

NEMSIS: Community Surveillance

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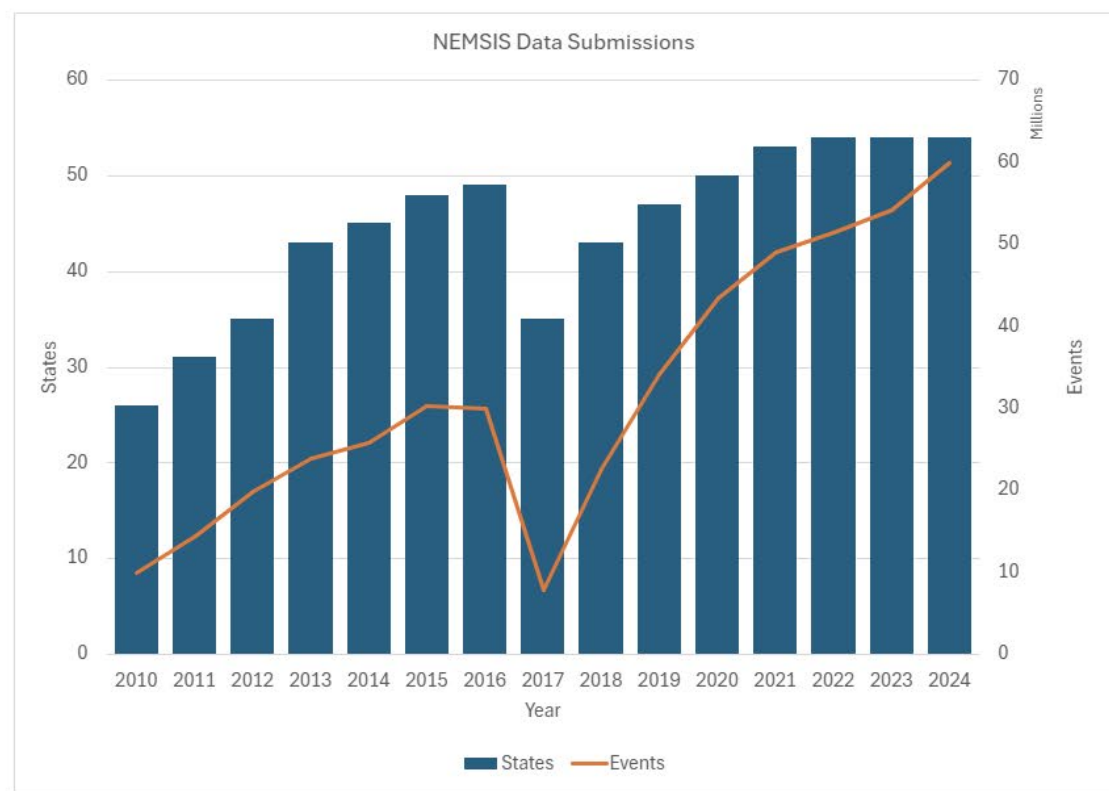
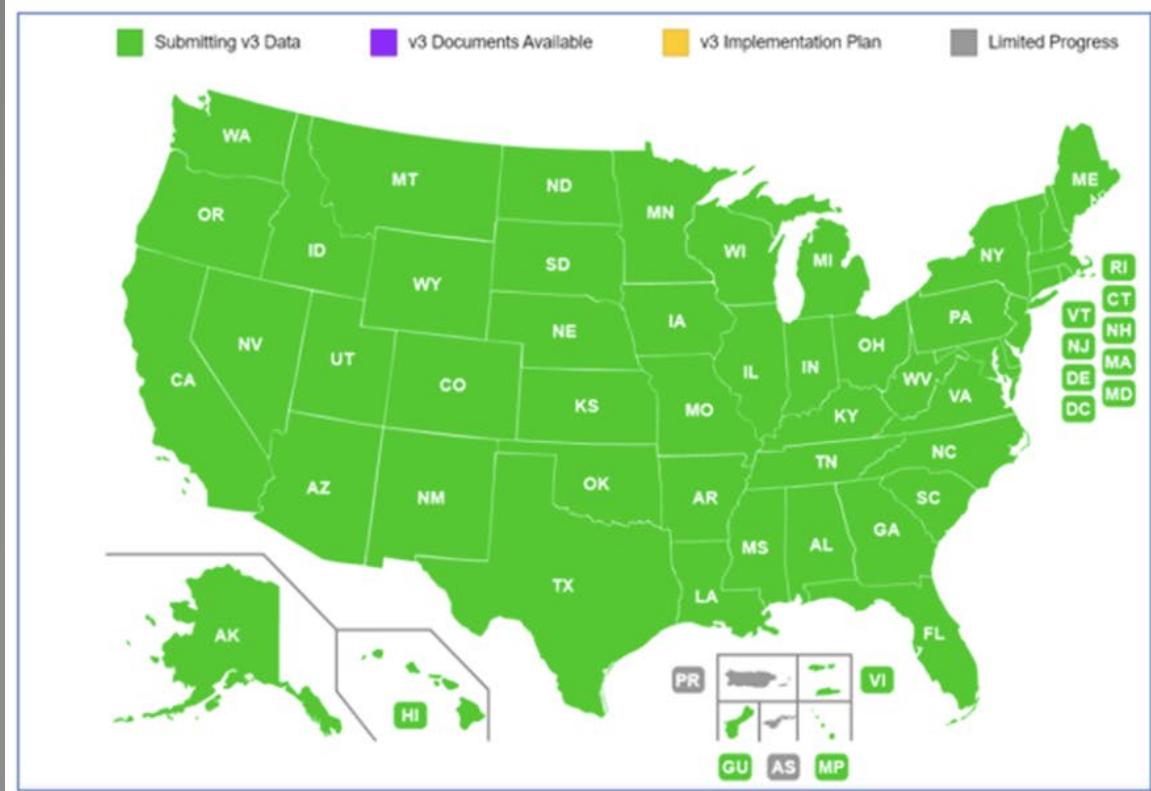


