Post Crash Care: The EMS Response to Traffic-Related Events

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July 12, 2023



Objectives

- Overview of EMS post-crash care
- EMS data descriptions of motor vehicle crashes
- How to access EMS data through State EMS Offices and the NEMSIS Technical Assistance Center
- Injury vs Fatality data to assess post-crash care
- Review of available MVC reports, research, and publications using NEMSIS data



National Roadway Safety Strategy

The National Roadway Safety Strategy (NRSS) focuses on five key objectives:

- 1. Safer People.
- 2. Safer Roads.
- 3. Safer Vehicles.
- 4. Safer Speeds.
- 5. Post-Crash Care.

National Roadway Safety Strategy

United States Department of Transportation | January 2022





Between 2011-2020, over **370,000** people died in transportation incidents in the U.S. More than **94%** of them died on our roads.

https://www.transportation.gov/NRSS

National Roadway Safety Strategy

United States Department of Transportation | January 2022



U.S. DOT is committed to...make advances in survivability through the delivery of equitable and impartial post-crash care, including EMS and 911.





POST-CRASH CARE &

Provide

Expedient Access
to Emergency
Medical Care



NHTSA Office of EMS

Improving patient care and field clinician safety in the out-of-hospital setting by:

- 1. Bringing together available data and industry experts to identify the most critical issues facing the profession,
- 2. Tackling those issues through collaboration with partners, including other federal agencies and leading associations, and
- 3. Providing awareness and education about best practices and evidence-based guidelines.





NHTSA's Office of Emergency Medical Services Mission



Reduce death & disability on our roadways



Provide leadership & coordination to EMS & 911 communities



Assess, plan, develop, & promote comprehensive, evidence-based EMS & 911 systems



Key DOT Post-Crash Care Actions in NRSS



Improve the delivery of EMS throughout the nation



 Improve the availability and quality of national EMS data



 Improve EMS personnel on-scene safety through outreach and training



Our Message to Highway Safety

Appropriately resourced and well-designed EMS and 911 systems are essential to treating serious crash injuries & preventing them from becoming fatal



National EMS Advisory Council Post-Crash Care Letter Excerpts



- Encourage Emergency Medical
 Dispatch (EMD) adoption so all
 911 calls receive evidence-based
 pre-arrival instructions
- Support NEMSIS adoption and data linkage

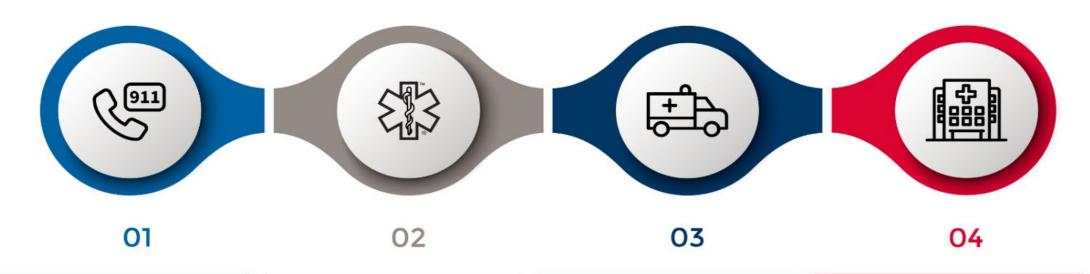
 Encourage statewide adoption of National Trauma Field Triage Guidelines and National EMS Model Clinical Guidelines

Learn More





Seamless Care Transitions Improve Patient Outcomes



911, Emergency Medical Dispatch, & Bystander Care

Timely On-Scene Care

Triage & Transport

Definitive Care at a Trauma Center



Emergency & Trauma Care Saves Lives



WERE ALIVE WHEN FIRST RESPONDERS ARRIVED, BUT LATER DIED



40%

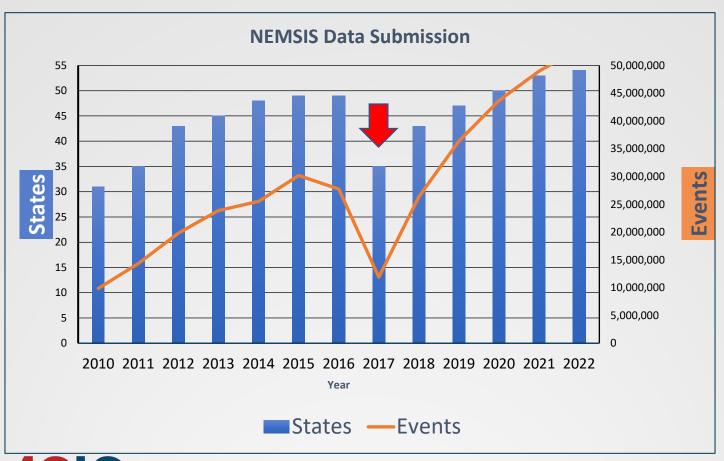
The National EMS Information System

The National EMS Information System provides standardized EMS documentation and data collection practices to facilitate the sharing of EMS data with local, state and national organizations.

