

**JEREMY DEWALL, MD, FAEMS, NRP**

# **BRINGING BACK THE PHYSICIAN HOUSE CALL**

**EMS Integration to Provide Emergency Medicine Care in the Home**

# FINANCIAL DISCLOSURES

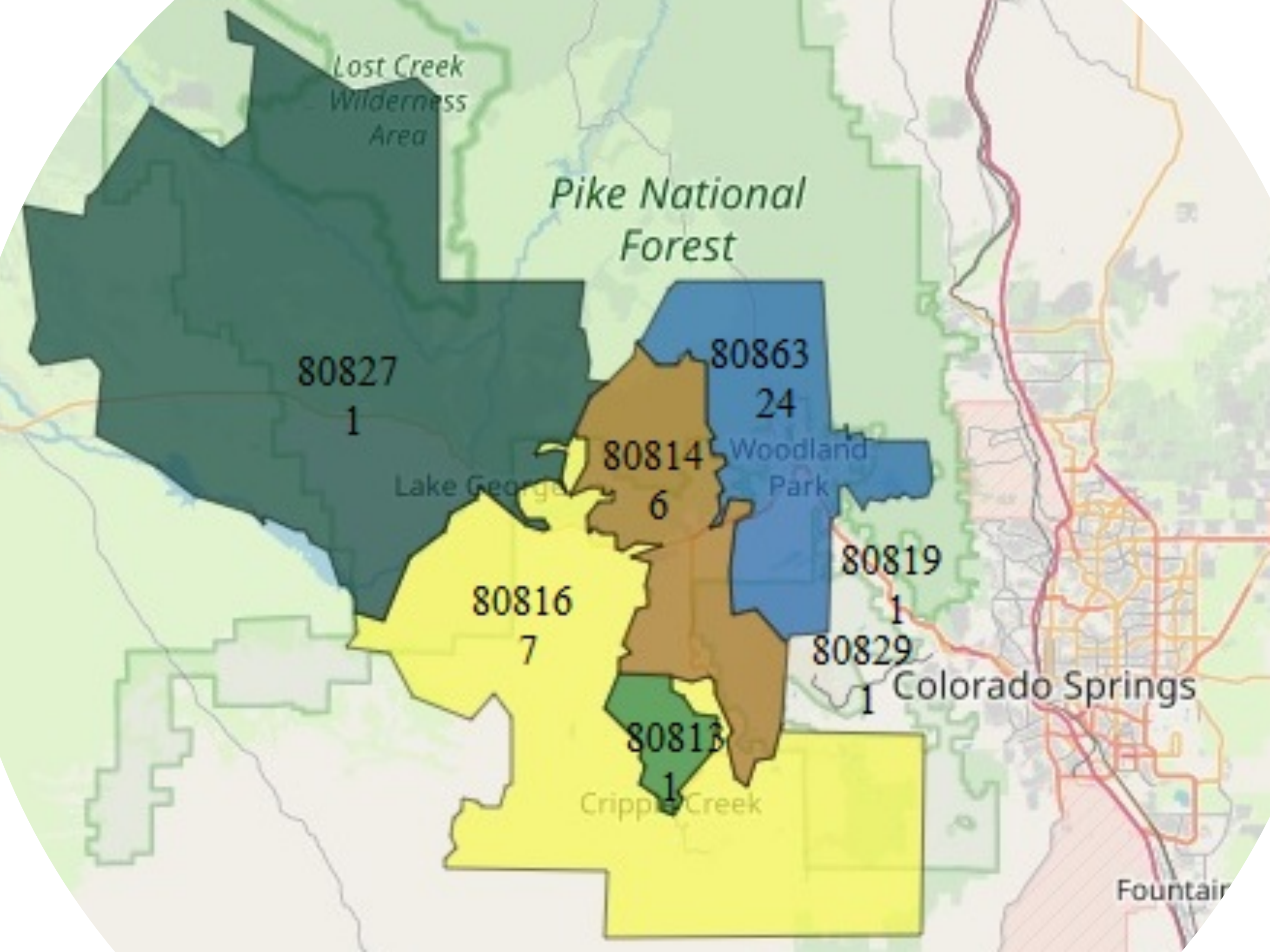
I work for both an EMS agency & emergency medicine group that is currently piloting EMS telehealth in southern Colorado.

A specific video telemedicine platform will be heard in videos in this presentation. This platform is used within our system for connecting the telehealth program. Other platforms exist as well.



# OBJECTIVES

- **Discuss the role of EMS clinicians of all levels in providing home telehealth options**
- **Define the challenges and opportunities for extending emergency medicine care into the home**
- **Demonstrate the ability of EMS to breakdown healthcare disparity**

