6       | 8       | 4       | 6       | 5       | 0       | 14        |
| TOTAL                | 114     | 113     | 83      | 116     | 108     | 16      | 114       |

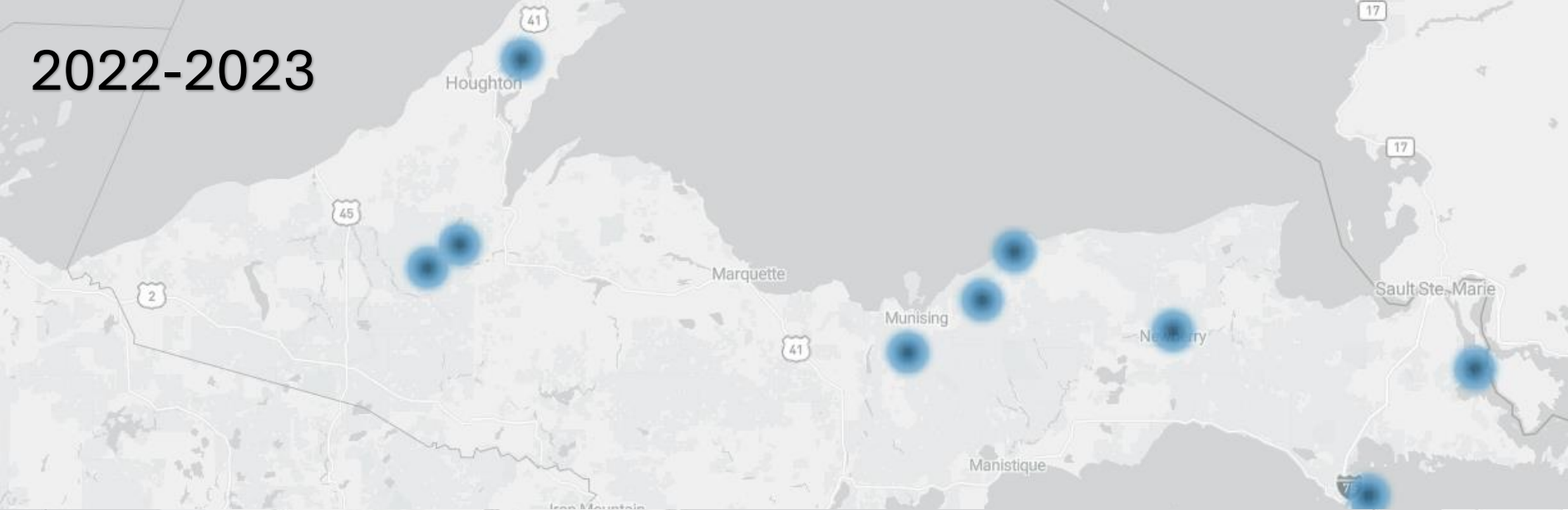


## Emergency Department spreadsheets of all injured patients involved in snowmobile crashes

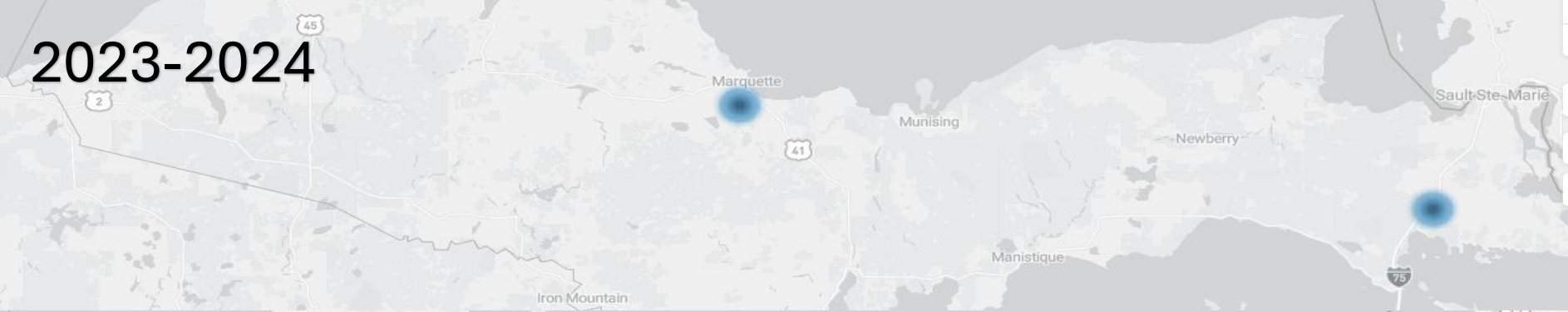
|              | 2022-23    | 2023-24   | 2024-2025  |
|--------------|------------|-----------|------------|
| AIR          | 10         | 1         | 1          |
| AIW          | 22         | 5         | 52         |
| AKH          | 9          | 2         | 8          |
| AOH          | 17         | 2         | --         |
| BCMh         | 4          | 0         | 8          |
| HNJH         | 34         | 4         | 50         |
| MMCD         | 9          | 0         | 2          |
| MMH          | --         | --        | --         |
| MMMCS        | 10         | 4         | 23         |
| OSF          | 0          | 0         | 0          |
| SCMH         | 8          | 0         | 5          |
| UPHSB        | 3          | 0         | 4          |
| UPHSM        | 42         | 2         | 44         |
| UPHSP        | 21         | 0         | 47         |
| <b>TOTAL</b> | <b>190</b> | <b>20</b> | <b>244</b> |