COLLECT – CLEAN – STORE – SHARE

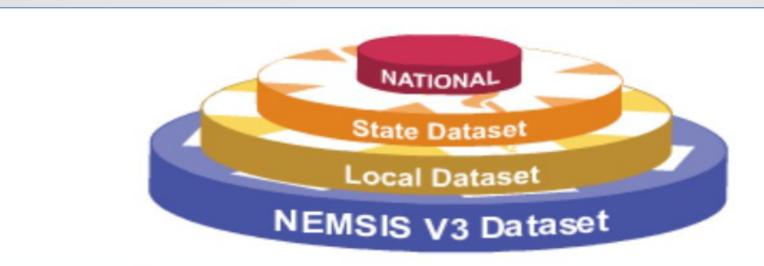


State Participation and Submissions



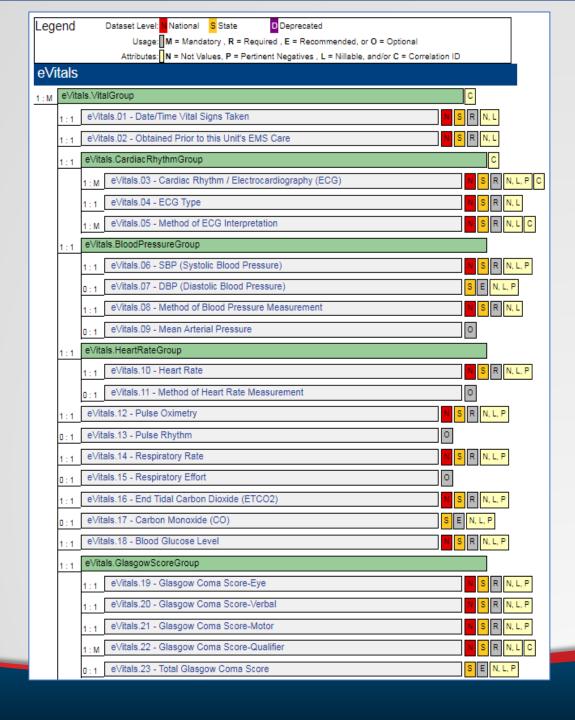


National EMS Data Standard



NEMSIS V3 Dataset	The total NEMSIS Version 3 Dataset – standardized and uniform.
Local Dataset	Local agencies select elements according to their needs, keeping the national AND state elements as part of their selection.
State Dataset	States select elements from the NEMSIS Dataset according to their needs, keeping the national elements as part of their selection.
National Dataset	A subset of base elements identified to accurately describe an EMS event.

The National elements are transmitted to the NEMSIS Technical Assistance Center (TAC) to populate the National EMS Dataset.



Structure of the Data Standard



DATASET LEVEL: STATE

USAGE: M, R, E, O

ATTRIBUTES: P, L, C



1.4M

CRASHES^{1, 2}



DISPATCHED BY THE NATION'S 5,400 PSAPs



164,978
SEVERLY INJURED PEOPLE²

TREATED BY THE NATION'S 12,000 EMS AGENCIES

Post-Crash Care is our last opportunity to prevent morbidity and mortality on the nation's roadways



TIMELY ON-SCENE CARE SAVES LIVES

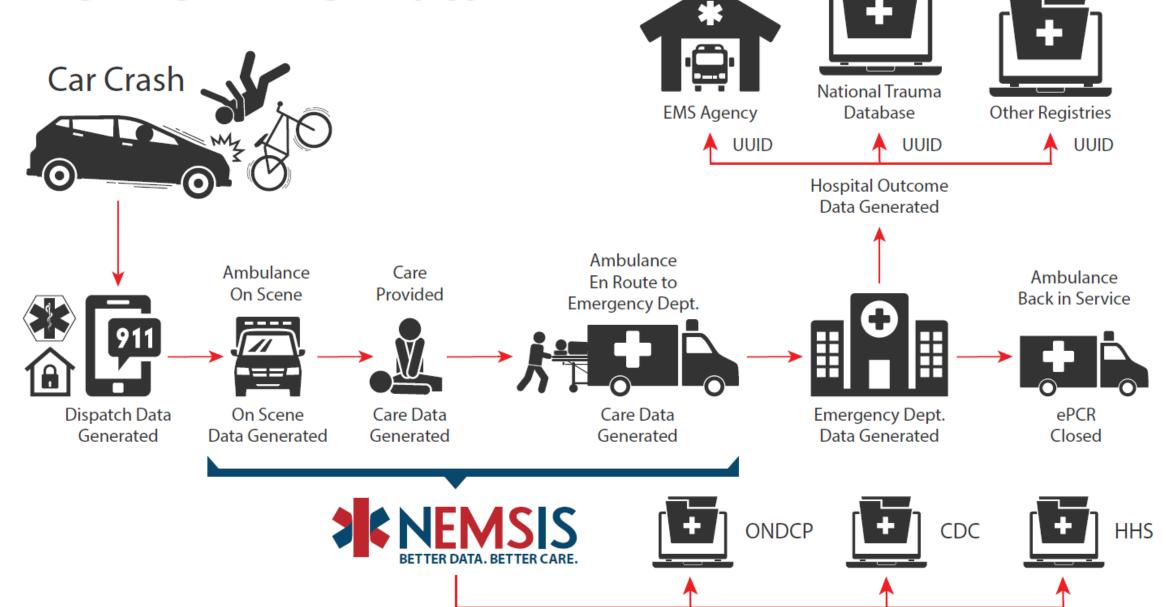


LONGER RESPONSE TIMES WERE SIGNIFICANTLY ASSOCIATED WITH HIGHER RATES OF CRASH MORTALITY (≥ 12 MIN VS. < 7MIN)



ata The

Flow of EMS Data

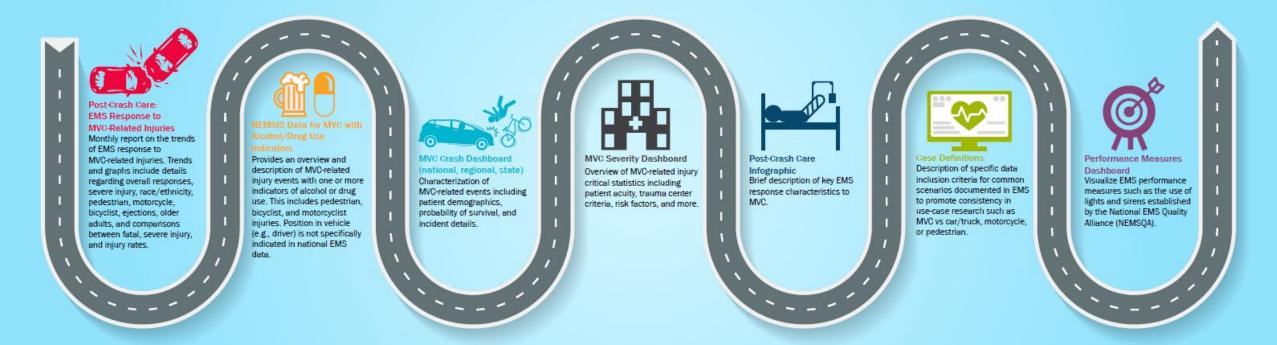


Overview of EMS Post Crash Care and the NEMSIS Role



Post-Crash Care Suite of Resources

Post-Crash Care was established as a key objective in the 2022 National Roadway Safety Strategy. The resources highlighted help to inform a more complete picture of the characteristics of EMS response.





