

# CARES Summary Report

## Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/23-12/31/23

Data	Michigan N=8671	National N=139822
<b>Age</b>	<b>N=8670</b>	<b>N=139807</b>
Mean	63.3	62.1
Median	66.0	65.0
<b>Gender (%)</b>	<b>N=8671</b>	<b>N=139822</b>
Female	3294 (38.0)	51700 (37.0)
Male	5375 (62.0)	88079 (63.0)
<b>Race (%)</b>	<b>N=8671</b>	<b>N=139820</b>
American-Indian/Alaskan	12 (0.1)	546 (0.4)
Asian	76 (0.9)	3880 (2.8)
Black/African-American	2251 (26.0)	30286 (21.7)
Hispanic/Latino	138 (1.6)	12177 (8.7)
Native Hawaiian/Pacific Islander	5 (0.1)	653 (0.5)
White	5275 (60.8)	70459 (50.4)
Multi-racial	61 (0.7)	619 (0.4)
Unknown	853 (9.8)	21200 (15.2)
<b>Location of Arrest (%)</b>	<b>N=8671</b>	<b>N=139819</b>
Home/Residence	6191 (71.4)	99881 (71.4)
Nursing Home	1227 (14.2)	14557 (10.4)
Public Setting	1253 (14.5)	25381 (18.2)
<b>Arrest witnessed (%)</b>	<b>N=8671</b>	<b>N=139822</b>
Bystander Witnessed	3271 (37.7)	51336 (36.7)
Witnessed by 911 Responder	955 (11.0)	16540 (11.8)
Unwitnessed	4445 (51.3)	71946 (51.5)
<b>Who Initiated CPR? (%)</b>	<b>N=8670</b>	<b>N=139810</b>
Not Applicable	6 (0.1)	63 (0.0)
Bystander	3676 (42.4)	58016 (41.5)
First Responder	2684 (31.0)	43558 (31.2)
Emergency Medical Services (EMS)	2304 (26.6)	38173 (27.3)
<b>Was an AED applied prior to EMS arrival? (%)</b>	<b>N=8671</b>	<b>N=139821</b>
Yes	3201 (36.9)	40084 (28.7)
No	5470 (63.1)	99737 (71.3)
<b>Who first applied automated external defibrillator? (%)</b>	<b>N=3202</b>	<b>N=40110</b>
Bystander	873 (27.3)	8774 (21.9)
First Responder	2329 (72.7)	31336 (78.1)
<b>Who first defibrillated the patient?* (%)</b>	<b>N=8668</b>	<b>N=139800</b>
Not Applicable	6001 (69.2)	98064 (70.1)
Bystander	174 (2.0)	2231 (1.6)
First Responder	582 (6.7)	8529 (6.1)
Responding EMS Personnel	1911 (22.0)	30976 (22.2)
<b>First Arrest Rhythm (%)</b>	<b>N=8671</b>	<b>N=139807</b>
Vfib/Vtach/Unknown Shockable Rhythm	1521 (17.5)	24517 (17.5)
Asystole	4368 (50.4)	72251 (51.7)
Idioventricular/PEA	1578 (18.2)	30884 (22.1)
Unknown Unshockable Rhythm	1204 (13.9)	12155 (8.7)
<b>Sustained ROSC (%)</b>	<b>N=8671</b>	<b>N=139786</b>
Yes	2448 (28.2)	37902 (27.1)
No	6223 (71.8)	101884 (72.9)
<b>Was hypothermia care provided in the field? (%)</b>	<b>N=8671</b>	<b>N=139819</b>
Yes	0 (0.0)	3932 (2.8)
No	8671 (100.0)	135887 (97.2)
<b>Pre-hospital Outcome (%)</b>	<b>N=8671</b>	<b>N=139822</b>
Pronounced in the Field	4162 (48.0)	59972 (42.9)
Pronounced in ED	457 (5.3)	13315 (9.5)
Ongoing Resuscitation in ED	4052 (46.7)	66535 (47.6)
<b>Overall Survival (%)</b>	<b>N=8671</b>	<b>N=139822</b>
Overall Survival to Hospital Admission	2182 (25.2)	36492 (26.1)
Overall Survival to Hospital Discharge	742 (8.6)	14300 (10.2)
With Good or Moderate Cerebral Performance	584 (6.7)	11376 (8.1)
Missing hospital outcome	0	332
<b>Utstein<sup>1</sup> Survival (%)</b>	<b>N=927</b>	<b>N=14558</b>
	29.1%	32.8%
<b>Utstein Bystander<sup>2</sup> Survival (%)</b>	<b>N=542</b>	<b>N=8840</b>
	32.8%	36.3%

*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)*