Medical Control Committee

MINUTES JUNE 5, 2013 1:30 PM PIKES PEAK REGIONAL DEVELOPMENT CENTER, 2880 INTERNATIONAL CIRCLE, COLORADO SPRINGS

FACILITATOR	Dr. Jack Sharon
NOTE TAKER	Eileen Gonzalez
ATTENDEES	Robert Coffey, Jeff Force, Dr. Marilyn Gifford, Mark Homan, Dr. Julie Kiley, Scott McCune, Noel Perran, Dr. David Ross, Ted Sayer
NOT PRESENT	Dr. Robert Bux

1. PUBLIC COMMENT

DISCUSSION	
None.	

1A. APPROVAL OF THE MARCH 6, 2013 MINUTES

DISCUSSION	
None.	

MOTION	**PERSON RESPONSIBLE**
Motion to approve the March 6, 2013 meeting minutes.	Dr. Julie Kiley
Second	Dr. Marilyn Gifford
Approved	Unanimous

2.A. RSI REVIEW

DISCUSSION	
Dr. Ross reported that he and Dr. Gifford reviewed four RSI cases and all were conducted appropriately.	

2.B. REVIEW OF PATIENT COMPLAINTS

DISCUSSION	
The committee reviewed and closed one continued complaint (326) with additional information from the contractor's CES staff relating to a discussion of appropriate use of analgesia.	

3.A. CARES SUMMARY

DISCUSSION	
Dr. Ross presented a summary of CARES data for 2012 (attached), which shows, among other positive results, that the overall survival rate since joining CARES in 2009.	

3.A. MEMBER/STAFF COMMENTS

DISCUSSION	
The committee discussed a request from Colorado Springs Fire Department that the ESA's Medical Control Committee review and approve the contractor's participation in an alternate response plan for a single local patient to help mitigate the patient's excessive abuse of the 911 system. A majority of the committee, with Dr. Kiley abstaining, were in favor of the alternate response plan.	

MEETING ADJOURNED AT 1:55 pm.

CARES Summary Report

Demographic and Survival Characteristics of OHCA

Service Date: From 1/1/12 Through 12/31/12

Data	El Paso County N=250	National N=25116
Age	**N=250**	**N=25077**
Mean	63.7	64.1
Median	64.5	65.0
Gender (%)	**N=250**	**N=25113**
Female	109 (43.6)	9777 (38.9)
Male	141 (56.4)	15336 (61.1)
Race (%)	**N=250**	**N=25087**
American-Indian/Alaskan	0 (0.0)	101 (0.4)
Asian	5 (2.0)	417 (1.7)
Black/African-American	13 (5.2)	5195 (20.7)
Hispanic/Latino	19 (7.6)	1651 (6.6)
Native Hawaiian/Pacific Islander	0 (0.0)	156 (0.6)
White	129 (51.6)	11042 (44.0)
Unknown	84 (33.6)	6525 (26.0)
Location of Arrest (%)	**N=250**	**N=25116**
Healthcare Facility	8 (3.2)	994 (4.0)
Home/Residence	171 (68.4)	17446 (69.5)
Industrial Place	1 (0.4)	105 (0.4)
Nursing Home	31 (12.4)	3073 (12.2)
Other	3 (1.2)	189 (0.8)
Place of Recreation	0 (0.0)	348 (1.4)
Public/Commercial Building	25 (10.0)	1650 (6.6)
Street/Highway	11 (4.4)	1235 (4.9)
Transport Center	0 (0.0)	76 (0.3)
Arrest witnessed (%)	**N=250**	**N=25116**
Bystander Witnessed	86 (34.4)	9653 (38.4)
Witnessed by EMS	40 (16.0)	2639 (10.5)
Unwitnessed	124 (49.6)	12824 (51.1)
Who Initiated CPR? (%)	**N=250**	**N=25116**
Not Applicable	0 (0.0)	44 (0.2)
Total Bystanders*	112 (44.8)	9491 (37.8)
First Responder	1 (0.4)	7136 (28.4)
Emergency Medical Services (EMS)	137 (54.8)	8445 (33.6)
Was an AED applied prior to EMS arrival? (%)	**N=250**	**N=25116**
Yes	5 (2.0)	6941 (27.6)
No	245 (98.0)	18175 (72.4)
Who first applied automated external defibrillator? (%)	**N=5**	**N=6936**
Total Bystanders*	5 (100.0)	1006 (14.5)
First Responder	0 (0.0)	5930 (85.5)
Who first defibrillated the patient? (%)**	**N=250**	**N=21467**
Not Applicable	142 (56.8)	14096 (65.7)
Total Bystanders*	3 (1.2)	337 (1.6)
First Responder	0 (0.0)	1492 (7.0)
Responding EMS Personnel	105 (42.0)	5542 (25.8)
First Arrest Rhythm (%)	**N=250**	**N=25116**
Vfib/Vtach/Unknown Shockable Rhythm	76 (30.4)	5791 (23.1)
Asystole	111 (44.4)	12064 (48.0)
Idioventricular/PEA	57 (22.8)	5259 (20.9)
Unknown Unshockable Rhythm	6 (2.4)	2002 (8.0)
Sustained ROSC (%)	**N=250**	**N=25047**
Yes	113 (45.2)	7797 (31.1)
No	137 (54.8)	17250 (68.9)
Was hypothermia care provided in the field? (%)	**N=250**	**N=25077**
Yes	70 (28.0)	3445 (13.7)
No	180 (72.0)	21632 (86.3)