The National Emergency Medical Services Information System (NEMSIS) Technical Assistant Center (TAC), in collaboration with NHTSA's Office of EMS, has developed resources for understanding the scope and quantifying the impact of motor vehicle crash-related (MVC) injuries which generate an EMS response on both a state and national level. These resources utilize EMS response data documented in the field by EMS clinicians when responding to an MVC event.

General Grant Application Information

- Ready to use descriptions
- Language to describe data priorities
- Content for supporting evidence-based claims
- Other data sources
- Visualization resources





General Grant Application Information

February 9, 2023

N. Clay Mann - NEMSIS Principal Investigator Julianne Ehlers - NEMSIS Program Director Lauri Lunde - NEMSIS State Support Specialist

This information is for Emergency Medical Services (EMS) Officials who are interested in learning more about possible opportunities for support through the new <u>Bipartisan Infrastructure Law</u> (BIL), Section 402 Highway Safety Programs, Section 405 National Priority Safety Programs, the Safe Streets and Road for All (SS4A) Grant Program, or other public funding opportunities.

Most notably, the BIL is expected to provide an increase of approximately 50% in original funding availability for vehicle and highway safety. This includes "improving the compatibility and interoperability of the core highway safety databases of the State with national data systems and data systems of other States, including the National EMS Information System." (BIL, US Public Law 117-58-NOV. 15, 2021, 135 STAT. 797, Section 4C)

Also of note, the U.S. Department of Transportation's (DOT) 2022 National Roadway Safety Strategy (NRSS) emphasizes a safe systems approach that identifies post-crash care as one of five key objectives in creating a transportation system safe for all people. The NRSS identifies several key DOT actions to enable safer post-crash care including "Expand the use of and support for the National EMS Information System- the national database that is used to store EMS data from the U.S. States and Territories- by funding applied research and data quality improvements." (NRSS,

The following provides information to inform EMS officials in considering applying for funding specifically to implement the new NEMSIS v3.5 data standard. This information may help justify and quantify the time and expense of this transition. Also provided are additional ideas for projects and proposals that may be appropriate for support under the funding opportunities.

hide contact and transportation-related events are emphasized in this document to help

Post-Crash Care Facts



200 Million

Over 5,300 public safety answering points answer 200 million requests for emergency assistance annually¹



Deaths rates increase by 3% for every minute first responders are delayed³



EMS agencies responded to 1,436,763 motor vehicle crashes in 2021²





patients were severely injured in motor vehicle crashes in 2021²







- 1 National Highway Traffic Safety Administration (NHTSA) National 911 Progres Report: 2020 Data
- Response Time and Motor Vehicle Crash Mortality in the United States
- 4 https://doi.org/10.1001/jamasurg.2018.5097 NHTSA Fatality Analysis Reporting System (FARS





CONTACT INFO



Post-Crash Care Facts

2 out of 5

crash victims were alive when first responders arrived, but later died⁴





10%



For every crash death, there are another 10% who suffer a severe or debilitating injury²



3%

First responders only learn 3% of crash victim outcomes²













SOURCES

- 1 National Highway Traffic Safety Administration (NHTSA) National 911 Progress Report: 2020 Data
- 2 NEMSIS Severe Injury Criteria: Probability of Survival Score, Final Acuity, or
- 3 James Byrne, MD, PhD, Association Between Emergency Medical Service
- 4 https://doi.org/10.1001/jamasurg.2018.5097 NHTSA Fatality Analysis Reporting System (FARS

Trend of Motor-Vehicle Crashes Regardless of Injury: 2016-2023

MVC Rate:

All activations with a motor-vehicle crash related injury over all 911 activations with patient contact.*

"Patient" refers to the person involved in the MVC that EMS encounters when dispatched to a crash. Not all patients sustain injuries in an MVC.

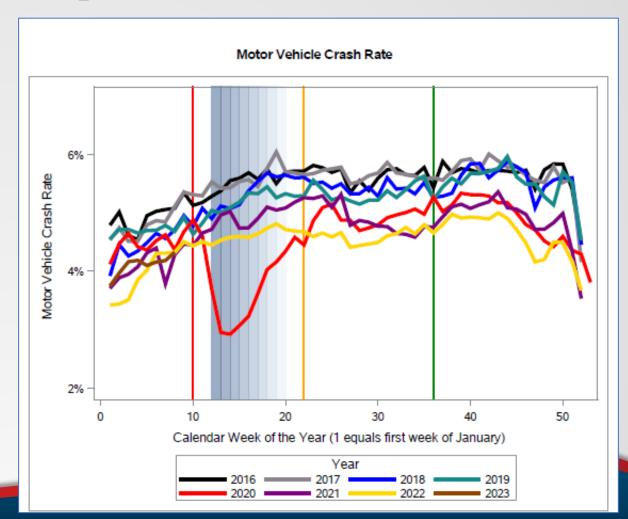
Date Lines

Orange: 2020 CDC reports COVID community spread (week 10) **Blue gradient:** 2020 States begin initiating Stay-at-Home

orders phasing out in Week 19 (weeks 12-19)

Yellow: Memorial Day (week 22) Green: Labor Day (week 36)

