



# How Good Are Paramedics at Shadow-Boxing?

Developing a prehospital US program

Nick Simpson, MD FACEP FAEMS

**No financial  
disclosures**





A prehospital US  
program needs:

C - champions

S - storage

F - feedback



# Select Champions



## Engage respected MDs

Identify influential physicians to champion the program and provide medical oversight.



## Empower command staff

Secure buy-in from command staff to allocate resources and enforce protocols.



## Recruit skilled medics

Select motivated and skilled medics to serve as mentors and trainers.

A diverse group of champions will ensure successful adoption and sustainability.

# Program Champions



Dr. Aaron Robinson  
Emergency Physician and  
EMS Medical Director



Chief Kyle Koelln  
EMS Battalion Chief of  
Operations



Chief Kent Koelln  
EMS Battalion Chief of  
Operations



Spencer Schwartz  
P3 Program Lead and  
Hennepin EMS Paramedic



Hailey Kennedy  
P3 Program Lead and  
Hennepin EMS Paramedic



Sam Hanes  
P3 Program Lead and  
Hennepin EMS Paramedic

# Image Storage Options: Pros and Cons



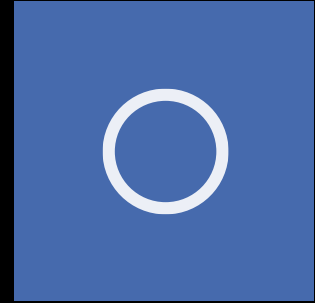
## Cloud Storage

- Monthly Fee
- + No physical space/servers required
- + Accessible from anywhere
- + Allows for QA/feedback



## Local Storage

- Potential Upfront cost
- Need physical space/servers
- +/- Possibly accessible through VPN
- + Allows for QA/feedback



## No Storage

- + No cost
- + No physical space/servers required
- Does not allow for QA/feedback

\*Unrealistic for growth of program and skill level of prehospital personnel

# education and qa -> Feedback

## Initial Planning

Establish robust quality assurance processes and feedback loops.

## Initial Roll Out

Identify a smaller group of interested personnel to utilize ultrasound in the field.

Review 100% of ultrasound images by experienced physicians/sonographers.

## As the paramedic champions gain experience

Empower paramedic champions to create educational material and participate in the QA process.

## More mature program

Expand ultrasound devices to the entire service.

Utilize ultrasound champions to oversee the QA process with select images forwarded to MDs as needed.



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[Link to access Hennepin EMS Protocols](#)



# hennepin ems

701 Park Ave, Minneapolis MN 55415



(612) 873-5678



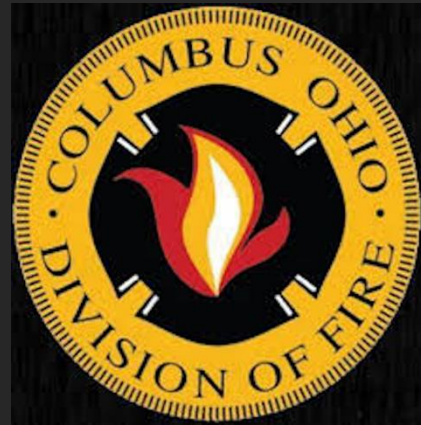
[hennepinems.org/](https://hennepinems.org/)

