



Data Standards and Exchange

December 12, 2019

Co-chairs and members

Data Standards and Exchange

- Co-Chairs
 - Rachel Abbey, ONC/DHHS
 - Eric Chaney, DOT/NHTSA/OEMS
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 - Chris Handley, DoD
 - Holly Hedegaard, CDC/DHHS
 - Rob Merritt/Erika Odom, CDC/DHHS
 - Lorah Ludwig/Theresa Morrison-Quinata, HRSA/DHHS
 - Michael Stern/Marion Long/Bill Troup, USFA
 - Sarah O’Donnell, HRSA/FORHP

Addressing Established FicEMS Priorities

Data Standards and Exchange

- Objective 2.2: Promote standardization and quality improvement of prehospital EMS data by supporting the adoption and implementation of NEMESIS-compliant systems.
- Objective 2.4: Improve linkages between NEMESIS data and other databases, registries, or other sources to measure system effectiveness and improve clinical outcomes.
- Objective 4.1: Foster EMS participation in regional and State Health Information Exchanges (HIE).

Current Overview of the National Emergency Medical Services Information System (NEMESIS)

Office of EMS, National Highway
Traffic Safety Administration

NEMESIS TAC

National Public-Release Research Dataset

Statistical Year	Reporting States ¹	Reporting Agencies ²	Number of Events	Treated and Transported 911 Response ²
2009	26	1,673	5,767,090	3,367,668
2010	31	3,529	9,874,748	4,874,061
2011	35	5,395	14,371,941	7,701,605
2012	43	6,415	19,831,189	10,733,925
2013	45	8,183	23,897,212	12,595,958
2014	48	8,785	25,835,729	13,769,286
2015	49	10,137	30,206,450	15,729,516
2016	49	9,993	29,919,652	15,361,777
2017	36	4,017	7,910,584	4,233,046

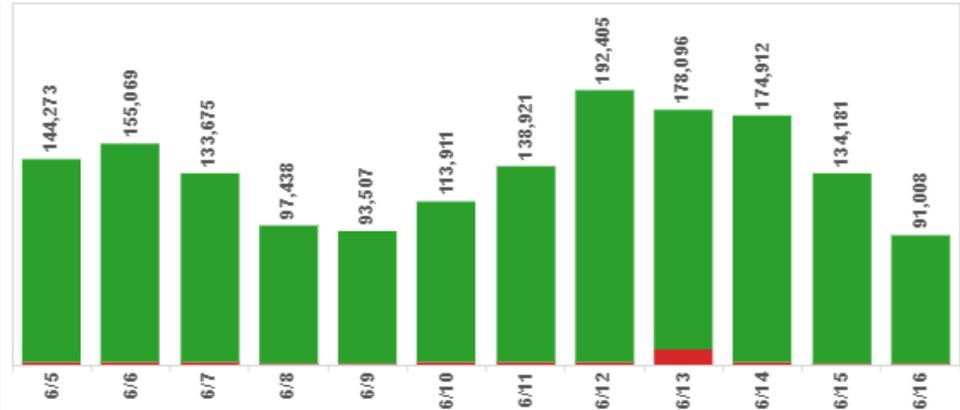
¹ Number of reporting states and territories of the United States.

² Only including the events that are 911 calls, treated and Transported by EMS.

Submissions

Count of Submissions	1,647,396
Count of Submissions Accepted	1,620,633
Count of Submissions Rejected	26,763
Count of Submission Errors	27,597