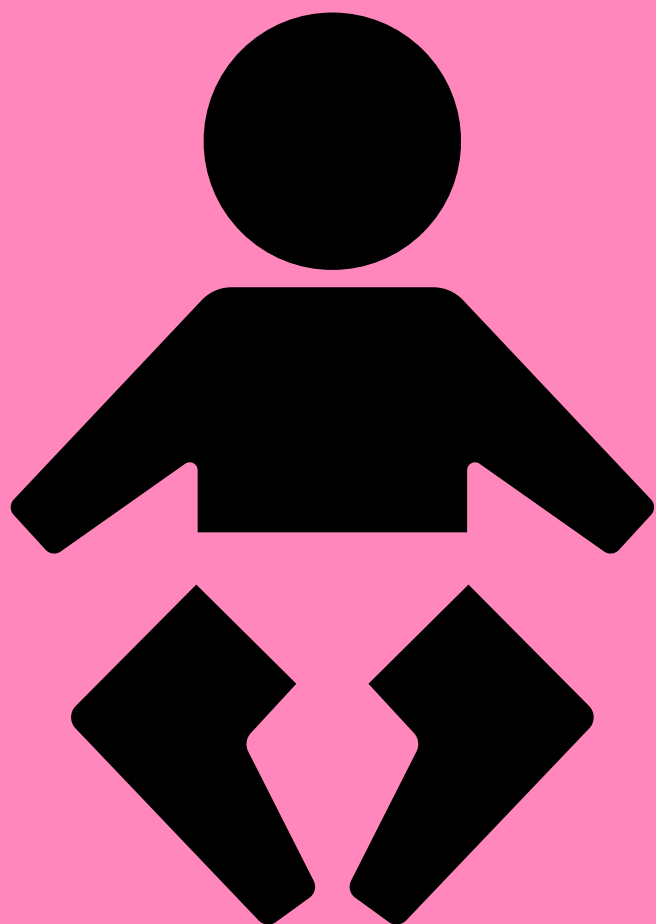


**“ENABLING OUR EMS CLINICIANS TO  
PROVIDE THE BEST POSSIBLE CARE TO  
OUR CITIZENS AND VISITORS NO  
MATTER WHERE”**

**Think  
about  
this...**







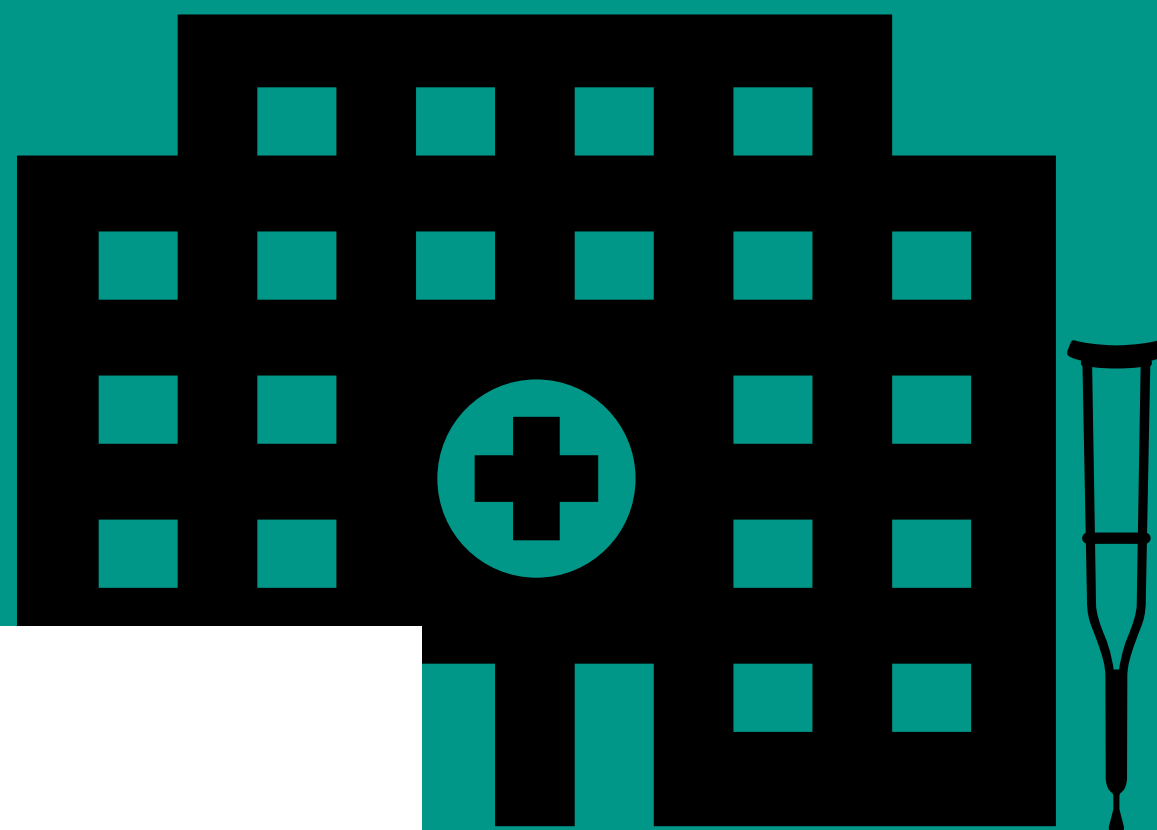


















# CHALLENGES

- Can we do this?
- Should we do this?
- What do we need?
- Is it worth the time commitment on scene?
- *Does this REALLY benefit our patients?*



# REAL OPPORTUNITIES

**CAN WE?**



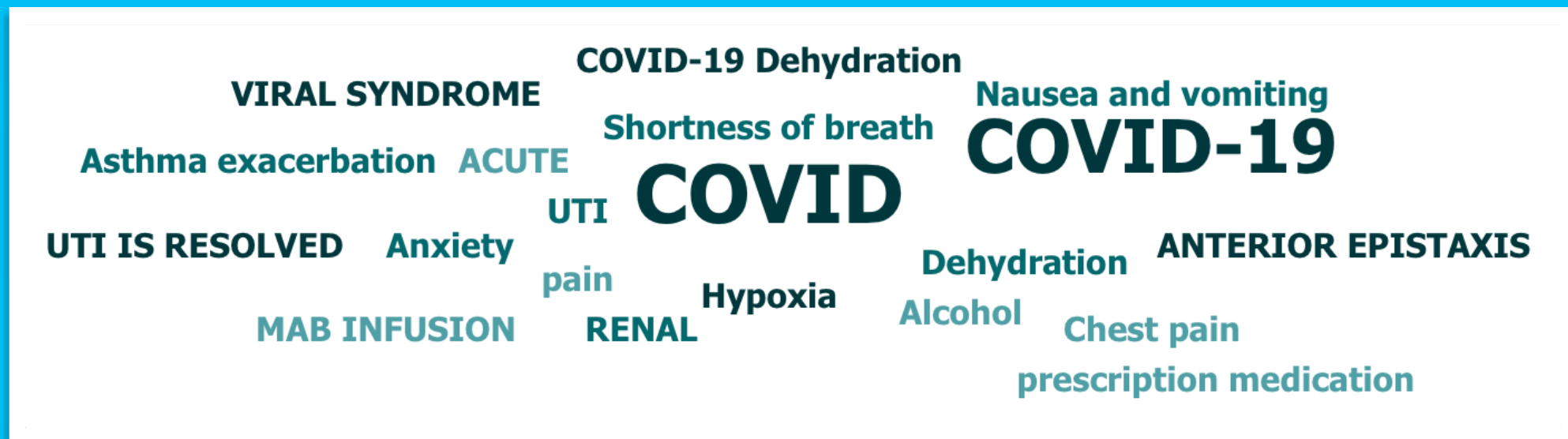
**COMMUNITY  
PARAMEDIC**



**EMT**

# REAL OPPORTUNITIES

SHOULD WE?