The National EMS Information System

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



Participating State/Territories



63,635,893 Records in 2025

Agency Participation and Timely Submissions

NEMSIS v3 Web Services Guide

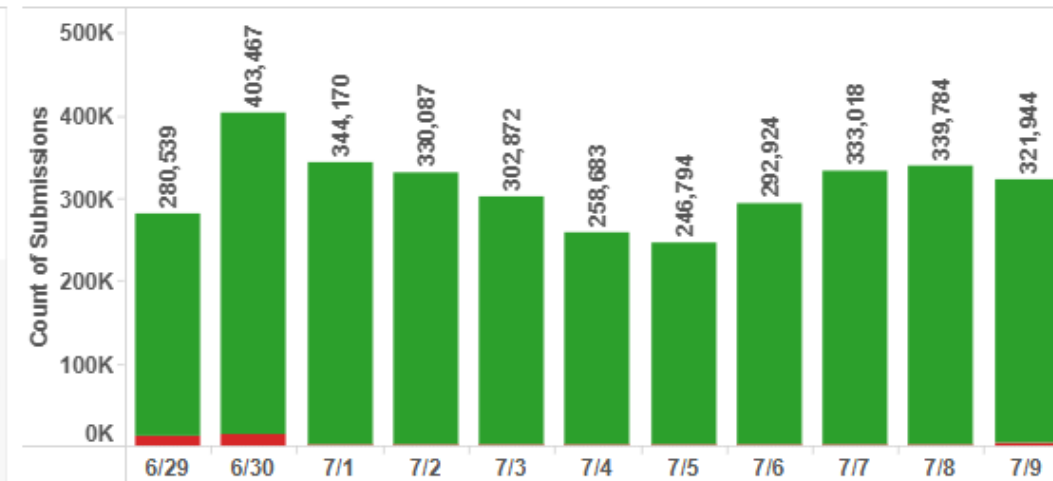
NEMSIS V3 Schematron Guide



Submissions

Accepted	3,511,601
Rejected	51,973

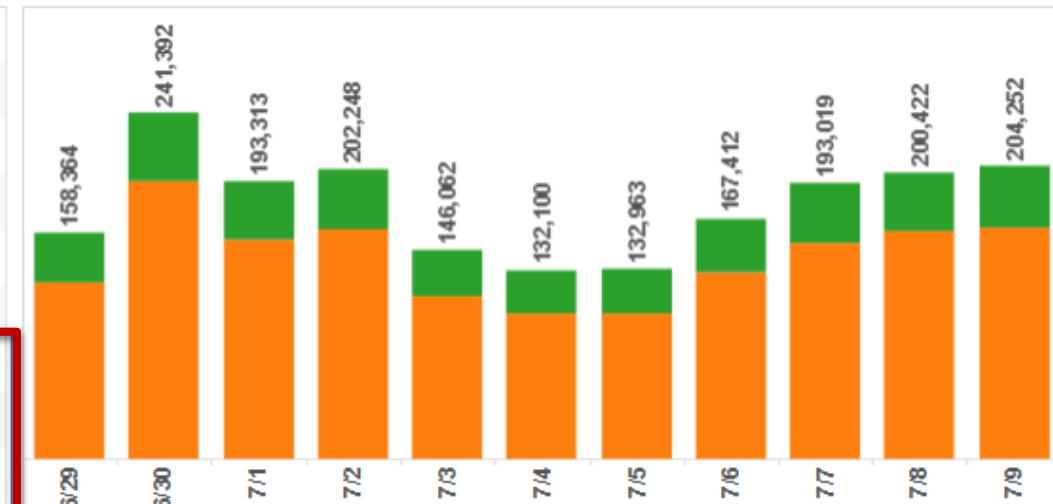
Submissions Accepted vs Rejected



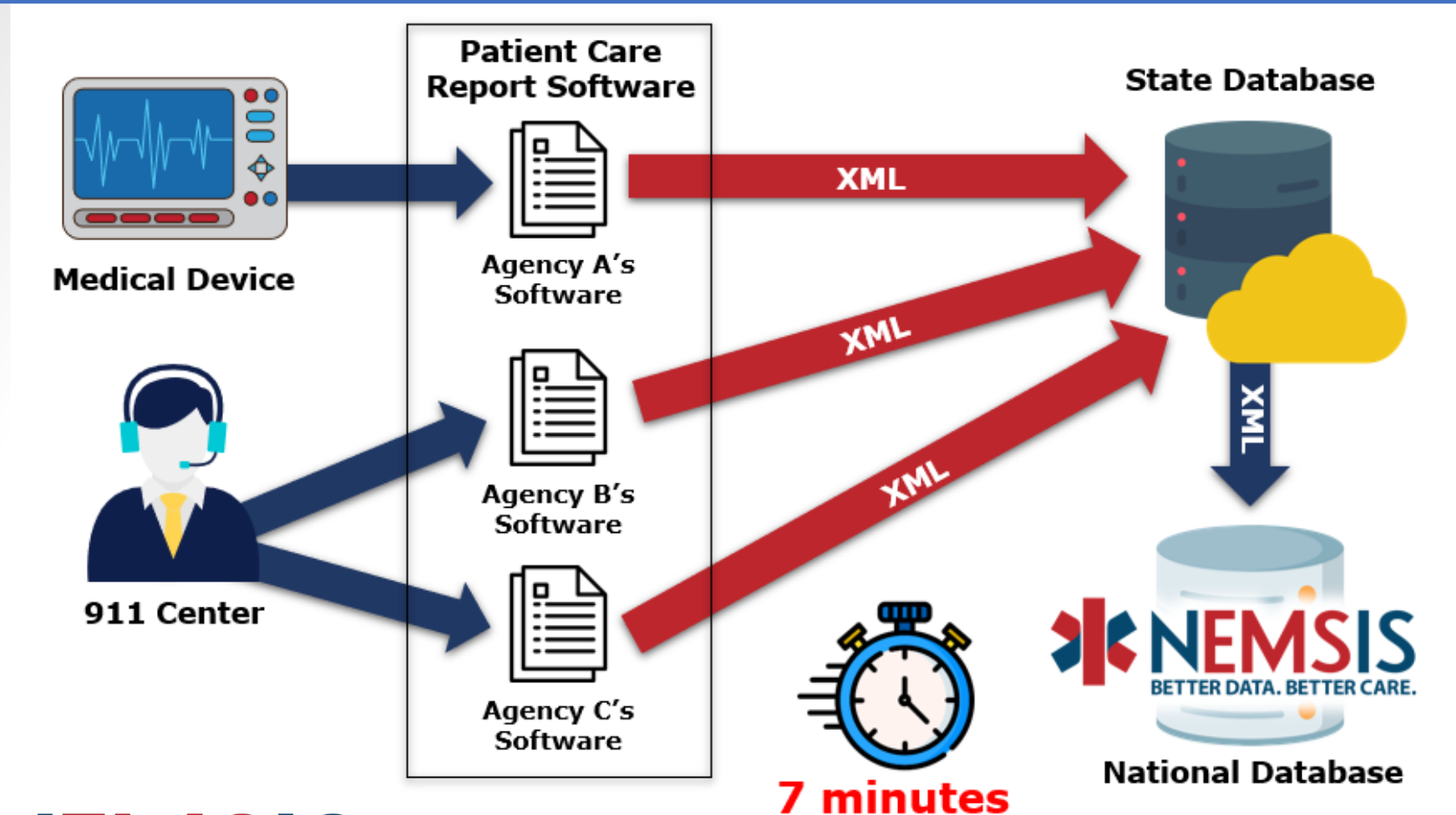
