





EMS Reform

FEMS • OUC • MPD • DOH • DHCF



October 4, 2016

Agenda



1. Overview of EMS Reform

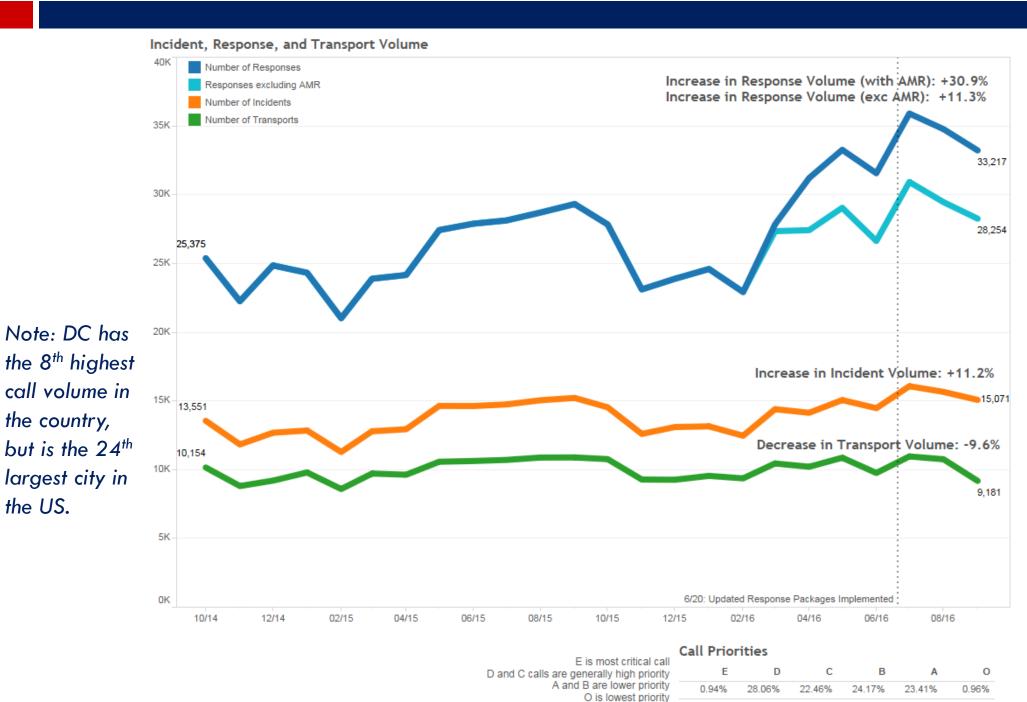
2. Strategies

- 1. Improve dispatch performance and emergency medical services call-taking times
- 2. Reduce Demand for EMS by Individuals with non-Emergency Medical Needs
- 3. Enhance provider quality through research, training and continuous improvement
- 4. Build and maintain a sustainable emergency medical services fleet
- 5. Increase district resident and visitor knowledge about life saving EMS techniques
- 3. Recommendations wrap up





EMS Incident Volume, Response Volume, Transport Volume





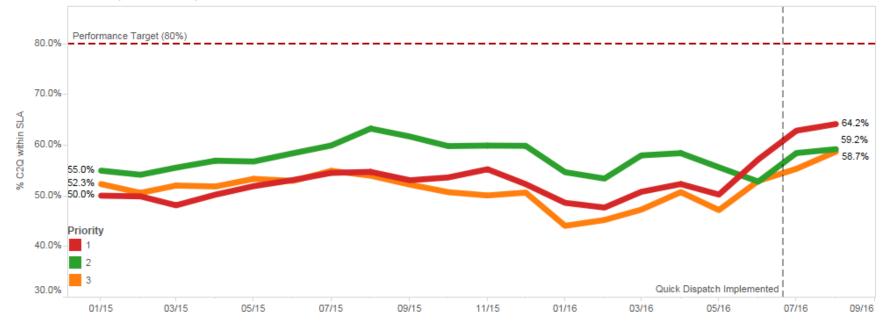


Improve dispatch performance and emergency medical services call-taking times

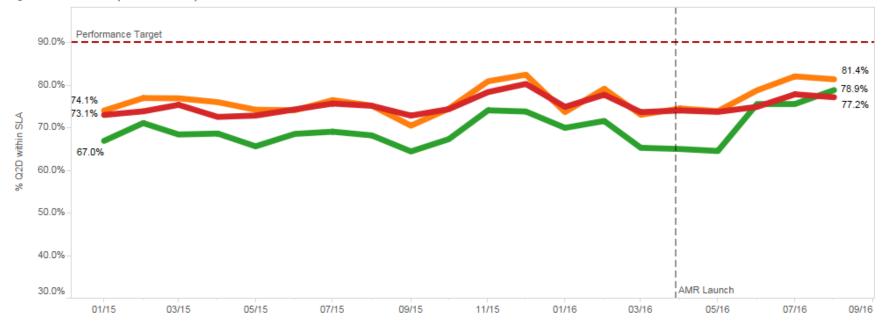
Call to Dispatch Times Breakdown January 1, 2015 – September 26, 2016



C2Q Over Time (90 Seconds)

