EMS Focus

A Collaborative Federal Webinar Series

NHTSA's Office of EMS Friday, March 22, 2024 at 2pm ET

EMS Harm Reduction and SUD Treatment

EMS FOCUS WEBINAR



VARIETY OF TOPICS

Provides the EMS community with a unique opportunity to learn more about Federal EMS efforts and programs.



EXPERIENCE

Brings Federal, State and local leaders to you!



REGISTER

With opportunity for Q&A. Closed captioning is available.



FEEDBACK & QUESTIONS

nhtsa.ems@dot.gov







UPCOMING WEBINARS



April 2024



June 2024



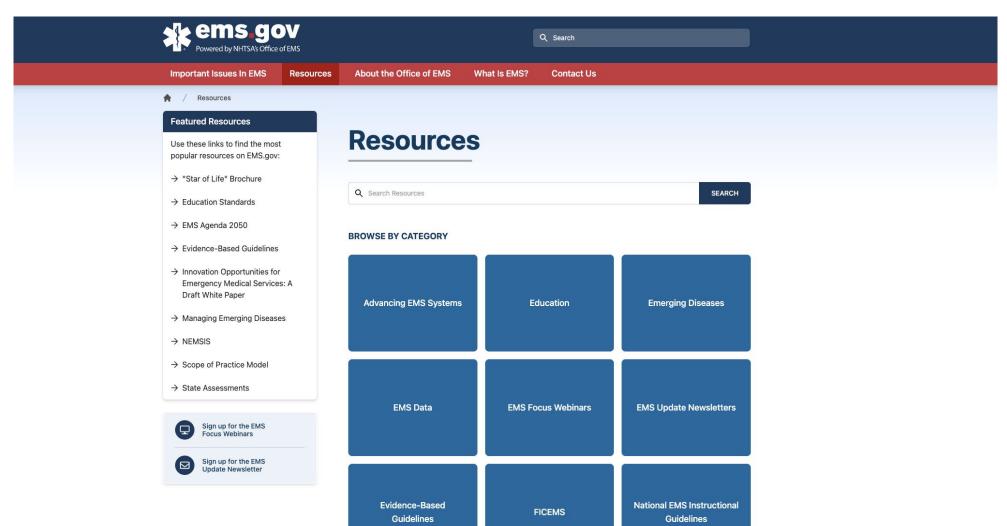
Register & Watch Previous Webinar Recordings







EMS.gov Resources













Emergency Public Management Health **Public** Healthcare Safety

NHTSA Office of EMS

Mission



Reduce death & disability



Provide leadership & coordination to the EMS community



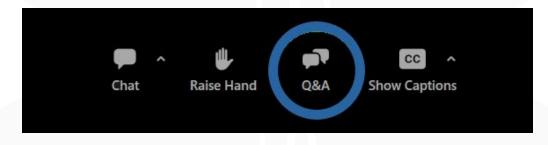
Assess, plan, develop, & promote comprehensive, evidence-based emergency medical services & 911 systems

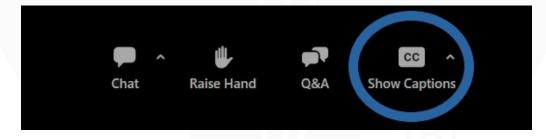
ZOOM FUNCTIONS

This webinar will utilize three features in the Zoom Meeting controls.

- "Raise Hand" Use this feature to ask your question live. You will be called upon and unmuted
- "Q&A" Use this feature to submit your question virtually in a pop-up window/chat box
- "Show Captions" Use this feature to turn on closed captions at any point during the webinar













Today's Topic: EMS Harm Reduction & SUD Treatment

Gerard Carroll, MD, FAAEM, FAEMS, FASAM, EMT-P.