Nick Simpson, MD



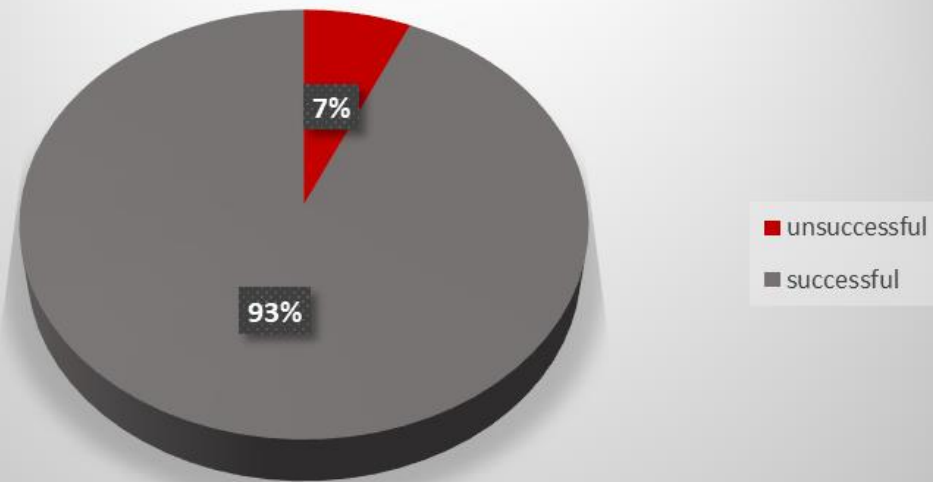
[nick.simpson@hcmcd.org](mailto:nick.simpson@hcmcd.org)