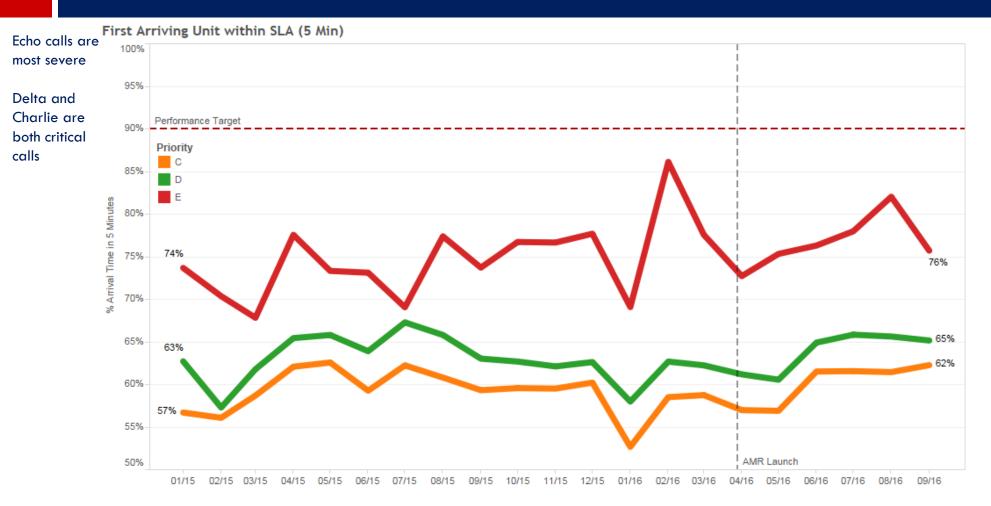


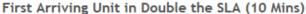
Q2D Over Time (60 Seconds)