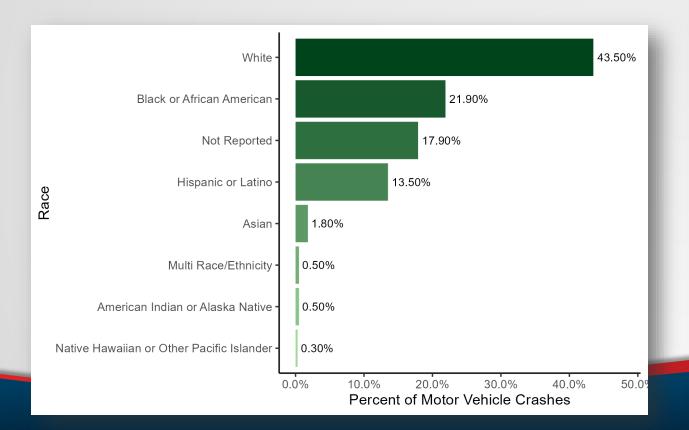






MVC Patient Demographics

- Date Range: Aggregated for 2018 2023.
- Includes all types of MVC-related injuries.
- Race is entered into the patient care report (ePCR) by the clinician in the field. They can select as many descriptors
 as needed.
- Click here to access the <u>Public Motor Vehicle Crash Dashboard</u>.



Age Range	Female	Male
0-4 Years	0.20%	0.20%
5-9 Years	0.00%	0.00%
10-14 Years	3.30%	3.40%
15-19 Years	5.10%	4.70%
20-24 Years	6.20%	6.00%
25-29 Years	5.30%	5.50%
30-34 Years	4.50%	4.90%
35-39 Years	3.80%	4.10%
40-44 Years	3.30%	3.50%
45-49 Years	3.10%	3.20%
50-54 Years	3.10%	3.30%

55-59 Years	3.00%	3.30%
60-64 Years	2.50%	2.70%
65-69 Years	1.90%	1.90%
70-74 Years	1.50%	1.40%
75-79 Years	1.00%	0.90%
80-84 Years	0.60%	0.60%
85-89 Years	0.30%	0.30%
90-94 Years	0.10%	0.10%
95-99 Years	0.00%	0.00%
100+ Years	0.00%	0.00%
Unknown	0.20%	0.20%

MVC Severely Injured Patients

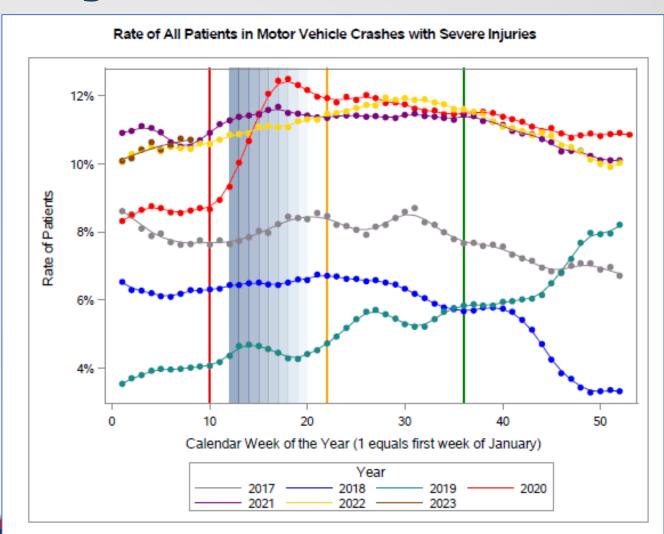
- "Severe injuries" are assessed using measures for patient acuity, trauma team activation (pre-alert), and probability of survival (POS).*
- Severe injuries increased with the onset of the COVID-19 pandemic.

Some trends have a LOESS (locally estimated scatterplot smoothing) curve applied to a 5 week moving average.

EMS trends that are more infrequent are illustrated using this process as it smooths the "sawtooth" impact of fewer or sporadic activations helping to better communicate the trend of activations.

Each dot is the weekly data point.





How Often are Pedestrians Injured in an MVC?

MVC vs. pedestrian injuries are identified by the cause(s) of injury entered into the electronic patient care report (ePCR) by the EMS field clinician which include ICD-10-CM Codes V00-V09: Pedestrian injured in transport accident.

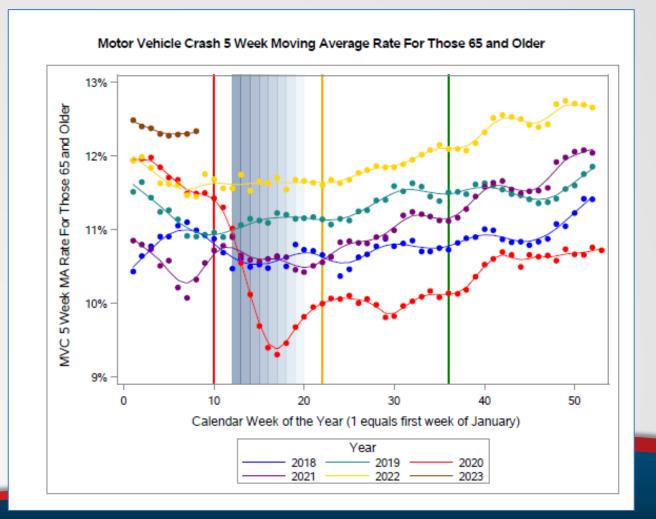




How Often are Older Adults Injured in an MVC?

Trend lines represent patients 65 years and older who sustained an MVC-related injury.

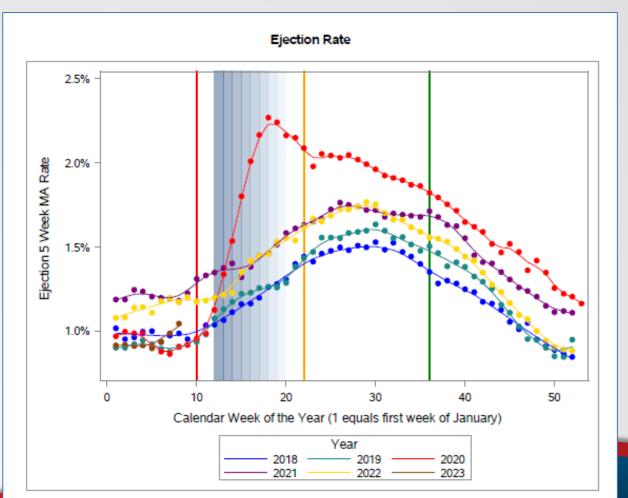




How Often are Patients Ejected From the Vehicle During an MVC?