# *Glidescope: the first 100 uses*

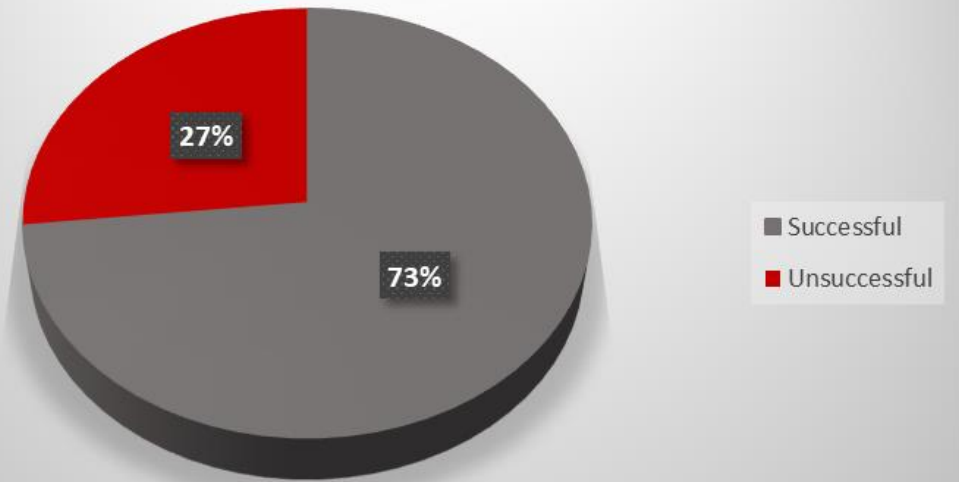


# *Intubation and First Pass Success Rate*

**Intubation Success Rate**



**First Pass Success Rate**



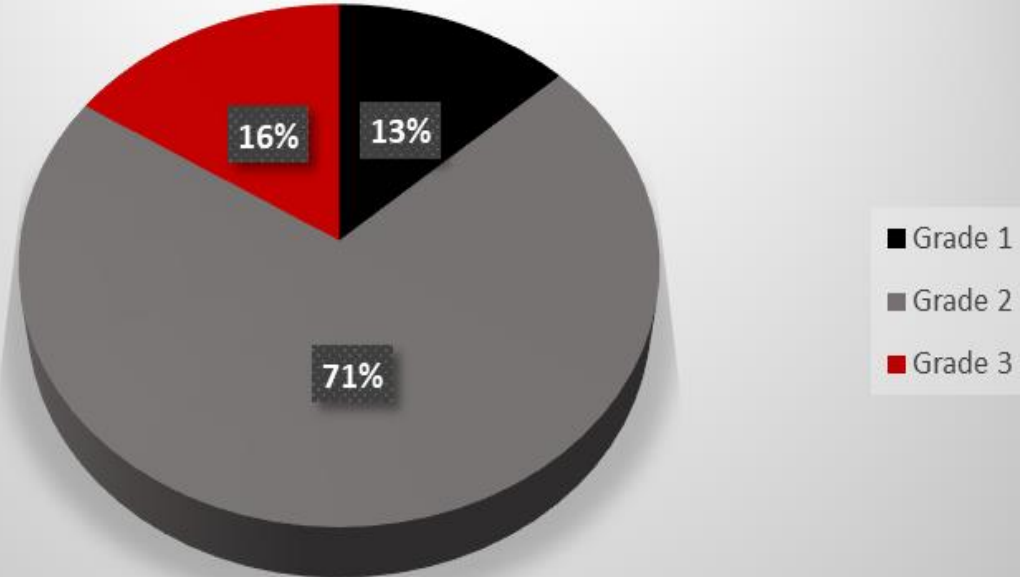


# *What did we need to train out of our providers to enhance Video intubation success*

- Don't sweep the tongue
- Review of anatomy
- A good view vs. an OK view

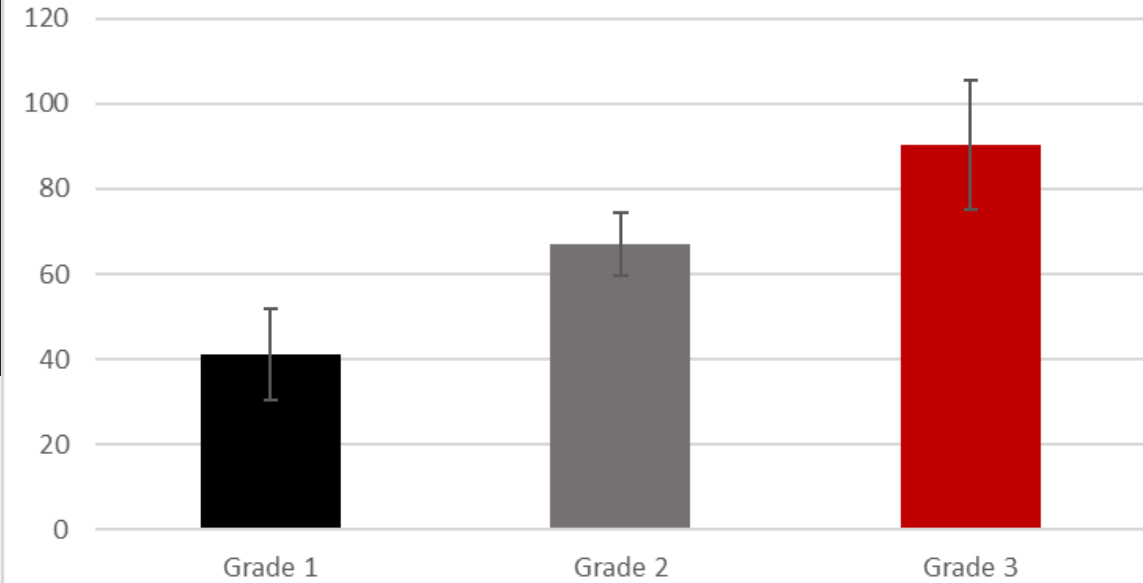
