Data Standards and Exchange

June 26, 2019
Co-chairs and members

Data Standards and Exchange

• Co-Chairs
  – Rachel Abbey, ONC/DHHS
  – Eric Chaney, DOT/NHTSA/OEMS

• Members
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  – 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 NEMSIS-compliant systems.

• **Objective 2.4:** Improve linkages between NEMSIS 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 (NEMSIS)

Office of EMS, National Highway Traffic Safety Administration

NEMSIS TAC
Method and Sample Population

Version 2

Version 3
# National Public-Release Research Dataset

<table>
<thead>
<tr>
<th>Statistical Year</th>
<th>Reporting States¹</th>
<th>Reporting Agencies²</th>
<th>Number of Events</th>
<th>Treated and Transported 911 Response²</th>
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<tbody>
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<td>2009</td>
<td>26</td>
<td>1,673</td>
<td>5,767,090</td>
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<td>2010</td>
<td>31</td>
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<td>2011</td>
<td>35</td>
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<td>2012</td>
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<td>2013</td>
<td>45</td>
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<td>2014</td>
<td>48</td>
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<td>2015</td>
<td>49</td>
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<td>2016</td>
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<td>2017</td>
<td>36</td>
<td>4,017</td>
<td>7,910,584</td>
<td>4,233,046</td>
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</tbody>
</table>

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.

2018: ~20.5 Million
Ensure Data Quality
Ensure Data Quality

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

- Failed Submissions: 1.64%
- Active Agencies: 30.6%
- PCR Warnings: 69.2%

Patient Care Reports (PCR):

Average: 139,444

Current Composition Summary

- Total Percent EMS Agencies Accepted To Date: 55.3%
- Total Patient Care Reports Accepted, Year To Date: 17,943,918
NEMSIS Publications in 2019 (n=40)

Racial and gender disparities in violent trauma: Results from the NEMSIS 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


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

Identification and Description of Non-Fatal Opioid Overdoses using Rhode Island EMS Data, 2016–2018
Questions?
nemsis.org
Action Items recommended to FICEMS

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• None