



Trauma – System of Care EMS Trends

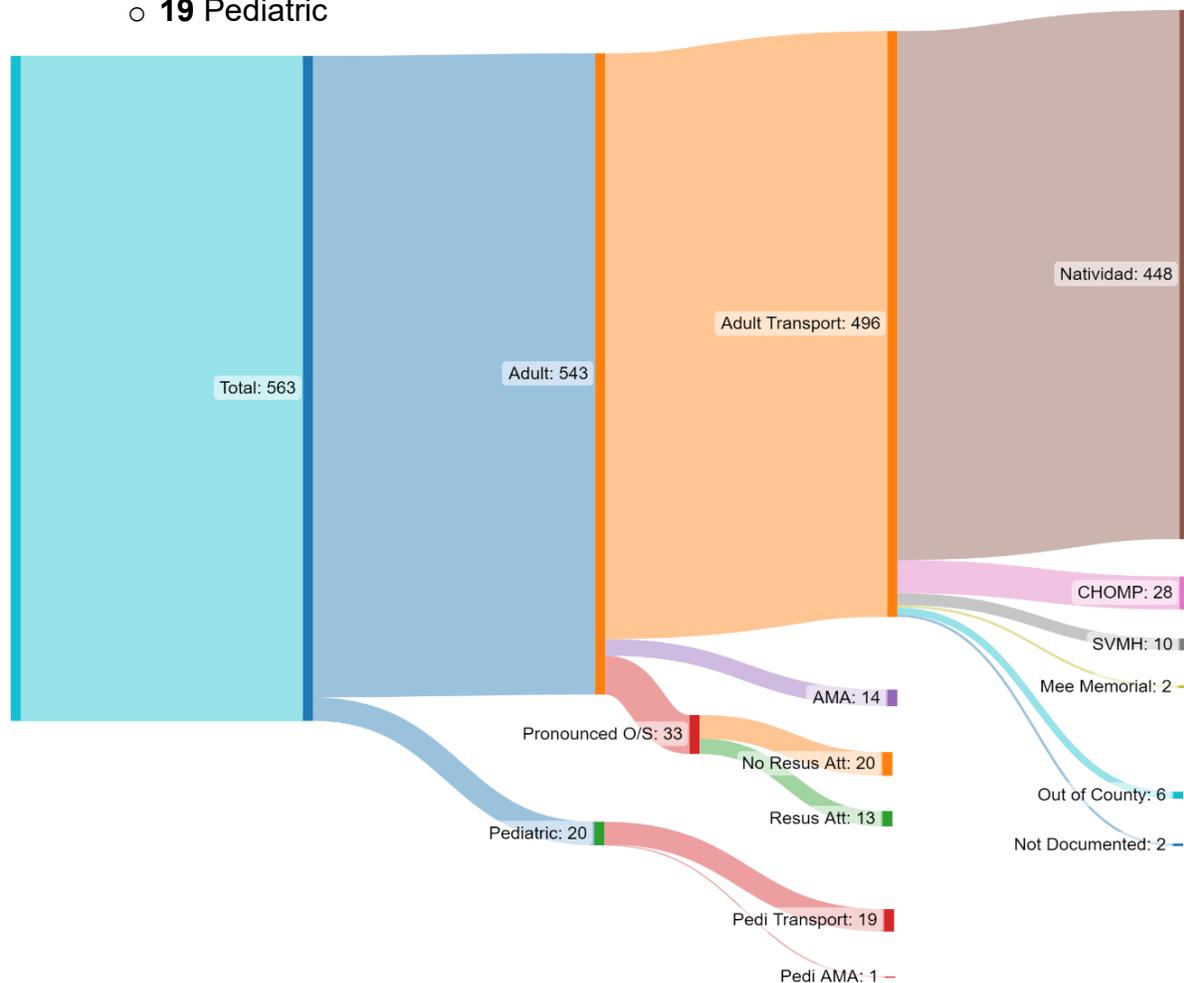


Below are 2022 local trauma system of care EMS trends that were discussed at the March Trauma Evaluation and Quality Improvement Committee (TEQIC) meeting. These trends are largely based on countywide PCR data and unusual occurrence (U/O) submissions.

For context, in June of 2022, the Monterey County EMS Agency removed uncontrolled hemorrhage as a potential reason to transport to the closest Emergency Department (ED). Uncontrolled hemorrhage due to trauma is best managed at a Trauma Center.