# *Evaluation of Intubations by View\**

Percentage of Intubations by View

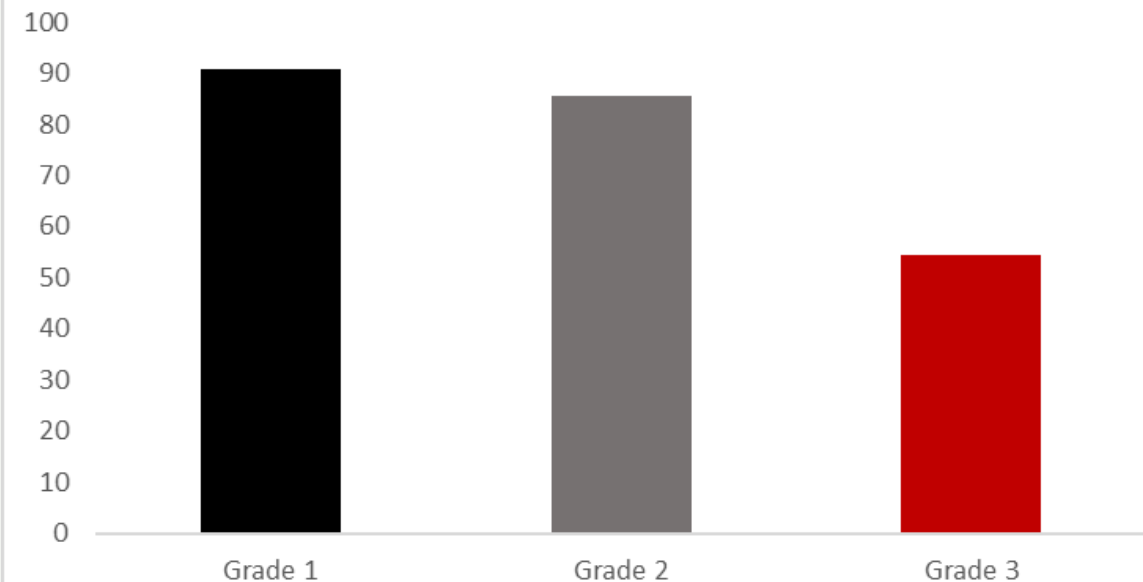


\* Lehane-Cormack grade

Time to Intubation (Seconds)



First Pass Success by View Grade (%)

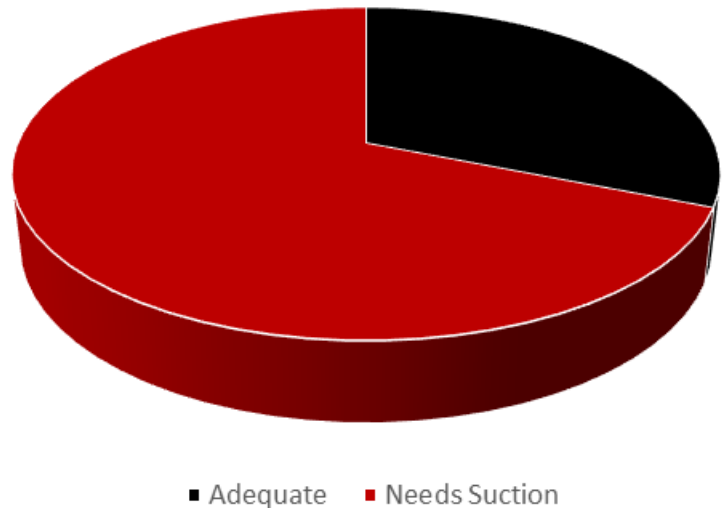


# *What else did we learn about our providers intubation technique*

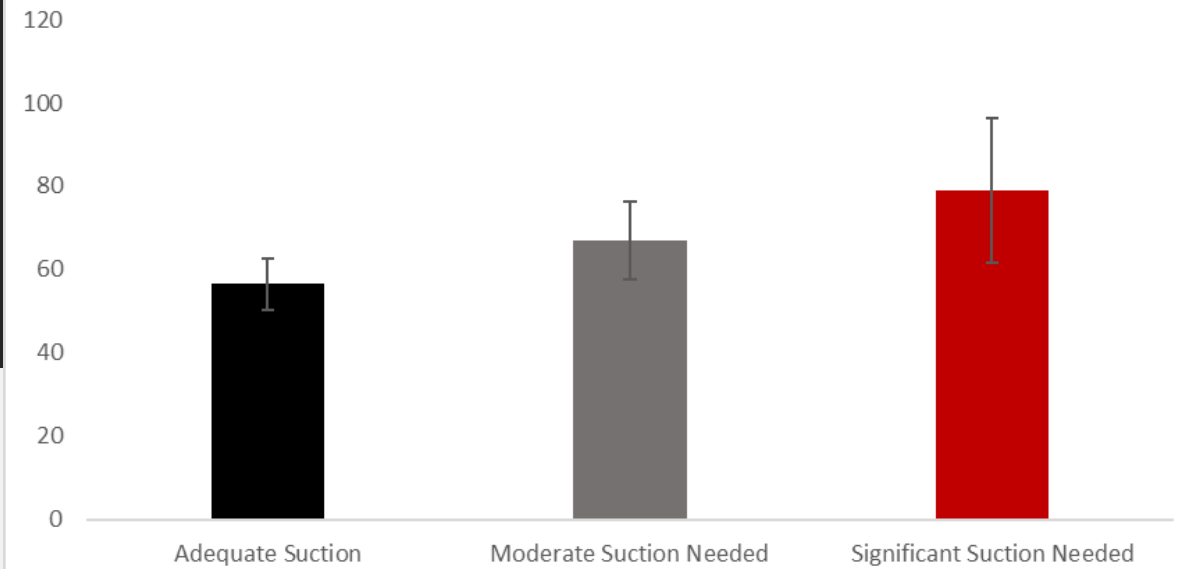
- Suction!
- Greatly needed and greatly underutilized