Patient Care Reports (PCR) Processed

Count of Activations	2,051,421
Count of Activations with Warnings	1,612,638
Count of Warnings for all Accepted Activations	4,927,372
Warnings Per Activation	2.4
Average Activations per Accepted File	1.0
Count of PCRs Resubmitted	293,473
Submission Lag 25% (hours)	8.5
Submission Lag 50% (hours)	22.0
Submission Lag 75% (hours)	64.0

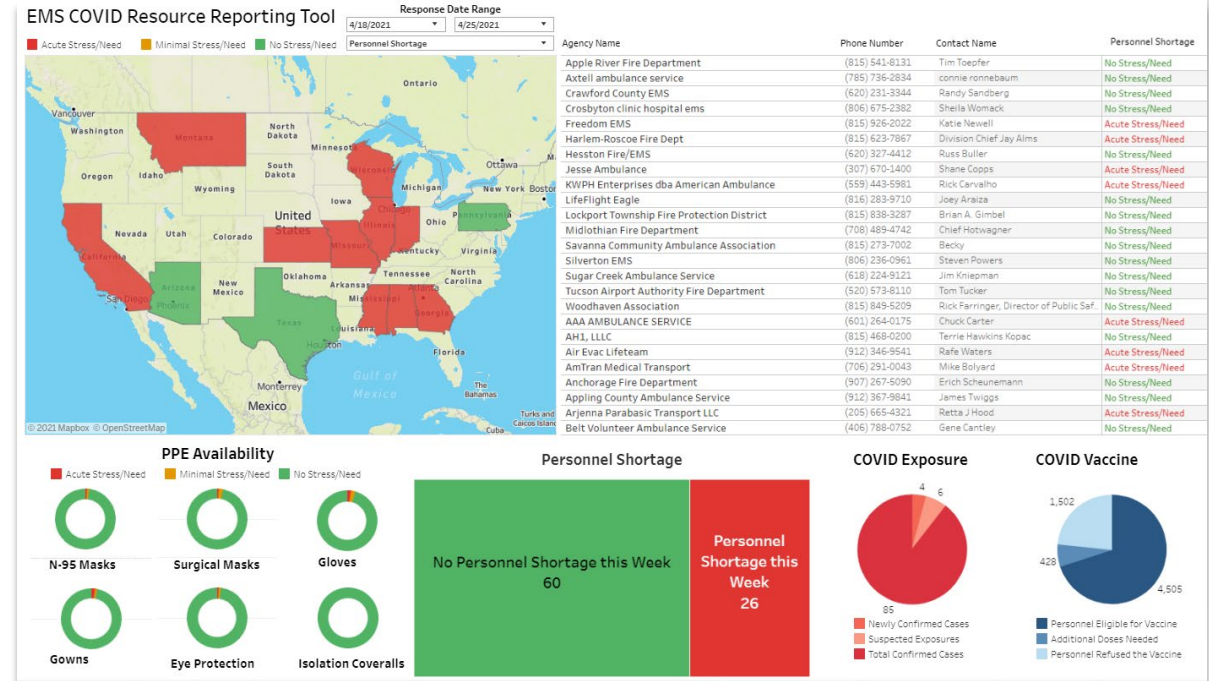
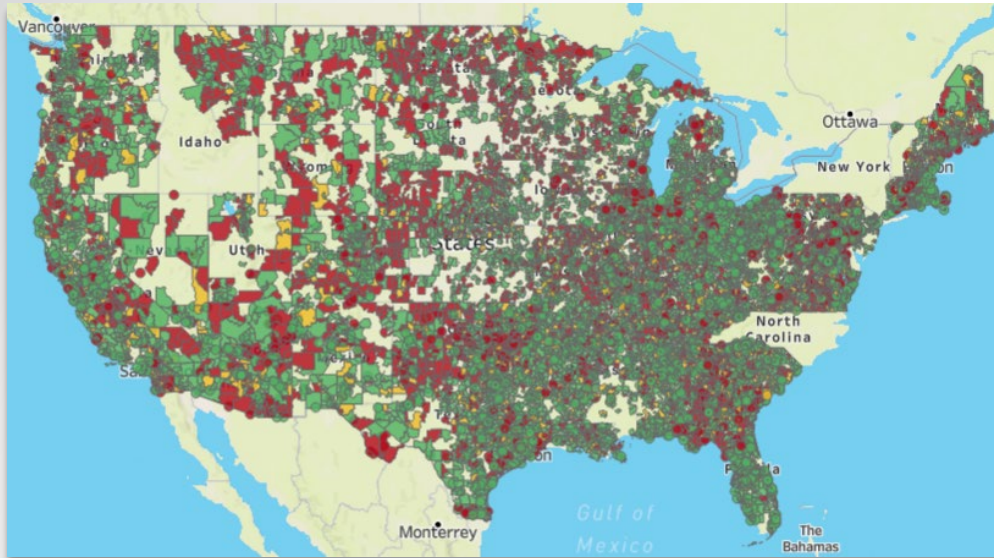
PCRs Processed With & Without Schematron Warnings



