

## Medical Control Final Report for 2015

### 1/1/15 – 12/31/15

1. Total calls	20040
2. Total RMA's	3716 (18.54%)
3. RMA's convinced to go to hospital	524 (14.10%)
4. RMA's without physician intervention	197 (5.30%)
5. Total No contacts	12544 (62.59%)
6. Total contacts for medical control consultation	7496 (37.41%)
7. BLS contacts	1176 (5.87%)

### 1/1/14 – 12/31/14

1. Total calls	20101
2. Total RMA's	3615 (17.98%)
3. RMA's convinced to go to hospital	538 (14.88%)
4. RMA's without physician intervention	213 (5.89%)
5. Total No Contacts	12845 (63.90%)
6. Total contacts for medical control consultation	7256 (36.10%)
7. BLS contacts	1326 (6.60%)

### 1/1/13 – 12/31/13

1. Total calls	19904
2. Total RMA's	3352 (16.84%)
3. RMA's convinced to go to hospital	480 (14.32%)
4. RMA without physician intervention	157 (4.68%)
5. Total No Contacts	11724 (58.90%)
6. Total contacts for medical control consultation	8180 (41.10%)
7. BLS contacts	1316 (6.61%)

### 1/1/12 – 12/31/12

1. Total Calls	20245
2. Total RMA's	3391 (16.75%)
3. RMA's convinced to go to hospital	507 (14.95%)
4. RMA's without physician intervention	217 (6.40%)
5. Total No contacts	11339 (56%)
6. Total contacts for medical control consultation	8906 (44%)
7. BLS contacts	1410 (6.96%)

## Pre-hospital Statistics 2015

### ALS providers 2015

1. EMT-P 544
2. EMT-CC 386

### ETI Stats 2015

1. Attempts 898
2. Successful 649 (72.3%) (Patients 78%)

### IV Stats 2015

1. Attempts 15000
2. Successful 11479 (76.5%) (Patients 85.9%)

### Combitube Stats 2015

1. Attempts 13
2. Successful 11(84.62%)

### King Stats 2015

1. Attempts 179
2. Successful 163 (91.06%)

## Pre-hospital Statistics 2014

### ALS providers 2014

1. EMT-P 481
2. EMT-CC 377

### ETI Stats 2014

1. Attempts 806
2. Successful 558 (69.2%) (Patients 75.3 %)

### IV Stats for 2014

1. Attempts 15202
2. Successful 11492 (75.6%) (Patients 84.5 %)

### Combitube Stats for 2014

1. Attempts 25
2. Successful 20 (80%)

### King Airway Stats for 2014

1. Attempts 111
2. Successful 94 (84.68%)

## Invasive Procedures Summary

### 2015

IO- BIG Tibia successful 21/27	(77.78%)
IO- BIG Hum successful 2/2	(100%)
IO-EZ Tibia successful 560/585	(95.73%)
IO-EZ Hum successful 67/68	(98.53%)
IO Overall successful 650/709	(91.68%)
Conventional IO	0 use
Needle Cricothyrotomy	1 use
Needle Decompression	8 uses

### 2014

IO- BIG Tibia successful 33/42	(78.57%)
IO- BIG Hum successful 1/2	(50%)
IO-EZ Tibia successful 477/497	(95.98%)
IO-EZ Hum successful 14/14	(100%)
IO Overall successful 525/555	(94.59%)
Conventional IO	1 use
Needle Cricothyrotomy	0 use
Needle Decompression	5 uses

### 2013

IO- BIG successful 62/69	(89.85%)
IO-EZ successful 361/382	(94.50%)
IO Overall successful 423/451	(93.79%)
Conventional IO 0/1	(0%)
Needle Cricothyrotomy	0 uses
Needle Decompression 6/7	(85.71%)

### 2012

IO- BIG successful 83/94	(88.30%)
IO-EZ successful 253/272	(93.01%)
IO Overall successful 336/366	(91.80%)
Conventional IO 1/2	(50%)
Needle Cricothyrotomy	0 uses
Needle Decompression	11 uses

### 2011

IO- BIG successful 81 /101	(80.19%)
IO-EZ successful 176/198	(88.88%)
IO Overall successful 257/299	(85.95%)
Conventional IO	0 uses
Needle Cricothyrotomy	1 uses
Needle Decompression	6 uses

\* Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527.