# *Problems that influence the view: Suction*

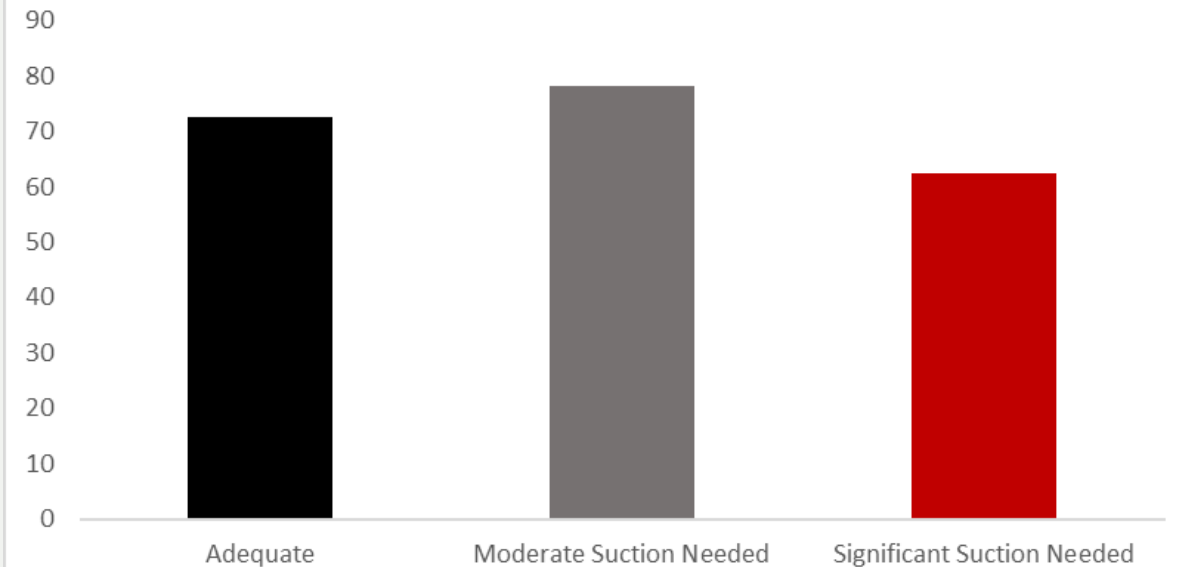
Percentage of Intubations requiring additional suction



Time to Intubation (seconds)



First pass success rate by suction needed (%)





# *Overall Recommendations*

- **Optimize your view** – pull back if in too deep and cannot visualize epiglottis and reposition into vallecular space
- **Midline approach** – tongue is not off to the side
- **Suction, suction, suction** – can make an adequate view severely compromised



VS.



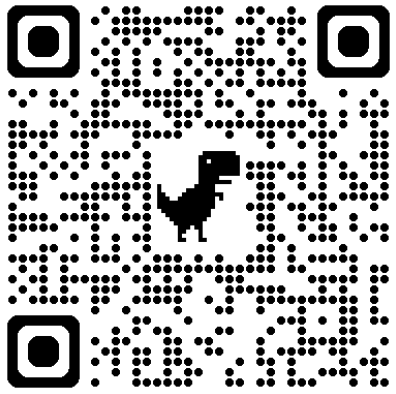
# EMS Educational Initiatives In New Mexico

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Can We  
Extend The  
Dinner Table  
Conversation?