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CARES Summary Report

Demographic and Survival Characteristics of OHCA

Service Date: From 1/1/12 Through 12/31/12

Data	El Paso County N=250	National N=25116
Pre-hospital Outcome (%)	**N=250**	**N=25115**
Pronounced in the Field	89 (35.6)	6336 (25.2)
Pronounced in ED	3 (1.2)	3962 (15.8)
Ongoing Resuscitation in ED	158 (63.2)	14817 (59.0)
Overall Survival (%)	**N=250**	**N=25116**
Overall Survival to Hospital Admission	92 (36.8)	6664 (26.5)
Overall Survival to Hospital Discharge	38 (15.2)	2519 (10.0)
With Good or Moderate Cerebral Performance	32 (12.8)	1986 (7.9)
Missing hospital outcome	0	188
Utstein Survival (%)	**N=43**	**N=3434**
Witnessed by bystander and found in shockable rhythm	41.9%	31.7%
Utstein Bystander Survival (%)	**N=30**	**N=1922**
Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR by bystander and/or AED applied by bystander)	43.3%	37.3%

Inclusion criteria: A presumed cardiac etiology event where resuscitation is attempted by a 911 responder (CPR and/or defibrillation). This would also include patients that received an AED shock by a bystander prior to the arrival of 911 responders.
**Total Bystanders = lay person + lay person family member + lay person medical provider.*
***This is a new question that was introduced on the 2011 form.*
PLEASE NOTE: From 2005-2012, CARES collected arrests of presumed cardiac etiology. In 2013, CARES expanded to include all non-traumatic arrests.

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Summary of El Paso County (EPC)
2012 CARES Data

David Ross, DO FACEP
May 7, 2013

More Detail on the Use of Hypothermia After Return of Spontaneous Circulation (ROSC)

Patients who received prehospital hypothermia with ROSC in EPC: 70.

Patients discharged alive from the hospital who received prehospital hypothermia: 20 (28%).

Percent of these hospital survivors with moderate to excellent neurologic function (CPC 1,2): 82%.

Highlights from the El Paso County Data as Compared to the National Data

1. 2012 features the highest Overall Survival rate we have had since joining CARES in 2009: 15.2% (2012 CARES cumulative national Overall Survival rate was: 10%).

   15.2% overall survival is an outstanding statistic.

2. 2012 Utstein Bystander Survival for EPC (as defined in the CARES Summary Report) was: 43.3%
   (2012 CARES cumulative national Ustein Bystander Survival rate was 37.3%)

3. 2012 percent of EPC survivors with CPC 1,2: 84% (32/38).
   (2012 percent of national survivors with CPC 1,2: 78%) (1986/2519).

   This means the vast majority of patients we are resuscitating in EPC can lead normal, or near-normal, lives.

4. Field or hospital initiated therapeutic hypothermia patients have a higher overall survivor rate than those who do not receive this treatment: 28%

5. We are still not receiving any data from Security, CO. Historically, this area has had significant numbers of cardiac arrest patients. The addition of these numbers, if we had them, could change our overall statistics.

6. EMS crews and hospital staff should, once again, be congratulated for the great job they are doing for the community and patients impacted by the disease of cardiac arrest.

7. Thanks again to our CARES Coordinators based at AMR and the other transporting EMS agencies in EPC, along with both hospital systems. We would not have any of this information without their diligent efforts. For 2012, we ***had no incomplete records*** from our hospitals. This is a very impressive accomplishment.