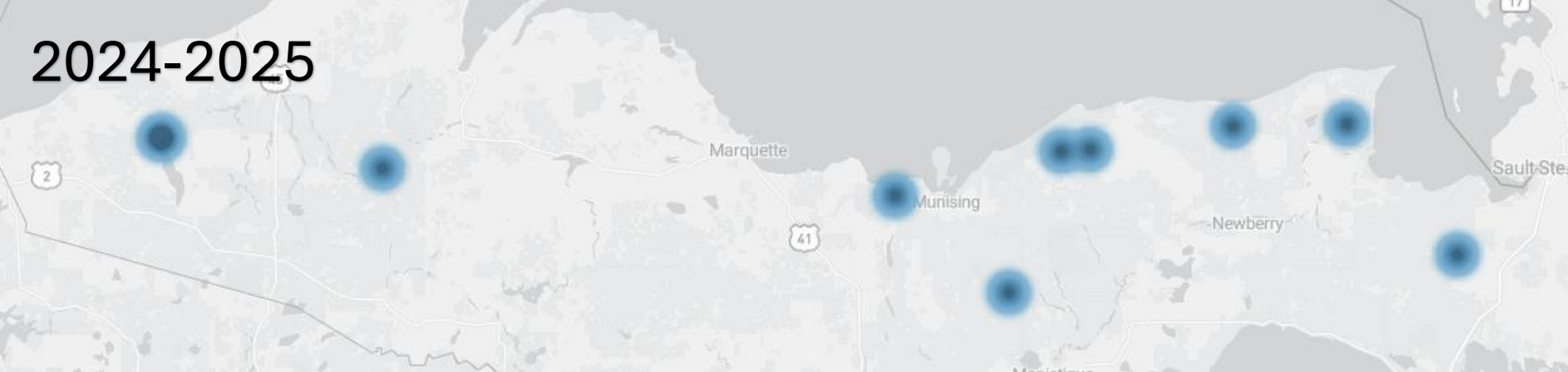
2022-2023



2023-2024



2024-2025



8<sup>th</sup> District  
UD-10 LE Reports  
Fatal and Severe Injuries  
Numeric, 10/6/2025

A close-up photograph of a pine branch heavily laden with snow. The pine needles are dark green and sharp, contrasting with the soft, white snow. The background is a blurred, snowy landscape, suggesting a winter setting. The word "COUNTERMEASURES" is overlaid in the center of the image in a white, bold, sans-serif font with a blue outline.

# COUNTERMEASURES

# RIDE RIGHT



**LEAD RIGHT**  
by riding to your  
newest rider's abilities.



MICHIGAN SNOWMOBILE & ORV ASSOCIATION  
**MISORVA**  
Building the trail network for tomorrow

[Michigan.gov/RideRight](http://Michigan.gov/RideRight)

# RIDE RIGHT

Ride at a safe speed.

Ride home to your family and friends.

[Michigan.gov/RideRight](https://Michigan.gov/RideRight)



MICHIGAN SNOWMOBILE & ORV ASSOCIATION  
**MISORVA**  
*Building the trail network for tomorrow*

Pump up your snowmobile safety.

- ✓ Ride at a safe speed
- ✓ Ride sober
- ✓ Keep right on trails

RIDE RIGHT   Ride home safe to your family and friends.

800.828.8762 #RideRight snowmobilia.com

Sale \$ 13.53  
Gallons 4.909

Step 1.  
Follow instructions on the display  
to select method of payment.

Step 2.

PLEASE  
PREFER

WARNING

ULTRA HARDWARE



and that can become dangerous  
in and of itself.