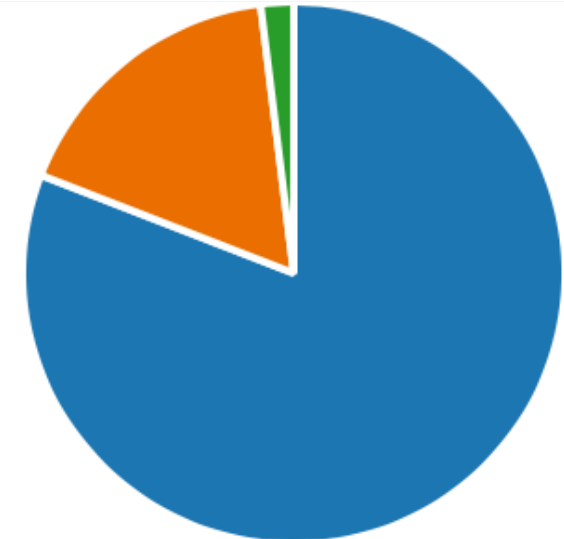


# REAL OPPORTUNITIES

## SHOULD WE?

**DOES THE PATIENT HAVE A PRIMARY CARE PHYSICIAN?**

Yes	165
No	35
Did not obtain	4

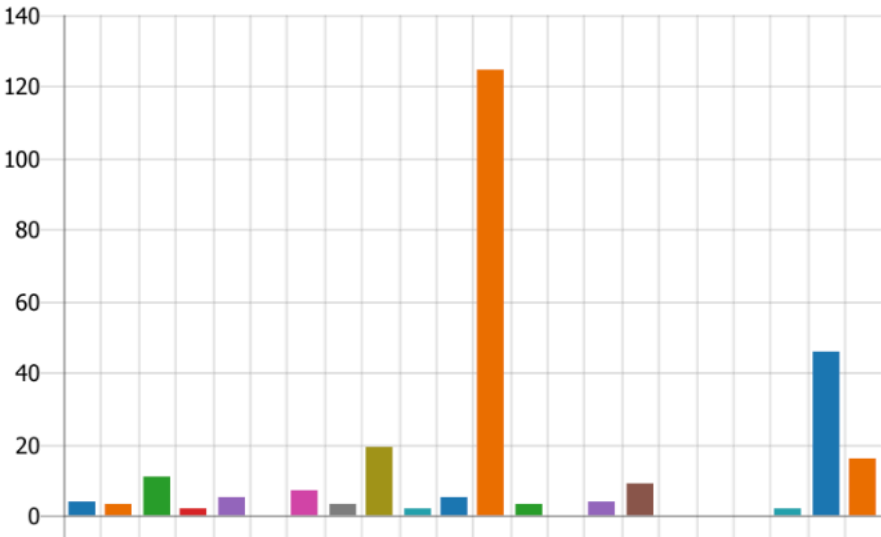


# REAL OPPORTUNITIES

## SHOULD WE?

### REFERRALS PROVIDED

Agency on Aging	4
Aspen Mine Center	3
Behavioral health	11
Colorado Community Health A...	2
Department of Health & Huma...	5
HOPE unit	0
Medication Assisted Treatment...	7
Meals on Wheels	3
New primary physician (PMD)	19
Occupational therapy	2
Other case manager(s)	5
Patient's current primary care ...	125
Physical therapy	3
Public Health	0
Social work	4
Specialist physician	9
Speech therapy	0
Traumatic brain injury (TBI) clinic	0
The Independence Center	0
The Resource Exchange	2
None	46
Other	16

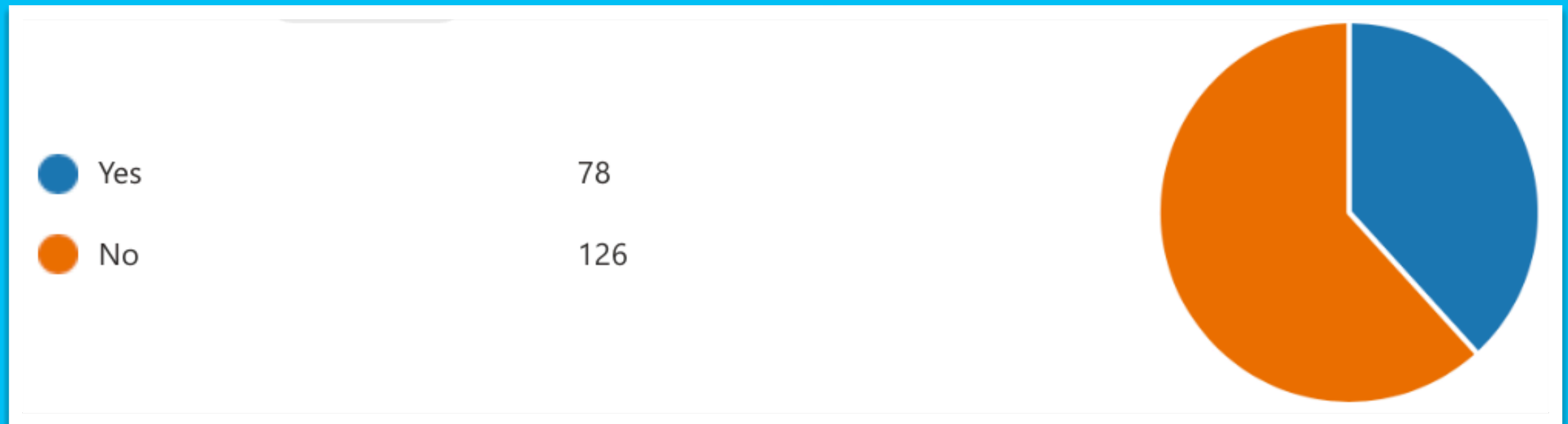




# REAL OPPORTUNITIES

## SHOULD WE?

**DID THE PATIENT RECEIVE A PRESCRIPTION?**



# REAL OPPORTUNITIES

SHOULD WE?

A word cloud of various medical terms and drug names. The words are arranged in a horizontal, somewhat overlapping manner. The colors range from light blue to dark blue. The font sizes vary, with 'Zofran' and 'Keflex' being the largest. The words are: Tessalon pearls, lasix, Prednisone, DOXYCYCLINE, PEPCID, PHENERGAN, Oxygen, Albuterol, Zofran, Keflex, DECADRON, Hydroxyzine, Flexeril, Augmentin, Tessalon, Reglan, SPRAY/LEVAGE, IV Infusion, SALINE NASAL, ALBUTEROL INHALER.

Tessalon pearls lasix  
PHENERGAN Oxygen Prednisone DOXYCYCLINE PEPCID  
Albuterol Zofran Keflex DECADRON  
Hydroxyzine Flexeril Augmentin Tessalon Reglan  
SPRAY/LEVAGE IV Infusion SALINE NASAL ALBUTEROL INHALER

