

# CARES Summary Report

## Demographic and Survival Characteristics of OHCA

End of the Event: Dead in Field, Pronounced Dead in ED, Ongoing Resuscitation in ED | Arrest Witness Status: All | Resuscitation Attempted by 911 Responder: Yes | Presumed Cardiac Arrest Etiology: Presumed Cardiac Etiology, Respiratory/Asphyxia, Drowning/Submersion, Electrocutation, Other, Drug Overdose, Exsanguination/Hemorrhage | Service Date: 01/01/13 - 12/31/18

Data	Michigan N=29430
<b>Age</b>	<b>N=29407</b>
Mean	62.5
Median	65.0
<b>Gender (%)</b>	<b>N=29424</b>
Female	11604 (39.4)
Male	17820 (60.6)
<b>Race (%)</b>	<b>N=29352</b>
American-Indian/Alaskan	81 (0.3)
Asian	163 (0.6)
Black/African-American	7389 (25.2)
Hispanic/Latino	332 (1.1)
Native Hawaiian/Pacific Islander	23 (0.1)
White	15640 (53.3)
Unknown	5724 (19.5)
<b>Location of Arrest (%)</b>	<b>N=29430</b>
Home/Residence	20808 (70.7)
Nursing Home	4262 (14.5)
Public Setting	4360 (14.8)
<b>Arrest witnessed (%)</b>	<b>N=29429</b>
Bystander Witnessed	10555 (35.9)
Witnessed by 911 Responder	3249 (11.0)
Unwitnessed	15625 (53.1)
<b>Who Initiated CPR? (%)</b>	<b>N=29429</b>
Not Applicable	17 (0.1)
Bystander	11525 (39.2)
First Responder	7522 (25.6)
Emergency Medical Services (EMS)	10365 (35.2)
<b>Was an AED applied prior to EMS arrival? (%)</b>	<b>N=29430</b>
Yes	9601 (32.6)
No	19829 (67.4)
<b>Who first applied automated external defibrillator? (%)</b>	<b>N=9593</b>
Bystander	2219 (23.1)
First Responder	7374 (76.9)
<b>Who first defibrillated the patient?* (%)</b>	<b>N=29283</b>
Not Applicable	20040 (68.4)
Bystander	513 (1.8)
First Responder	1771 (6.0)
Responding EMS Personnel	6959 (23.8)
<b>First Arrest Rhythm (%)</b>	<b>N=29430</b>
Vfib/Vtach/Unknown Shockable Rhythm	5253 (17.8)
Asystole	13976 (47.5)
Idioventricular/PEA	5192 (17.6)
Unknown Unshockable Rhythm	5009 (17.0)
<b>Sustained ROSC (%)</b>	<b>N=29424</b>
Yes	8323 (28.3)
No	21101 (71.7)
<b>Was hypothermia care provided in the field? (%)</b>	<b>N=29420</b>
Yes	190 (0.6)
No	29230 (99.4)
<b>Pre-hospital Outcome (%)</b>	<b>N=29430</b>
Pronounced in the Field	9564 (32.5)
Pronounced in ED	3714 (12.6)
Ongoing Resuscitation in ED	16152 (54.9)
<b>Overall Survival (%)</b>	<b>N=29430</b>
Overall Survival to Hospital Admission	7737 (26.3)
Overall Survival to Hospital Discharge	2556 (8.7)
With Good or Moderate Cerebral Performance	2085 (7.1)
Missing hospital outcome	14
<b>Utstein<sup>1</sup> Survival (%)</b>	<b>N=2948</b>
	28.3%
<b>Utstein Bystander<sup>2</sup> Survival (%)</b>	<b>N=1643</b>
	31.8%

*Inclusion criteria: An out-of-hospital cardiac arrest 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.*

\*This is a new question that was introduced on the 2011 form.

<sup>1</sup>Witnessed by bystander and found in a shockable rhythm

<sup>2</sup>Witnessed by bystander, found in shockable rhythm, and received some bystander intervention (CPR by bystander and/or AED applied by bystander)