# Weekly AFR Case Studies



AFR Case Studies: Mountain Rescue



ALBUQUERQUE FIRE RESCUE  
6.26K subscribers

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15



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AFR Case Studies: Hypothermic Arrest  
ALBUQUERQUE FIRE RESCUE  
311 views • 1 year ago

## Case Studies

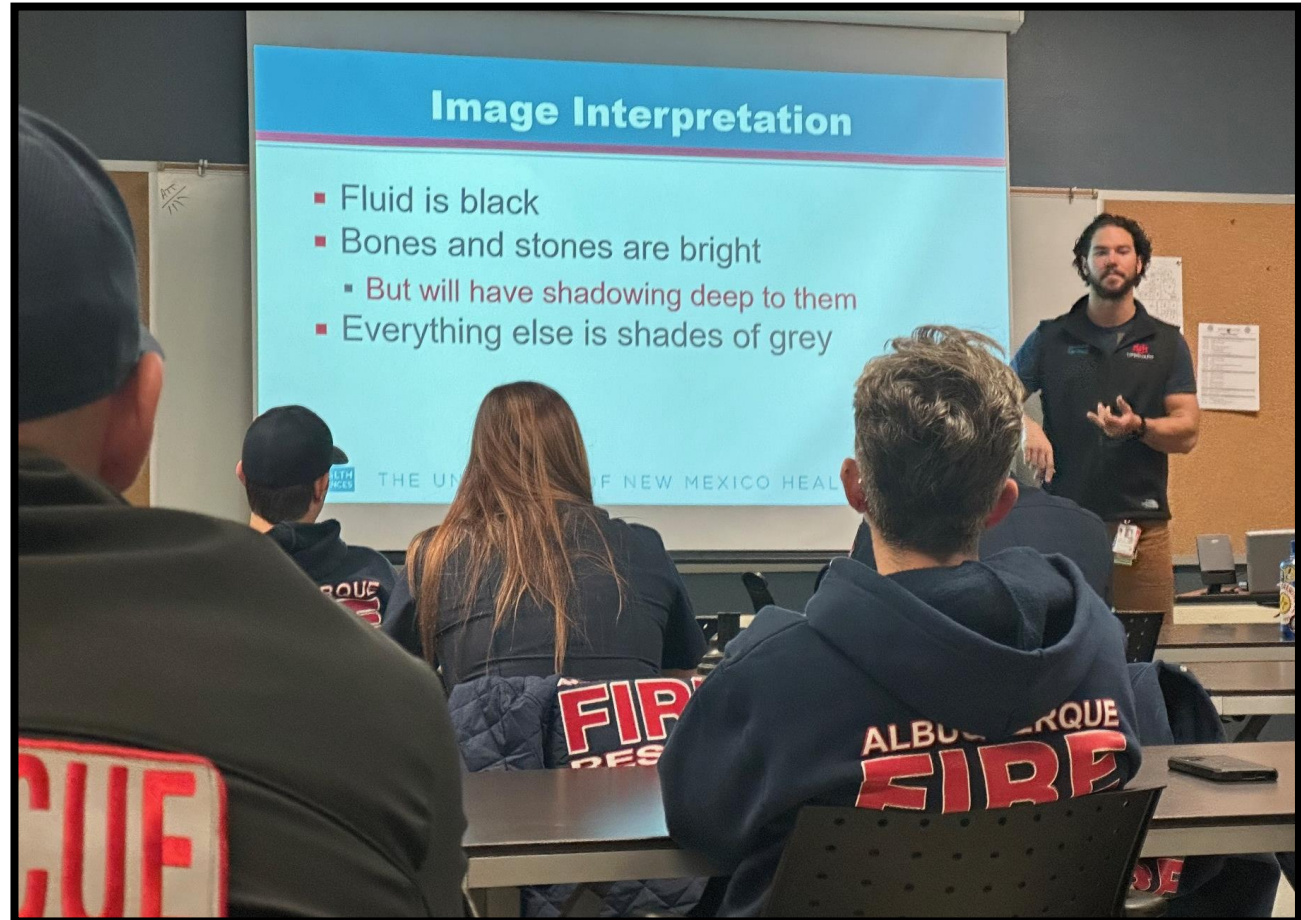
ALBUQUERQUE FIRE RESCUE - 9 / 47



- 12 Field Delivery 14:13 ALBUQUERQUE FIRE RESCUE
- 13 AFR Case Studies: Tranq Overdose 14:53 ALBUQUERQUE FIRE RESCUE
- 14 AFR EMS Case Study: Approach to Behavioral Health 26:31 ALBUQUERQUE FIRE RESCUE
- 15 AFR Case Studies: V-Tac Cardioversion 11:25 ALBUQUERQUE FIRE RESCUE
- 16 AFR Case Studies: Stimulant SVT 10:47 ALBUQUERQUE FIRE RESCUE
- 17 AFR Case Studies: Hyperthermic Arrest 11:53 ALBUQUERQUE FIRE RESCUE
- 18 AFR Case Studies: Infant Overdose 18:07 ALBUQUERQUE FIRE RESCUE
- 19 AFR EMS Case Studies: Droperidol use on the fire... 10:20 ALBUQUERQUE FIRE RESCUE
- 20 AFR Case Studies: Head Trauma 12:50 ALBUQUERQUE FIRE RESCUE



How Can We  
Get EM  
Residents More  
Interaction With  
EMS Providers?



# We All Like To Learn From Our Patients...But Sometimes Getting Follow Up Is Difficult

The way in which I am able to get follow-up currently include:	Count (n=667)
I am not currently able to get follow-up	82 (12.3%)
A formal process through my EMS agency	219 (32.8%)
Asking my medical director	229 (34.4%)
Asking a friend or colleague at the hospital	365 (54.7%)
Other	116 (17.4%)
No Response (i.e., did not select any of these options)	1 (0.1%)