# REAL OPPORTUNITIES

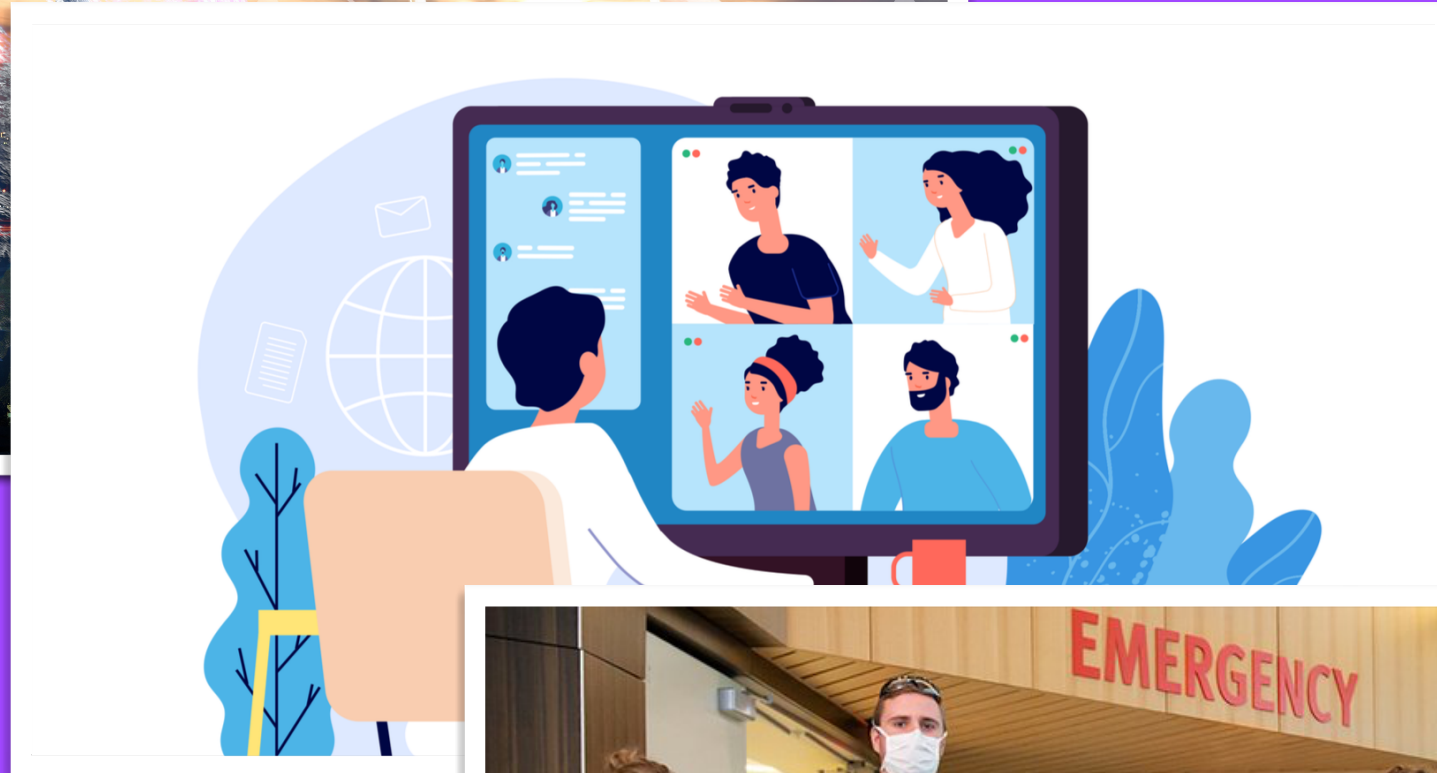
**WHAT** *is needed?*





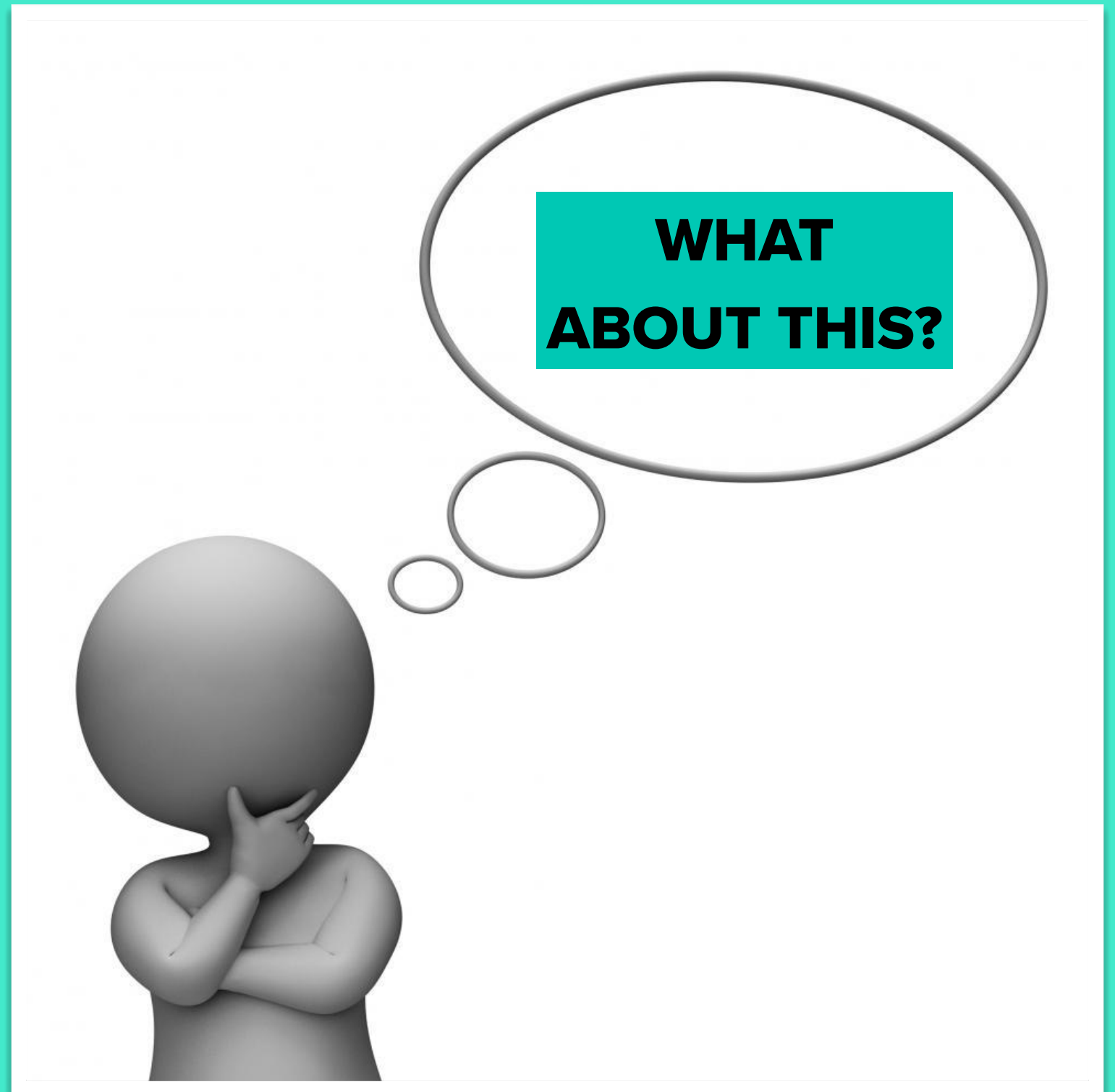
# REAL OPPORTUNITIES

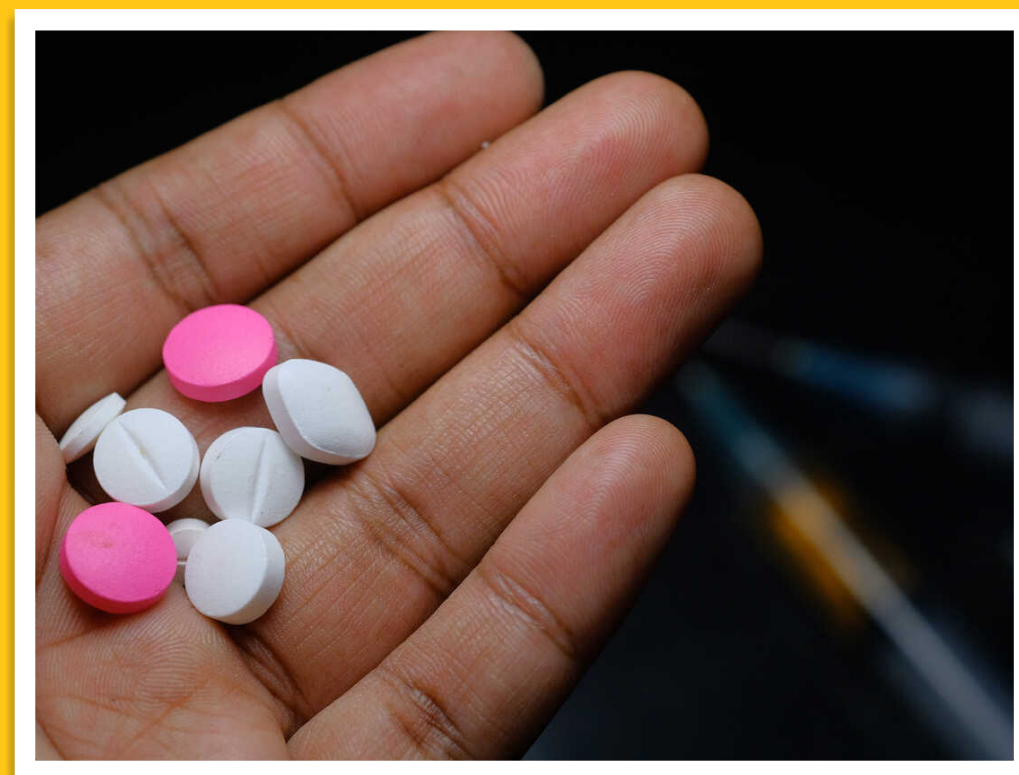
**WHAT** *is needed?*



# REAL OPPORTUNITIES

*Is it worth our time?*















# REAL OPPORTUNITIES

**Does this REALLY benefit our patients?**

"On a scale of 1-100, they were a 101. They were all wonderful people who are trained and practiced in empathy."

