

LEXINGTON FIRE DEPARTMENT

Community Paramedicine Update
October 2018



LEXINGTON



Background

- Assistance to Firefighters Grant (AFG)
 - \$277,431 total project
 - \$252,210 Federal Monies/\$25,221 Local Monies

- 2017 LFD EMS made 48,238 EMS Incidents
 - Identify Super-utilizers
 - Defined as 10 or more incidents per year
 - 233 persons accounted for 4,113 EMS incidents



First Six Months

- Went Live March 1, 2018
- Engaged nearly 200 Patients
- Working to Reduce Dependence on EMS/Emergency Departments



Lessons Learned

- Large group of super-utilizers are Homeless
 - Developed working relationship with Office of Homelessness Prevention/Polly Ruddick

- Substance Abuse Prevalent
 - Developed working relationship with Department of Social Services/Amy Baker

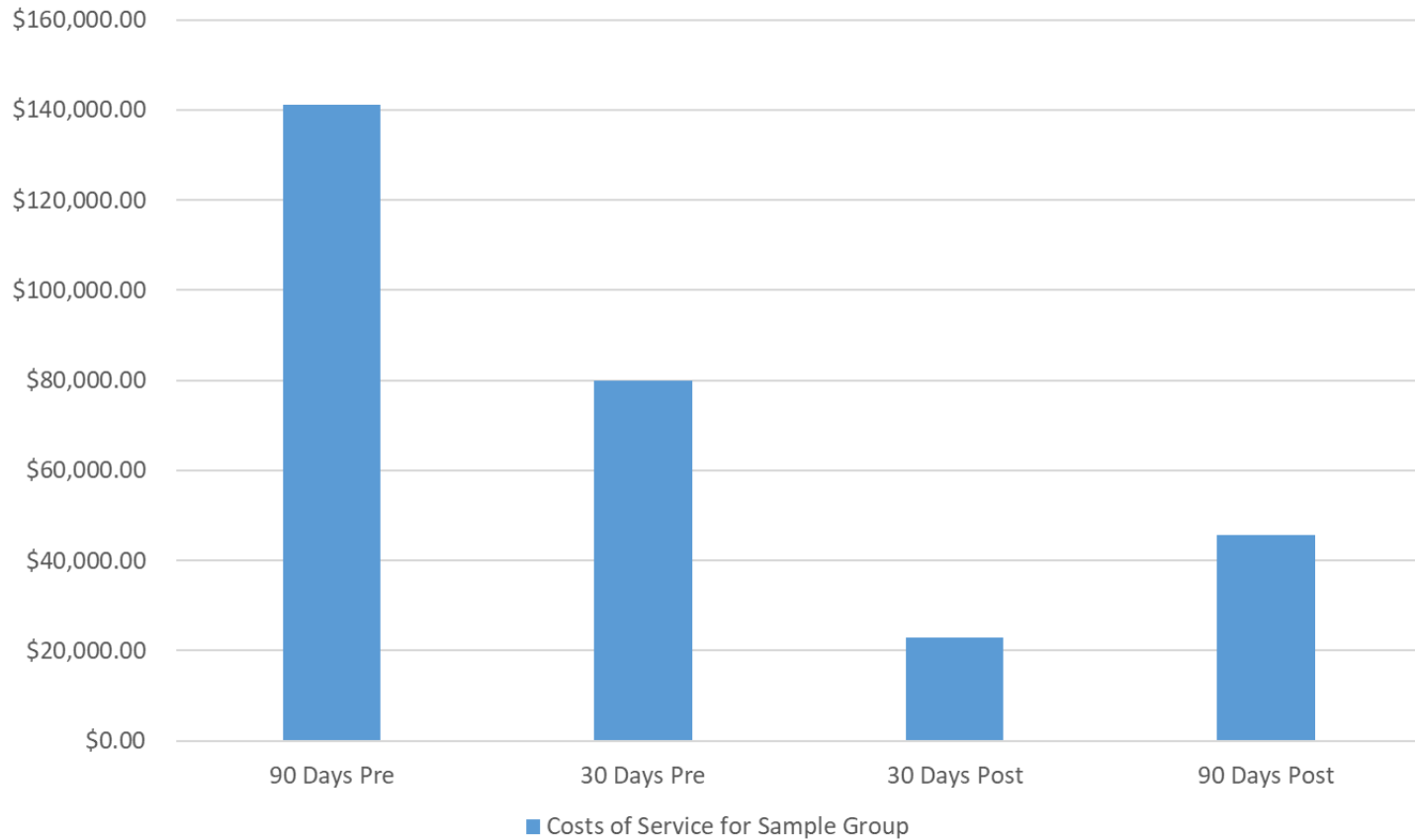
- Mental Health Prevalent
 - Added team member, LPD Officer Alejandro Zaglul



43 Patient Sample Group

N=43 patients	EMS Run Data Pre and Post Engagement			
	90 days Pre	30 Days Pre	30 days Post	90 Days Post
# of EMS Runs	297	168	48	96
Average/Patient	6.9	3.9	1.1	2.3
Overall Change			-120 (-71%)	-199 (-67%)
Change/Patient			-2.8 (-71%)	-4.6 (-67%)

Costs of Service for Sample Group





Sample Group Cost Benefit

- A comparison of the pre 90 day intervention data to the post 90 day intervention data represents a **cost reduction** for the delivery of EMS services of up to **\$94,586.69**.
- With an average ER visit = \$2000, **the 90 day post intervention realizes a \$280,000 reduction in basic Emergency Room expense for the patient.**
- After Community Paramedicine intervention the 43 patient sample group's reduced need for service has a **net total healthcare system cost reduction of \$374,586.69**.
- As a side benefit, the total run volume of Lexington ambulances is decreased this year compared to 2017 YTD. There has been a reduction of approximately 1% YTD. This is significant, when compared from the run volume from 2013 to 2017 when the run volume increased 44% (6-8% each year). There is a relative reduction of 7-9% this year compared to 2017. (1% actual reduction).



Patient Examples

- Patient called for an ambulance 15 times from February 21 through March 15, 2018. Community Paramedicine initiated contact on March 15. Coordinated with Case Manager from KentuckyOne Health, went to primary care appointment (son was present too). Informed PCP the number of times that he has been transported. Since March 15, there have been two transports. Moved in with son.
- Patient with 27 EMS runs with 22 transports from mid-March to mid-September. We got involved in late August. With the assistance of Officer Zaglul, she has gotten placement in to a shelter which is allowing her medications to be regulated. She is healthier and hasn't been transported since the middle of September.



Going Forward

- Increase Collaboration
 - Grant awarded assigning a Social Worker to the Program
 - Attachment of Officer Zaglul to the Program

- Increase Staffing\Funding
 - Overtime will be allocated to extend the 2 current Community Paramedicine Program members in the Division Fire past the expiration of the initial grant
 - Request for 4 permanent positions for the Fire Department in the next fiscal year to solidify the Program

Questions?



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