- The rate represented are patients with an injury risk factor of "crash ejection from automobile".*
- This is not a rate of crashes. This is a
 rate of activations in which EMS
 encountered a patient who was
 ejected from a vehicle during a crash.
 Crashes can have multiple patients,
 each one with a unique ePCR.

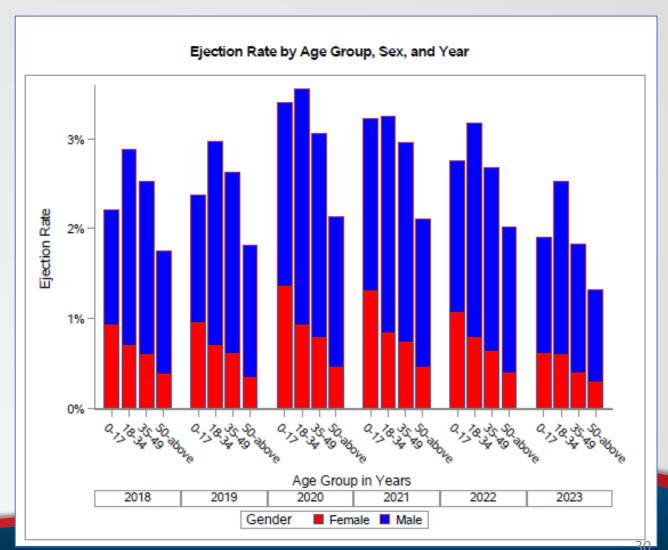




MVC Ejections by Age and Sex

- The rate represented are patients with an injury risk factor of "crash ejection from automobile" based on age group, sex, and year.*
- This is not a rate of crashes. This is a rate of
 activations in which EMS encountered a
 patient who was ejected from a vehicle during
 a crash. Crashes can have multiple patients,
 each one with a unique ePCR.



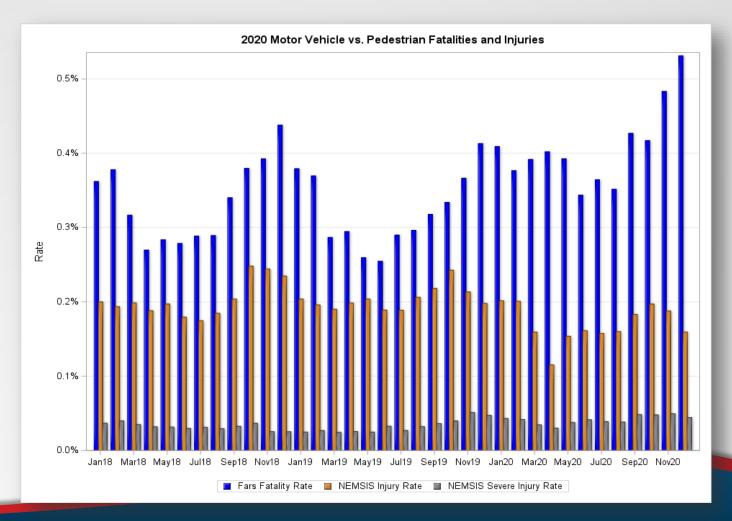


Comparing Fatalities and Injuries: Motor Vehicle vs. Pedestrian

The FARS and NEMSIS data have different denominators:

- <u>FARS Data</u>: Total motor-vehicle crashes vs.
 pedestrian fatalities over all MVC activations*
- <u>NEMSIS Injury</u>: Total motor-vehicle crashes vs.
 pedestrian injuries over all MVC activations
- <u>NEMSIS Severe Injury</u>: Total motor-vehicle crashes vs. pedestrian who sustained a severe injury over all MVC activations



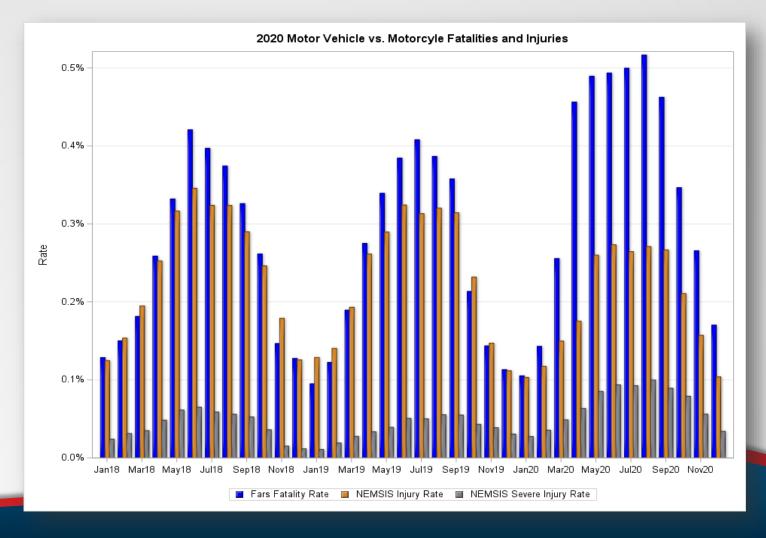


Comparing Fatalities and Injuries: Motor Vehicle vs. Motorcyclist

The FARS and NEMSIS data have different denominators:

- <u>FARS Data</u>: Total motor-vehicle crashes vs.
 pedestrian fatalities over all MVC activations*
- <u>NEMSIS Injury</u>: Total motor-vehicle crashes vs. pedestrian injuries over all MVC activations
- <u>NEMSIS Severe Injury</u>: Total motor-vehicle crashes vs. pedestrian who sustained a severe injury over all MVC activations