EMS Medical Director, Cooper University Health Care; Division Head of EMS/Disaster Medicine; and Program Director, EMS Fellowship Program

John Ehrhart

Paramedic; EMS Manager, San Diego Health Connect; Co-Founder, California Paramedic Foundation; and Founder, Mission Critical Protocols

Simon Taxel

Paramedic Crew Chief and Public Safety Diver, Pittsburgh Bureau of EMS; Bloomberg Fellow, Johns Hopkins Bloomberg School of Public Health

Spectrum of the EMS Response to OUD

Gerard Carroll, MD, FAAEM, FAEMS, FASAM, EMT-P. Associate Professor of Emergency Medicine EMS Fellowship Director Cooper Medical School of Rowan University Division Head, EMS and Disaster Medicine Department of Emergency Medicine Cooper University Healthcare

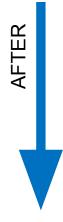




Spectrum of EMS Responses to OUD



- Screening of Patients. Distributing Resources
- Safe Drug Drop
- Education & Referral
- First Responder Narcan kit distribution
- Drug checking
- OVERDOSE OCCURRENCE
- Opioid Overdose Receiving center
- Handoff to Public Health after 911
- Mobile Integrated Teams with home visit
- Mobile Team give after ED BUP home visits for follow up bup doses
- Paramedic initiated Buprenorphine





EMS Buprenorphine Literature

Annals of Emergency Medicine Impact of Administering Buprenorphine to Overdose Survivors Using Emergency Medical Services

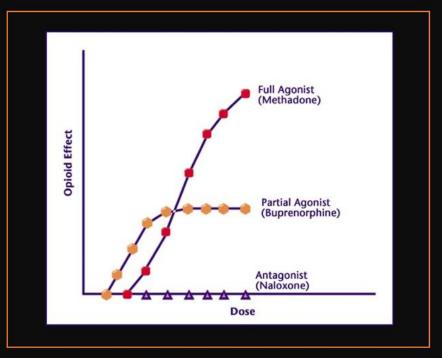
Kaitlan Baston, MD • Rachel Haroz, MD • Show all authors





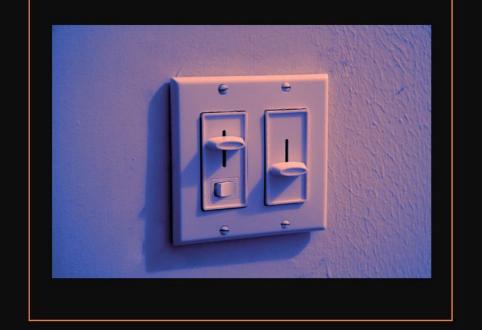
Buprenorphine

- μ-opioid receptor partial agonist
 - High affinity → displaces other opioids
 - Partial agonism → ceiling effect on respiratory & CNS depression
- κ-opioid receptor antagonist





Erstad BL, Glenn MJ. Considerations and limitations of buprenorphine prescribing for opioid use disorder in the intensive care unit setting: A narrative review. Am J Health-Syst Pharm 2023.



Key Protocol Components

Recognize developing Withdrawal

Engage with the patient/ restore dignity

- Aggressive Induction 16 - 24 mg

Low Barrier Follow up (for patients and medics)

Protocol Comparison - Inclusion/Exclusion

CAMDEN, NJ

- Naloxone opiate withdrawal
- No Methadone <u>last 48 hours</u>
- Regain Capacity
- Pregnancy exclusion removed
- Age > 18 just lowered to 16
- COWs > 7 just lowered to 5

CONTRA COSTA, CA

- Camden +
- No Methadone last <u>10 days</u>
- No benzos/ ETOH
- Not Pregnant (soon to change)
- Age > 18 (soon to change)
- COWs > 7

Protocol Comparison - Intervention

911 Encounter:

- 16 mg buprenorphine/naloxone (2 films) + 4 mg ondansetron
- Additional 8 mg buprenorphine/ naloxone (1 film)
- Monday Friday Addiction Walk-In Clinic Camden
- Substance Use Navigator Follow up Contra Costa

OUTCOMES	Camden	CA
7 Days In Treatment	30%	29%
30 Days In Treatment	22%	26%
Avg. COWS Reduction	7.1	6.9