First Arriving Unit within SLA January 1, 2015 – September 26, 2016



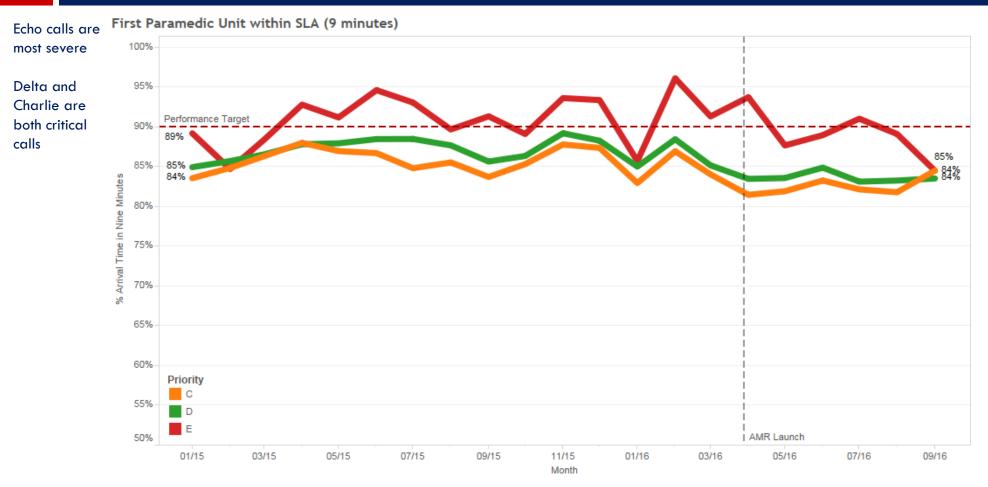




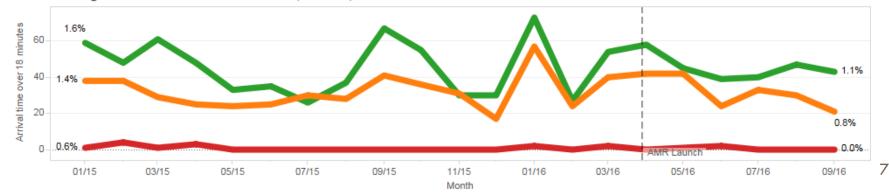


First Arriving Paramedic within SLA January 1, 2015 – September 26, 2016



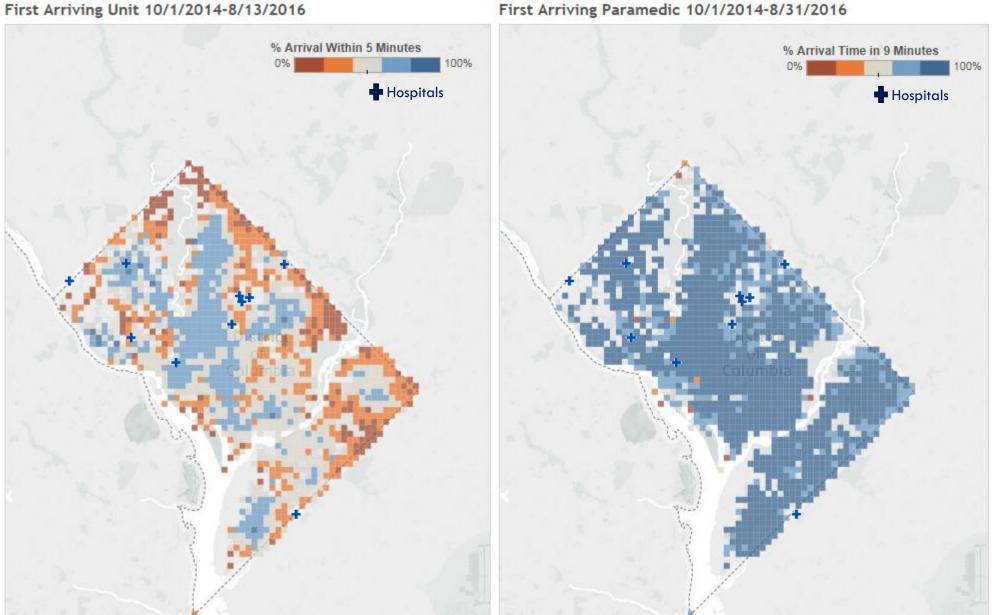






Percent of Time Units Arrive within SLA

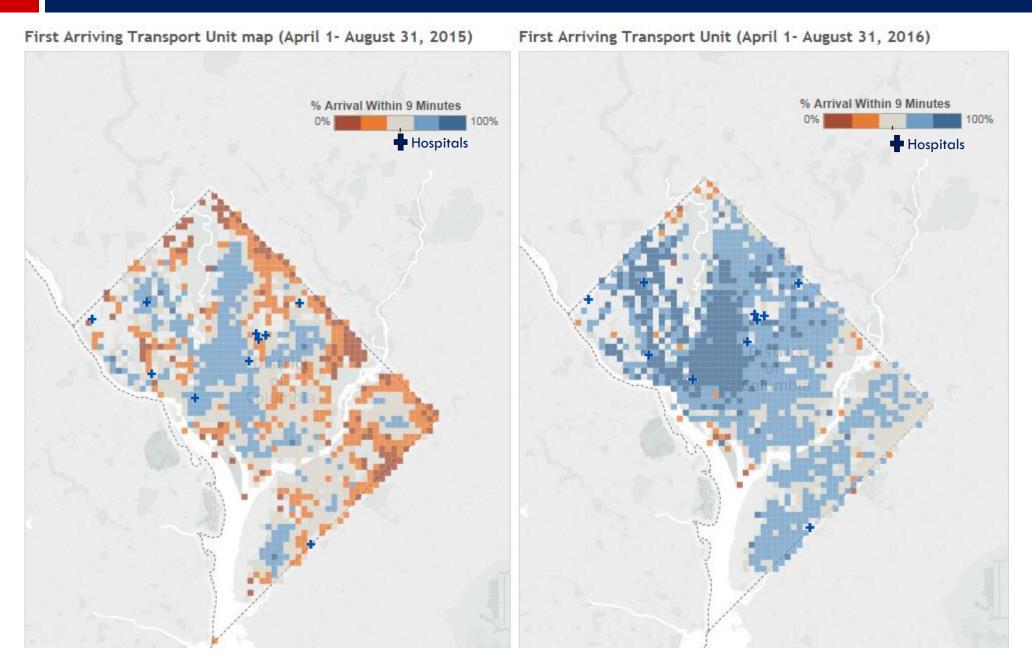




First Arriving Unit 10/1/2014-8/13/2016

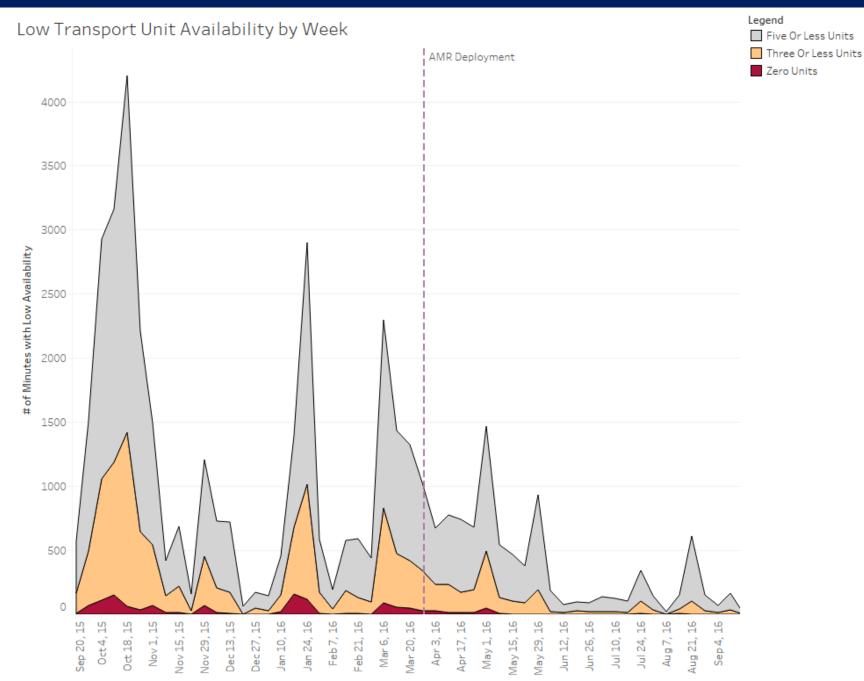
Percent of Time the First Arriving Transport Unit Arrives within SLA – Pre and Post AMR