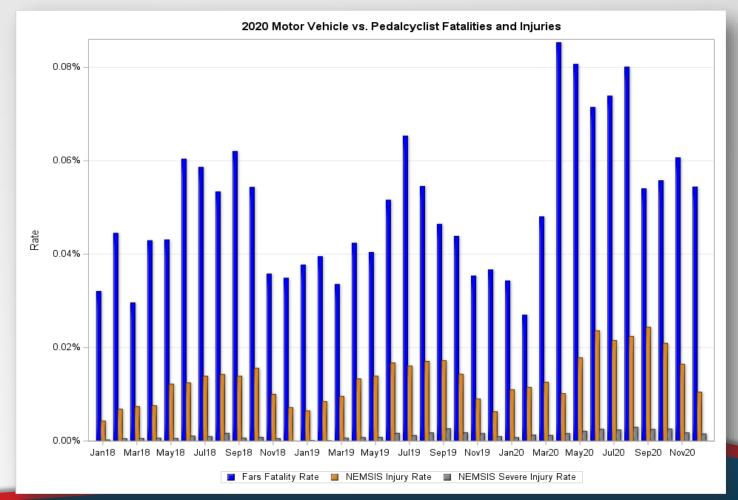


Comparing Fatalities and Injuries: Motor Vehicle vs. Bicyclist

The FARS and NEMSIS data have different denominators:

- <u>FARS Data</u>: Total motor-vehicle crashes vs.
 pedestrian fatalities over all MVC activations*
- <u>NEMSIS Injury</u>: Total motor-vehicle crashes vs.
 pedestrian injuries over all MVC activations
- <u>NEMSIS Severe Injury</u>: Total motor-vehicle crashes vs. pedestrian who sustained a severe injury over all MVC activations





State Use of EMS Crash Data



NASEMSO NEMSIS Liaison





Welcome Randall Eimerman

- Provides the integration between the NEMSIS TAC and NASEMSO leadership, councils and committees
- Voice for all data-related projects
- He is a Paramedic and has worked as a State Data Manager in both Indiana and Kentucky

Missouri

Peggy Huddleston, EMS Data Manager Taz Meyer, EMS Program Manager





Missouri Bureau of Emergency Medical Services

- Collects data from the electronic patient care reports (ePCR) using the NEMSIS data elements.
- Collaborates with Missouri Department of Transportation (MODOT) to create traffic flyers.
 - Drive Sober or Get Pulled Over
 - Pedestrian Safety Month
 - Older Driver Awareness Week





Missouri: Drive Sober Get Pulled Over

In 2022 the highest percentage of alcohol-related deaths occurred between 12 a.m. and 6 a.m. on Saturdays in ages 30-34.

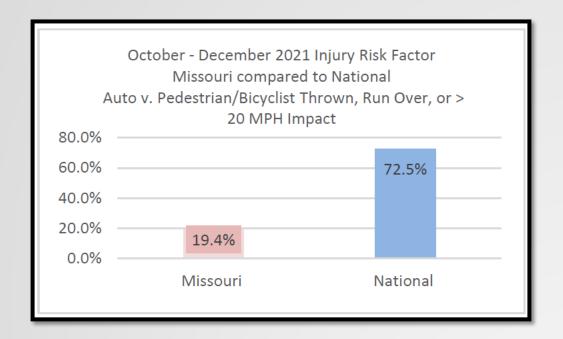
Dispatch Time								
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
12am to 6am	22.6%	9.7%	3.2%	16.1%		19.4%	29.0%	
6am to 12pm	5.4%	5.4%	16.2%	18.9%	21.6%	18.9%	13.5%	
12pm to 6pm	13.2%	18.9%	5.7%	11.3%	9.4%	18.9%	22.6%	
6pm to 12am	17.3%	11.5%	5.8%	3.8%	17.3%	26.9%	17.3%	

	Gender			
Age Range	Female	Male		
20-24 Years	2.6%	4.1%		
25-29 Years	2.0%	4.6%		
30-34 Years	3.1%	9.2%		
35-39 Years	1.1%	8.2%		
40-44 Years	2.0%	6.1%		
45-49 Years	1.5%	4.6%		
50-54 Years	2.0%	5.6%		
55-59 Years	0.5%	5.6%		
60-64 Years	1.0%	6.1%		
65-69 Years	0.5%	5.6%		
70-74 Years	2.0%	4.1%		
75-79 Years	1.5%	1.5%		
80-84 Years	0.0%	2.0%		
85-89 Years	0.0%	1.0%		
90-94 Years	0.0%	0.0%		
95-99 Years	0.0%	0.0%		
100+ Years	0.0%	0.0%		

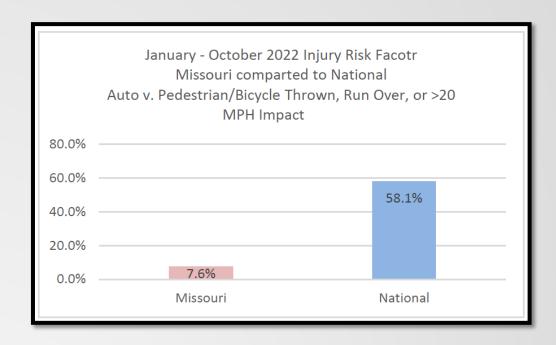




Missouri: Pedestrian Report









IN 2020, A PEDESTRIAN WAS KILLED EVERY **81**MINUTES IN TRAFFIC CRASHES.