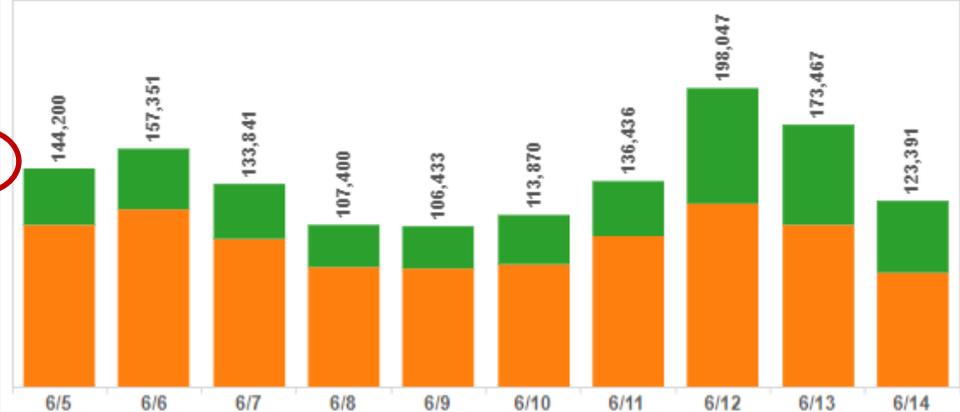
Submissions Accepted vs Rejected



Patient Care Reports (PCR) Processed

Count of Activations	1,394,436
Count of Activations with Violations	964,822
Count of Violations for all Accepted Activations	1,795,371
Violations Per Activation	1.3
Average Activations per Accepted File	1.2
Count of PCRs Resubmitted	43,855
Submission Lag 25% (hours)	167.7
Submission Lag 50% (hours)	4,610.6
Submission Lag 75% (hours)	10,796.8

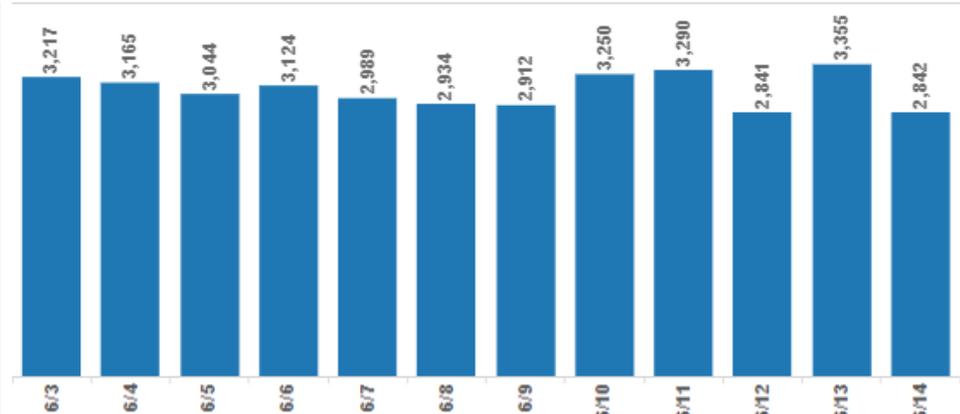
PCRs Processed With & Without Schematron Warnings



