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Essex County EMS Strategic Plan: Baseline Report and Strategic Priorities

Presented to County Board of Supervisors and EMS Community April 24, 2017



Presentation Outline

- Project Background
- Baseline Report
- Strategic Planning
 - Mission and Vision
 - Priorities
 - Clinical Care
 - Education
 - Maintaining Workforce and Volunteers
 - Fiscal Management
 - Operational Support



Project Background

- Funded through Municipal Restructuring Fund Grant
- CGR was selected in July 2016 and began work in August
- Project scheduled to last 18 months
- Five visits Essex County to meet with stakeholders and learn about the EMS system
 - Met with someone from every agency
 - Visited all but 4 bases
 - Spoke with other key people such as medical directors, hospital staff, regional EMS program agency and county employees
- Not done yet, but moving to action phase



Baseline Report

- 80 page report that documents what exists for the EMS system in Essex County today
- County Overview of population and topography
- EMS System Overview regarding communications, coordination, education and hospitals
- EMS Agency Profiles describes the common characteristics of each agency
- Calls for Service in 2015 (from agencies)
- EMS Workforce Survey
- Findings, Immediate Actions and Next Steps



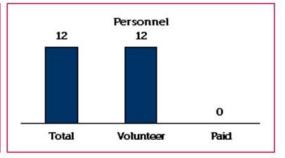
Keene Rescue Squad

Service Area Town of Keene Agency/Org Type Nonprofit, Corporation
Org Structure Board of Directors

Bills for Service yes Staff Type Volunteer

Level of Service AEMT-CC Membership Trend steady





EASVs or First Response Vehicles 0 # Ambulances 1

Cardiac Monitor Type(s) Zoll X Stretcher Type(s) Stryker Power

Defib/PAD x EpiPen x Albuterol x Glucometry x Naloxone x CPAP x

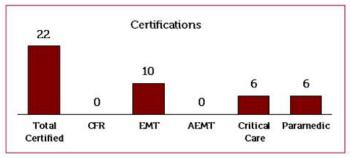
Population of Service Area (POSA) 1,105 Sq. mi. of Service Area 156

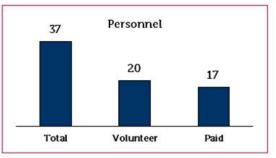
% POSA >= 65 18.8 % POSA >= 85 5.0

Total Calls Reported by Agency 64 Service Times (hh:mm) **Total Call** Chute Response Transport Median 0:06 0:09 0:15 1:13 80th Percentile 0:19 1:29 0:08 0:13 90th Percentile 0:09 0:20 0:21 1:49 Count* (n) 63 45 58 * Times are based on call data provided. Not all fields were completed for each call.

Lake Placid Vol Amb Svc, Inc







# EASVs or First Response Vehicles			icles	1		# Ambulances	3	3				
Cardiac Monitor Type(s)			Zoll M			Stretcher T	(s) Stryker P	Stryker Power and Manua				
Defib/PAD	Х	EpiPen	X	Albuter	ol	Х	Glucometry	×	Naloxone	Х	CPAP	Х

Population of Service Area (POSA)			8,957		Sq. mi. of Service Area	152	
% POSA >= 65	15.2	% POSA >	= 85	3.1			

Total Calls Reported by Ag	jency	1071			
Service Times (hh:mm)	Chute	On Scene	Transport	Total Call	
Median	0:03	0:07	0:18	0:57	
80th Percentile	0:06	0:11	0:21	1:28	
90th Percentile	0:08	0:15	0:23	1:55	
Count* (n)	1067	986	870	1071	
* Times are based on cal	l data provided. N	ot all fields were co	mpleted for each o	all.	



Top 20 Calls by Chief Complaint, 2015

Breathing Problem Count: 410	Chest Pain Count:258	Transport Only Count:150	Patient Fell Count:144	Syncope Count:122	Back Pain Count:119
Other-Not Specified by Agcy Count:322	Abdominal Pain (Gl Distress) Count:246	Major Trauma Count:110	Frac- ture/Dis- location Count:98	sions	Injury
	General Illness/ Malaise	Weakness Count:103			Diagram Chandley
Pain Count:304	Count:239	Mental/Psych/Behav	No Sign Sympto Count:7	ms (Bleeding Standby Count:58 Count:56
		i <u>al</u> Count:101	<u>Unrespo</u> Count:7		



Key Findings (1/2)

- The EMS system responded to 4,128 events in 2015, 11.3 responses per day countywide
- Only the five busiest EMS agencies respond to calls at a rate greater than one call per day and no agency averages more than two calls per day.
- Nearly all agencies meet the goal of having an ambulance responding to calls in less than 10 minutes
 90 percent of the time and have ALS available
- No non-commercial ambulance reports being able to cover all their operational costs based on patient billings. More than half the agencies have a substantial reliance on property tax revenue.