Operations/Safety Camden, NJ Contra Costa CA

Scene Time Bupe vs None 7 minutes NA

Precipitated Withdrawal ~1 % ~1%

48%

Refusal Rate post Bup

1%











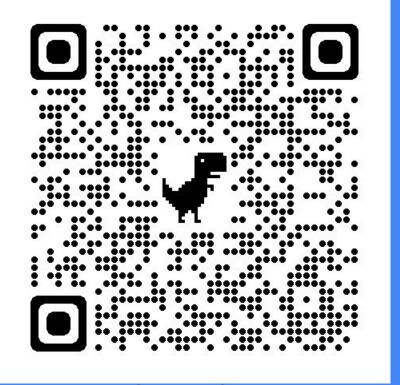


Lots of Options!

EMS Bup Resources



Cooper EMS MOUD - Google Folder



Contra Costa www.emsbridge.org

John Ehrhart

Paramedic; EMS Manager, San Diego Health Connect; Co-Founder, California Paramedic Foundation; and Founder, Mission Critical Protocols



John Ehrhart, Paramedic, EMS Manager

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Topics

- Vision of the future EMS.
- Integrating programs into existing EMS operations.
- Building multiple programs into dynamic programming portfolios.
- Partnering with technology vendors to position ourselves for success.

Agenda 2050

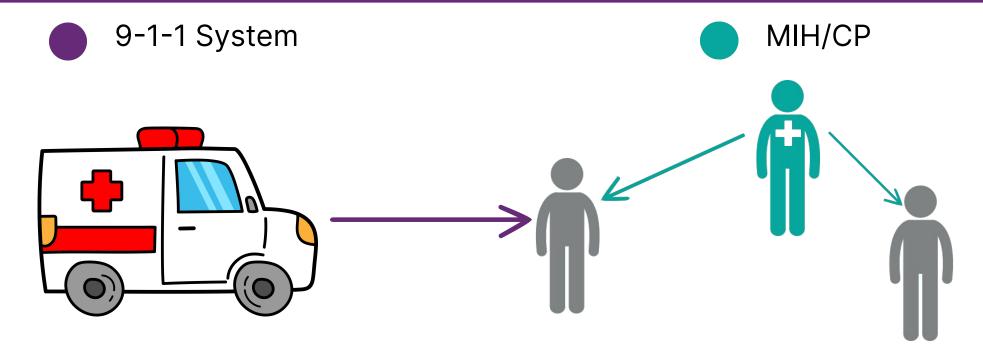
IN 2050, EMS SYSTEMS ARE PEOPLE-CENTERED.



The Values That Led Us Here

- Avoid wallowing in the problems of today
- Focus on bold, ambitious ideas
- Commit to open and inclusive input
- Listen to opinions, criticism, and critique

9-1-1 vs Non-9-1-1 Systems



Responsive system reimbursed through transport fees or funded by government.

Alternative model working outside of 9-1-1 response, funded through governments, grants,?

OUD Programs

9-1-1...

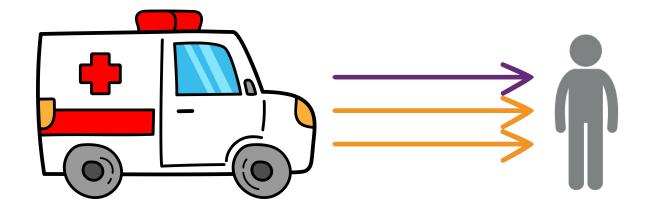
- Data Sharing
- NaloxoneDistribution
- Buprenorphine
- Electronic Referral