Missouri: Older Driver Safety Awareness Week



MO - CY2021						
	Gen	der				
Age						
Range	Female	Male				
60-64 Years	2.2%	2.3%				
65-69 Years	1.6%	1.5%				
70-74 Years	2.0%	2.1%				
75-79 Years	1.1%	1.1%				
80-84 Years	0.8%	0.6%				
85-89 Years	0.4%	0.2%				
90-94 Years	0.1%	0.2%				
95-99 Years	0.0%	0.0%				
100+ Years	0.1%	0.0%				

Licensed Drivers by Age and Sex (In Thousands) as of May 31, 2022 ¹

Age	Male	Female	Total
60-64	4,970	4,944	9,914
65-69	4,183	4,203	8,386
70-74	3,645	3,823	7,468
75-79	2,820	3,091	5,911
80-84	1,657	1,854	3,511
85 and over	957	1,093	2,050
Total	18,232	19,008	37,240

MO - CY2022						
	Gender					
Age Range	Female	Male				
60-64 Years	2.5%	3.2%				
65-69 Years	2.0%	2.1%				
70-74 Years	1.7%	1.6%				
75-79 Years	1.2%	1.0%				
80-84 Years	0.7%	0.7%				
85-89 Years	0.4%	0.4%				
90-94 Years	0.2%	0.2%				
95-99 Years	0.0%	0.0%				
100+ Years	0.0%	0.0%				



Wyoming

Jay Ostby, Data Manager Office of Emergency Medical Services





Region 1 Sheridan Campbell Region 5 Washakie Region 2 Region 3 Region 4 Albany 100 Miles

Mapping: Ambulance Stations



Times

Green: EMS response times less than 9 minutes

Blue: EMS response time less than 30 minutes

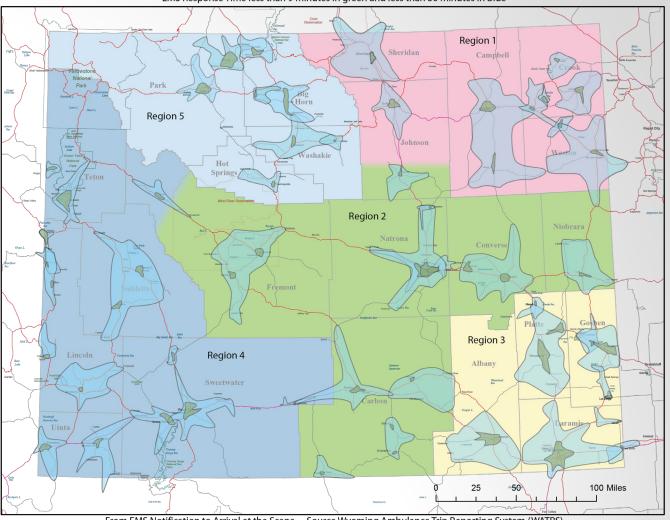
From EMS notification to arrival at scene.



Geographical Data: Response

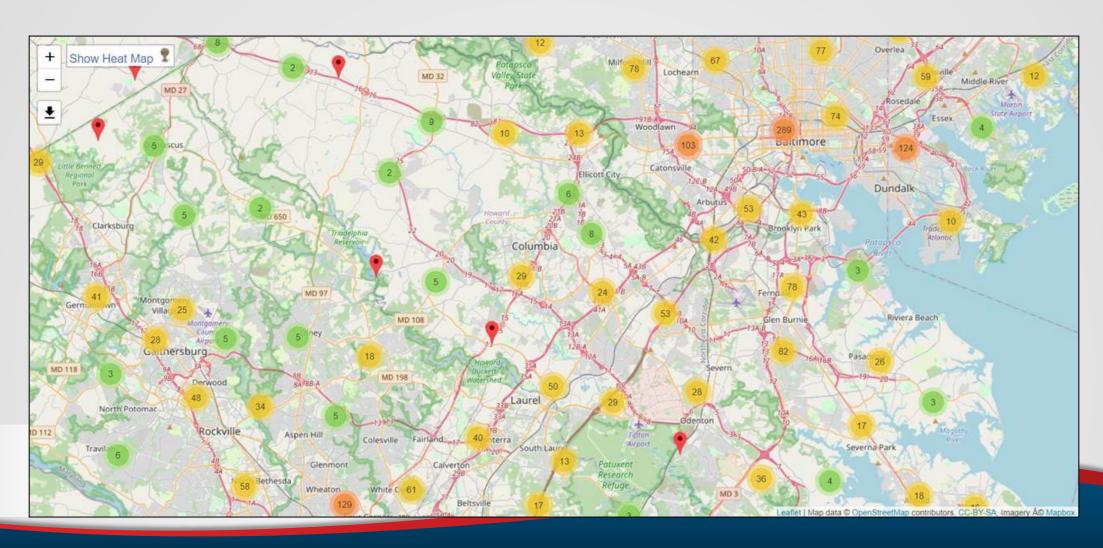


EMS Response Time less than 9 minutes in green and less than 30 minutes in blue

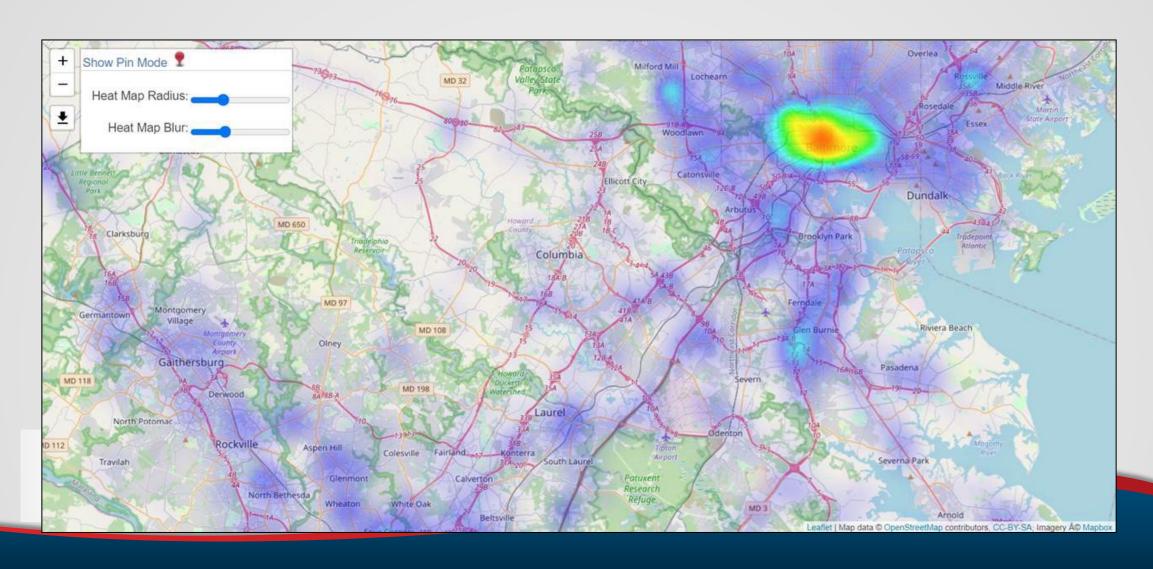


From EMS Notification to Arrival at the Scene - Source Wyoming Ambulance Trip Reporting System (WATRS)