**NEW BUSINESS**

- Registry Data Quality Plan

*explanation provided in meeting attachment*

*ACS-COT requirements and State of Michigan*

# Pelvic binders from RPSRO

*statistical analysis*  
*trauma education*  
*studies*

|                                |    |
|--------------------------------|----|
| Fall height                    | 2  |
| Aspirus Medevac                | 2  |
| GSW                            | 1  |
| Masonville Township            | 1  |
| Hip                            | 20 |
| Alger County                   | 1  |
| Cheboygan Life Support Systems | 3  |
| Garfield Township              | 1  |
| Integrity Care EMS             | 7  |
| Iron Mountain (City Of) FD     | 2  |
| Kinross EMS                    | 2  |
| Luce County                    | 1  |
| Manistique EMS                 | 1  |
| Tri-Star EMS                   | 1  |
| Whitefish Township             | 1  |
| MVC                            | 14 |
| Aspirus Medevac                | 1  |
| Bay                            | 1  |
| Guardian Flight                | 3  |
| Integrity Care EMS             | 1  |
| Kinross EMS                    | 1  |
| North Flight                   | 1  |
| Rampart EMS                    | 6  |
| Pelvic fx fall                 | 1  |
| Rampart EMS                    | 1  |
| Stabilize J Tube               | 1  |
| Integrity Care EMS             | 1  |
| Trampled by cow                | 1  |
| Aspirus Medevac                | 1  |
| Grand Total                    | 40 |

# Prehospital Trauma Compendium: Evaluation and Management of Suspected Pelvis Fractures – An NAEMSP Position Statement and Resource Document

John W. Lyng  , Joshua G. Corsa , Brad D. Raetzke , Bryan R. Wilson , Andrew McCoy , Steve C. Patterson , ...show all

Received 19 May 2025, Accepted 19 Jul 2025, Accepted author version posted online: 29 Jul 2025, Published online: 11 Aug 2025

 Cite this article  <https://doi.org/10.1080/10903127.2025.2540420>



# Transfer delays

use of regional trauma transfer  
guide for benchmarks

completing delay fields in  
registry

## Region 8 Trauma Transfer Guidelines



### Goals of Care

- Do notify EMS early to facilitate timely transport
- Do communicate to destination Trauma Team if you need guidance
- Do not delay transfers for unnecessary studies

All trauma transfers are reviewed for optimal care and timely transport to destination. Feedback to facilities will include recommendations from trauma team and team debriefing. Both facilities are encouraged to discuss for ongoing improvement.

### EMERGENT TRANSFER (GOAL WITHIN 1 HOUR OF ARRIVAL)

- Systolic BP < 90mmHg
- Labile BP despite 1L of IV fluids or requiring blood products to maintain blood pressure
- GCS ≤ 8 or lateralizing signs
- Penetrating injuries to head, neck chest or abdomen
- Fracture / dislocation with loss of distal pulses and/or ischemia
- Pelvic ring disruption or unstable pelvic fracture
- Vascular injuries with active arterial bleeding

#### Treatment & Diagnostics following ATLS

- Airway interventions
- Portable Chest & Pelvis X-ray
  - \* Decompression/Chest Tube
  - \* Pelvic Binder
- FAST (if + w/SBP < 90, give blood)
- Fluid Resuscitation (if necessary)
  - \* Consider TXA, if bleeding susp
  - \* Blood Products
- Additional Studies *(ONLY if no transport delay)*
  - \* Head, C-Spine CT
  - \* Chest/Abd/Pelvis
- All further diagnostics and treatments facilitated with discussion of accepting trauma team

### URGENT TRANSFER (GOAL WITHIN 2 HRS OF ARRIVAL)

#### Physiologic

- Systolic BP ≤ 110mmHg may represent shock in patients > 60 yo

#### Neurologic

- Worsening GCS since initial presentation
- Spinal cord injury

#### Extremity Injuries

*(Antibiotics for open fractures!)*

- Amputated extremity proximal to wrist or ankle
- Open long bone fractures
- Two or more long bone fracture sites
- Crush injury

#### Thoracic & Abdominal Injuries

- Major chest wall injury:
  - Multiple rib fractures in a patient > 65 yo, pulmonary contusions, flail chest.
- Free air, fluid, solid organ injury noted on diagnostic testing

#### Burns

- Follow burn center criteria for transport to appropriate facility (michiganburn.org)

#### Special Considerations

- Adults > 60 yo
- Pediatric
- Pregnant
- Anticoagulant / Antiplatelet use
- Advance disease (cardiac, resp, diabetes, ESRD)