The Portability of EMS Data



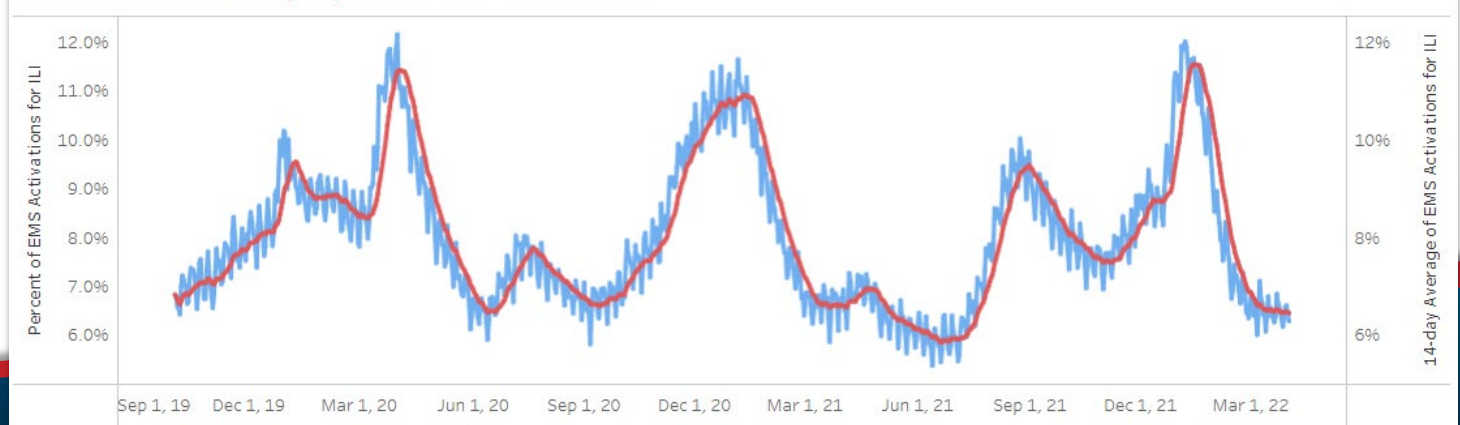
COVID: NEMSIS Resources



State off-load time tracking
State ILI tracking
State COVID/PPE tracking



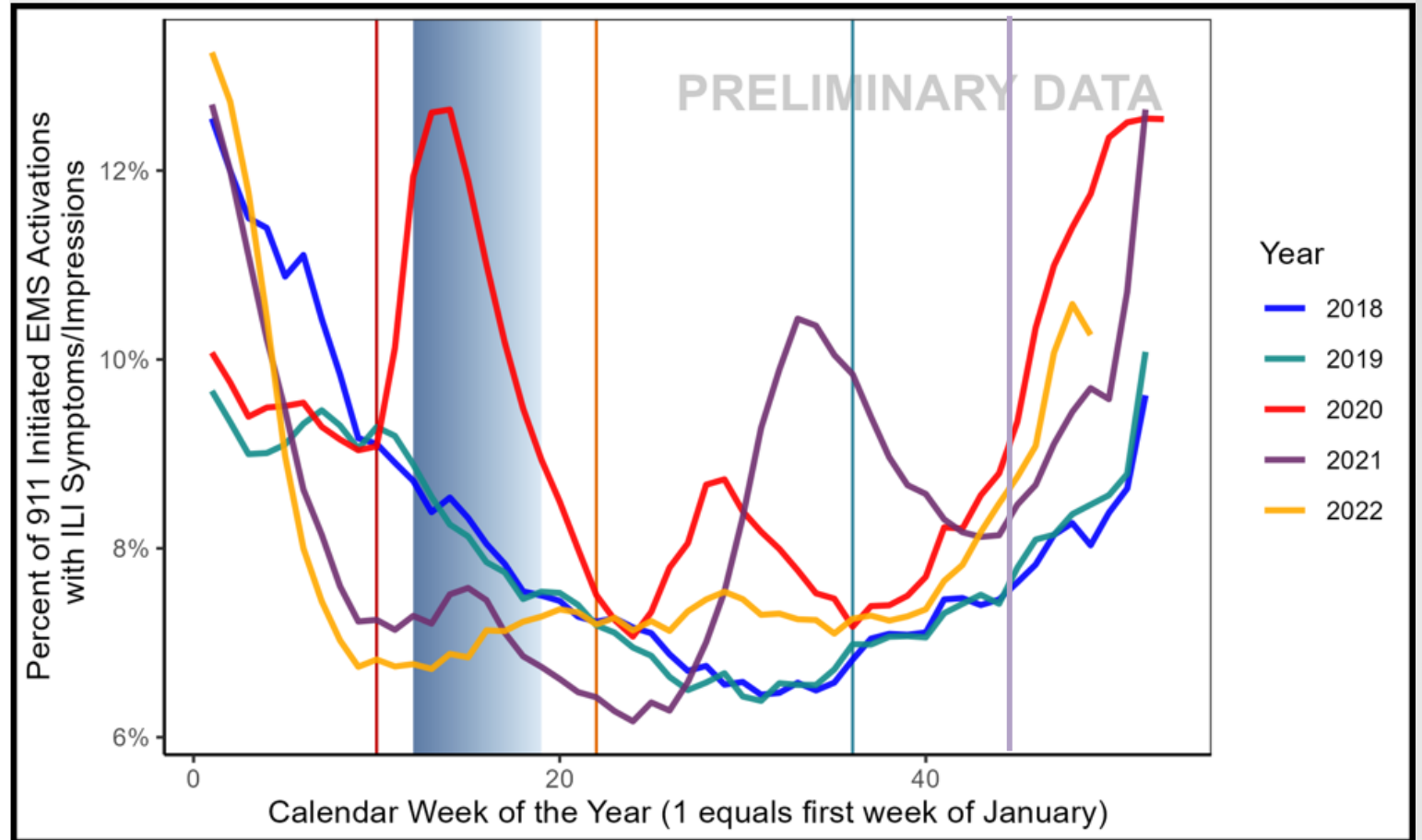
Trend of ILI Activations by Day



EMS By The Numbers

- CDC announces Community Spread
- States initiate “stay at home” orders
- Memorial Day weekend
- Labor Day weekend
- Thanksgiving weekend