Unit Availability





AMR Transports



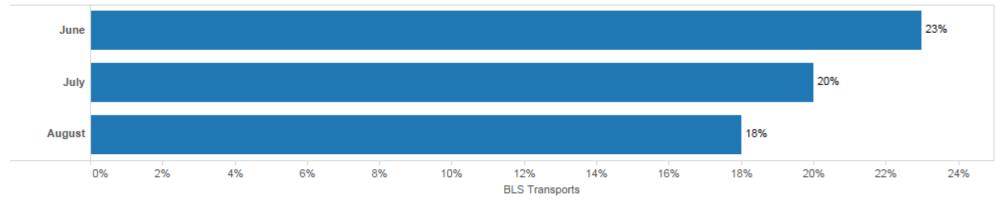
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AMR Deployments 4000 68% Transported 3500 by AMR 53% Transported 3000 by AMR 2500 2000 1500 1000 AMR Deployed, Priority A AMR Deployed, Priority B AMR Deployed, Priority O 500 Not Deployed, Priority A Not Deployed, Priority B Not Deployed, Priority O Protocol Change 0 May July March April June August



FEMS did an analysis of billing data to see when medic units are transporting patients but not providing any ALS interventions

Medics Transporting BLS Patients

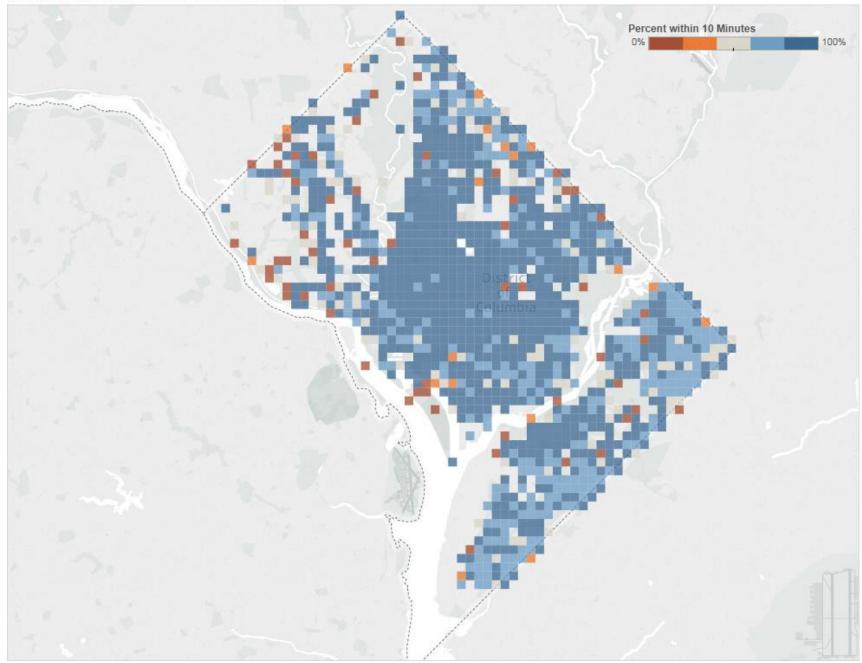


EMS needs to work internally and with OUC to ensure that ALS resources are being utilized appropriately for ALS patients.

Percent of time AMR Units arrive within SLA (by SMD)

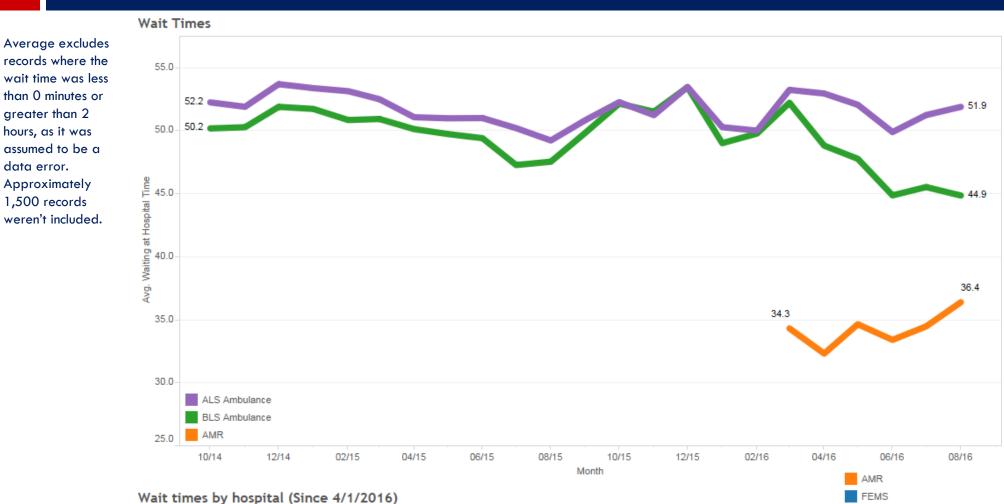


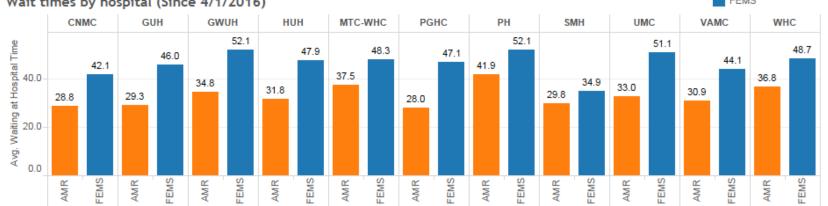
AMR Response Times within 10 Minutes Map