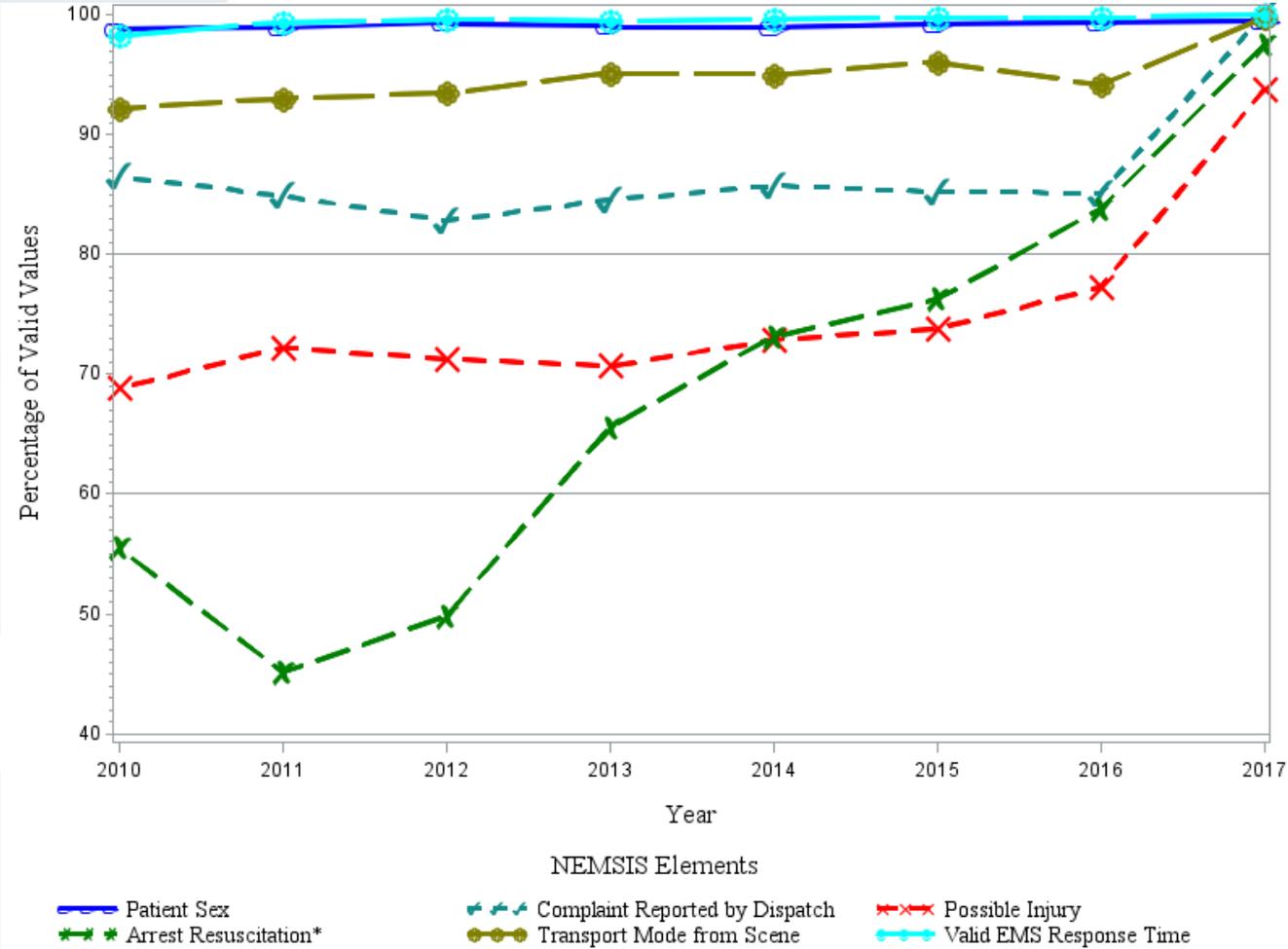
Agencies

Count of Active Agencies	4,702
Count of Agencies Submitted	73
EMS Agency Demographic Files Rejected	157
EMS Agency Resubmissions	1

Active EMS Agencies per Day



Ensure Data Quality



Ensure Data Quality

NEMESIS Submission Summary 6/3/2019 - 6/16/2019

Failed Submissions¹



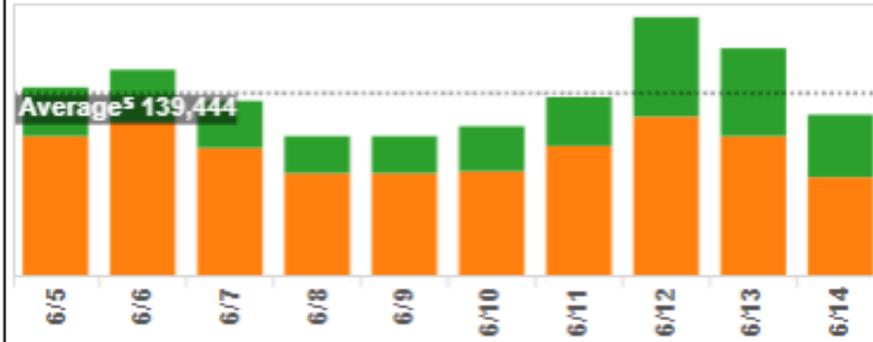
Active Agencies²



PCR Warnings³



Patient Care Reports (PCR)⁴



Current Composition Summary

Total Percent EMS Agencies Accepted To Date⁶



Total Patient Care Reports Accepted, Year To Date⁷

17,943,918

NEMESIS Publications

NATIONAL CHARACTERISTICS OF EMERGENCY MEDICAL SERVICES RESPONSES IN THE UNITED STATES

Henry E. Wang, MD, MS, N. Clay Mann, PhD, MS, Karen E. Jacobson, BA, NREMT-P, Mengtao Dai, MS, Kathleen Smyrski, MPH, Donald M. Yealy, MD

National Characteristics of Emergency Medical Services in Frontier and Remote Areas
Landon R. Mueller BS, John P. Donnelly MSPH, Karen E. Jacobson BA, NREMT-P, Justin N. Carlson MD, MS, N. Clay Mann PhD, Henry E. Wang MD, MS

Google Scholar

NEMESIS

About 831 results (0.07 sec)

Procedures Performed by Emergency Medical Services in the United States
Justin N. Carlson MD, MS, Christopher Karns DO, N. Clay Mann PhD, MS, Karen E. Jacobson BA, NREMT-P, Mengtao Dai MS, Caroline Collieran DO & Henry E. Wang MD, MS

Epidemiology of Pediatric Prehospital Basic Life Support Care in the United States
Leigh Ann Digg MPH, Manasi Sheth-Chandra PhD & Gianluca De Leo PhD, MBA

The Cost of Over-triage: Emergency Medical Services Transport Patterns and Acute Care Costs Among Low-Risk Injured Patients

NEMESIS Publications in 2019 (n=40)