"Extremely helpful, especially for people in my situation, as my husband is unresponsive and comatose and incredibly difficult to transport."

"Absolutely amazing. Everyone at UPRAD was phenomenal, it is great that you are offering this service especially in COVID times."

"The best people I've ever seen. Amazing people."

"They helped point me in the right direction...I was just pleased that they had it available."

"It was ok, it was nice not having to get out and go. It was much better, actually, at the time."

"Very good, I didn't know this kind of thing existed. I'm in a wheelchair and it's hard getting me places."

"Very efficient, very thoughtful. Excellent job"

"It was overall good, it would be helpful in emergency situations, I was in an emergency and couldn't get to the hospital. It was quick and easy."

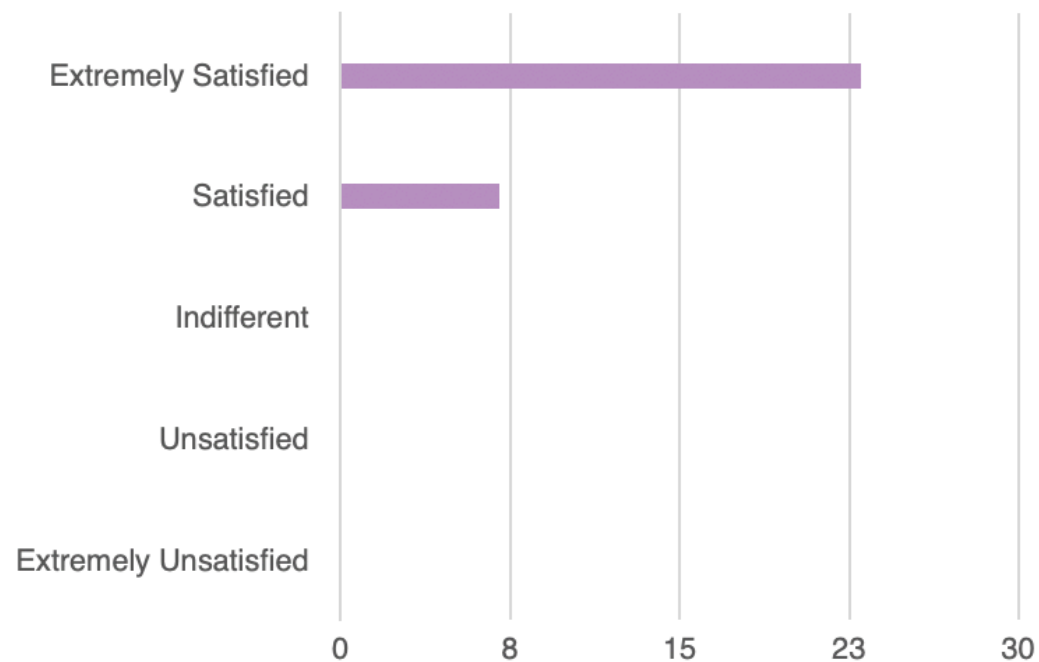
"They were awesome. Nice people."

"It was pleasurable and if it could have kept me from going to the emergency department that would have been awesome."