Hospital Drop Times







Challenges and Recommendations



Challenges

- Meeting SLAs for Call Queuing and Dispatch
- AMR has had a positive impact on transport unit arrival times, but still not meeting SLAs for first arriving unit, first arriving transport unit, and first arriving paramedic
- ALS providers are providing service to too many BLS patients, taxing resources
- Incident and response volume continue to rise
- FEMS drop time at hospitals remains consistently high
- AMR performance based contract was developed based on a lower number of anticipated calls

Recommendations	
Completed	Future
Call taker working group is meeting regularly to streamline the process of recording a 911 call and sending it to dispatch	Continue work with call takers and dispatchers working group to ensure calls are dispatched quickly and accurately
OUC and FEMS worked on the response packages for lower priority calls, and adjusted in mid June	 Keep working through dispatch packages so the right resources are sent to the right calls, with a focus on "Charlie" packages Do an analysis to determine why ALS providers may be transporting BLS patients; develop strategies to reduce BLS workload of ALS providers
FEMS is tracking AMR arrival times, but not currently penalizing AMR for not meeting the performance measures.	Develop ways to enforce performance based contract during times of increased call volume in updated contract
	FEMS and OCA to monitor and report on progress toward meeting SLAs for first unit on scene (90% in 5 minutes); and SLAs for first arriving paramedic and first arriving transport unit (90% within 9 minutes)
	Hire additional paramedics to be able to improve response times
	FEMS to work with emergency medical providers to understand why hospital drop times are high and develop strategies to lower drop times

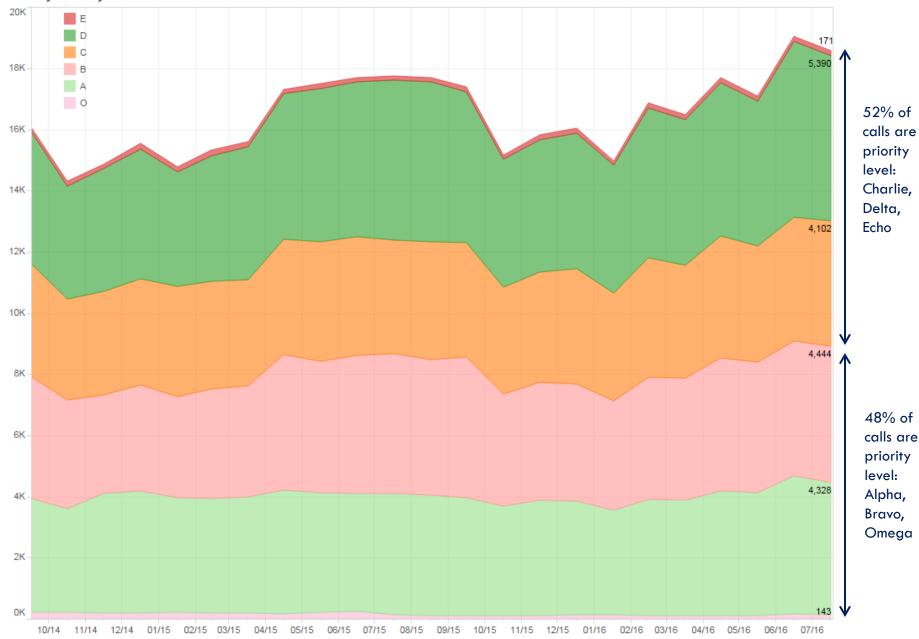


Reduce Demand for EMS by Individuals with non-Emergency Medical Needs

Breakdown of Call Priorities







Integrated Healthcare Collaborative (IHC)



An effort to reduce demand among these low acuity 911 callers who comprise **48**% of all EMS calls to:

- Reduce overtaxed EMS call volume
- Reduce ED overcrowding
- Get the callers to more appropriate medical care
- Save millions in unnecessary emergency health care spending.

Subcommittees

- Nurse Triage Line
- Alternate Transport
- Connection to Care
- Communication & Marketing
- Policy

Goal to review recommendations and prioritize next steps



Goal: 911 dispatchers screen and connect lower acuity patients to nurse triage line for evaluation

 Nurses evaluate patients, connecting them to appropriate care.

Next Steps:

- Determine best operational infrastructure/home for program
- Identify budget, funding and timeline for program: development, pilot and fully operational phases



Goal: Alternative non-EMS transportation for low acuity patients

 Currently, infrastructure exists for patients through 4 major insurance carriers but is under-utilized and does not provide same-day transport

Next Steps:

- Leverage existing services to relieve pressure on EMS and educate patient population about existing services
- Consider development of transport service system that covers gaps in existing system (same day, 24 hr)



Goal:

- (1) connect low acuity patients diverted by the nurse triage line to appropriate level of care
- (2) compile a working list of primary care sites
 - Estimated that there could be ~200 patients diverted to the clinic system daily.
 - The committee determined that 18 sites have the capacity to handle these referred patients.