Racial and gender disparities in violent trauma:
Results from the NEMESIS database

Injury-based Geographic Access to Trauma Centers

Gender Differences in the Quality of EMS Care
Nationwide for Chest Pain and Out-of-Hospital
Cardiac Arrest

Is Use of Warning Lights and Sirens Associated
With Increased Risk of Ambulance Crashes? A
Contemporary Analysis Using National EMS
Information System (NEMESIS) Data

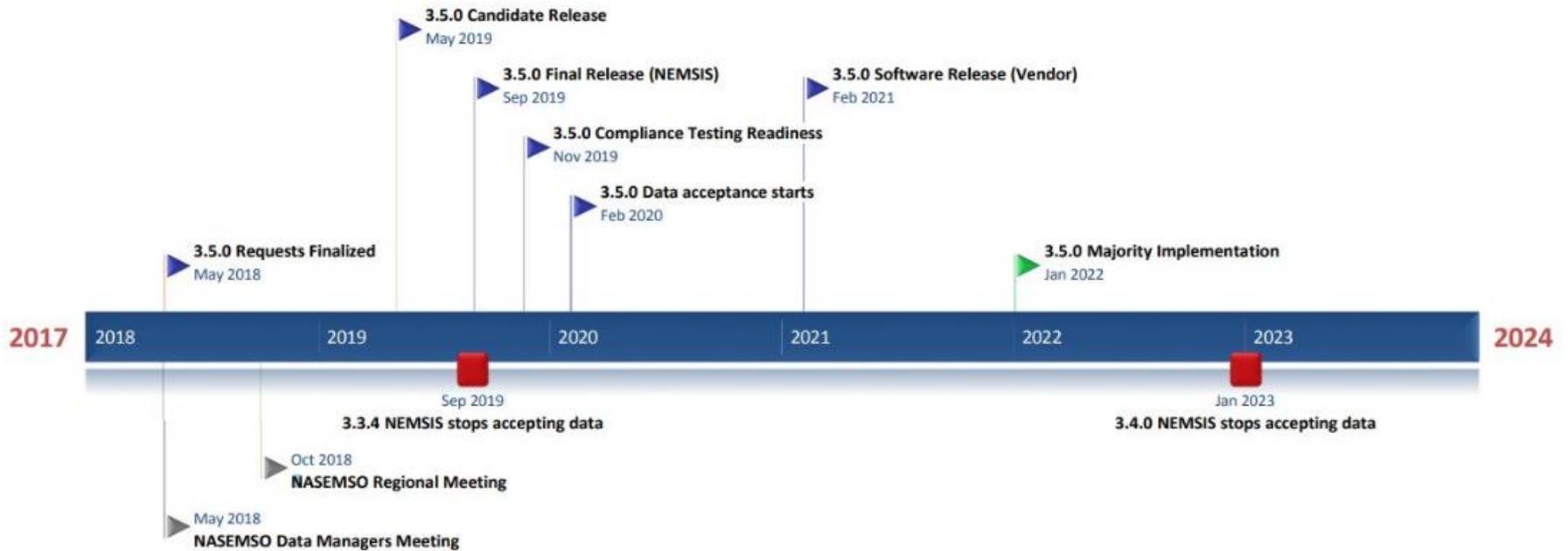
**Emergency Medical Services Response to Mass
Shooting and Active Shooter Incidents, United States,
2014–2015**

Long-Term Outcomes Among Injured Older
Adults Transported by Emergency Medical
Services ☆

Do Hospital Closures Affect Patient Time in an
Ambulance?

**Emergency Medical Services Experience With Barb Removal After Taser Use By
Law Enforcement: A Descriptive National Study**

NEMESIS V3.5.0 Timeline



Questions?

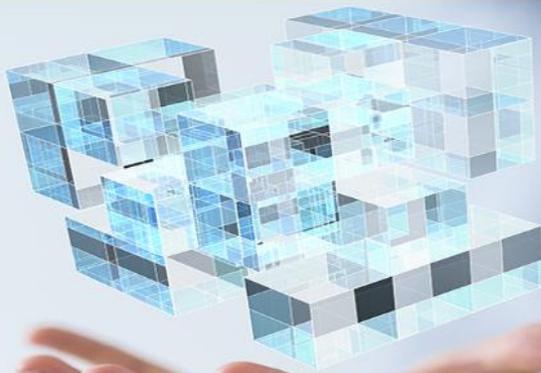
nemesis.org

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NEMESIS

NEMESIS V3 EMS Data Cube

Now available!



Action Items recommended to FICEMS

Data Standards and Exchange

- None