When providers are considering transporting a patient to a different facility than what is directed by the Field Trauma Triage Decision Algorithm, Base Hospital Contact with Natividad must occur.

- In 2022, **563** patients met local Step 1, 2 and/or 3 [Trauma Triage Criteria](#)
 - **543** Adults
 - **20** Pediatric
- This resulted in **515** patients transports
 - **496** Adults
 - **19** Pediatric



Destinations and Documentation Trends

The trauma patients identified above who met Step 1, 2 and/or 3 Trauma Triage Criteria are **based on the documentation of CDC Trauma Triage Criteria within ESO**. It's imperative that EMS field providers understand the importance and accuracy of this data field. This information is a part of the California Emergency Medical Services Information System (CEMSIS) data and is reported to the State EMS Authority (EMSA) annually.

Documentation Matters! Below is a list of a few destinations that came directly from our EMS PCR data. **It's important for field providers to document the 'final destination' for these incidents and not solely the LZ location.**

This data set is a part of the CEMSI Core Measures (T-2) and is viewed at a Regional, State & Federal level. By accurately documenting Core Measures, EMS providers are able to demonstrate quality and competent prehospital care.

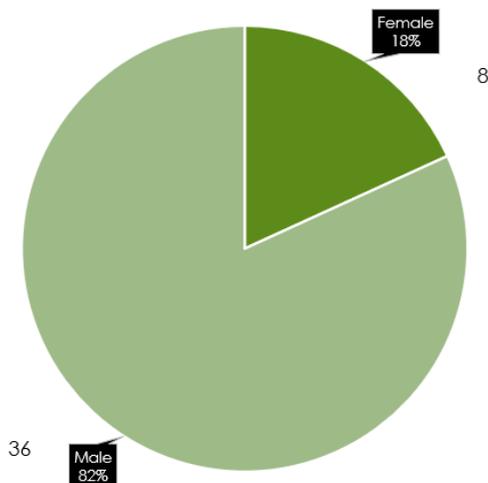
EMS providers are required to utilize the 'Trauma Form' within ESO.

Aromas School
 Arroyo seco road
 Cal Start
 Community Hospital of the Monterey Peninsula
 George L. Mee Memorial Hospital
 Landing zone
 LZ
 marina airport
 Natividad Medical Center
 Other list in Narrative
 Rocky Point Restaraunt LZ
 Salinas Valley Memorial Hospital
 Santa Clara Valley Medical Center
 Schoonover LZ
 Stanford Health Care

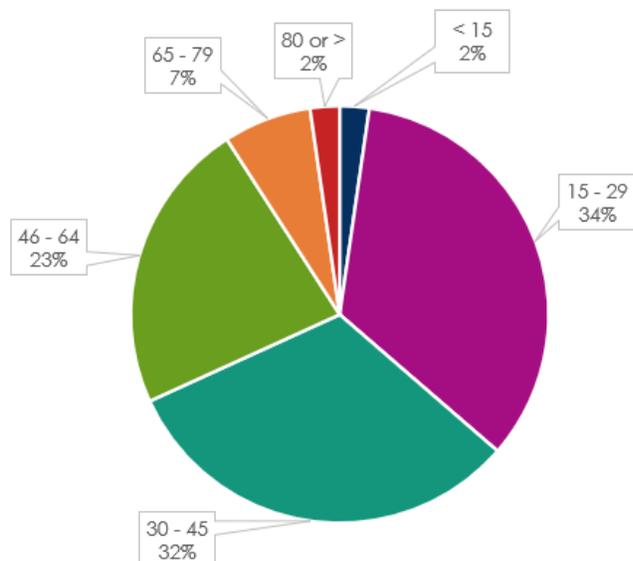
Traumatic Arrest:

- ✓ **Cardiac medications are not indicated during arrests with trauma etiology.** The EMS Agency intends to clarify EMS system [Protocol T-5 'Traumatic Cardiac Arrest'](#) to better reflect this direction.
- ✓ Consider and aggressively treat root cause(s) of arrest (e.g., fluid management, needle decompression, warming measures, etc.).
- ✓ **Minimize scene times and expedite transport to definitive care.**
- ✓ In the rare instance where a medical cardiac arrest leads to traumatic injury, providers should follow the appropriate cardiac protocol(s) (i.e., C-1 and C-2) and expedite transport to a Trauma Center if transportation is indicated.