...and Beyond

- MIH/CP
- Task Forces
- CommunityOutreach

Value Add of 9-1-1 Prevention Programs

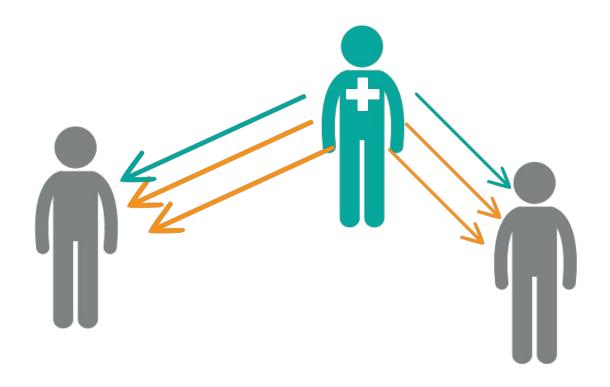
- 9-1-1 System
- Program 1
- Program 2



Why it matters: Existing EMS infrastructure can bring additional resources to their patients and be utilized in a non-disruptive way to support other stakeholders missions (e.g. public health.

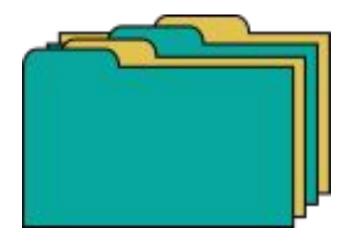
Value Add of Non-9-1-1 Prevention Programs

- MIH/CP
- Program 1
- Program 2



Why it matters: Increases the partnership, relevancy, viability and funding of existing or potential MIH/CP programs.

Prevention Portfolios



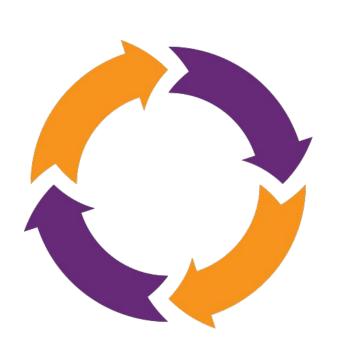
Prevention Portfolios:

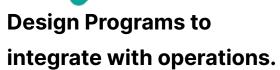
- Based on EMS data demonstrating interface with EMS and potential program partnership.
- Augmented to EMS operations in non-disruptive, value adding ways.

Prevention Portfolios

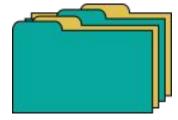


Evaluate EMS Data and Partnership Opportunities for viable programs.



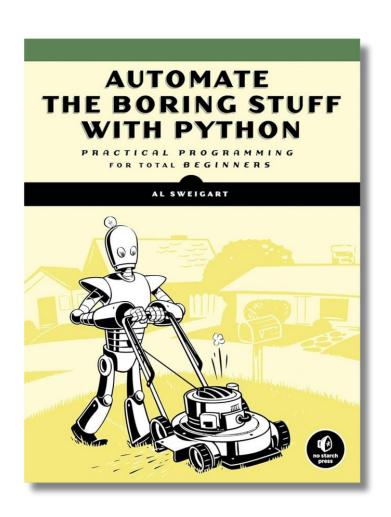






Operating programs become portfolio.

Opportunities with Technology



- Require technology vendors to build solutions that support the vision of EMS organizations.
- Automate the evaluation of EMS data for potential programs and partnership..
- Use new tools, like AI, to more easily and effectively build dynamic programs and portfolios.

Simon Taxel

Paramedic Crew Chief and Public Safety Diver,
Pittsburgh Bureau of EMS
Bloomberg Fellow, Johns Hopkins Bloomberg School of
Public Health

Pittsburgh EMS Harm Reduction Resources



- Optimized strategy for overdose management
- Utilization of prehospital buprenorphine
- Supply naloxone and fentanyl test strips
- Distribution of recovery service information



Pittsburgh EMS Harm Reduction Resources



- Warm hand off to UPMC addiction medicine outpatient treatment
- Implementation of SBIRT for patients with non-urgent medical needs
- Co-response with social work/ peer support team
- Pilot project for HEP A vaccination



Q&A

Use Q&A function for Live Responses.





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THANK YOU!

Feedback & Questions nhtsa.ems@dot.gov