Goal: Develop educational campaign on alternatives to 911 and Emergency Department use:

- Phase I will cover:
 - where to go for care
 - emergency vs. urgent care
 - importance of a primary care physician and continuity of care
- Phase II will promote:
 - transportation alternatives
 - comprehensive primary care sites
 - nurse triage line

Need to examine existing District government communications resources to fund this effort



Goal: examine current policies that enable or inhibit goals of IHC

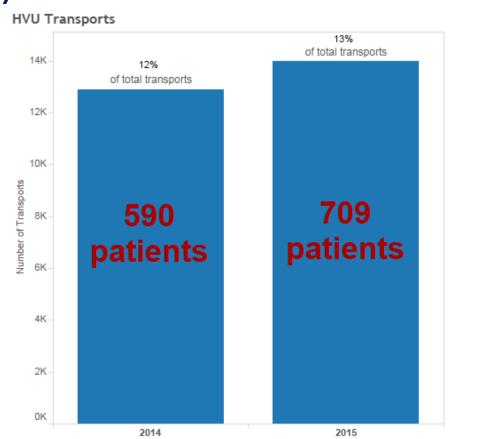
Recommendations:

- Revise the DC Fire and EMS Patient Bill of Rights to remove language that guarantees transport to patients, regardless of medical need.
- Develop a method of reimbursement for assessment and/or treatment for EMS in the field.
- Require Managed Care Organizations to accommodate request from members to access same day care from providers who are not their primary care provider of record. This is currently a barrier to being cared for by a provider other than the PCP.
- The DOH should clarify the definition of urgent care in the Certificate of Need process.

High Volume Utilizers (HVU)



HVU's are patients transported 10 or more times in one year



Majority over 50 60% male 62% experience severe mental illness 67% are Medicaid beneficiaries

The HVU's with Medicaid Managed Care were referred to the MCO's for case management in 2016.

Challenges and Recommendations



Challenges

- Low acuity calls comprise 48% of current EMS call volume; these patients are better served with care in a comprehensive primary care setting.
- High volume utilizers of EMS are 12.6% of calls and have complex medical needs.
- FEMS needs support prioritizing and implementing the recommendations from the IHC

Recommendations	
Completed	Future
Integrated Healthcare Collaborative developed a set of recommendations to reduce low acuity 911 calls and transports	Work with FEMS to identify the top supported IHC recommendations, budget and implementation timelines
AMR deployed to handle lower acuity patient transports.	Revisit strategy for High Volume Utilizers to check in on progress after 6 months of DHCF performance based contract is in place



Build and maintain a sustainable emergency medical services fleet



In FY16, FEMS put on the streets new or refurbished

- 6 ladder trucks
- 16 ambulances
- 6 supervisor vehicles.

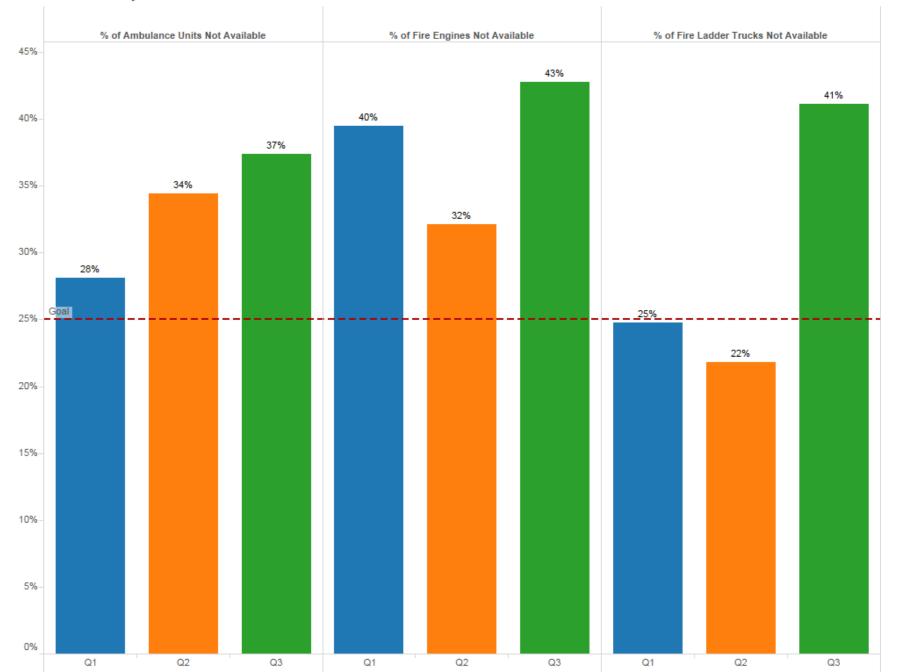
In FY17, FEMS has budgeted \$15M for 31 new vehicles

- 6 engines (regular fire trucks)
- 3 trucks (ladder trucks)
- 1 rescue squad
- 16 ambulances
- 5 command vehicles (SUVs)

Maintenance on FEMS Vehicles



Unit Unavailability



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Challenges and Recommendations



Challenges

FEMS would like to increase the frequency of preventative maintenance

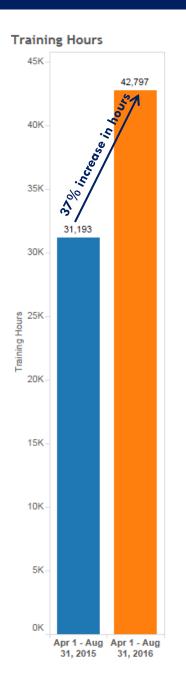
Recommendations	
Completed	Future
	Build up fire apparatus and a reserve of engines and fire trucks
	Develop strategy to increase frequency of preventative maintenance at lower volume times



Enhance provider quality through research, training and continuous improvement

EMS Training pre and post AMR





Training goals: ALS Providers:

Training Academy

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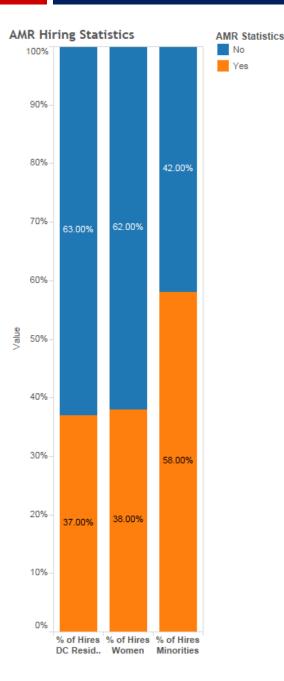
- Partnerships with institutions, i.e. Howard (Enhanced Trauma training conducted in Sept) and Childrens' (peds triage and asthma in planning stages)
- Battalion level delivered by EMS supervisor
- Company level focused on case review and high quality CPR

Training Goals: BLS providers:

- Training academy (March 2016 to present):
 - Trauma and excited delirium
 - Cardiac and Respiratory refreshers
- Battalion level delivered by EMS supervisor
- Company level focused on case review and high quality CPR

AMR: Hiring and Training





Hired 280 new employees since February 2016

 95 Employment Separations (voluntary and involuntary)

AMR working with DOES to receive licensing to train EMTs in the District

Plan to train District residents as EMTs free of charge, with an 18 month contract to work with AMR

AMR has had some hiring challenges due their temporary contract, and inability to promise long term positions

Challenges and Recommendations



Challenges

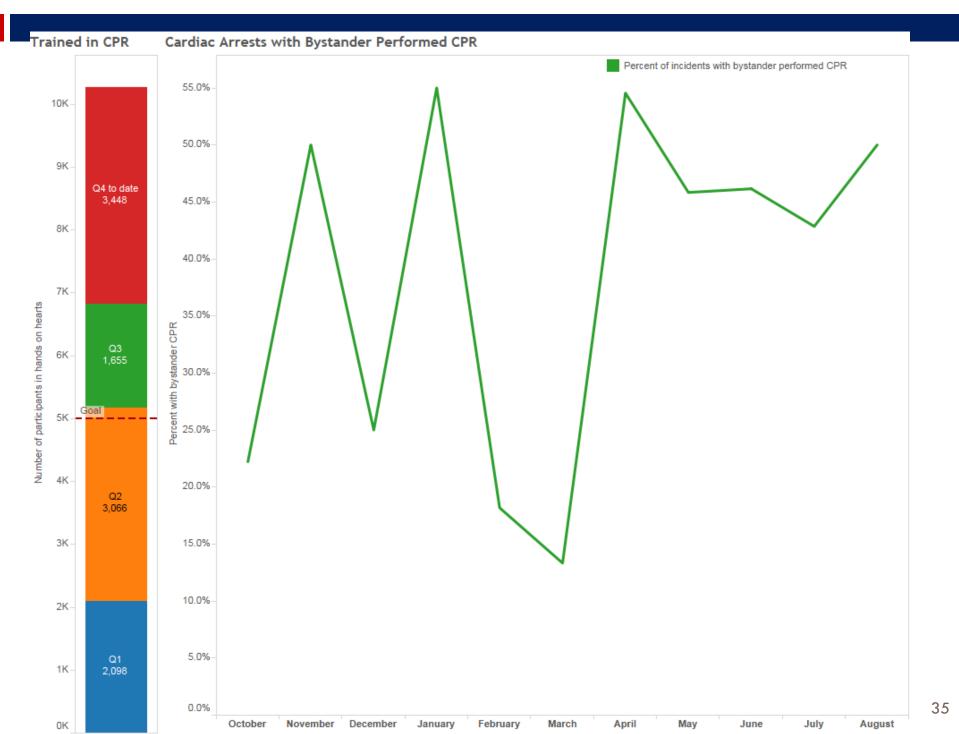
- Emergency responders would benefit from an updated and integrated training program
- AMR has challenges hiring EMTs due the temporary contract
- AMR has only 37% District residents on staff

Recommendations		
Completed	Future	
FEMS has increased training hours since April	New deputy training academy Chief to conduct a comprehensive review of the training schedule for FEMS providers; provide timeline from development of updated and integrated training program.	
	Finalize longer term contract with AMR (or other alternate emergency services provider) to allow for long term planning and hiring	
	AMR is working with DOES to become licensed to train EMTs. Once that is complete, AMR will train District residents to be EMTs, at no charge.	
	Integrate lessons learned from hospital discharge data on patient outcomes into future EMS training.	



Increase district resident and visitor knowledge about life saving EMS techniques

Resident Training in CPR and Bystander Performed CPR





Challenges and Recommendations



Challenges

Change public discussion about EMS to focus on patient care and outcomes instead of just response times

Recommendations	
Completed	Future
	FEMS will work with the hospitals to access patient outcome data to analyze the impact of programs on patient health and develop recommendations
	FEMS to monitor and analyze the impact of programs on improving cardiac arrest survival rates

STAT Recommendations



Recommendations

Continue work with call takers and dispatchers working group to ensure calls are dispatched quickly and accurately

Keep working through dispatch packages so the right resources are sent to the right calls, with a focus on "Charlie" packages

Do an analysis to determine why ALS providers may be transporting BLS patients; develop strategies to reduce BLS workload of ALS providers

Develop ways to enforce performance based contract during times of increased call volume in updated contract

FEMS and OCA to monitor and report on progress toward meeting SLAs for first unit on scene (90% in 5 minutes); and SLAs for first arriving paramedic and first arriving transport unit (90% within 9 minutes)

Hire additional paramedics to be able to improve response times

FEMS to work with emergency medical providers to understand why hospital drop times are high and develop strategies to lower drop times

Work with FEMS to identify the top supported IHC recommendations, budget and implementation timelines

Revisit strategy for High Volume Utilizers to check in on progress after 6 months of DHCF performance based contract is in place

Build up fire apparatus and a reserve of engines and fire trucks

Develop strategy to increase frequency of preventative maintenance at lower volume times

New deputy training academy Chief to conduct a comprehensive review of the training schedule for FEMS providers; provide timeline from development of updated and integrated training program.