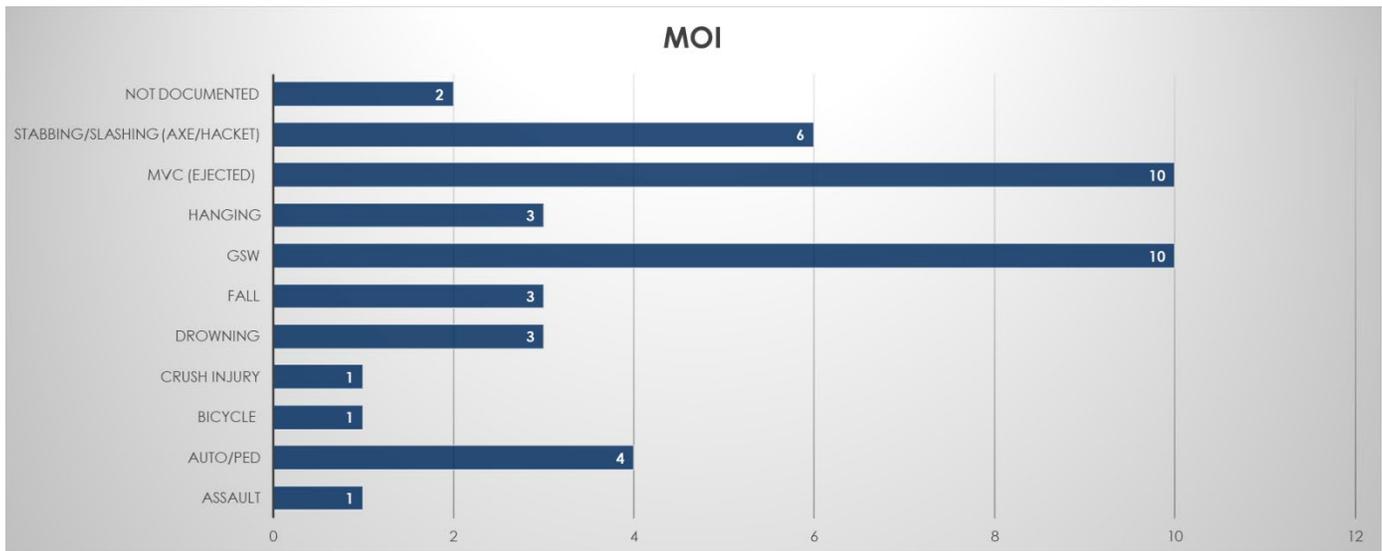
Traumatic Cardiac Arrest by Gender



Traumatic Cardiac Arrest by Age



Traumatic Cardiac Arrest by Mechanism of Injury



BASE HOSPITAL CONTACT:

For patients meeting Step 1-3 Trauma Triage Criteria, contact Natividad. Base Hospital Contact may be made to Natividad for any questions for adult and pediatric patients meeting Step 4 trauma triage criteria, or for any patients who do not meet Trauma Triage Criteria, but whom the paramedic feels may benefit from a Trauma Center.

TRANEXAMIC ACID (TXA) ADMINISTRATION:

In 2022, 7 patients received TXA (6 males / 1 female).

The primary injury category documented included:

- 5 Traffic Collisions (TCs) – 72%
- 1 Firearm – 14%
- 1 Dog Bite – 14%



On the horizon...

2023 TRAUMA SYSTEM OF CARE AREAS OF FOCUS:

This year, we intend to focus on overall **SCENE TIMES**, the management of **TRAUMATIC CARDIAC ARREST**, **TXA** missed opportunities and gaining a better understanding of our **PEDIATRIC & GERIATRIC TRAUMA POPULATION**.

Improving survival and recovery of victims of traumatic injury requires a robust trauma system of care. Monterey County trauma victims depend on us for a coordinated trauma emergency response.

Thank you for your individual and coordinated efforts as you play a critical role in ensuring the health and wellness of Monterey County residents and visitors. The County's system of EMS Dispatch and pre-arrival instructions, EMS field triage, rapid transport to a Trauma Center, and care by a dedicated and specially-trained trauma team has resulted in lives saved and a reduction in disabilities associated with traumatic injuries.