

# 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 | Service Date: 01/01/17 - 12/31/17

Data	Michigan N=5563	National N=62171
<b>Age</b>	<b>N=5563</b>	<b>N=62154</b>
Mean	65.7	65.0
Median	67.0	66.0
<b>Gender (%)</b>	<b>N=5561</b>	<b>N=62169</b>
Female	2111 (38.0)	23189 (37.3)
Male	3450 (62.0)	38980 (62.7)
<b>Race (%)</b>	<b>N=5534</b>	<b>N=62142</b>
American-Indian/Alaskan	7 (0.1)	211 (0.3)
Asian	43 (0.8)	1307 (2.1)
Black/African-American	1558 (28.2)	14521 (23.4)
Hispanic/Latino	54 (1.0)	3410 (5.5)
Native Hawaiian/Pacific Islander	4 (0.1)	262 (0.4)
White	2971 (53.7)	29232 (47.0)
Unknown	897 (16.2)	13199 (21.2)
<b>Location of Arrest (%)</b>	<b>N=5563</b>	<b>N=62171</b>
Home/Residence	3873 (69.6)	42811 (68.9)
Nursing Home	845 (15.2)	7654 (12.3)
Public Setting	845 (15.2)	11706 (18.8)
<b>Arrest witnessed (%)</b>	<b>N=5563</b>	<b>N=62171</b>
Bystander Witnessed	2125 (38.2)	23759 (38.2)
Witnessed by 911 Responder	573 (10.3)	6698 (10.8)
Unwitnessed	2865 (51.5)	31714 (51.0)
<b>Who Initiated CPR? (%)</b>	<b>N=5563</b>	<b>N=62171</b>
Not Applicable	3 (0.1)	44 (0.1)
Bystander	2286 (41.1)	25544 (41.1)
First Responder	1436 (25.8)	17967 (28.9)
Emergency Medical Services (EMS)	1838 (33.0)	18616 (29.9)
<b>Was an AED applied prior to EMS arrival? (%)</b>	<b>N=5563</b>	<b>N=62167</b>
Yes	1963 (35.3)	18637 (30.0)
No	3600 (64.7)	43530 (70.0)
<b>Who first applied automated external defibrillator? (%)</b>	<b>N=1964</b>	<b>N=18618</b>
Bystander	467 (23.8)	4127 (22.2)
First Responder	1497 (76.2)	14491 (77.8)
<b>Who first defibrillated the patient?* (%)</b>	<b>N=5563</b>	<b>N=61073</b>
Not Applicable	3609 (64.9)	40518 (66.3)
Bystander	90 (1.6)	1121 (1.8)
First Responder	399 (7.2)	4024 (6.6)
Responding EMS Personnel	1465 (26.3)	15410 (25.2)
<b>First Arrest Rhythm (%)</b>	<b>N=5563</b>	<b>N=62169</b>
Vfib/Vtach/Unknown Shockable Rhythm	1108 (19.9)	13164 (21.2)
Asystole	2561 (46.0)	30746 (49.5)
Idioventricular/PEA	950 (17.1)	12424 (20.0)
Unknown Unshockable Rhythm	944 (17.0)	5835 (9.4)
<b>Sustained ROSC (%)</b>	<b>N=5563</b>	<b>N=62170</b>
Yes	1532 (27.5)	18850 (30.3)
No	4031 (72.5)	43320 (69.7)
<b>Was hypothermia care provided in the field? (%)</b>	<b>N=5563</b>	<b>N=62170</b>
Yes	33 (0.6)	3184 (5.1)
No	5530 (99.4)	58986 (94.9)
<b>Pre-hospital Outcome (%)</b>	<b>N=5563</b>	<b>N=62171</b>
Pronounced in the Field	1881 (33.8)	23076 (37.1)
Pronounced in ED	660 (11.9)	9028 (14.5)
Ongoing Resuscitation in ED	3022 (54.3)	30067 (48.4)
<b>Overall Survival (%)</b>	<b>N=5563</b>	<b>N=62171</b>
Overall Survival to Hospital Admission	1413 (25.4)	16140 (26.0)
Overall Survival to Hospital Discharge	481 (8.6)	6098 (9.8)
With Good or Moderate Cerebral Performance	400 (7.2)	4937 (7.9)
Missing hospital outcome	0	137
<b>Utstein<sup>1</sup> Survival (%)</b>	<b>N=633</b>	<b>N=8003</b>
	27.0%	32.8%
<b>Utstein Bystander<sup>2</sup> Survival (%)</b>	<b>N=344</b>	<b>N=4746</b>
	29.1%	36.6%

*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)*