Key Findings (2/2)

- Based on 2015 NYS DOH data, there are 215
 certified EMS providers living in Essex County. 3 are
 CFRs, 159 are EMTs, 5 are Advanced EMTs, 37 are
 AEMT-Critical Care, and 10 are paramedics.
- Based on interviews, the share of calls covered by paid staff has increased in each of the previous 5 years.
- A majority of the key EMS providers are over 50 with a substantial percentage planning to leave the field in the next five to ten years.



Immediate Recommendations

- Shorten time interval for mutual aid
- ALS for serious calls, first response for critical calls
- Develop data dashboards and exception reporting to manage EMS
- Alert neighboring agencies to assist with mutual aid
- Develop a no fault QI process for critical events
- Work with REMSCO to develop training for low frequency skills



Essex County EMS Mission and Vision

Mission

Provide timely, high quality, professional, out of hospital emergency medical care and transport to residents and visitors throughout Essex County

Vision

Establish a sustainable cohesive evolvable system for emergency medical care in Essex County



Strategic Priorities

- Clinical Care Improvement
- EMS Education
- Maintaining Existing Workforce including Volunteers
- Fiscal Management
- Operational Support



Strategic Priority: Clinical Care

- Dashboard for System Management
- First Response to Echo Calls
- ALS to Calls that Need It
- Quality Improvement Process
- Community EMS
- Hands Only CPR Initiative
- CPR App Dispatch



Strategic Priority: Education

- Paramedic Program at Elizabethtown Hospital
- BOCES/High School EMT Training
- Flexible EMT Course Delivery
- Faculty In Residence program
- Next Generation Instructor Development
- State Funding of EMS Training
- CME Training
- Explore common record keeping



Strategic Priority: Maintaining Workforce

- Leadership Development
- Flexible scheduling
- Retirement
- Recruitment
- Volunteer Specific
 - Property Tax vs. Income Tax Credit
 - Bonuses (up to IRS rules)
 - Tuition reimbursement
- Recruit Volunteers for Auxiliary Jobs
 - Administration
 - Special Events



Strategic Priority: Fiscal Management

- Ambulances group bidding
- Building Maintenance
- Information Technology
- Medical Supplies and Medications
- Uniforms
- Billing for Calls, where approriate



Strategic Priority: Operational Support (1/7)

Goals of System

- Chute time of 90 seconds for staffed, 8 min for volunteer
- ALS to all serious calls and quick response to critical calls
- System management with standard SOPs, strong leadership, admin support, effective training, integration with hospitals
- Financially sustainable with tax for some services but leverage transport revenue as far as possible
- Personnel
 - Career with living wage, retirement, benefits, path for advancement
 - Recognition and support to retain volunteers



Strategic Priority: Operational Support (2/7)

- Base Service Model
 - Administration
 - 911 and dispatching
 - Training for both initial and continuing education
 - Purchasing of supplies
 - Mutual Aid Coordination
 - Quality assurance
 - Centralize billing/IT/ telecom



Strategic Priority: Operational Support (3/7)

- EMS Response Models (Range of Options)
 - Status Quo can continue

to

- Single agency providing all ambulance and ALS response services
- One Option to Consider
 - Single agency providing primary ambulance and ALS response services to any municipality that elects to use them

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- Single agency would also provide mutual aid and support services (such as staff leasing) to any agency/municipality that would like it
- Scalable to meet the demands of the community



Strategic Priority: Operational Support (4/7)

- Model developed based on 4 of 5 busiest agencies and 6 other agencies. Excludes 2 community, both commercial and the industry ambulance
- About 73 percent of population and 68 percent of 911 calls
- Respond to on average 7.7 calls per day
 - ALS = 4 x 24hr, 1 x 16 hr, 1 x 12 hr, 1 x 12 hr fly car
 - BLS = 1×24 , 1×16 hr, 2×12 hr
- 388 hours of paid staffing each day/ 10 stations
 - 136 ALS hours
 - 252 BLS hours
 - Some hours could be volunteer
 - Currently, about 140 paid hours daily