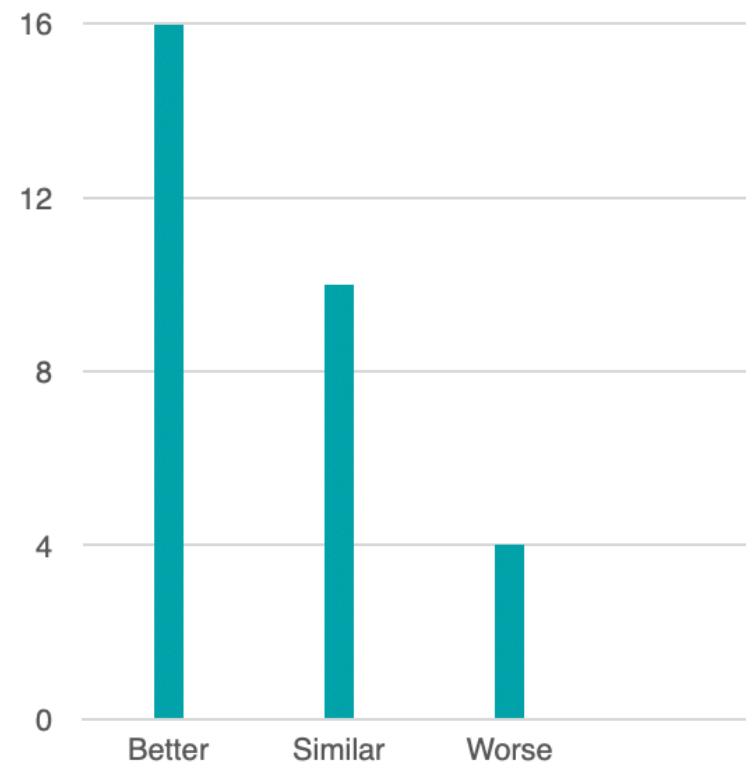
# REAL OPPORTUNITIES

***Does this REALLY benefit our patients?***

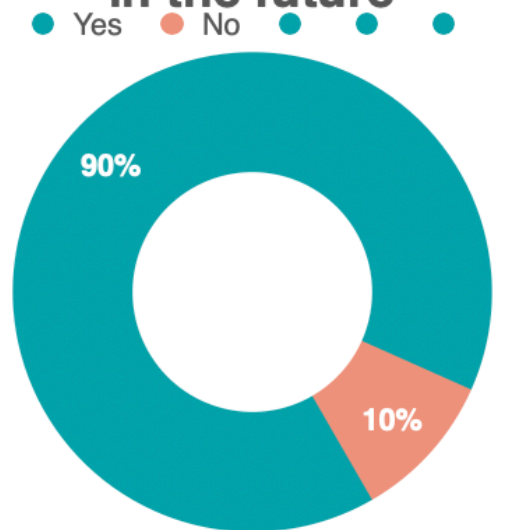
Patient Satisfaction



Compared to ED Visit



Would use  
telemedicine again  
in the future



# REAL OPPORTUNITIES

*Does this REALLY benefit our patients?*



**28%**

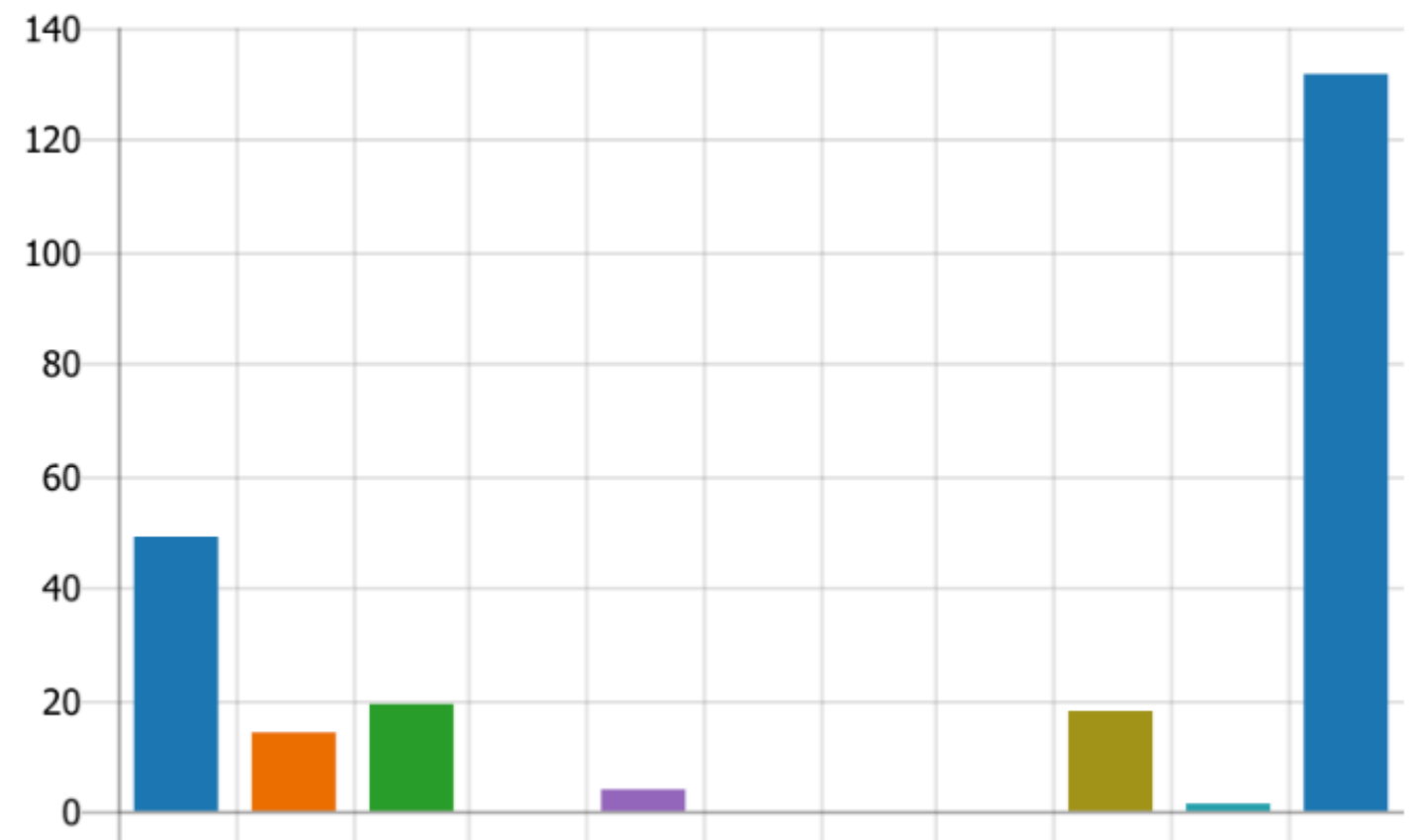


**65%**

# ADDITIONAL CARE

## PREHOSPITAL LABS

PICCALO CMP	49
H&H blood draw	14
Urine analysis (medical)	19
Urine pregnancy	0
Breathalyzer	4
Toxicology screening (blood)	0
Urine toxicology	0
Strep Test	0
COVID-19 sample	18
Other oral or nasal secretions	1
None	132



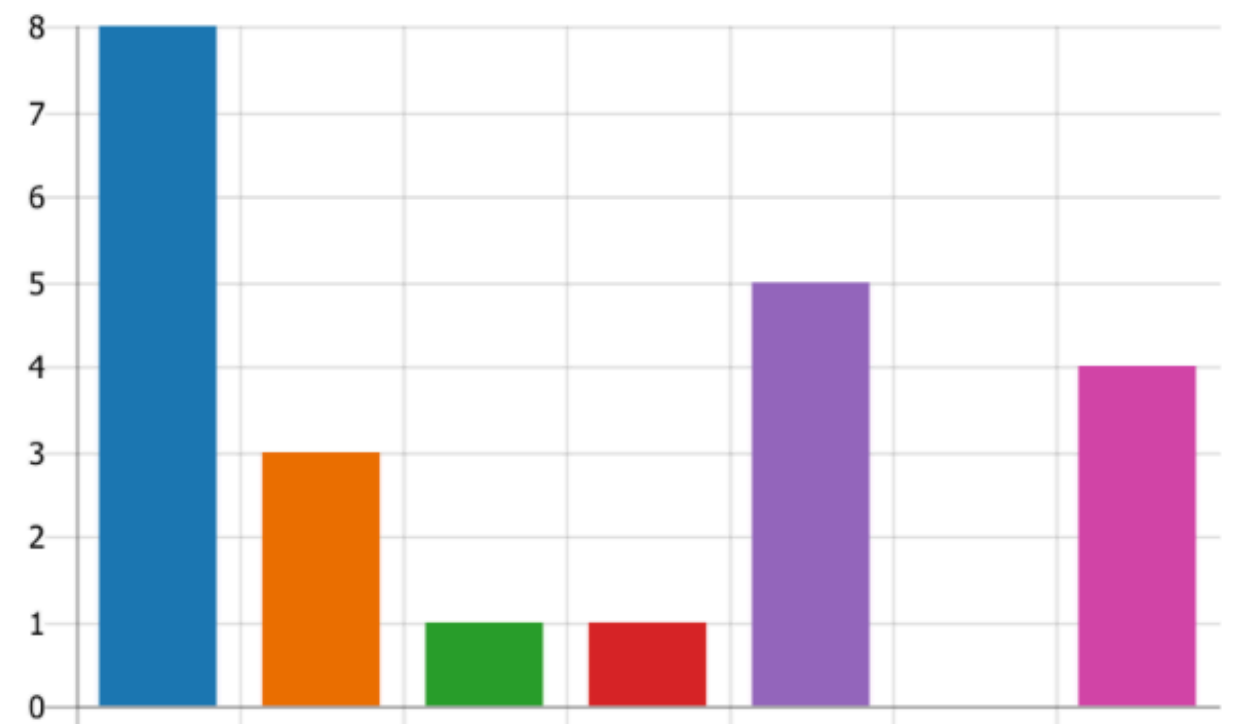
# ADDITIONAL CARE

## SCREENING, BRIEF INTERVENTION, & REFERRAL TO TREATMENT

Positive	15
Negative	187
Did not perform	2



Medication Assisted Treatmen...	8
Mental Health Assessment Pr...	3
Primary psychiatric care	1
Referred psychiatric care (new...	1
Primary care physician (PMD)	5
Suboxone (X-Waiver)	0
Other	4