Total sample includes **141,350,987** 9-1-1 initiated EMS activations resulting in patient contact



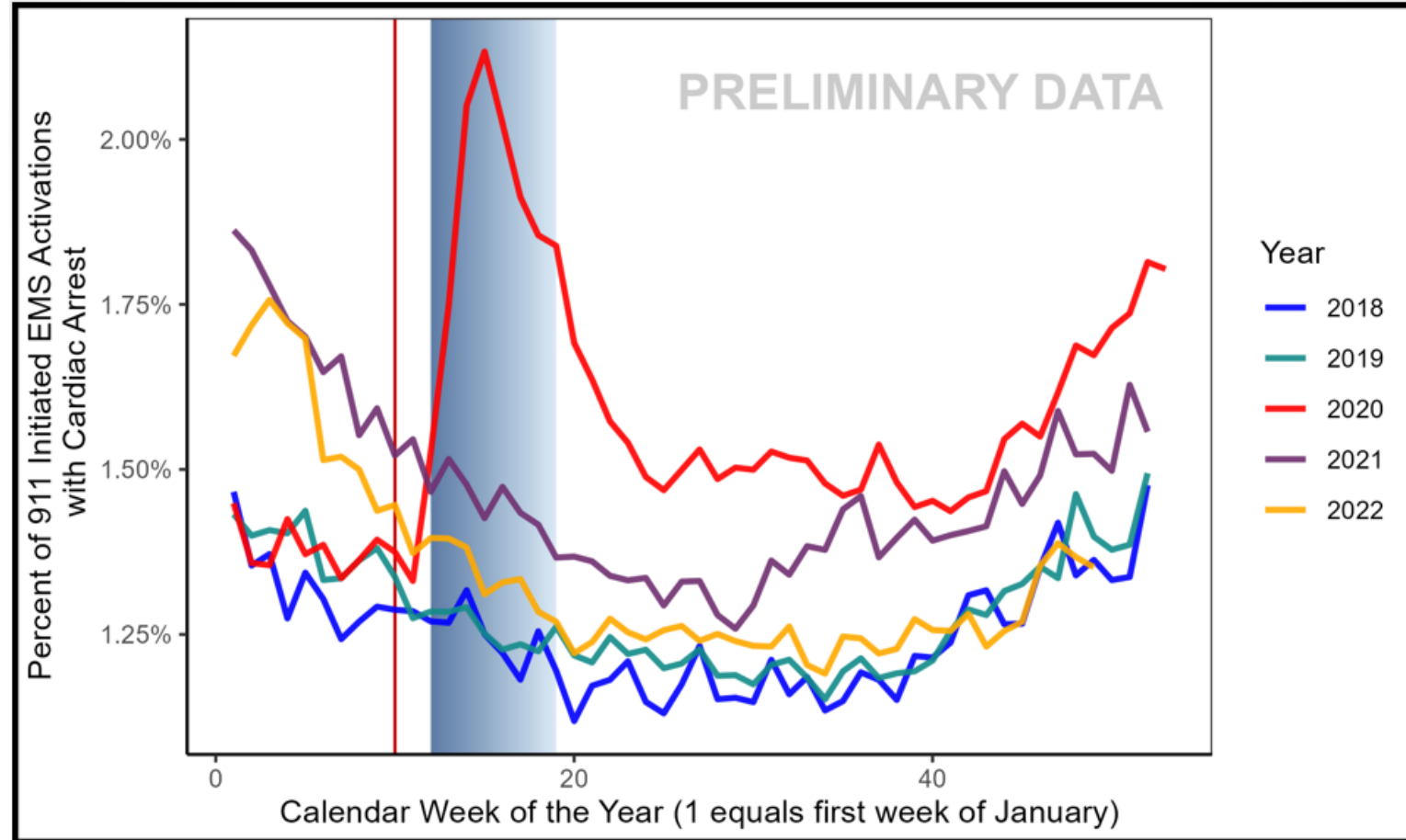
EMS By The Numbers

- CDC announces Community Spread
- States initiate “stay at home” orders

'Cardiac calls' to 911 in New York City surge, and they may really be more COVID cases

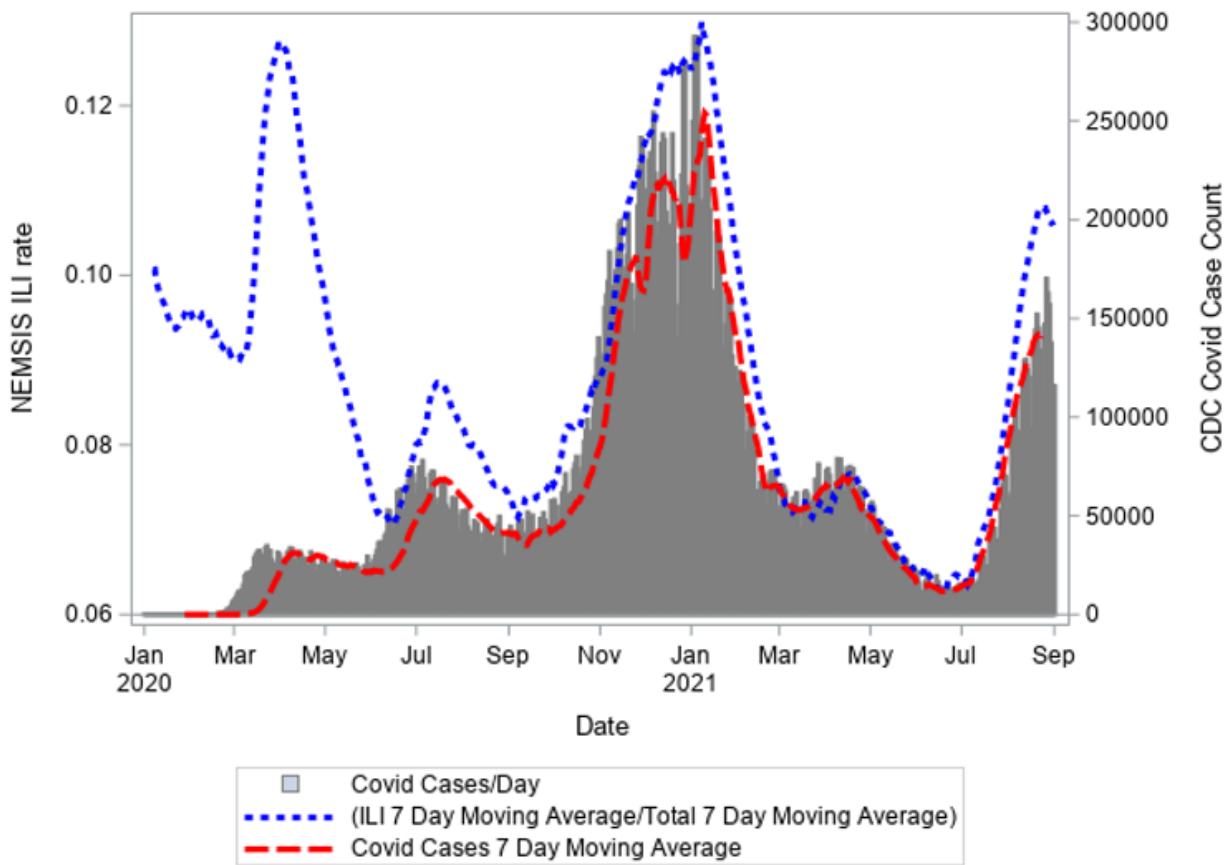
Fire Department data show ambulances are responding to a surge in fatal or near-fatal heart attacks suffered by New Yorkers whose true health issue may be COVID-19.