Strategic Priority: Operational Support (5/7)

- Average wage = \$15.80 per hour
- Benefits at 60 % of wages
- Wages per day =\$5095
- Wages + Benefits per day = \$8407
- Operational Costs
 - \$82 per ambulance per day for \$820
 - \$30 for medical supplies per call for 7 calls for \$210
 - \$150 per day for station space
- Estimated Daily Cost of Model
 - \$9600 per day
 - For 5 transports per day, about \$3200 in revenue (\$640 per call)



Strategic Priority: Operational Support (6/7)

- Variations of Services
 - Staff Leasing to Agencies
 - The agencies remain in operation, but hire the resource to meet regular or temporary demands for staffing
 - Home agencies still responsible for all aspects of the business, except staffing is provided by agreement
 - Could be used for "respite" when key volunteers go on vacation or are injured/ill
 - Central agency provides services for defined time periods
 - For example, the central agency would provide services from 7:00 am to 5:00 pm weekdays, but the agency's volunteer staff would handle other time periods
 - Or, the central agency would provide staffing for a special event



Strategic Priority: Operational Support (7/7)

- Potential methods to pay for the services
 - Revenue recovery by billing all patients
 - Service district
 - Whole county pays for basic level of service
 - Separate district for those receiving EMS response service
 - Communities are charged based on formula that may include:
 - Requests for service
 - Assessed value
 - Unit hours and type in community
 - Residential Population
 - Number of visitors
 - Presence of call generators such as senior living, health clinics, camps, parks



Strategic Planning Next Steps

- Work with Essex County EMS to implement some action items
- Further develop options models with ability to dynamically estimate costs and revenues
- Articulate benefit statement of model
- Identify other revenue streams to support EMS
- Work with steering committee and others to gauge support of different operational models
- The Baseline Report and Strategic Plan Document need to be shared with key constituents
 - All relevant documents will be posted on the project website:
 - www.cgr.org/essex-ems



Questions for Agencies and Communities

- Where will your agency be in 1, 5, and 10 years?
- How viable is current staffing model? Can it handle the stress of retirement, illness or moving away?
- How are the agency finances? Will it remain a "going concern"?
- How is the EMS response? Is it timely? Is it reliable?
- How is your clinical care? Is it measured? Would you trust them with your loved ones?



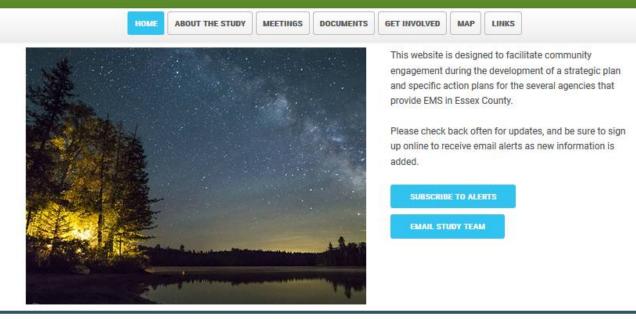
Going Forward

- Essex County EMS is faced with a variety of challenges from personnel retention and recruitment to the challenging finances of operating this essential service.
- This is a once in a generation opportunity to create a high performance EMS system that will be sustainable, cohesive, and evolvable for all residents and visitors in Essex County



Essex County EMS Strategic Plan

The creation of a strategic plan for Essex County EMS operations, to create a self-sustaining EMS system that provides excellent service to the residents and visitors to the county.



The Process

The project will conduct a baseline survey of the existing EMS system in Essex County through a series of in-person interviews with key stakeholders, and data requests. Each transport agency will be asked to be a full participant and non-transporting first responders will be asked to provide limited information.

CGR will present the gathered

The Advisory Committee

The process is being overseen by the Essex County EMS Advisory Committee, with the assistance from CGR, a nonprofit management consulting organization with expertise in government management, public finance and municipal consolidation processes. The baseline report, Strategic Plan and Action Plans developed by CGR for the long-term

Feedback

The Essex County EMS Advisory
Committee and CGR encourage public
engagement in this process. Please
submit your comments, questions and
other feedback by <u>clicking here</u> and
visiting the <u>public engagement page</u>.