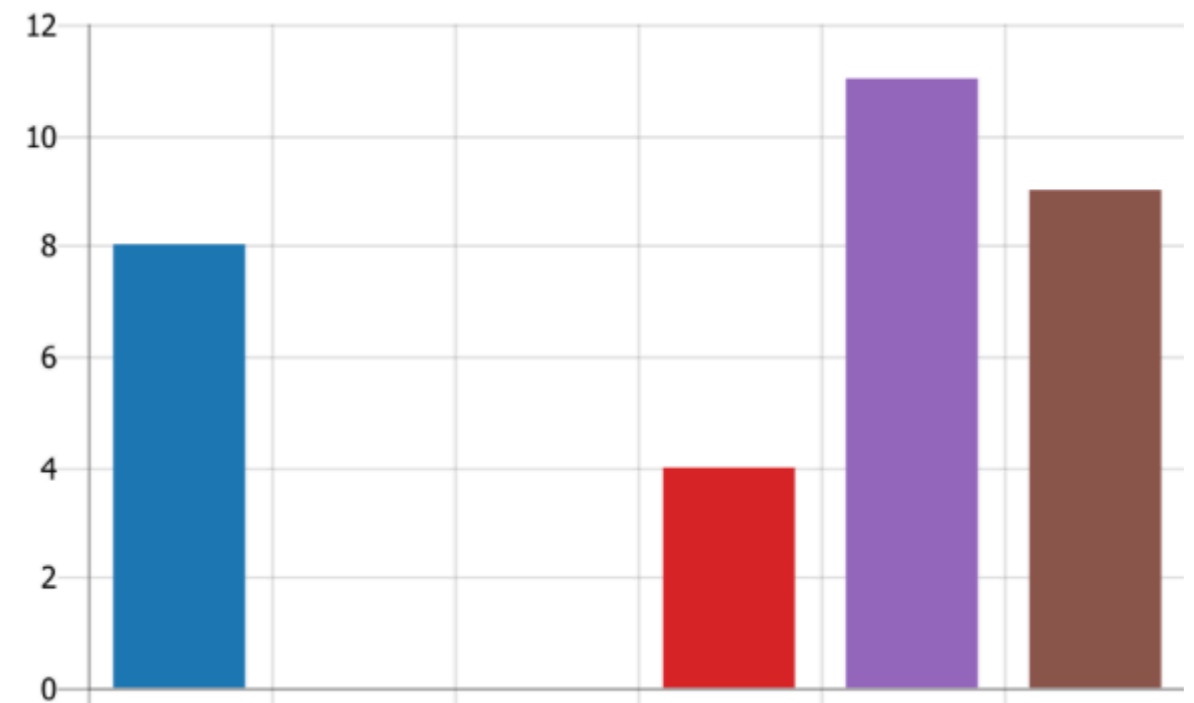
# ADDITIONAL CARE

## FALL RISK ASSESSMENT & MITIGATION

Positive	22
Negative	147
Did not perform	35



Mitigated on scene by EMS al...	8
Mitigated on scene with Fire ...	0
Mitigated on scene with Law a...	0
Referred to local agency on a...	4
Patient & family have effective...	11
Referred to Step-Up program	9



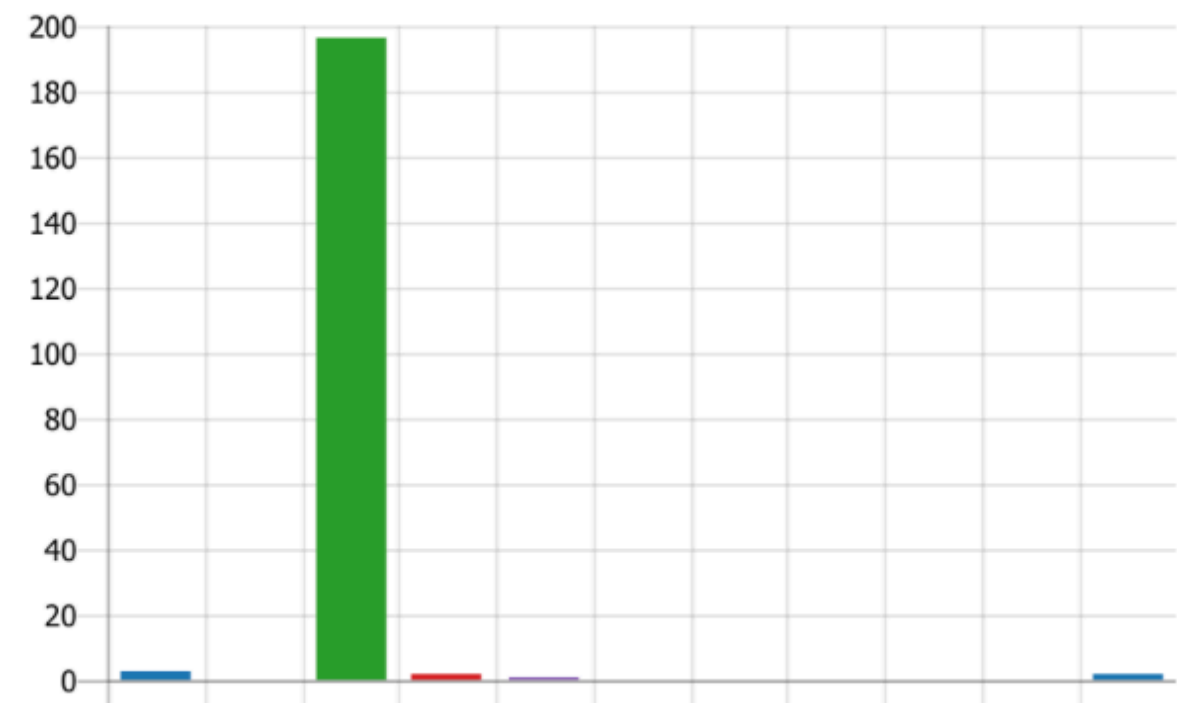
**“OF ALL FORMS OF INEQUALITY,  
INJUSTICE IN HEALTH CARE IS THE  
MOST SHOCKING AND INHUMANE”**

**DR. MARTIN LUTHER KING**

Male	92
Female	112
Turner syndrome	0
Ambiguous	0
Unknown	0

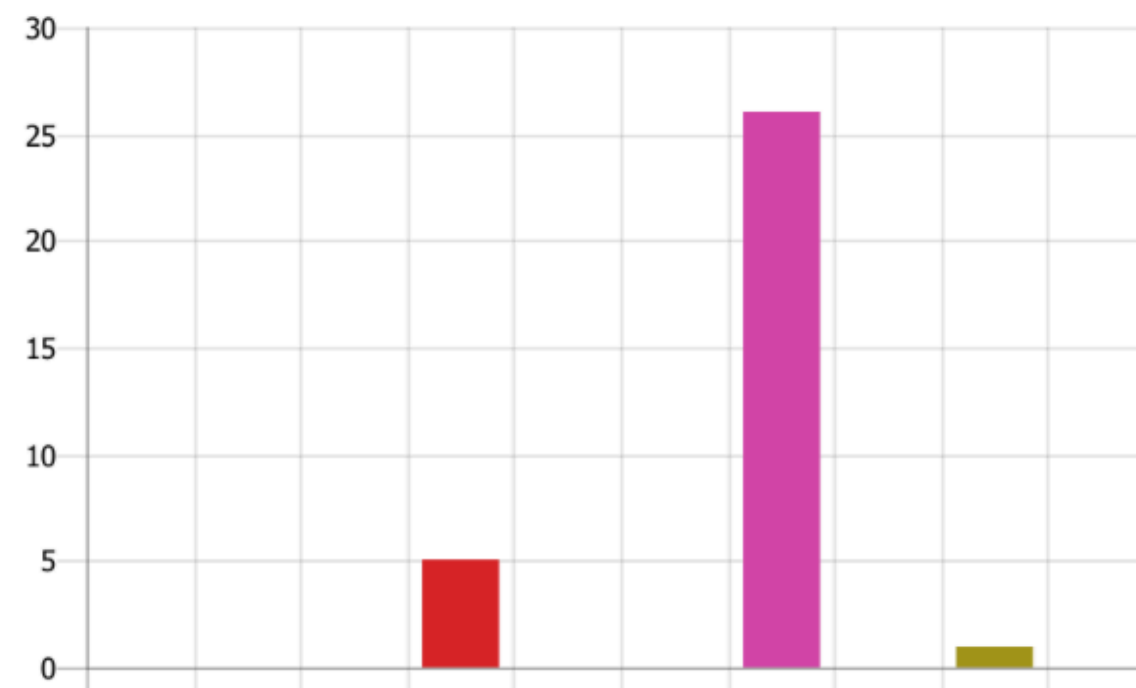


Asexual	3
Bisexual	0
Cis-gender (identifies with bio...)	196
Gay / male gay	2
Gender in transition	1
Intersex	0
Lesbian / female gay	0
Queer	0
Questioning	0
Pansexual	0
Other	2