## Miscellaneous

### **BLS Albuterol / EPI-Pen ADM**

Total: 43

Albuterol: 38

EPI-Pen: 5

Physician Intervention: 21 (48.84%)

### **CPAP**

Total = 348

### **Etomidate 2015**

Total = 28

MFI = 11 (9 ETI, 1 King successful, 1 BVM), (81.82% ETI success)

RSI = 14 (13 ETI, 1 King successful, (92.86% ETI success)

Sedation for cardioversion = 2

Sedation for Post ETI = 1

**Behavioral Emergency ALS protocol use = 194**

**Case reviews generated by Medical Control = 157**

**Case reviews generated by Medical Control for not transmitting a 12 lead on a patients c/o ischemic chest pain = 86**

*Note: EMT-CC's have to transmit all 12 leads, EMT-P's only if STEMI is present*

**Narcan Nasal Use = 347 (ALS=152, BLS=74, PD=118, Public=3)**

**Hospital Destination Decisions = 335**

**PCI Centers Notified by Medical Control = 207**

*PCI Notified w/o contacting medical control = 10*

*Average notification time PTA at hospital = 11 minutes*

*Confirmed STEMI = 152*

*LBBB= 4*

*Potential evolving STEMI's = 45*

*Unknown disposition = 6*

\* Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527

***Confidential and protected by public health law:***

**CPAP data**

**PCI Notification data**

**12 lead use summary**

**ETI Confirmation data**

**Cardiac Arrest data**

**Invasive Procedures data**

**RMA data**

**Behavioral Protocol Use data**

**BLS Albuterol / EPI-Pen data**

**Controlled Substance Use Data**

**Narcan Nasal Use data**

**Hospital Destination Decision Data**

**Tech skills data**

**Advance Airway data**

*\* Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527*

## RMA Summaries

### 2015

Total RMA requests	3716	n=353
<b>Total RMA's Convinced To Go</b>	<b>524</b>	<b>14.10%</b>
#of cases follow-up was obtained	353	67.37%
<b>Admitted to Hospital</b>	<b>73</b>	<b>20.68%</b>
Signed out AMA at Hospital	11	3.12%
Discharged at Hospital	269	76.20%
Expired at Hospital	0	0%
Unable to obtain follow-up	171	32.63%
BLS Only	111	21.18%

### 2014

Total RMA requests	3615	n=344
<b>Total RMA's Convinced To Go</b>	<b>538</b>	<b>14.88%</b>
#of cases follow-up was obtained	344	63.94%
<b>Admitted to Hospital</b>	<b>94</b>	<b>27.33%</b>
Signed out AMA at Hospital	13	3.78%
Discharged at Hospital	235	68.31%
Expired at Hospital	2	0.58%
Unable to obtain follow-up	194	36.06%
BLS Only	115	21.38%

### 2013

Total RMA requests	3352	n=330
<b>Total RMA's Convinced To Go</b>	<b>480</b>	<b>14.32%</b>
#of cases follow-up was obtained	330	68.75%
<b>Admitted to Hospital</b>	<b>89</b>	<b>26.97%</b>
Signed out AMA at Hospital	16	4.85%
Discharged at Hospital	225	68.18%
Expired at Hospital	0	0%
Unable to obtain follow-up	150	31.25%
BLS Only	126	26.25%

*\*Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527*

## Non-Traumatic ROSC Summary 2015 (1044 calls)

### Prehospital Outcome:

1044 cardiac arrest responses

37 were DNR's, Family Refusal's, HCP's, DOA's and resuscitation was not attempted in the field.

