



DATE: September 8, 2020  
TO: Region 11 EMS Providers  
FROM: **REGION 11 EMS MEDICAL DIRECTORS CONSORTIUM**  
SUBJECT: **CARDIAC ARREST REVIEW TEAM (CART) PERFORMANCE MEASURES**

The Region 11 EMS Medical Directors Consortium has established a Cardiac Arrest Review Team (CART) to evaluate performance measures and improve the prehospital care of Out of Hospital Cardiac Arrest (OHCA) patients. We will be reviewing individual cases and providing feedback based on the performance measures listed below. In order to review and provide feedback on the cardiac arrest cases, the cardiac monitor should be in the "Paddles" mode and the file must be uploaded to Codestat. We require 100% upload of cases. If there are issues uploading to Codestat, this should be documented in the narrative and EMS Logistics should be contacted.

### **Performance Measures**

#### **1. Minimal CPR interruptions**

- Compression ratio: > 90%
- Perishock pause total: < 10 seconds

#### **2. Quality compressions**

- Compression rate: 100-120 per minute
- Metronome used

#### **3. Early cardiac rhythm analysis and defibrillation for shockable rhythms**

- Initial cardiac rhythm analysis within one minute of monitor on time
- Cardiac rhythm check every 2 minutes
- Shockable rhythm identified and defibrillated

#### **4. ETCO<sub>2</sub> used throughout resuscitation**

- Initial value and trend documented by waveform analysis
- Ventilation rate 10-12 times per minute after advanced airway placed

#### **5. Correct drug use and dose**

- Epinephrine every 5 minutes
- Amiodarone for refractory shockable rhythms

#### **6. ROSC achieved? If yes:**

- 12 lead EKG obtained and transmitted
- Therapeutic hypothermia evaluated and performed

#### **7. Resuscitation outcome**

- Field termination considered for appropriate patients
- ROSC or ongoing resuscitation transported to STEMI Center

#### **8. Online Medical Control (OLMC) contacted from scene**

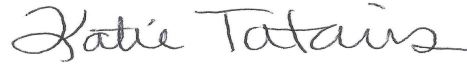
- Resuscitation performed on scene

We thank you for your continued focus on excellent prehospital care as we work together toward improving survival from out of hospital cardiac arrest in Chicago.

For questions, please contact Dr. Weber, Dr. Tataris, or Matt Strzalka, Paramedic.



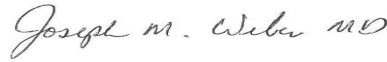
Kenneth Pearlman, MD  
Chair, Region 11 EMS Medical Directors Consortium  
EMS Medical Director  
Northwestern Memorial Hospital



Katie Tataris, MD, MPH  
EMS Medical Director  
University of Chicago Medical Center



Eddie Markul, MD  
EMS Medical Director  
Advocate Illinois Masonic Medical Center



Joseph Weber, MD  
EMS Medical Director  
John H. Stroger Jr., Hospital of Cook County

Copy to: Mary Sheridan, Assistant Deputy Fire Commissioner for EMS, Chicago Fire Department  
Juan C. Hernandez, District Chief, Chicago Fire Department  
Joanne Farrell, R.N., Director, EMS Compliance, Chicago Fire Department  
Matt Strzalka, EMS Educator, John H. Stroger, Jr. Hospital of Cook County