# CY2024-2025YTD

## Highest TTA, Transferred Delay Y / N; Reason

|                               |            |
|-------------------------------|------------|
| <b>No</b>                     | <b>53</b>  |
| (blank)                       | 53         |
| <b>Not Known/Not Recorded</b> | <b>2</b>   |
| (blank)                       | 2          |
| <b>Yes</b>                    | <b>64</b>  |
| EMS Issue                     | 21         |
| Not Applicable                | 1          |
| Not Known                     | 1          |
| Not Known/Not Recorded        | 19         |
| Other                         | 4          |
| Receiving Facility Issue      | 7          |
| Referring Hospital Issue-Rad  | 1          |
| Referring Phy Decision Making | 1          |
| Weather/Nature Factors        | 2          |
| (blank)                       | 7          |
| <b>(blank)</b>                | <b>16</b>  |
| (blank)                       | 16         |
| <b>Grand Total</b>            | <b>135</b> |

|                                    |           |
|------------------------------------|-----------|
| <b>Aspirus IR</b>                  | <b>2</b>  |
| <b>Yes</b>                         | <b>2</b>  |
| EMS Issue                          | 1         |
| Receiving Facility Issue           | 1         |
| <b>Aspirus IW</b>                  | <b>17</b> |
| <b>No</b>                          | <b>5</b>  |
| (blank)                            | 5         |
| <b>Not Known/Not Recorded</b>      | <b>1</b>  |
| (blank)                            | 1         |
| <b>Yes</b>                         | <b>11</b> |
| EMS Issue                          | 1         |
| Not Applicable                     | 1         |
| Not Known                          | 1         |
| Not Known/Not Recorded             | 7         |
| Other                              | 1         |
| <b>Aspirus K</b>                   | <b>3</b>  |
| <b>Yes</b>                         | <b>3</b>  |
| Not Known/Not Recorded             | 1         |
| Other                              | 2         |
| <b>Baraga</b>                      | <b>14</b> |
| <b>No</b>                          | <b>10</b> |
| (blank)                            | 10        |
| <b>(blank)</b>                     | <b>4</b>  |
| (blank)                            | 4         |
| <b>Helen Newberry Joy</b>          | <b>10</b> |
| <b>Yes</b>                         | <b>10</b> |
| EMS Issue                          | 5         |
| Other                              | 1         |
| Receiving Facility Issue           | 4         |
| <b>Marshfield Dickinson</b>        | <b>28</b> |
| <b>No</b>                          | <b>9</b>  |
| (blank)                            | 9         |
| <b>Yes</b>                         | <b>17</b> |
| EMS Issue                          | 9         |
| Referring Hospital Issue-Radiology | 1         |
| (blank)                            | 7         |
| <b>(blank)</b>                     | <b>2</b>  |
| (blank)                            | 2         |

|                                     |            |
|-------------------------------------|------------|
| <b>MyMichigan Sault</b>             | <b>16</b>  |
| <b>No</b>                           | <b>13</b>  |
| (blank)                             | 13         |
| <b>Yes</b>                          | <b>3</b>   |
| EMS Issue                           | 2          |
| Weather or Nature Factors Issue     | 1          |
| <b>OSF</b>                          | <b>26</b>  |
| <b>No</b>                           | <b>10</b>  |
| (blank)                             | 10         |
| <b>Yes</b>                          | <b>16</b>  |
| EMS Issue                           | 3          |
| Not Known/Not Recorded              | 10         |
| Receiving Facility Issue            | 2          |
| Referring Physician Decision Making | 1          |
| <b>Schoolcraft</b>                  | <b>8</b>   |
| <b>No</b>                           | <b>6</b>   |
| (blank)                             | 6          |
| <b>Not Known/Not Recorded</b>       | <b>1</b>   |
| (blank)                             | 1          |
| <b>Yes</b>                          | <b>1</b>   |
| Weather or Nature Factors Issue     | 1          |
| <b>UPHS B</b>                       | <b>1</b>   |
| <b>Yes</b>                          | <b>1</b>   |
| Not Known/Not Recorded              | 1          |
| <b>UPHS M</b>                       | <b>7</b>   |
| <b>(blank)</b>                      | <b>7</b>   |
| (blank)                             | 7          |
| <b>UPHS P</b>                       | <b>3</b>   |
| <b>(blank)</b>                      | <b>3</b>   |
| (blank)                             | 3          |
| <b>Grand Total</b>                  | <b>135</b> |

# 2026

January

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

February

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |

March

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

April

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |    |    |

May

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

June

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 |    |    |    |    |

July

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

August

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

September

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 |    |    |    |

October

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

November

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |    |    |    |    |    |

December

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

# REPORTS

- Injury Prevention
- Communications
- Infrastructure
- Regional PI
- Continuum of Care
- Education
  - Chest tubes

# Chest tube education

**NO PIG TAILS**

Member announcements  
Public Comment  
Adjournment

NelsonL7@michigan.gov

R8MCAN.org

 R8TRAUMA