#### *1007=N had resuscitation attempted*

1 had unknown Prehospital Outcome data.

88 had resuscitation attempted in the field and were pronounced

666 had No ROSC in the field and were transported to the ED

24 had Brief ROSC in the field and were transported to the ED

228 had Sustained ROSC in the field and were transported to the ED

### Conclusion:

**Survival to the Emergency Department = 228 (22.64%)**

### Hospital Outcome:

924 Patients were transported to ED

*5 had no Hospital Outcome data*

#### *919 had Hospital Outcome data (n=916)*

836 (91.27%) Expired in the hospital:

*665 Expired in the ED*

*158 were Admitted and Expired*

*13 were Transferred and Expired*

*2 were admit, outcome unknown*

*2 admitted*

*9 were transferred with final outcome unknown*

*3 were DNR's (not counted as total expired in hospital)*

*67 Discharged (Home, SNF, 1 left AMA and D/C to unknown location)*

### Conclusion:

**Survival to admission to the hospital = 251 (27.40%), (n=916)**

**Survival to discharge = 67 (7.42%), (n=903)**

\*Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527

**Non-Traumatic ROSC Summary 2014**  
**(986 calls)**

**Prehospital Outcome:**

986 cardiac arrest responses

39 were DNR's, Family Refusal's, HCP's, DOA's and resuscitation was not attempted in the field.

**947=N had resuscitation attempted**

1 had unknown Prehospital Outcome data.

64 had resuscitation attempted in the field and were pronounced

670 had No ROSC in the field and were transported to the ED

28 had Brief ROSC in the field and were transported to the ED

184 had Sustained ROSC in the field and were transported to the ED

**Conclusion:**

**Survival to the Emergency Department = 184 (19.43%)**

**Hospital Outcome:**

883 Patients were transported to ED

2 had no Hospital Outcome data

**881 had Hospital Outcome data**

805 (91.37%) Expired in the hospital:

*654 Expired in the ED*

*136 were Admitted and Expired*

*15 were Transferred and Expired*

*1 were admit, outcome unknown*

*0 admitted*

*5 were transferred with final outcome unknown*

70 Discharged (Home, SNF, 1 left AMA and D/C to unknown location)

**Conclusion:**

**Survival to admission to the hospital = 227 (25.77%), (n=881)**

**Survival to discharge = 70 (8.00%), (n=875)**

*\*Confidential and required to be collected and maintained pursuant to public health law sections 2805-j, k, l and m and educational law section 6527*



## Non-Traumatic ROSC Summary 2013 (1022 calls)

### Prehospital Outcome:

1022 cardiac arrest responses

29 were DNR's, Family Refusal's, HCP's, DOA's and resuscitation was not attempted in the field.

#### **993=N had resuscitation attempted**

3 had unknown Prehospital Outcome data.

61 had resuscitation attempted in the field and were pronounced

728 had No ROSC in the field and were transported to the ED

28 had Brief ROSC in the field and were transported to the ED

173 had Sustained ROSC in the field and were transported to the ED

### Conclusion:

**Survival to the Emergency Department = 173 (17.42%)**

### Hospital Outcome:

935 Patients were transported to ED

9 had no Hospital Outcome data

#### **926 had Hospital Outcome data**

853 (92.12%) Expired in the hospital:

*749 Expired in the ED*

*97 were Admitted and Expired*

*7 were Transferred and Expired*

*8 were admit, outcome unk*

*2 admitted*

3 were transferred with final outcome unknown

60 Discharged (Home, SNF and Unknown location)

### Conclusion:

**Survival to admission to the hospital = 177 (19.11%), (n=926)**

**Survival to discharge = 60 (6.57%), (n=913)**

## Non-Traumatic ROSC Summary 2012 (924 calls)

### Prehospital Outcome:

924 cardiac arrest responses

30 were DNR's, Family Refusal's, HCP's, DOA's and resuscitation was not attempted in the field.