Barriers to being able to currently get follow-up on patients I care for include:	Count (n=667)
No standardized process at my EMS agency	414 (62.1%)
Don't feel comfortable asking my medical director	117 (17.5%)
Not enough time	140 (21.0%)
Too busy at work	166 (24.9%)
I don't find it useful	15 (2.2%)
Other	146 (21.9%)
No Response (i.e., did not select any of these options)	4 (0.6%)

## EMS PROVIDERS

Wondering what happened to a patient you brought to UNM/SRMC?

REQUEST PATIENT FOLLOW-UP  
WITH THIS FORM



<https://redcap.link/unmemsfollowup>

**NM**  
HOSPITAL

**NM**  
EMS CONSORTIUM

# How Can We Extend The Reach Of The University Medical Center?

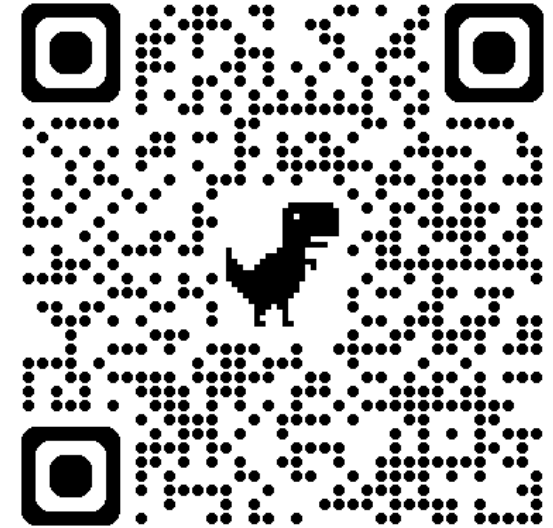
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# Rural and Tribal EMS ECHO

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- BLS lectures on the 1<sup>st</sup> Tuesday and 3<sup>rd</sup> Thursday
  - Accommodate volunteer FF schedule
  - Average 42 participants from 12-15 agencies
- CAPCE accredited to issue CEs
  - Can watch the video later for asynchronous CE credit
- Incorporates EMS Fellows into didactics





## 3 dead, 5 injured as biker gang shootout erupts in Red River, New Mexico

"There will be a zero tolerance from this point on," said the police chief.

By [Kevin Shalvey](#), [Amanda M. Morris](#), [Abigail Shalawlyo](#), and [Bill Hutchinson](#)

May 28, 2023, 11:46 AM



3 dead, 5 injured during motorcycle rally in New Mexico

Police said three people were killed and five others hurt during a shootout between two outlaw biker ga... [Show More](#)