April 2020

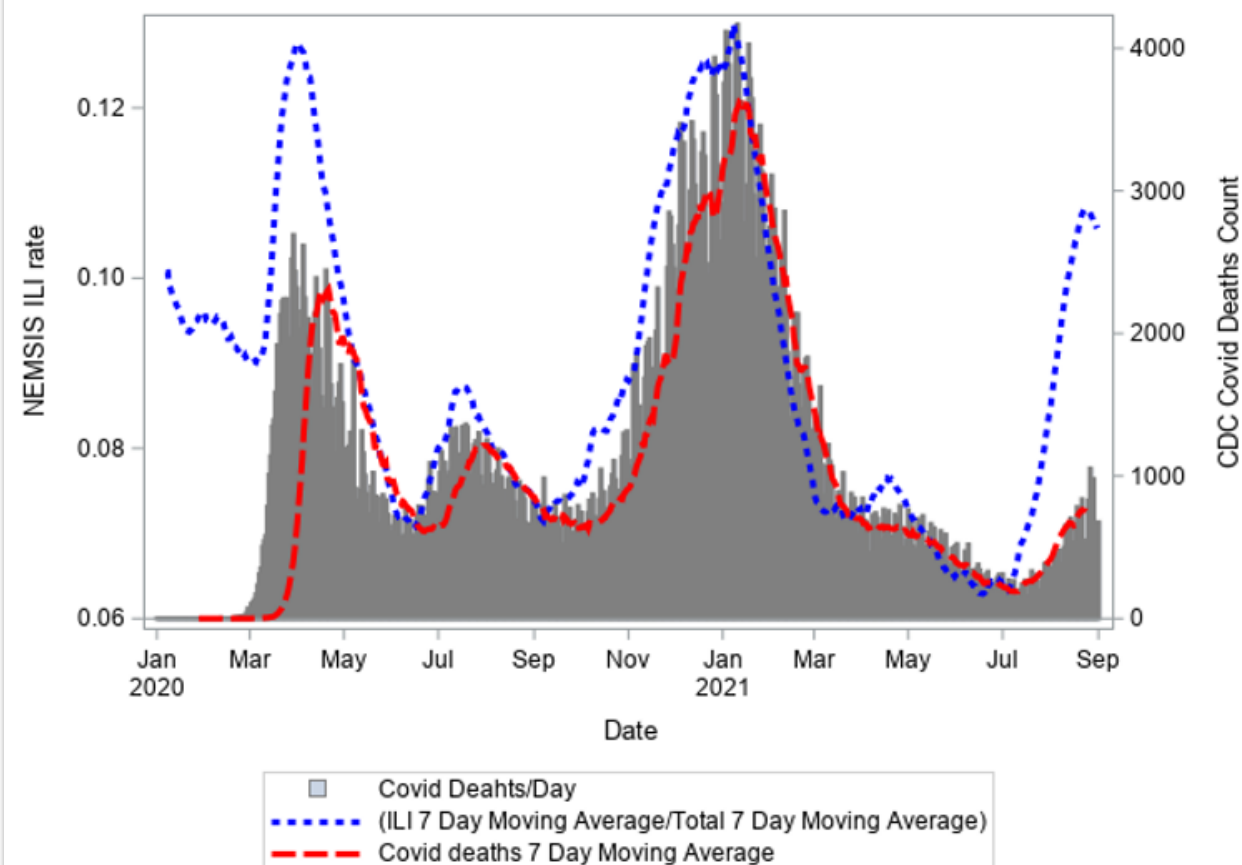


NEMSIS and Community COVID Surveillance

CDC Covid Cases vs NEMSIS ILI rate



CDC Covid Deaths vs NEMSIS ILI rate



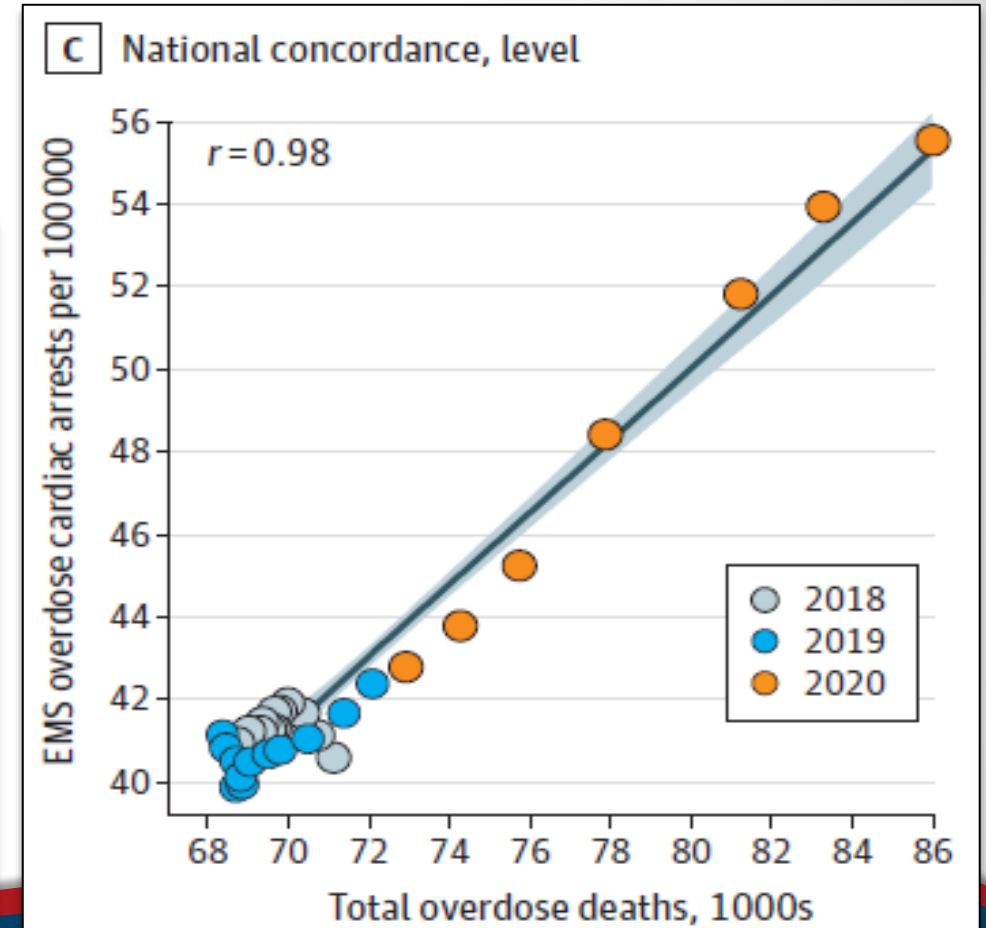
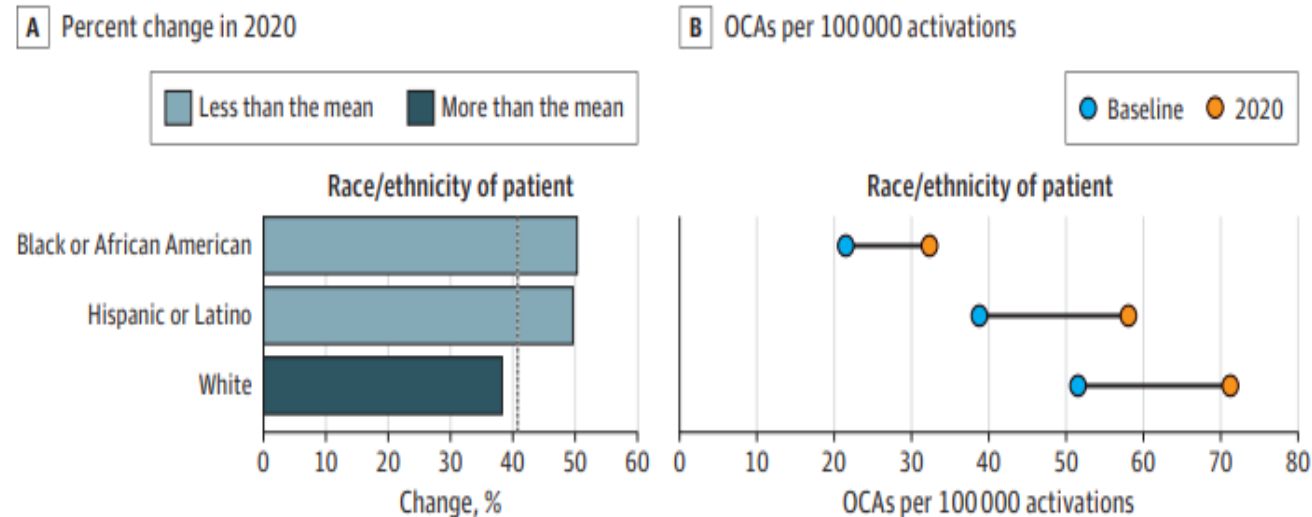
NEMSIS Overdose Deaths Strongly Correlate with Provisional CDC Death Data

JAMA Psychiatry | Original Investigation

Racial/Ethnic, Social, and Geographic Trends in Overdose-Associated Cardiac Arrests Observed by US Emergency Medical Services During the COVID-19 Pandemic

Joseph Friedman, MPH; N. Clay Mann, PhD, MS; Helena Hansen, MD, PhD; Philippe Bourgois, PhD; Joel Braslow, MD, PhD; Alex A. T. Bui, PhD; Leo Beletsky, JD, MPH; David L. Schriger, MD, MPH

Figure 2. Overdose-Associated Cardiac Arrests (OCAs) Percentage Changes and Aggregate Numbers, Stratified by Race/Ethnicity, Census Region, and Neighborhood Characteristics





Drug Overdose Surveillance Dashboard



Provisional Mortality Data Updated On: August 13, 2024..