State-Level Specific to City/County



State-Level Heat Map: County/City



Georgia

Dipti Patel, EMS Data Manager Michael Johnson, EMS Director





Georgia Office of EMS and Trauma

- Collect data from the electronic patient care reports (ePCR) using the NEMSIS data elements.
- NHTSA 405c Grant Reports and Analysis
 - Accuracy
 - Timeliness
 - Completeness
 - Uniformity
- Armband Project
- Collaborates with GDOT, TRCC/CODES, and DDS for Traffic Related Education





Georgia: 405c Quantitative Average Incident Validity Score

BASELINE (April 2020 - March 2021)						
Month	Average Incident Validity Score					
April - 2020	189,781	97.60				
May – 2020	207,171	97.35				
June – 2020	217,302	97.04				
July – 2020	248,240	97.54				
August – 2020	243,641	97.95				
September– 2020	222,696	97.09				
October –2020	96.85					
November – 2020	229,827	97.37				
December – 2020	247,880	97.40				
January – 2020	245,624	98.47				
February – 2021	219,342	98.32				
March – 2021	247,225	98.29				
Overall Average Ind Validity Score	97.61					
Total Incident Cour	2,759,869					



CURRENT (April 2021 – March 2022)					
Count of Incidents		Average Incident Validity Score			
April - 2021	241,292	98.30			
May – 2021	248,756	98.26			
June – 2021	243,464	98.86			
July – 2021	253,798	98.66			
August – 2021	268,406	98.93			
September – 2021	248,456	98.89			
October – 2021	97.89				
November – 2021	232,086	98.50			
December – 2021	249,955	98.74			
January - 2021	244,887	98.82			
February – 2022	211,740	98.33			
March – 2022	98.90				
Overall Average Inci Validity Score	98.59				
Total Incident Coun	2,885,100				

Georgia: 405c Quantitative Average Time Call Completion

BASELINE (April 2020 - March 2021)					
		Average Incident Unit Back In Service To			
	Count of	Incident Record			
Month	Incidents	Created In Hours			
April - 2020	112,958	124.35			
May- 2020	125,690	104.66			
June - 2020	133,149	97.59			
July - 2020	157,985	80.94			
August - 2020	155,323	83.80			
September - 2020	139,586	183.33			
October - 2020	152,921	161.87			
November - 2020	145,188	133.85			
December - 2020	158,145	118.63			
January - 2020	162,953	366.33			
February - 2021	140,856	171.03			
March - 2021	158,798	173.38			
Overall Average Inci	dent Unit				
Back <u>In</u> Service To In Record Created In He	149.98				
Total Incident Count	1,743,552				



CURRENT (April 2021 - March 2022)					
	Average Incident				
		Unit Back In			
	_	Service To			
80 11	Count of	Incident Record			
Month	Incidents	Created In Hours			
April - 2021	156,976	214.69			
May - 2021	164,291	163.50			
June - 2021	160,724	157.74			
July - 2021	169,376	146.11			
August - 2021	186,063	100.82			
September - 2021	82.68				
October - 2021	66.24				
November - 2021	152,461	54.25			
December - 2021	167,813	48.29			
January - 2021	169,673	47.08			
February - 2022	142,702	44.99			
March - 2022	135,201	18.26			
Overall Average Inc	ident Unit				
Back <u>In</u> Service To I	95.39				
Record Created In H	95.59				
Total Incident Coun	1,937,496				

Georgia: Armband Project

Purpose: Deterministically link Crash Records, EMS Records, and Hospital Records with one unique ID number.

Data Documentation: Armband characters are documented using NEMSIS data elements.





Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T P 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTP	A A E V T P	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTP	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTP		AAEVTP	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T O 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTO	A A E V T O	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTO	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTO		AAEVTO	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T N 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTN	A A E V T N 6 letters (A-Z)	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTN	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTN	**	AAEVTN	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T M 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTM	A A E V T M 6 letters (A-Z)	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTM	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTM		AAEVTM	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T L Stermal Report Type = "Patient ID", enter # for External Report #	AAEVTL	A A E V T L 6 letters (A-Z)	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTL	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTL		AAEVTL	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T K 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTK	A A E V T K 6 letters (A-Z)	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTK	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTK		AAEVTK	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T J 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTJ	A A E V T J	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTJ	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTJ		AAEVTJ	
Enter # in Occupant Info "By:" Field 6 letters (A-Z) A A E V T I 6 letters (A-Z) External Report Type = "Patient ID", enter # for External Report #	AAEVTI	A A E V T I	Georgia Systems of Care Armband DO NOT REMOVE To learn more: visit https://dph.ga.gov/EMS/armband	AAEVTI	Hospital Use - this # will be recorded in Pt Record and in Trauma/Stroke/ Cardiac Registry	AAEVTI		AAEVTI	

Data Linkages



LINKING BASED ON:

- Patient First Name
- Patient Last Name
- Patient Gender
- Patient DOB
- Incident Date

PCR #1
PCR #2
PCR #3

Hospital A





PCR #3



S PONT A

PCR #2



I ansport A

OUTCOMES

Hospital B



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