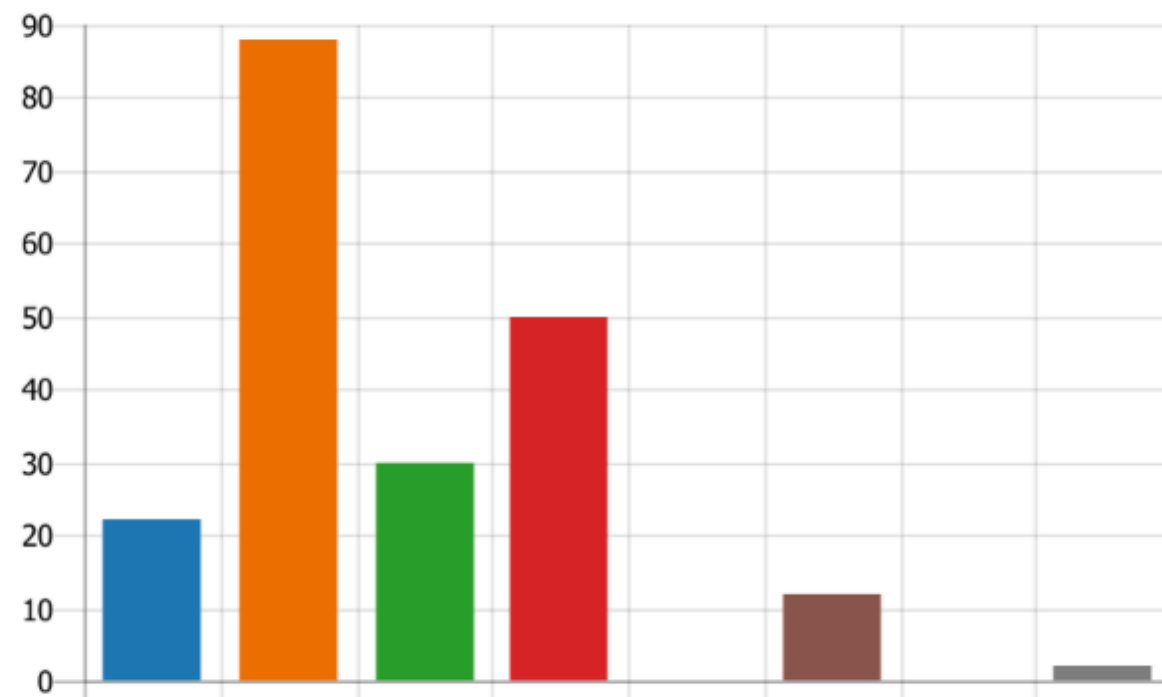
<span style="color: #0056b3;">●</span> American Indian & Alaska Nat...	0
<span style="color: #ff7f0e;">●</span> Biracial & Multiracial	0
<span style="color: #2ca02c;">●</span> Black / African American	0
<span style="color: #d62728;">●</span> Hispanic & Latinx	5
<span style="color: #9467bd;">●</span> Middle Eastern, North African,...	0
<span style="color: #8c564b;">●</span> Native Hawaiian & Pacific Isla...	0
<span style="color: #e377c2;">●</span> Non-hispanic White	26
<span style="color: #7f7f7f;">●</span> South Asian	0
<span style="color: #bcbd22;">●</span> Prefer not to say	1
<span style="color: #17becf;">●</span> Other	0



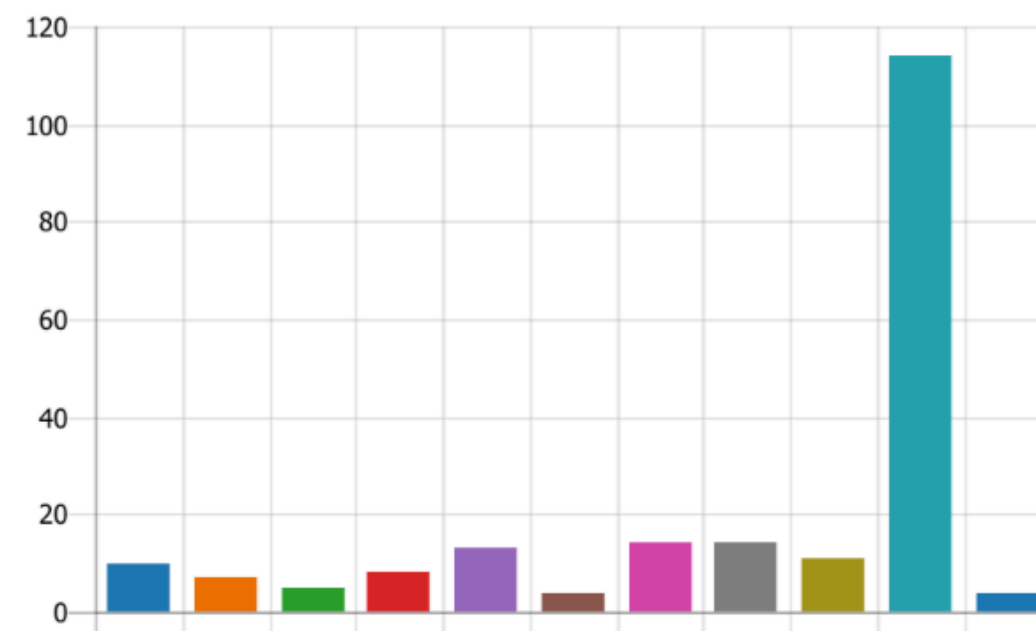
**“THE WELFARE OF EACH IS  
BOUND UP IN THE WELFARE OF  
ALL”**

**HELEN KELLER**

Self pay	22
Medicare	88
Medicaid	30
Private (BCBS/United/Kaiser/e...	50
CHP/CICP	0
Federal (Tricare/VA/etc.)	12
Not collected	0
Other	2



N	10
A	7
B	5
C	8
D	13
E	4
F	14
G	14
H	11
I	114
Did not obtain	4



# TAKE HOME POINTS

- Any level EMS clinician can provide emergency telehealth in the home\*
- Challenges quickly transform in to opportunities for EMS clinicians, patients, and communities with emergency telehealth
- EMS can work directly with board-certified emergency medicine physicians to breakdown barriers to healthcare



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**FURTHER DISCUSSIONS: [JEREMY.DEWALL@UCHEALTH.ORG](mailto:JEREMY.DEWALL@UCHEALTH.ORG)**