June 29, 2025 – June 28, 2026

Nonfatal Any/All Overdoses Involved in Motor Vehicle Crashes 4,902

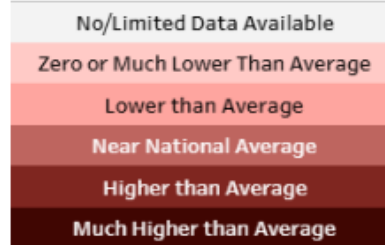
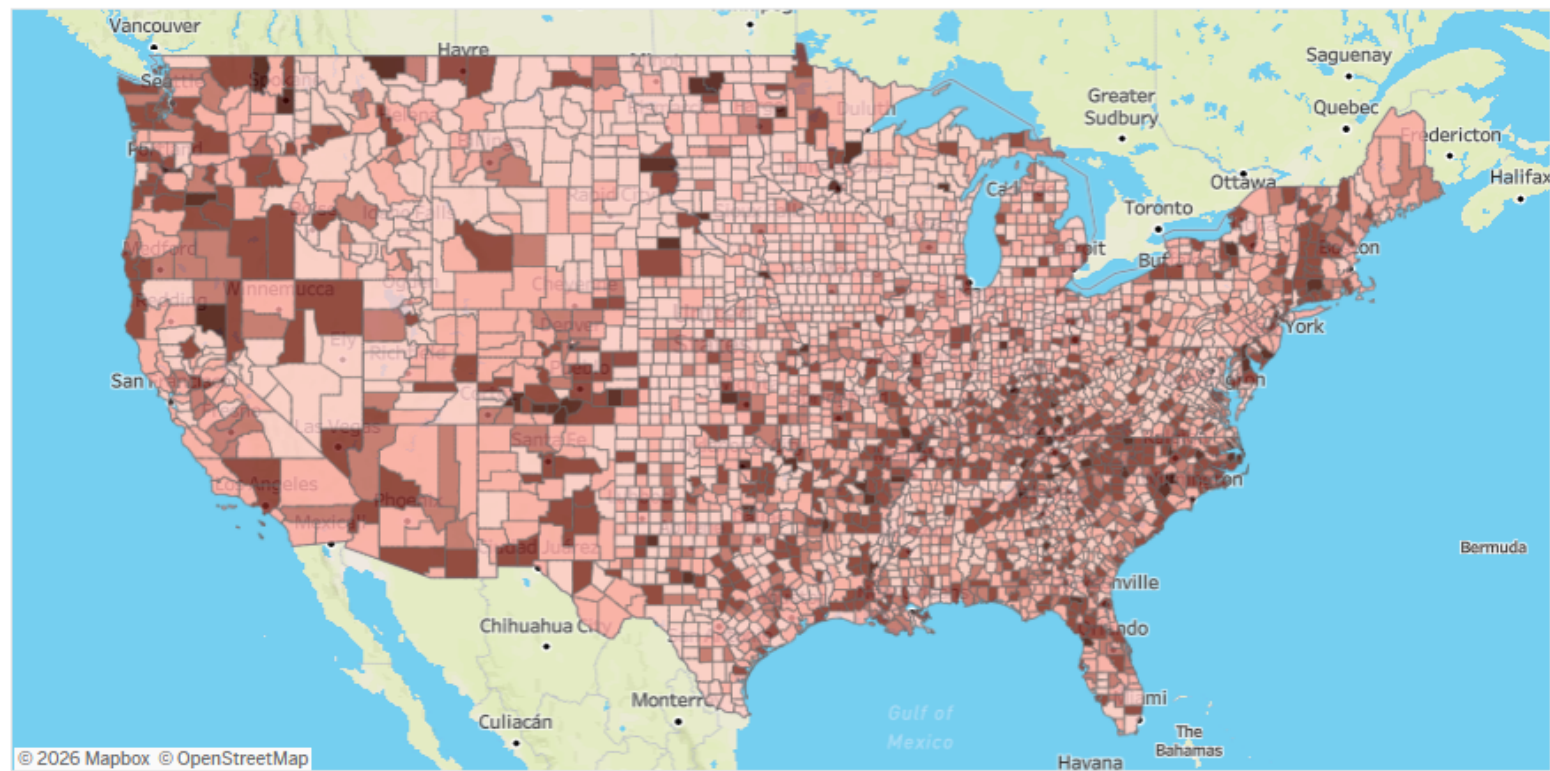
Select Time Period: 12-months ending Select Jurisdiction: (All) Select Level of Geographic Detail: County Select Suspected Drug Involvement: Any/All Select a Measure: (All)

Number/Rate 2023 Fatal Overdoses	Number/Rate Nonfatal Overdoses	Average EMS Time to Patient	Number of Patients Receiving Naloxone	Percent of Patients Receiving Naloxone	Patients Not Transported
105,002 or 31.5 (-3.4%)	626,724 or 193.2 (-4.0%)	13.8 minutes (+3.4%)	158,896 (-34.1%)	25.4% (-3.1%)	16.0% (-4.3%)

Top Jurisdictions

Rate of Nonfatal Overdoses per 100k Population

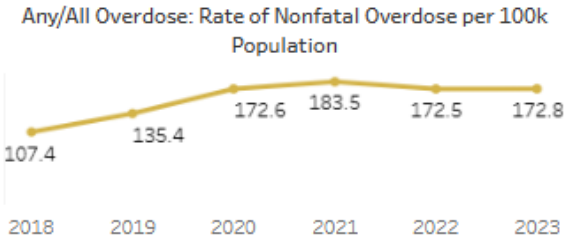
- District of Columbia
- Delaware
- North Carolina
- Colorado
- Connecticut
- Nevada
- Kentucky
- Vermont
- Washington
- Oregon



Top Counties

Rate of Nonfatal Overdoses per 100k Population

- Galax city, Virginia
- District of Columbia, District of Columbia
- Borden County, Texas
- Swain County, North Carolina
- Denver County, Colorado
- Buncombe County, North Carolina
- St. Louis city, Missouri
- Richmond city, Virginia
- Butler County, Missouri
- Mahnomen County, Minnesota



EMS Information System (NEMESIS)

- Pros

- Can be "Sensitive"
- Near complete census
- Functioning system
- Incident focused
- Early Warning
 - County & Zip Code

- Cons

- Is not "Specific"
- Not "mandated"
- Not funded correctly
- Not "patient specific"
- Early Warning
 - Address....really?!

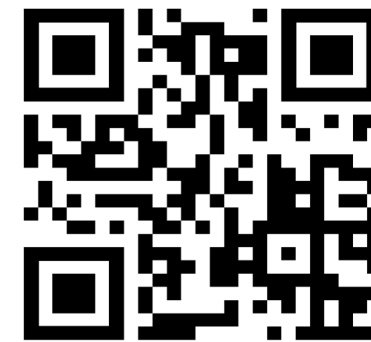
Wish-list: Future of EMS Surveillance

- EMS are viewed as “Community Public Health Sentinels”
- Community Surveillance module added
- EMS properly funded
- Change in provider training (thinking...mind set)

For More Information:

www.NEMSIS.org

Support Desk: support@nemsis.atlassian.net



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Flow of EMS Data

