

# CARES Summary Report

## Demographic and Survival Characteristics of OHCA

Non-Traumatic Etiology | Arrest Witness Status: All | Date of Arrest: 01/01/20 - 12/31/20

Data	Michigan N=9290	National N=127376
<b>Age</b>	<b>N=9288</b>	<b>N=127337</b>
Mean	63.7	62.3
Median	66.0	65.0
<b>Gender (%)</b>	<b>N=9290</b>	<b>N=127370</b>
Female	3668 (39.5)	48256 (37.9)
Male	5621 (60.5)	79109 (62.1)
<b>Race (%)</b>	<b>N=9270</b>	<b>N=127312</b>
American-Indian/Alaskan	12 (0.1)	503 (0.4)
Asian	64 (0.7)	2917 (2.3)
Black/African-American	2720 (29.3)	29572 (23.2)
Hispanic/Latino	115 (1.2)	10229 (8.0)
Native Hawaiian/Pacific Islander	9 (0.1)	583 (0.5)
White	5318 (57.4)	64949 (51.0)
Multi-racial	2 (0.0)	32 (0.0)
Unknown	1031 (11.1)	18540 (14.6)
<b>Location of Arrest (%)</b>	<b>N=9290</b>	<b>N=127374</b>
Home/Residence	6718 (72.3)	94556 (74.2)
Nursing Home	1396 (15.0)	13588 (10.7)
Public Setting	1176 (12.7)	19230 (15.1)
<b>Arrest witnessed (%)</b>	<b>N=9290</b>	<b>N=127370</b>
Bystander Witnessed	3331 (35.9)	47206 (37.1)
Witnessed by 911 Responder	1028 (11.1)	16344 (12.8)
Unwitnessed	4931 (53.1)	63820 (50.1)
<b>Who Initiated CPR? (%)</b>	<b>N=9290</b>	<b>N=127366</b>
Not Applicable	0 (0.0)	56 (0.0)
Bystander	3781 (40.7)	51906 (40.8)
First Responder	2337 (25.2)	35977 (28.2)
Emergency Medical Services (EMS)	3172 (34.1)	39427 (31.0)
<b>Was an AED applied prior to EMS arrival? (%)</b>	<b>N=9289</b>	<b>N=127373</b>
Yes	3157 (34.0)	33862 (26.6)
No	6132 (66.0)	93511 (73.4)
<b>Who first applied automated external defibrillator? (%)</b>	<b>N=3155</b>	<b>N=33826</b>
Bystander	902 (28.6)	7375 (21.8)
First Responder	2253 (71.4)	26451 (78.2)
<b>Who first defibrillated the patient?* (%)</b>	<b>N=9290</b>	<b>N=126071</b>
Not Applicable	6583 (70.9)	90306 (71.6)
Bystander	161 (1.7)	1594 (1.3)
First Responder	526 (5.7)	6474 (5.1)
Responding EMS Personnel	2020 (21.7)	27697 (22.0)
<b>First Arrest Rhythm (%)</b>	<b>N=9290</b>	<b>N=127359</b>
Vfib/Vtach/Unknown Shockable Rhythm	1424 (15.3)	20953 (16.5)
Asystole	4890 (52.6)	67749 (53.2)
Idioventricular/PEA	1604 (17.3)	28196 (22.1)
Unknown Unshockable Rhythm	1372 (14.8)	10461 (8.2)
<b>Sustained ROSC (%)</b>	<b>N=9290</b>	<b>N=127334</b>
Yes	2382 (25.6)	34524 (27.1)
No	6908 (74.4)	92810 (72.9)
<b>Was hypothermia care provided in the field? (%)</b>	<b>N=9290</b>	<b>N=127376</b>
Yes	114 (1.2)	4530 (3.6)
No	9176 (98.8)	122846 (96.4)
<b>Pre-hospital Outcome (%)</b>	<b>N=9290</b>	<b>N=127376</b>
Pronounced in the Field	4858 (52.3)	54015 (42.4)
Pronounced in ED	714 (7.7)	15287 (12.0)
Ongoing Resuscitation in ED	3718 (40.0)	58074 (45.6)
<b>Overall Survival (%)</b>	<b>N=9290</b>	<b>N=127376</b>
Overall Survival to Hospital Admission	2023 (21.8)	30608 (24.0)
Overall Survival to Hospital Discharge	658 (7.1)	11419 (9.0)
With Good or Moderate Cerebral Performance	537 (5.8)	9063 (7.1)
Missing hospital outcome	0	196
<b>Utstein<sup>1</sup> Survival (%)</b>	<b>N=839</b>	<b>N=12241</b>
	27.4%	29.2%
<b>Utstein Bystander<sup>2</sup> Survival (%)</b>	<b>N=477</b>	<b>N=7269</b>
	30.2%	33.0%

*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)*