#### ***894=N had resuscitation attempted***

7 had unknown Prehospital Outcome data but had known Hospital Outcome data.

52 had resuscitation attempted in the field and were pronounced

667 had No ROSC in the field and were transported to the ED

16 had Brief ROSC in the field and were transported to the ED

152 had Sustained ROSC in the field and were transported to the ED

### Conclusion:

**Survival to the Emergency Department = 152 (17%)**

### Hospital Outcome:

845 Patients were transported to ED

17 had no Hospital Outcome data

#### ***828 had Hospital Outcome data***

776 (93.72%) Expired in the hospital:

*658 Expired in the ED*

*111 were Admitted and Expired*

*7 were Transferred and Expired*

16 were transferred with final outcome unknown

36 Discharged (Home, SNF and Unknown location)

### Conclusion:

**Survival to admission to the hospital = 170 (20.53%), (n=828)**

**Survival to discharge = 36 (4.43%), (n=812)**

## Non-Traumatic ROSC Summary 2011 (946 calls)

### Prehospital Outcome:

946 cardiac arrest responses

36 were DNR's, Family Refusal's, HCP's, DOA's and resuscitation was not attempted in the field.

#### *910=N had resuscitation attempted*

2 had unknown Prehospital Outcome data but had known Hospital Outcome data.

44 had resuscitation attempted in the field and were pronounced

718 had No ROSC in the field and were transported to the ED

31 had Brief ROSC in the field and were transported to the ED

115 had Sustained ROSC in the field and were transported to the ED

### Conclusion:

**Survival to the Emergency Department = 115 (12.64%)**

### Hospital Outcome:

866 Patients were transported to ED

11 had no Hospital Outcome data

#### *855 had Hospital Outcome data*

814 (95.20%) Expired in the hospital:

*709 Expired in the ED*

*100 were Admitted and Expired*

*5 were Transferred and Expired*

15 were transferred with final outcome unknown

1 admitted to hospital and is still in-house

25 Discharged (Home, SNF and Unknown location)

### Conclusion:

**Survival to admission to the hospital = 146 (17.08%), (n=855)**

**Survival to discharge = 25 (2.98%), (n=839)**

## **CPC scores for Non-Traumatic Cardiac Arrests for 2014**

Total cases that were discharged = 70

Total cases with CPC scores =66

Average CPC score for Discharged to SNF = 2.62 (n=16)

Average CPC score for Discharged = 1.60 (n=50)

Average CPC score for all = 1.84 (n=66)

## **12 lead use in the Suffolk County EMS System all DX's**

### **Purpose:**

To review pre-hospital 12 lead use for the Suffolk County EMS system.

### **Method:**

Reviewed the Medical Control Database for 12 lead acquisition from 1/1/15 – 12/31/15

### **Results:**

#### **All:**

- Total 12 leads acquired for all complaints = 5901
- Total 12 leads acquired for all complaints that had no contact with medical control = 3718 (63%)
- Total 12 leads where transmission was attempted but failed for all complaints = 182 (3.08%)
- Total 12 leads Received at Medical Control for all complaints = 3884 (65.82%)
- Total 12 leads Received at Medical Control for all complaints that had no contact with medical control = 1907 (49.10%)

#### **Chest Pain:**

- Total 12 leads acquired with the complaint of chest pain = 2383
- Total 12 leads acquired with the complaint of chest pain that had no contact with medical control = 1381 (57.95%)
- Total 12 leads Received at Medical Control with the complaint of chest pain = 1550 (65.04%)
- Total 12 leads Received at Medical Control with the complaint of chest pain that had no contact with medical control = 657 (42.39%)
- Total 12 leads unable to be transmitted to Medical Control with the complaint of chest pain = 91 (3.82%)