Finalize longer term contract with AMR (or other alternate emergency services provider) to allow for long term planning and hiring

AMR is working with DOES to become licensed to train EMTs. Once that is complete, AMR will train District residents to be EMTs, at no charge.

Integrate lessons learned from hospital discharge data on patient outcomes into future EMS training.

FEMS will work with the hospitals to access patient outcome data to analyze the impact of programs on patient health and develop recommendations

FEMS to monitor and analyze the impact of programs on improving cardiac arrest survival rates



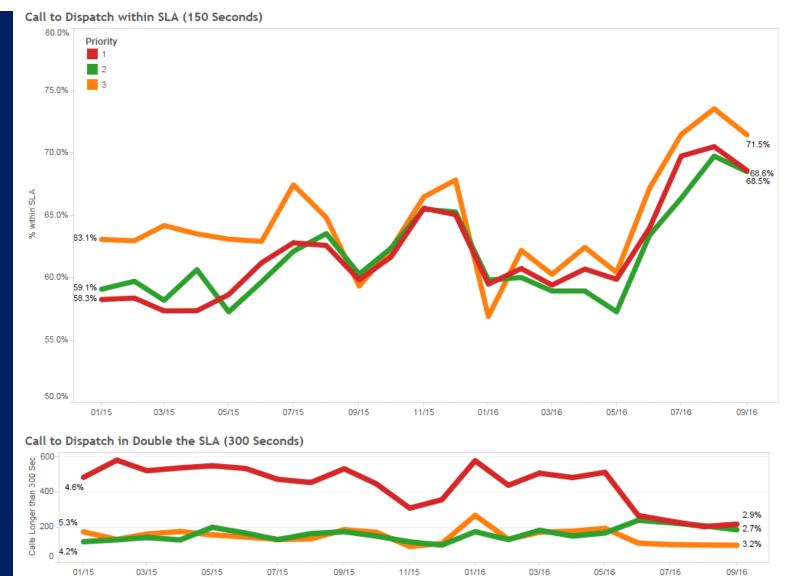
Appendix

Call to Dispatch Times January 1, 2015 – September 26, 2016



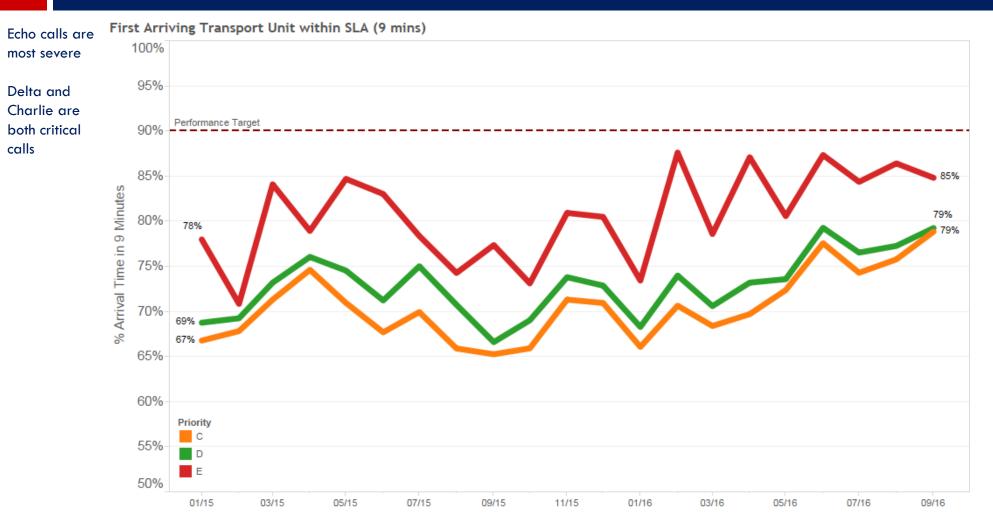
OUC implemented rapid dispatch to reduce call taking times.

OUC is working with the Call Takers Working Group to streamline aspects of call taking that can reduce call and dispatch times

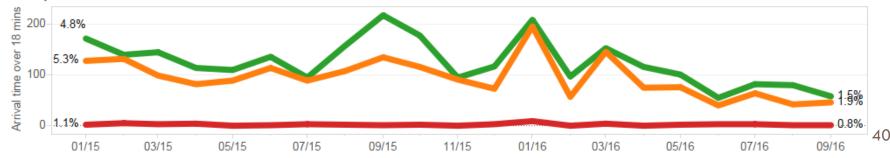


First Arriving Transport Unit within SLA January 1, 2015 – September 26, 2016









AMR Dispatch to Arrival Times



Percent of AMR Arrival Within 10 Mins

